PRODUCT CATALOGUE
PVC SQUARE CONSTRUCTIONS

SIEGENIA®
brings spaces to life

TITAN AF

BS TITAN

TITAN AF hardware programme
- For PVC window elements
- With hinge side TITAN
- For square constructions

Window systems
Door systems
Comfort systems

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Directives of the Trade Organisation for Locks and Fittings (Gütegemeinschaft Schlösser und Beschläge e. V.)

The directives of the Trade Organisation for Locks and Fittings provide comprehensive information on the correct operation and maintenance of hardware for windows and portal doors.

Compliance with these guidelines is mandatory

You can find the latest versions of the directives, in a range of languages, at:

guetegemeinschaft-schloss-beschlag.de/Pruefen-Zertifizieren/Richtlinien/VHBH/

TBDK – Attachment of supporting fitting components for turn-only and tilt & turn fittings

with definitions for turn-only and tilt & turn fittings and their possible installation positions

VHBH – Hardware for windows and balcony doors

Guidelines/advice on the product and on liability

VHBE – Hardware for windows and balcony doors

Guidelines/advice for end-users

FPKF – Restrictor and cleaning stays for tilt-only sashes and tilt-only fanlights

Use of restrictor and cleaning stays

FBDF – Casement stoppers for variable rotational position of window sashes

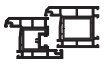
Casement stoppers that are controlled via the central locking system - definitions and tests

Further relevant documents

You can find further relevant documents, for example structural design charts, assembly instructions, profile spec sheets, individual component sheets, and maintenance, operating and care instructions, on our documentation pages:

downloads.siegenia.com/

Element materials


Element material PVC


Element material timber


Element material aluminium

Opening types


Rectangular turn-tilt element


2-sash rectangular turn-tilt/turn elementt


Rectangular turn element


2-sash rectangular turn/turn element


Rectangular tilt element


Arched-head turn-tilt element


2-sash arched-head turn-tilt/turn element


Rounded-head turn-tilt element


2-sash rounded-head turn-tilt/turn element


Angled turn-tilt element


Triangular turn-tilt element

Symbols


Height adjustment


Side adjustment


Compression adjustment

Dimensions

All dimensions are nominal values and include the general tolerances.

All nominal values are given in mm.

Weights

All weights refer to the maximum sash weight.

70	locking distance 700 mm
.../A	croppable component
.../G	counter
.../K	consistent component length
...+	component to slide underneath
16/2	fitting groove 16 x 2 mm
A0175	hinge clearance through sash
A0245	suitable for use with threshold
AB	start of bow begin arch
ADV	adjustable compression
AF	automated manufacturing
AWD	application diagram
bag	bag
BAN	hardware groove
BS	hinge side
BSO	hinge side, top
BSU	hinge side, bottom
BSW	threshold
CG	glass deduction dimension
crt.	carton
D	turn
DEF	triangular window
DF	turning sash
DFB	turn only hinge
DG	turning sash, reverse-action
DH	turn restriction
DK	turn-tilt element
DS	turning secondary sash
DS 8	turning secondary sash (eurogroove)
DS 16	turning secondary sash (with reverse-action hardware groove)
DSV	concealed turning lock
DZB	turn hinge
E	anti-intruder
EB	corner hinge
EL	inserting jig
ELB	bottom hinge pin
EL O	bottom hinge top
EL U	bottom hinge bottom
EL-S U	bottom hinge
ES	increased security
ESL	stainless-steel finish
FA	sash distance
FAV	FAVORIT
FB	sash hinge
FBS	anti-mishandling device
FEB	rebate corner hinge
FFA	sash rebate stop
FFB	sash rebate width
FFH	sash rebate height
FFK	sash rebate edge
FG	sash lift
FH	sash lift
FHD	sash timber thickness
FL	airgap
FPS	tilt-only security stay
FT	rebate depth
FZ	fixing bolt
G	handle position
GBA	straight pin
GG	glass weight
GK	Constant handle height
GL	glazing bead
GM	centre/variable handle height
GS	basic security
h	milling depth
H	timber
H4	timber, 4 mm airgap
H12	timber, 12 mm airgap
HD	heavy duty hinge side
K	tilt
KD	tilt before turn (=TBT)
KFB	tilt sash hinge
KL	clamping jig
KR	shoot bolt
KRB	tilt-lock element



KRL	tilt-lock bearing
KS	constant secondary sash
KSB	tilt striker plate
LH	left
LS	length of angled section
M	magnetic cam
MB	with bolts
MN	with groove
MSP	multiple gap ventilation
MV	centre lock
NA	groove axis
ON	without groove
OS	without lock
OZ	without cam
PDB	profile data sheet
PVC	plastic
PZ	profile cylinder
PZD	pozidriv
RAN	fitting groove
RB	arched head
RC	resistant Class
RH	right
RFA	frame rebate stop
RFB	frame rebate width
RFH	frame rebate height
RFK	frame rebate edge
RS	rolling security cam
RSA	bolt throw
S	heavy version
SB	striker plate
SB	rounded head
SB-RS	striker plate f. rolling security cam
SE	flush-closing
S-ES	mushroom cam
SF	angled-head window
SL	top hinge
SP	gap ventilation
S-RS	comfort mushroom
SW	wrench size/opening
t	drilling depth
TAF	TITAN AF
TBT	Tilt-before-turn
Telesk.	Telescope
TiP	TITAN iP
TL	door design
TS	titanium silver
U	bottom
ÜB	rebate width
UE	monitoring
UEB	rebate
US	bottom side
VKE	sales unit
VL	extension
VS	locking side
VSO	locking side, top
VSU	locking side, bottom
W	stay hinge
witho.	without
Z	additional stay
ZZ	toothing/toothing

The material number is a code for components and consists of eight segments. The material number allows products to be precisely assigned to their corresponding component drawing, surface, colour and other properties.

T	KEU	900	0	–	0	38	06	0

Product group
This code specifies to which product group of the SIEGENIA the product belongs

Assembly
The assembly is a reference to the component family (e.g. covers, gears, frame parts, etc.)

Article counter
Consecutive component number

DIN or opening direction
This code specifies the side of the hinge or opening direction)

Surface
Surface treatment of metal components (e.g. zinc-plated)

Colour
Colour of surface or material

Sales unit
Sales or packaging unit

Index
Production index

Material numbers key



T	KEU	900	0	–	0	38	06	0
1	2	3	4		5	6	7	8

1 Product group					
A	A300	G	DRIVE (Building technology)	T	TITAN
B	BASICline	K	Small parts	U	SASS
C	Casement	L	AERO (Ventilation technology)	V	Packaging
D	KFV (Door)	M	ALU	Z	Accessories (general)
F	FAVORIT	P	PORTAL		

2 Assembly					
A	Jig	H	Handle	S	Stays
B	Hinge side parts	K	Cover caps	U	Monitoring (Aerocontrol/ radio sensor)
D	Seal, distance piece	L	Bogie wheels	V	Extension
E	Corner drives, lock bolts, locking parts	M	Mixed packages	Z	Linkages / accessories
F	Sash components	P	Profiles / profile sets PORTAL		
G	Gear	R	Frame parts		
The abbreviations ONLY apply to the 1st digit. Further digits are assigned individually.					

3 Article counter
The articles are assigned consecutive numbers from 001 to 999.

4 DIN or opening directions					
0	Independent of opening	1	DIN right	2	DIN left

5 Surface					
0	Neutral (finished surface) e.g. plastic	2	E-Look (galvanised)	6	Clear - chromated (galvanised)
1	Titan silver (galvanised)	5	Aluminium (suitable for anodising, painting or coating)	L	Painted

6 Colour					
01	RAL 9001	16	RAL 8001	H0	Old gold (EV4)
02	RAL 9003	24	EV1 Anodised	H4	F9 Titan bright
11	RAL 8022	38	Gold shining	I2	F3 Gold matte
For further colours please inquire.					

7 Packaging unit					
01	Quantity of 1	04	Quantity of 25	07	Quantity of 250
02	Quantity of 10	05	Quantity of 50	08	Quantity of 500
03	Quantity of 20	06	Quantity of 100		
For further packaging units please inquire.					

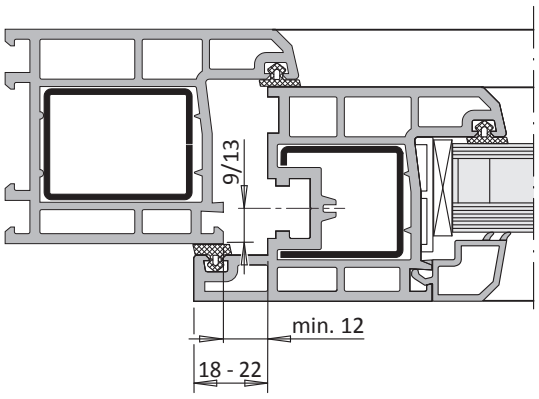
8 Processing index
The processing index indicates the processing status and is assigned consecutively.

1-sash design

Cavity: min. 12 mm

Rebate width: 18 to 22 mm

Groove axis: 9/13 mm

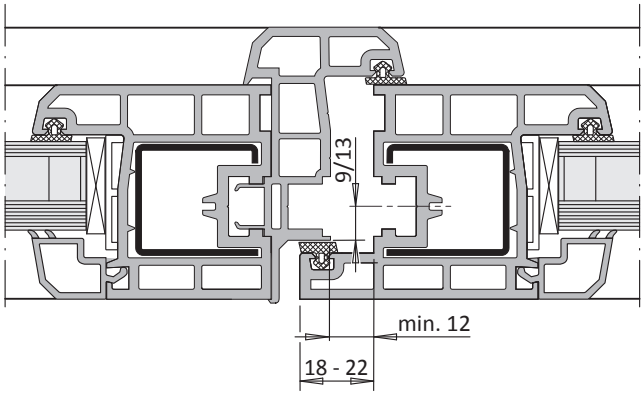


Secondary sash with opposed fitting groove (DS 16)

Cavity: min. 12 mm

Rebate width: 18 to 22 mm

Groove axis: 9/13 mm

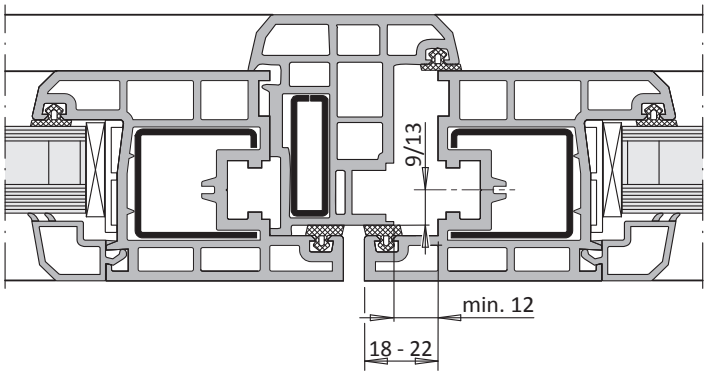


Secondary sash with opposed fitting groove (DS 16)

Cavity: min. 12 mm

Rebate width: 18 to 22 mm

Groove axis: 9/13 mm



Note:

For profile-related specifications please refer to the SIEGENIA profile datasheets.

Caution:

The size ranges stated on the set sides apply to SIEGENIA fittings. In addition, the specifications of the profile fabricators or system owners also apply, especially in regard to possible restrictions on sash dimensions, sash weight and lock spacing.



Important instructions for fabricators

Priorandapplicable documents

The following documents take precedence over and/or are applicable with this document:

- Guidelines regarding product liability (TBDK, VHBH, VHBE, FPKF, FBDF)
- Application range diagrams
- Operating, care and maintenance instructions

References to these documents can be found in the „General“ section H45.TITA000S002.

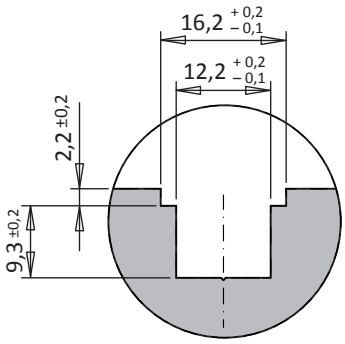
Systems

The size ranges that are specified are binding for the hardware solutions that are included in this document. The following specifications must also be adhered to:

- **PVC windows / aluminium window with 16 mm BAN**
  The specifications of the profile fabricators or system providers also apply, especially in regard to possible restrictions on sash dimensions, sash weight and lock spacing. Where special manufacturing instructions or fabrication guidelines exist, these must be explicitly adhered to. The specifications given for screw-in revolutions and torques must be adhered to.

- **Timber windows**
  The specifications of DIN 68 121 (timber windows and window doors).

  Required eurogroove



Area of application

All hardware solutions are intended for installation on **inward** opening windows and portal doors.

The specified steel hardware components are electro-galvanised and then finished using a special process. They are not suitable for use:

- In damp locations
- In environments where the air contains aggressive, corrosive components
- In environments where the air contains salt
- With timbers containing aggressive substances

Please contact your SIEGENIA sales consultant in such situations.

Hardwaresolutions

The illustrations below of hardware solutions for intruder resistance on single and double-sash windows and window doors are **recommendations** only.

Special measures must be taken in order for test certificates to be obtained, depending on the regulation/test standard and target resistance class, with regard to the type of timber, profiling, reinforcement, weather strip bar, how the weather strip bar is connected and the hardware.

The specifications relating to this in the section:

- Intruder-resistant properties of an PVC window
- Intruder-resistant properties of an aluminium window
- Intruder-resistant properties of an timber window
- Informations about DIN EN 1627 - 1630 in the „Security and Standards“ section

Contact SIEGENIA in individual cases with respect to appropriate testing versions.

Excessive strain

Bearing components can break as a result of excessive strain. If this happens, the window sash may fall out, leading to serious injuries. If the hinge parts are likely to be subject to excessive strain under certain conditions (use in schools, nursery schools, etc.), appropriate measures must be taken to prevent this from happening, such as using a friction stay to limit the opening angle of the window, or using a turning lock.

If there is any doubt, be sure to consult your SIEGENIA sales consultant.

Complete set of hardware

Your complete set of hardware should be composed of **solely** SIEGENIA hardware components. Otherwise damage could occur, for which we accept no liability.

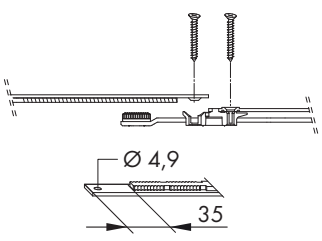
Mounting the hardware components

All hardware components must be mounted properly. When doing so, pay particular attention to the mounting position and ensure that all hardware components on the hinge side are firmly attached. The top hinge pin must be pushed in up to the stop **from below**, and snapped into the springs of the top hinge. Pull out the top hinge pin only with a suitable assembly key.

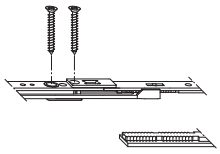
These procedures must be carried out by experienced professionals only.

Connecting the hardware components

- TITAN iP linkage cut



- TITAN AF/FAVORIT cut to length



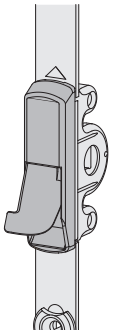
Calibration of adjustable components

The given values for side, height and pressure settings must not be exceeded. Otherwise bearing components may break due to excessive strain and the window sash may fall out.

Note also our maintenance instructions (order no. H4002.2873en).

Using a mishandling device

In order to protect the hardware and the window element, and to ensure a long service life, we recommend the use of a mishandling device such as the below, **particularly for heavy sash weights from 100kg**.



You can find our assembly video here:
Assembling the mishandling device



Mounting the hardware components

- Handle:
  - Countersunk screws M 5 x .., in accordance with DIN 965-4.8; the screws should be long enough that they engage a minimum of 6 mm into the screw thread of the gear casing. The maximum torque should not exceed 2 Nm.

- Remaining hardware components:
  - Screws 4 x 25 or 30 for PVC windows
  - Screws 4 x 30 for timber window (pre-drilling is required for softwoods)
  - Self-drilling screws 3.9 x … for aluminium windows
  - **Countersunk screws with partial thread 4 x 25 or 30 must be used to mount all hardware components in the vertical secondary sash area on secondary sash windows.**

- Screw material:
  - Do not overwind zinc-coated and passivated surfaces for „Titanium Silver“ screws
  - With a Zn-Ni or Deltatone with Delta Seal surface for „E-look“ to avoid contact corrosion.

- To obtain a test certificate, it is necessary for the S-RS striker plates and tilt lock bearing to be connected in a particular way.

Do not overtighten the screws.

Timber surface treatment

Timber windows and door elements should only be surface treated **before** the hardware components are assembled. Treating these surfaces at a later stage can reduce the functional capacity of the hardware components.

Inserting blocks

When inserting blocks, be sure to observe technical guideline no. 3 from the German Glazing Trade [Glaserhandwerk], “Blocking glazing units” [Klotzung von Verglasungseinheiten].

Sealants

Never use acid cure sealants as they may cause the hardware components to corrode.

Cleaning

Keep the rebates free from deposits and dirt, especially from remnants of cement and plaster. Avoid exposing the hardware directly to water and do not let cleaning agents come into contact with the hardware.

Information for end users

Provide the user with the following documents:

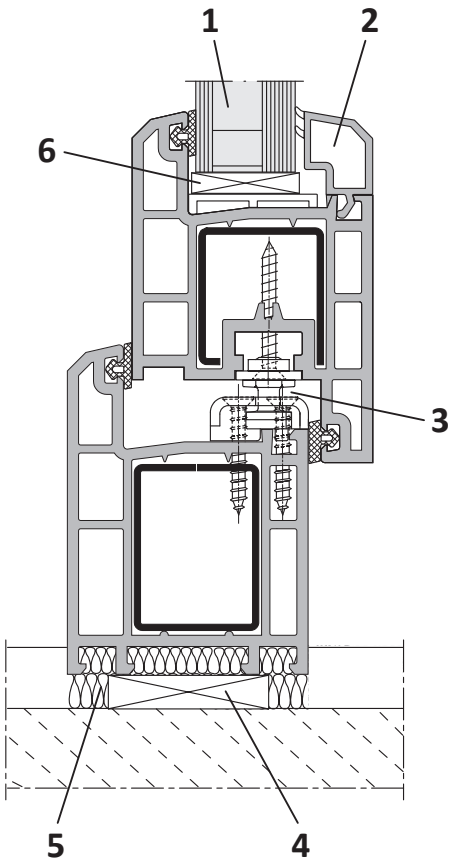
- Operating and Care Instructions (order no. H4002.2874en)

Technical changes

We reserve the right to make technical changes required as a result of the further development of products or a change in standards, laws or jurisdiction.

We assume no liability for printing errors.

Anti-intruder features of a PVC window



1 Penetrationresistant glazing

2 Secured glazing bead

3 Design and mounting of the hardware

4 Dowel fastening to the building structure around the locking positions

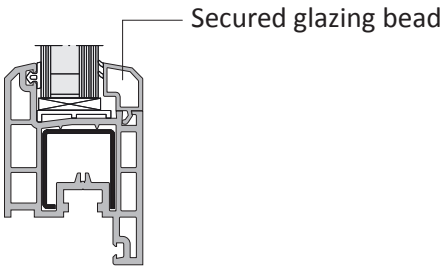
5 Compression-resistant backing

6 Compression-resistant distance block setting

DIN EN 1627 ff – RC1

Airgap

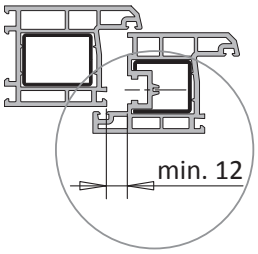
The glazing beads should be secured according to requirements (e.g. by screw connections, adhesive bonding, etc.) or the laminated safety glass pane must be bonded in the rebate.



Cavity

The cavity dimension which is specified in the SIEGENIA profile datasheet for the corresponding plastic profile system must be adhered to.

It must not be exceeded, nor must it fall below the limit.

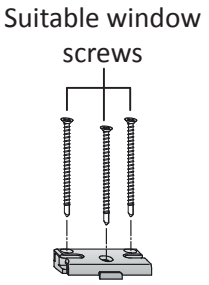


Striker plates and tilt lock bearings

The S-RS striker plates must be positioned in such a way that the locking cams catch in the striker plates as much as possible.

The screw length must be selected so that the S-RS striker plates and tilt lock bearings are screwed into two walls if possible.

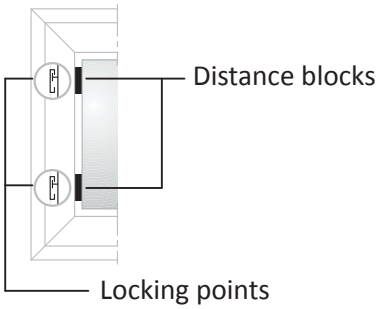
If it is possible to screw into steel bracings, selfdrilling screws with Ø 3.9 mm should be used. The length must be selected so that the screws can be screwed into the bracing by 8 to 10 mm.



If a frame groove is available, it should be sealed with a cover profile.

Inserting blocks

To prevent the sash profile from moving in the glazing rebate, the glass pane must also be set with blocks close to the security latching positions (distance blocks).

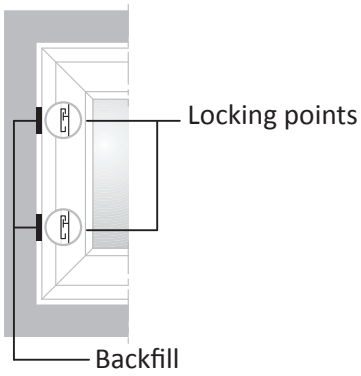


Wall mounting

The cavity between the frame and the brickwork near the locking points must be back-filled to be compression resistant.

When fixing the window elements, special steps must be taken with regard to the distance between fixing

points, the edge spacing and the wall construction, depending on requirements.



DIN EN 1627 ff – additional information for RC2

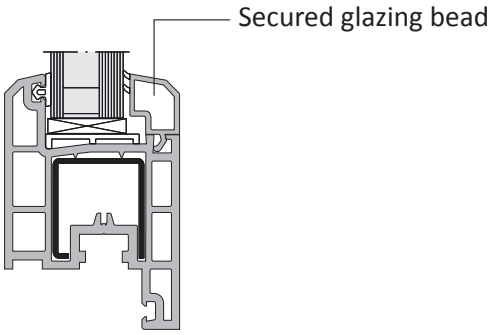
Window frame

To ensure that the sash can only move minimally within the window frame, distance blocks must be mounted in the corner areas of the window frame (see also hardware layout).

At the same time, however, this must not restrict the options available for adjusting the fittings.

Glazing rebate

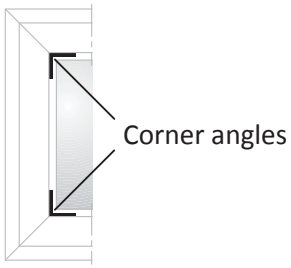
The glazing beads must be secured according to requirements (e.g. by screw connections, adhesive bonding, etc.), or the laminated safety glass pane must be bonded in the rebate.



DIN EN 1627 ff – additional information for RC3

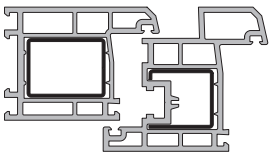
Glazing rebate

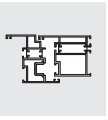
The four corners of the sash frame must also be screwed into the glazing rebate with steel brackets. These steel brackets prevent the mitre joints from breaking apart in the event of a break-in attempt.

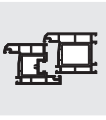


Profile system

Flush profile systems are generally better suited to the design of anti-intruder windows as they offer fewer opportunities for the intruder‘s tools to be used.







Requirements and national specifics for DIN EN 1627:2011-09

DIN EN 1627ff

After a draft standard period of 12 years, the EN 1627ff series of standards was published as DIN EN 1627ff in September 2011.

The key changes refer to the description of the resistance classes and the test procedure for resistance class 1.

Widerstandsklassen (resistance classes) WK1 - 6 are referred to as resistance classes (RC) in the final version of the standard.

The number of resistance classes has not changed (RC1 – RC6).

The standard governs the requirements and classifications with respect to the anti-intruder features of windows, doors, curtain walling, grilles and shutters.

It is valid for the following types of openings: turning, tilting, folding, tilt & turn, swinging, sliding (horizontally and vertically) and roller, as well as structures that do not open.

Resistance class RC2 has been split into two separate classes (RC2N and RC2).

The suffix „N“ in classes RC1N and RC2N represents the possibility that national requirements may have to be taken into account.

No requirements are made in these classes with respect to glazing in the German version of EN 1627. Nevertheless, the glass must be connected in the manner in which it has been tested.

SIEGENIA level	Standard/ Directive	Test class	Striker plate	Handle	Drilling protection	Glazing
Basic security	—	—	Standard	Standard	No	No requirements
RC1	DIN EN 1627	RC1N	S-RS	Lockable 100 Nm	Yes	No requirements
RC2	DIN EN 1627	RC2N	S-RS	Lockable 100 Nm	Yes	No requirements
		RC2				EN356, P4A
RC3	DIN EN 1627	RC3	S-RS	Lockable 100 Nm	Yes	EN356, P5A

Glazing

Minimum requirements for glazing

Test class	Glazing in accordance with EN 356
RC1N	No requirements
RC2N	No requirements
RC2	P4A
RC3	P5A
RC4	P6A
RC5	P7A
RC6	P8A

Requirements for glazing the test specimen

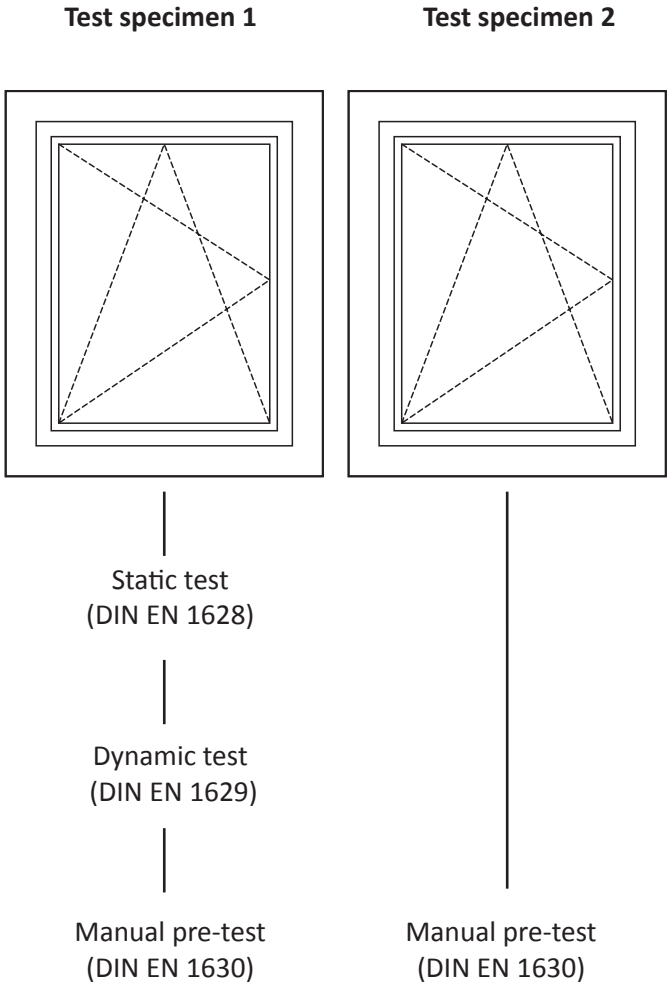
For the test, the test specimens are to be fitted with glazing in accordance with EN 356. In order to protect the tester, the safety glass should be placed on the attack side.

Test class	Glazing in accordance with EN 356
RC1N	P4A
RC2N	P4A
RC2	P4A
RC3	P5A
RC4	P6A
RC5	P7A
RC6	P8A

Test specimens

Two identical test specimens are required for the test in accordance with DIN EN 1627ff.

- Test specimen 1 is used for the weak point analysis.
- Test specimen 2 is used for the main test subject to the weak point analysis.

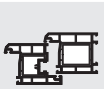


Test method

The established breakdown of the test method into static, dynamic and manual tests presented in the draft standard has essentially remained the same.

- DIN EN 1628 static test method
- DIN EN 1629 dynamic test method
- DIN EN 1630 manual test method

Changes have however been made to the individual test methods.





DIN EN 1628

DIN EN 1628 describes the test method for determining the resistance of a construction product under static loading.

Depending on the resistance class, this involves defined forces being applied to specific points in order to determine the deflection of the movable part of the construction product.

In contrast to the draft standard, the deflection is no longer measured but is determined using gap gauges instead.

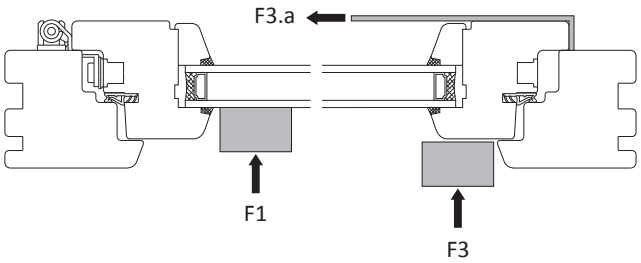
	Resistance class (RC)							
	RC1 and RC2		RC3		RC4		RC5 and RC6	
Loading points	Test load kN	Gap gauge type	Test load kN	Gap gauge type	Test load kN	Gap gauge type	Test load kN	Gap gauge type
F1 Infill corner	3	B	6	B	10	B	15	B
F2 Leaf/sash corner	1,5	B	3	B	6	B	10	B
F3 Locking points	3	A	6	A	10	A	15	A
F3.a Additional load	1,5	A	—	—	—	—	—	—

Loading points

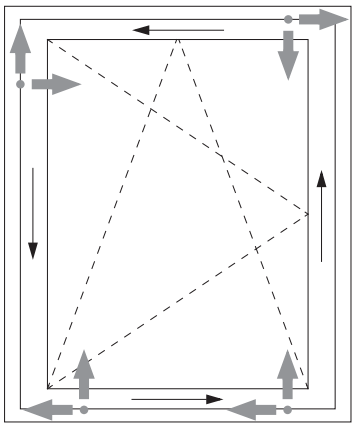
- **F1 Infill corners**
  Load is to be applied to each infill corner.

- **F2 Leaf/sash corners**
  Load is applied to the corners of the leaf/sash if the next locking point is more than 350 mm away from the corner.

- **F3 Locking points**
  Each locking point is loaded to F3. If two locking points are less than 200 mm apart, the load is applied midway between them.
  Locking points are all connection points between window and leaf/sash frames, including hinges.



- **F3.a Locking points**
  (only for resistance class RC1N)
  Load F3.a is applied in conjunction with load F3 on the flat of the test specimen (reproducibility of an attack using small lever tools).
  The load is applied against the locking direction in a way which increases the airgap.



- Locking point
- Locking direction
- Load direction F3.a

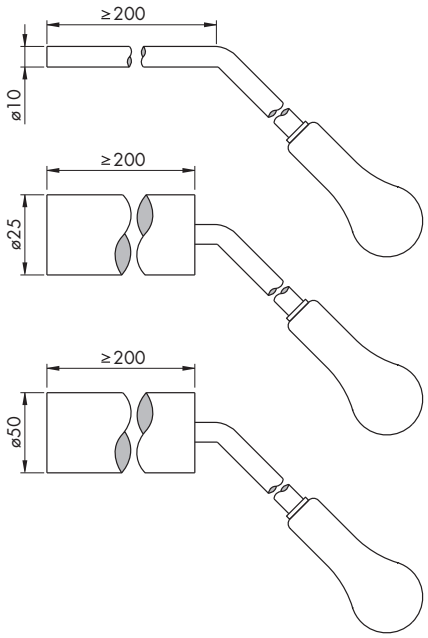
Gap gauges

Gap gauges for testing deflection

Type A (ø 10 mm)

Type B (ø 25 mm)

Type C (ø 50 mm)



The type C gap gauge is used for group 3 products (e.g. shutters).

DIN EN 1629

DIN EN 1629 describes the dynamic test method for the elements.

The test aims to simulate attacks made by people who attempt to use their shoulders or feet to create an accessible opening.

For products in resistance class 1, all parts are also dismantled on the attack side, in a non-destructive manner, using tool set A1 prior to carrying out the dynamic test. This preparatory procedure must not take longer than 3 minutes.

Whereas in DIN V ENV 1629 the test was carried out using a 30 kg sandbag, the new DIN EN 1629 standard uses a 50 kg impactor.

For this test, safety glazing (P4A in accordance with EN 356) should be placed on the load side.

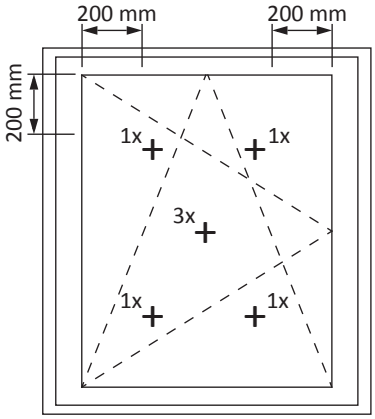
The dynamic test is only carried out in resistance classes RC1 to RC3.

Dynamic testing is not required in resistance classes RC4 to RC6.

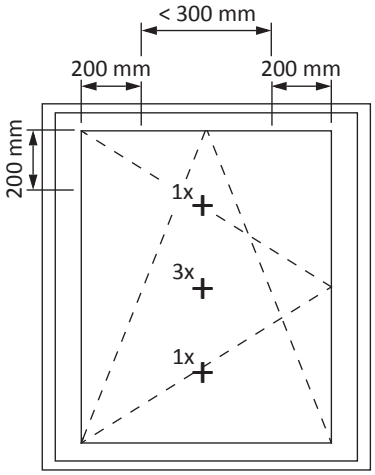
Due to the increased weight of the pendulum impact, the drop height has been reduced.

Test class	Drop height in mm	Weight of the impactor in kg
RC1N	450	50
RC2N		
RC2		
RC3	750	
RC4 to RC6	No dynamic test required	

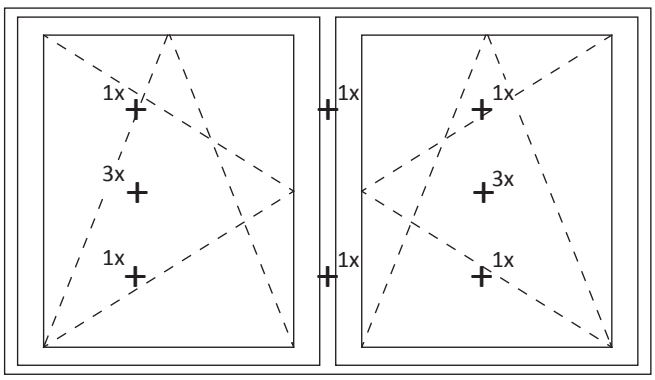
The impact load is applied once at each corner of the infill



and three times in the centre of the test specimen.

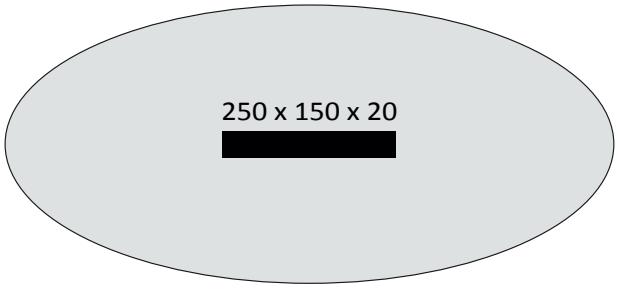


On secondary sashes, the individual infill panels are only impacted on the centreline. The secondary sash area is also tested.



Evaluating the results of the dynamic test

The test specimen has not passed the test if gap gauge D can be passed through the opening that has formed in the test specimen.



DIN EN 1630

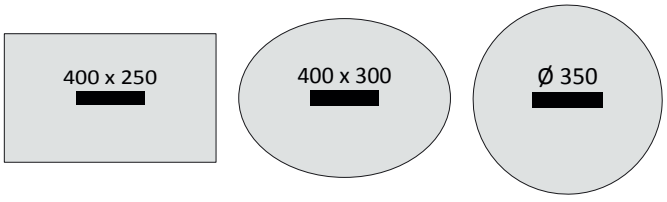
DIN EN 1630 describes how resistance to manual intrusion attempts is determined.

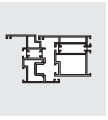
The test specimens are installed in a sub-frame.

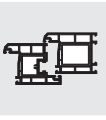
Depending on the resistance class, the tester has various tool sets available in order to create an accessible opening.

The resistance time includes periods of fewer than 5 seconds for each time the tester changes tools.

The following analysis templates are used to determine an accessible opening.







Break-in testing according to DIN EN 1627:2011

A specific procedure, a resistance time and a specific tool set is stipulated for each resistance class for the break-in test.

Resistance class DIN EN 1627:2011	Type of intruder/procedure/tools	Resistance time
RC1N	A manipulation test is carried out using small tools, components of this resistance class only have low protection against the use of lever tools. This class is conducted with standard glass.	3 minutes
RC2N	The intruder also attempts to force thelocked and bolted component openusing simple tools such as screwdrivers, pliers and wedges. A direct attack on the glazing used is unlikely. This class is also conducted with standard glass.	3 minutes
RC2	The intruder also attempts to force the locked and bolted component open using simple tools such as screwdrivers, pliers and wedges. Glazing in accordance with EN 356 is compulsory from class RC2.	3 minutes
RC3	The intruder also attempts to force the locked and bolted component open using a second screwdriver and a crowbar.	5 minutes
RC4	The experienced intruder also uses sawing tools and striking tools such as an axe, a crowbar, a hammer and chisel and a cordless drill.	10 minutes
RC5	The experienced intruder also uses power tools such as a drill, a jig saw or sabre saw and angle grinder (max. disc diameter 125 mm).	15 minutes
RC6	The experienced intruder also uses heavy-duty power tools such as a drilling machine, a jig saw or sabre saw and angle grinder (max. disc diameter 230 mm).	20 minutes

Correlation

If the body issuing the invitation to tender announces the elements as antiintruder elements in accordance with DIN EN 1627 - Resistance Class RC2, then, by referring to the correlation table, an existing test certificate to DIN V ENV 1627 - Resistance Class RC2 can be used.

Apart from for resistance class RC1N, it is assumed that products that were classified as resistance class RC2 – RC6 correspond to the same classes in the standard DIN EN 1627.

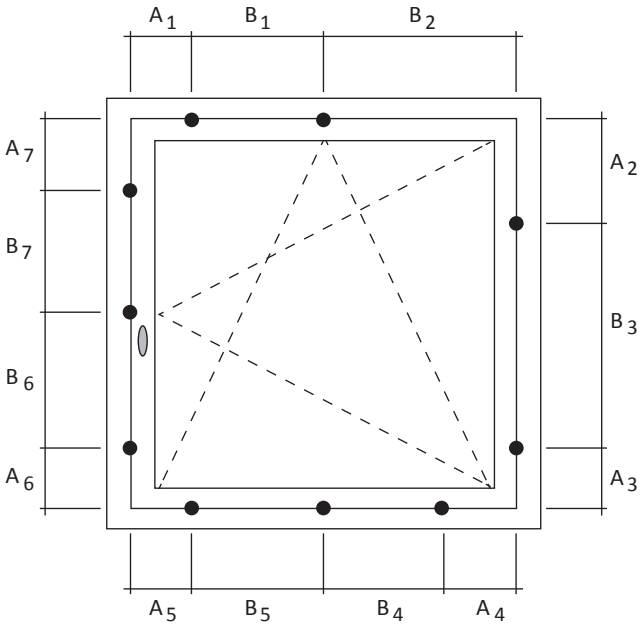
Resistance classes (RC) in accordance with DIN EN 1627:2011-08	Resistance classes (RC) in accordance with DIN V ENV 1627:1999-04
RC1N	No correlation possibleh
RC2N	WK2 (free choice of glazing - glass connection as tested)
RC2	WK2
RC3	WK3
RC4	WK4
RC5	WK5
RC6	WK6

Dimensions

The classification of a product is only valid for the dimensions that were actually tested.

A selection of test specimens is required if a product system is to be assessed.

Using the rule of extrapolation, the tested dimensions can be extended or reduced within their limits without the need to carry out a test.



Key

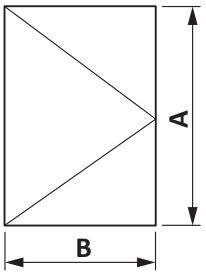
A1 ... A7	+5%, –20%
B1 ... B7	+5%, –30%
Surface area	±25%

TITAN

application diagram

hinge side: surface-mounted

kg ≤80



- for the middle sash (in triple sash elements)
- inward opening elements only

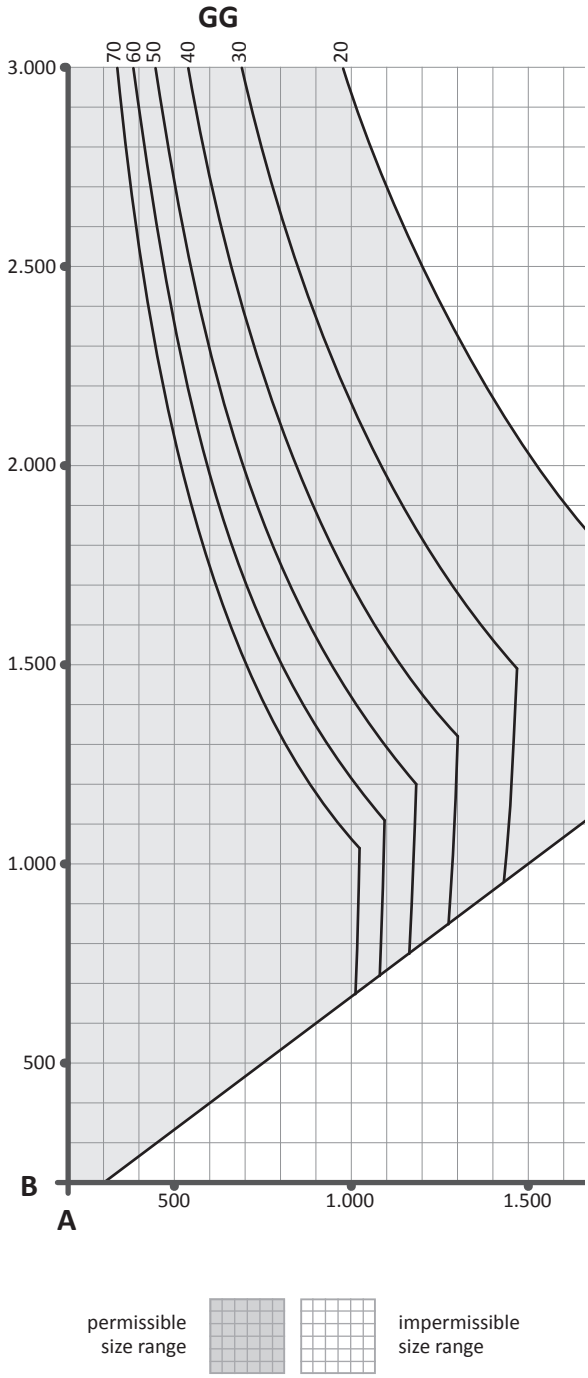
A = FFH (sash rebate height [mm])
B = FFB (sash rebate width [mm])
GG = glass weight [kg/m²]

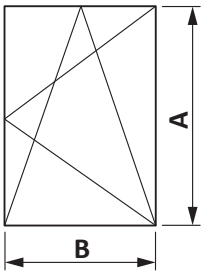
basis for testing and calculation

- Tilt-turn test according to EN 13126-8:
  - turn-only cycles: 20,000
- additional loads taken into account according to EN 14608 (figure A.1)/class 4 according to EN 13115 (800N).

Conditions for the use of the application diagram

- Evidence for fixing structural components onto the window system by a window manufacturer according to TBDK with the following forces:
  - on the top hinge (N): 2,200
  - on the bottom hinge (N): 2,310
- The following values are to be observed with all window systems:
  - max. width/height ratio $Q_{B/H}$: ≤ 1.5
  - glass deduction dimension CG (mm): ≥ 28
  - profile weight PG (kg/m): ≤ 3.25
- Notes on the intended use:
  Basics and use of the application diagrams
  "Download"





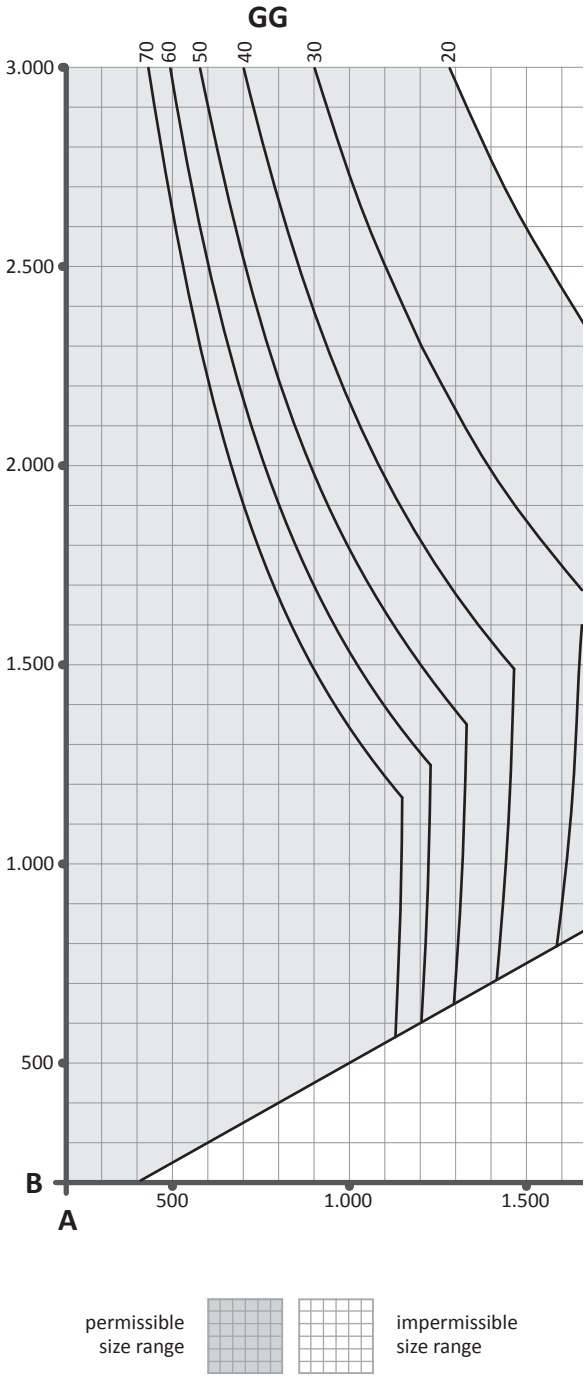
- inward opening elements only
  A = FFH (sash rebate height [mm])
  B = FFB (sash rebate width [mm])
  GG = glass weight [kg/m²]

basis for testing and calculation

- Tilt-turn test according to EN 13126-8:
  - tilt cycles: 10,000
  - turn-only cycles: 10,000
- additional loads taken into account according to EN 14608 (figure A.1)/class 4 according to EN 13115 (800N).

Conditions for the use of the application diagram

- Evidence for fixing structural components onto the window system by a window manufacturer according to TBDK with the following forces:
  - on the top hinge (N): 2,710
  - on the bottom hinge (N): 2,890
- The following values are to be observed with all window systems:
  - max. width/height ratio $Q_{B/H}$: ≤ 2.0
  - glass deduction dimension CG (mm): ≥ 28
  - profile weight PG (kg/m): ≤ 3.25
- Notes on the intended use:
  Basics and use of the application diagrams
  "Download"

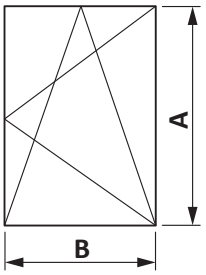


TITAN

application diagram

hinge side: surface-mounted

≤130



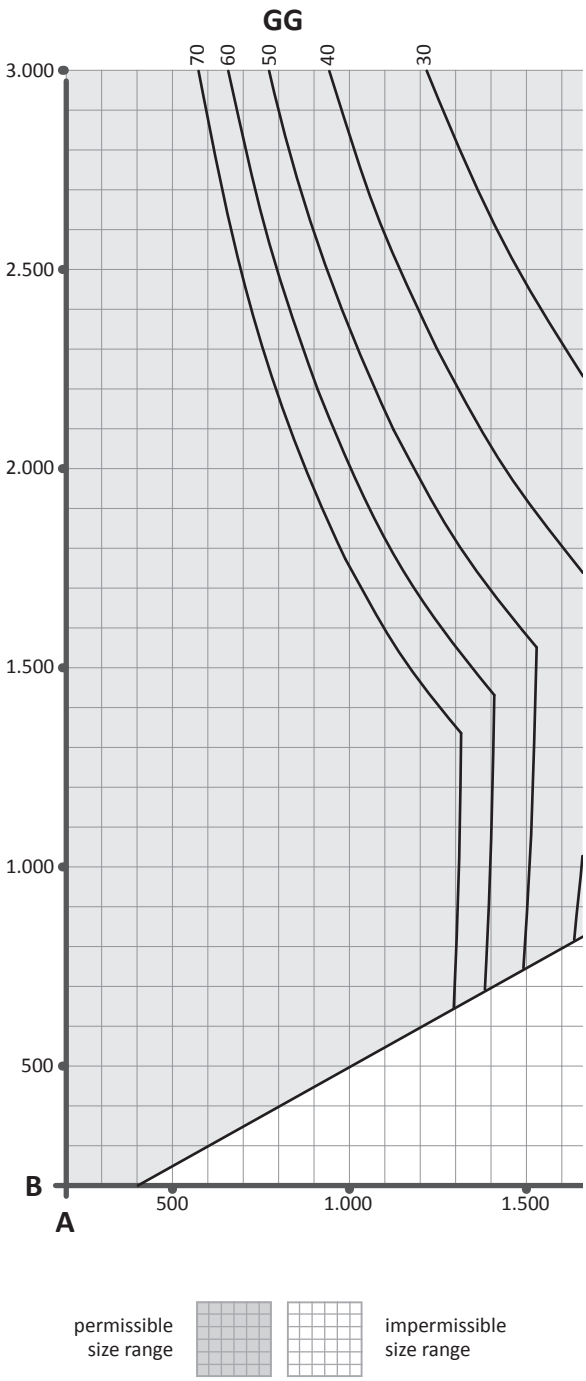
- inward opening elements only
  A = FFH (sash rebate height [mm])
  B = FFB (sash rebate width [mm])
  GG = glass weight [kg/m²]

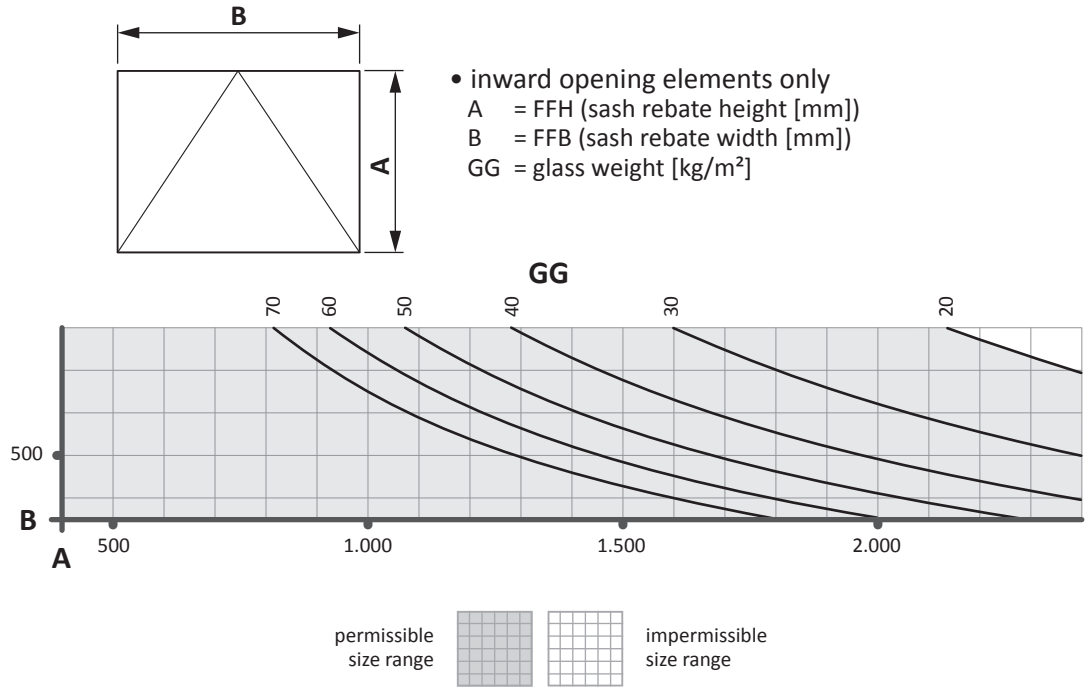
basis for testing and calculation

- Tilt-turn test according to EN 13126-8:
  - tilt cycles: 10,000
  - turn-only cycles: 10,000
- additional loads taken into account according to EN 14608 (figure A.1)/class 4 according to EN 13115 (800N).

Conditions for the use of the application diagram

- Evidence for fixing structural components onto the window system by a window manufacturer according to TBDK with the following forces:
  - on the top hinge (N): 3,525
  - on the bottom hinge (N): 3,760
- The following values are to be observed with all window systems:
  - max. width/height ratio $Q_{B/H}$: ≤ 2.0
  - glass deduction dimension CG (mm): ≥ 28
  - profile weight PG (kg/m): ≤ 3.25
- Notes on the intended use:
  Basics and use of the application diagrams
  "Download"



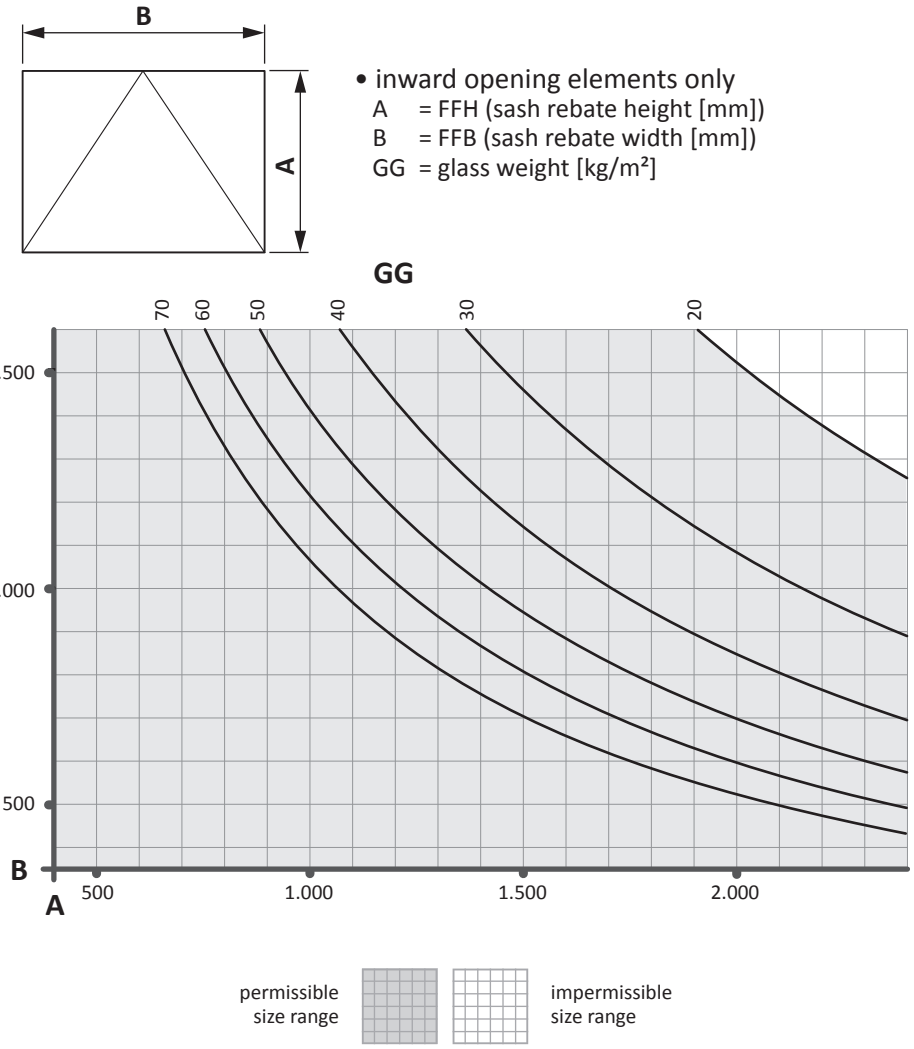


basis for testing and calculation

- tilt test according to RAL-GZ 607/12:
  - tilt cycles: 15,000
- additional loads according to RAL-GZ 607/12

Conditions for the use of the application diagram

- Evidence for fixing structural components onto the window system by a window manufacturer.
- the following values are to be observed with all window systems:
  - glass deduction dimension CG (mm): ≥ 28
  - profile weight PG (kg/m): ≤ 3.25
- Notes on the intended use:
  Basics and use of the application diagrams
  "Download"

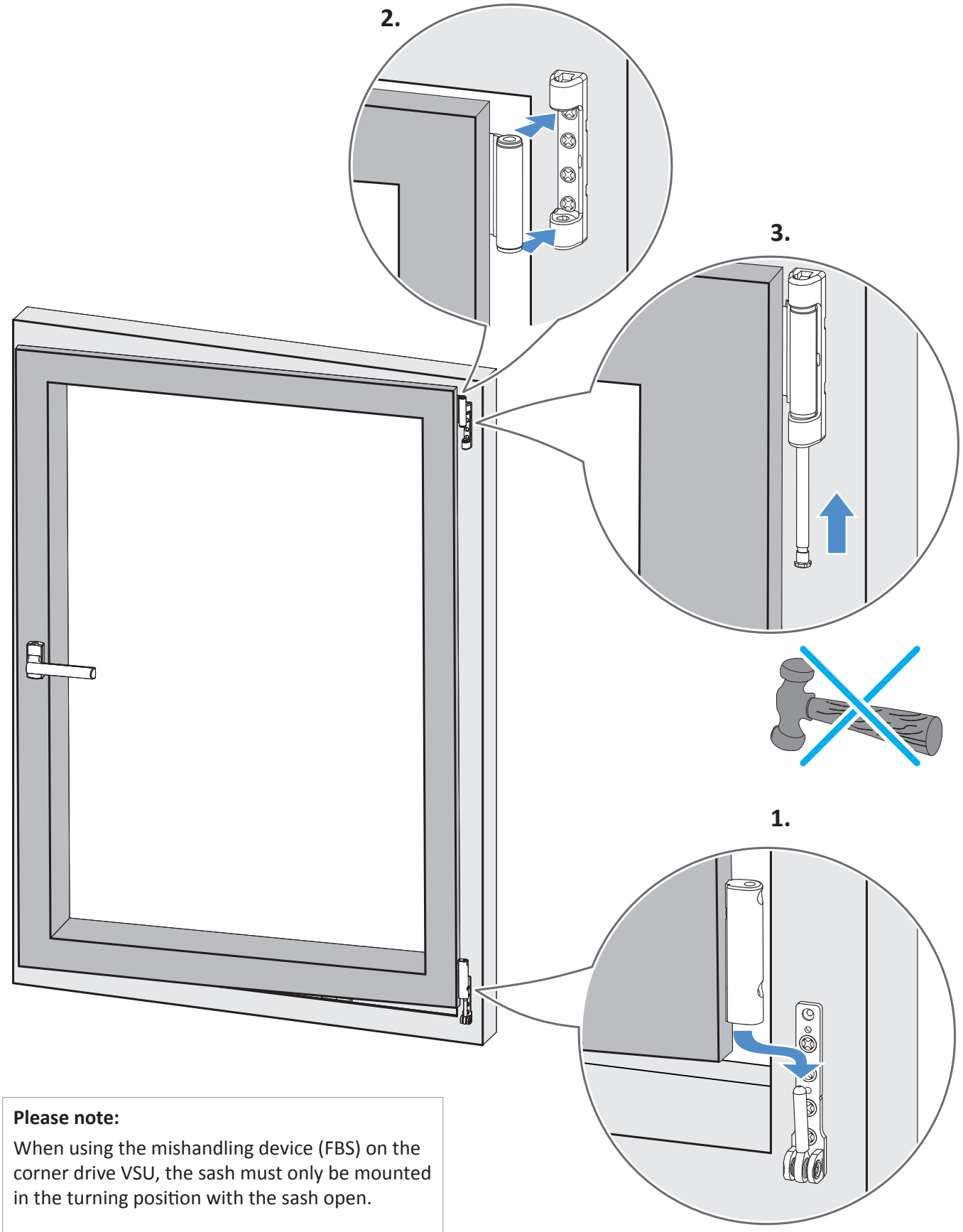


basis for testing and calculation

- tilt test according to RAL-GZ 607/12:
  - tilt cycles: 15,000
- additional loads according to RAL-GZ 607/12

Conditions for the use of the application diagram

- Evidence for fixing structural components onto the window system by a window manufacturer.
- the following values are to be observed with all window systems:
  - glass deduction dimension CG (mm): ≥ 28
  - profile weight PG (kg/m): ≤ 3.25
- Notes on the intended use:
  Basics and use of the application diagrams
  "Download"



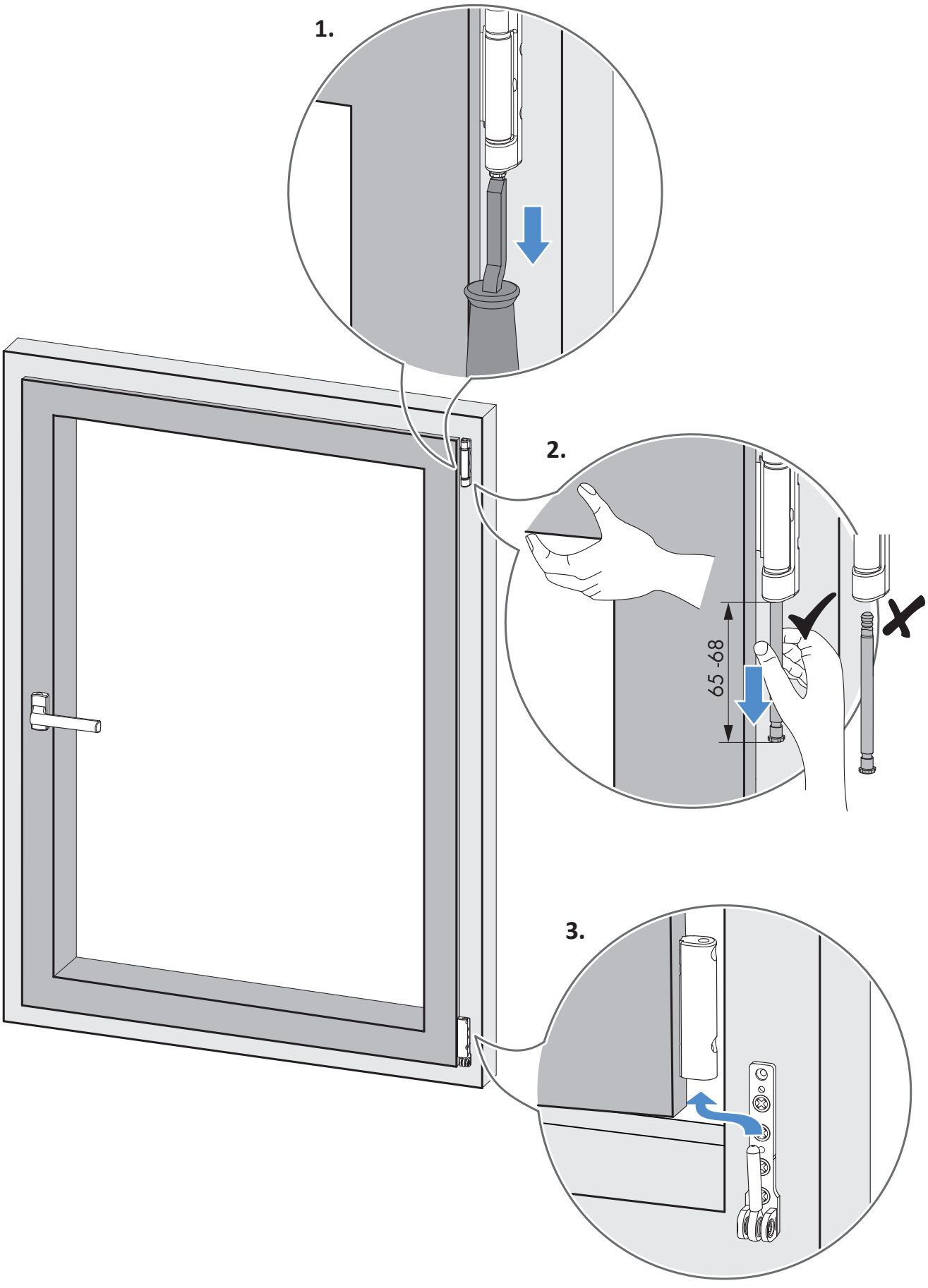
Please note:

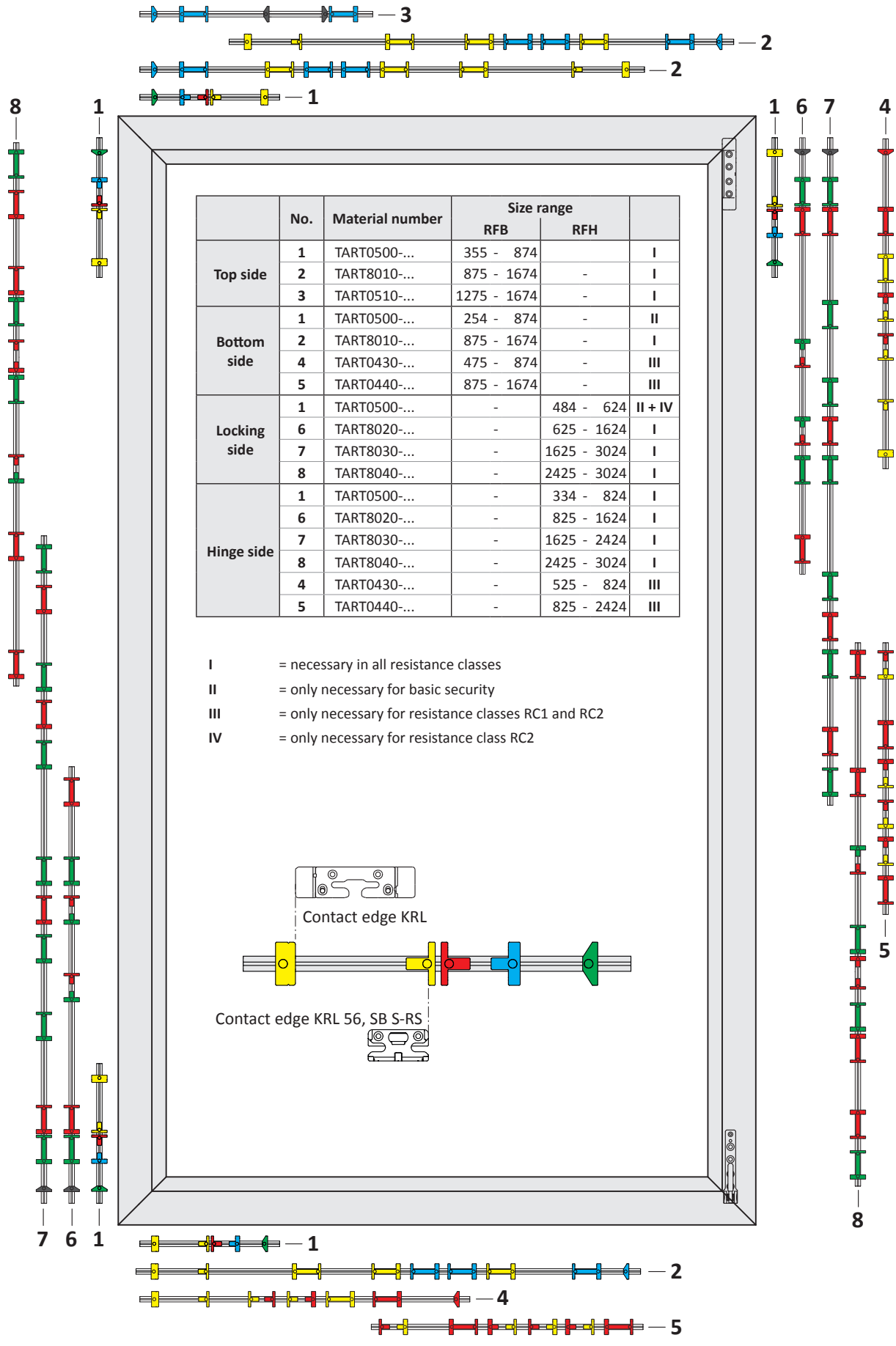
When using the mishandling device (FBS) on the corner drive VSU, the sash must only be mounted in the turning position with the sash open.

Failure to do so may cause damage to the mishandling device or lead to a malfunction.

Removing the sash

Surface-mounted hinge side



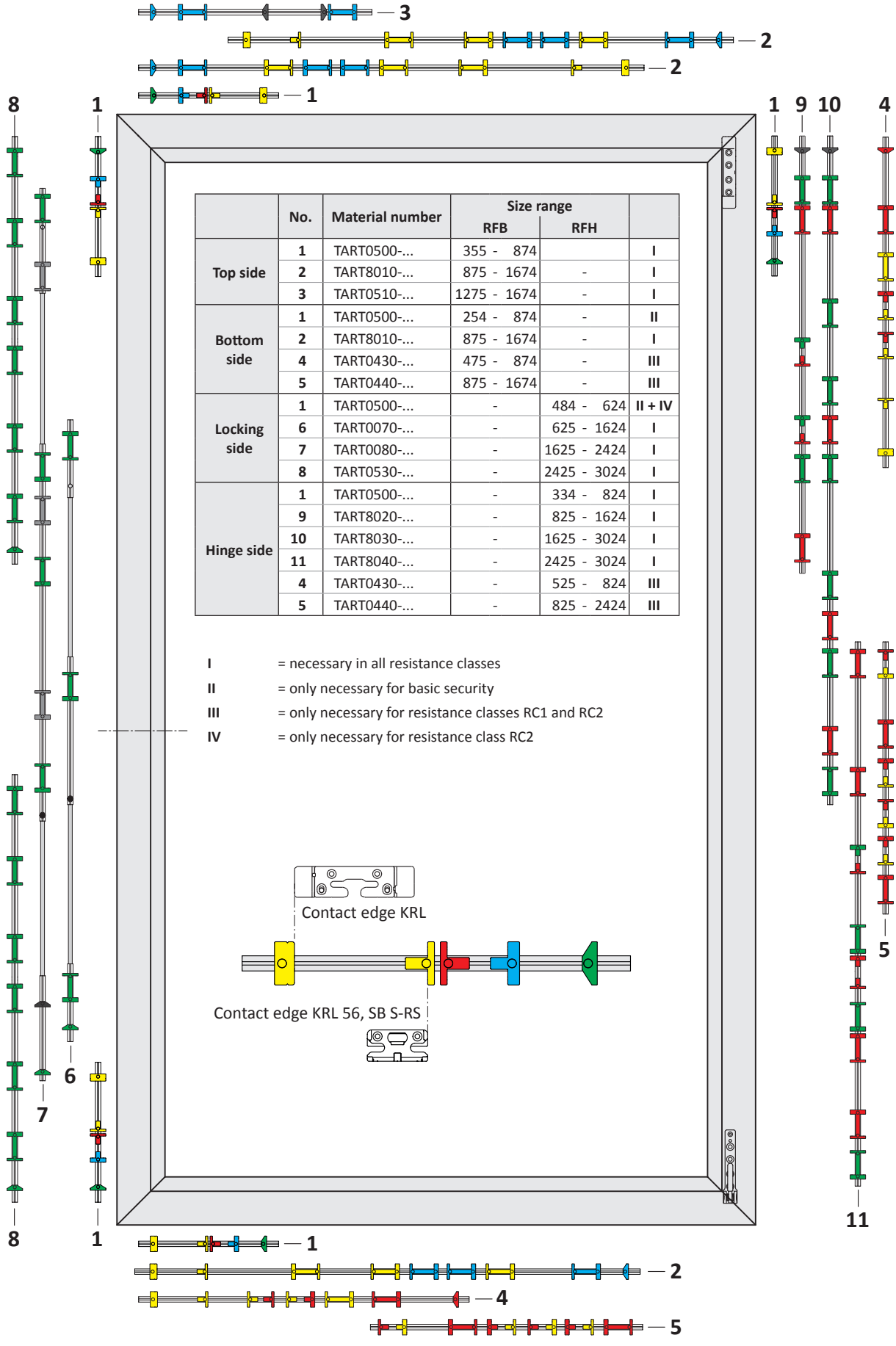


	No.	Material number	Size range RFB	Size range RFH	
Top side	1	TART0500-...	355 - 874		I
	2	TART8010-...	875 - 1674	-	I
	3	TART0510-...	1275 - 1674	-	I
Bottom side	1	TART0500-...	254 - 874	-	II
	2	TART8010-...	875 - 1674	-	I
	4	TART0430-...	475 - 874	-	III
	5	TART0440-...	875 - 1674	-	III
Locking side	1	TART0500-...	-	484 - 624	II + IV
	6	TART8020-...	-	625 - 1624	I
	7	TART8030-...	-	1625 - 3024	I
	8	TART8040-...	-	2425 - 3024	I
Hinge side	1	TART0500-...	-	334 - 824	I
	6	TART8020-...	-	825 - 1624	I
	7	TART8030-...	-	1625 - 2424	I
	8	TART8040-...	-	2425 - 3024	I
	4	TART0430-...	-	525 - 824	III
	5	TART0440-...	-	825 - 2424	III

I = necessary in all resistance classes
II = only necessary for basic security
III = only necessary for resistance classes RC1 and RC2
IV = only necessary for resistance class RC2

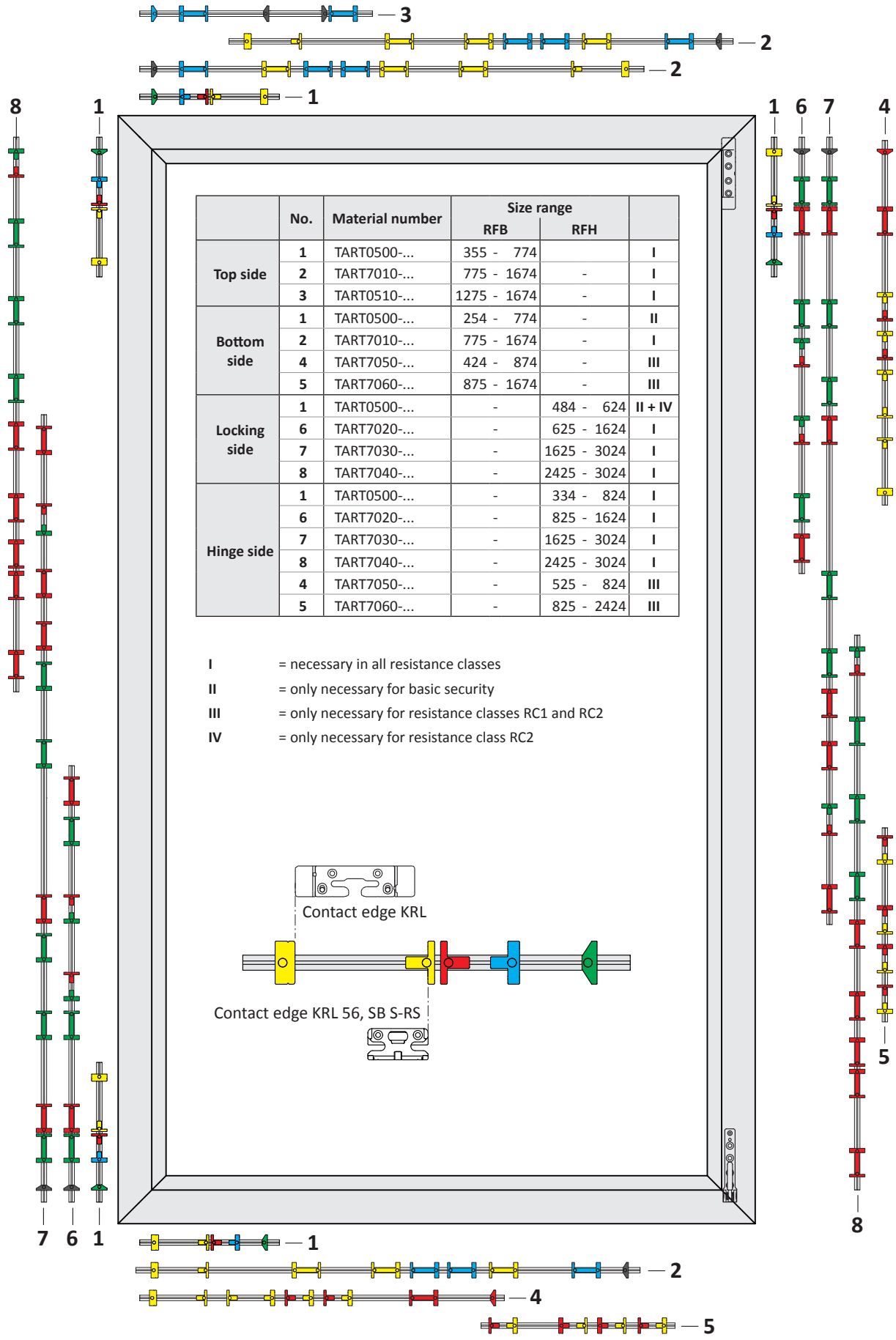
Striker jigs

Locking distance 800 mm
Handle position centre



	No.	Material number	Size range RFB	Size range RFH	
Top side	1	TART0500-...	355 - 874		I
	2	TART8010-...	875 - 1674	-	I
	3	TART0510-...	1275 - 1674	-	I
Bottom side	1	TART0500-...	254 - 874	-	II
	2	TART8010-...	875 - 1674	-	I
	4	TART0430-...	475 - 874	-	III
	5	TART0440-...	875 - 1674	-	III
Locking side	1	TART0500-...	-	484 - 624	II + IV
	6	TART0070-...	-	625 - 1624	I
	7	TART0080-...	-	1625 - 2424	I
	8	TART0530-...	-	2425 - 3024	I
Hinge side	1	TART0500-...	-	334 - 824	I
	9	TART8020-...	-	825 - 1624	I
	10	TART8030-...	-	1625 - 3024	I
	11	TART8040-...	-	2425 - 3024	I
	4	TART0430-...	-	525 - 824	III
	5	TART0440-...	-	825 - 2424	III

I = necessary in all resistance classes
II = only necessary for basic security
III = only necessary for resistance classes RC1 and RC2
IV = only necessary for resistance class RC2

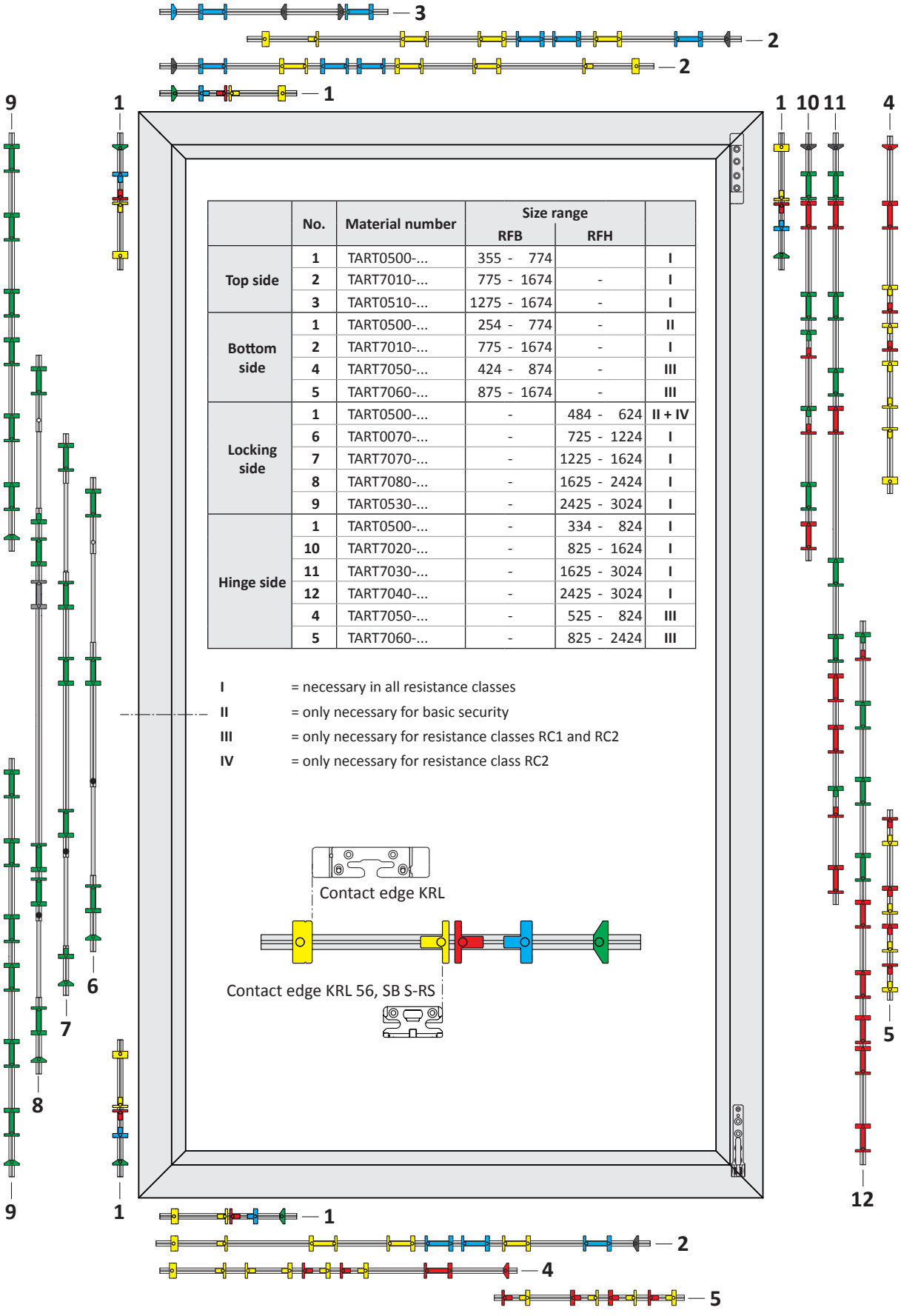


	No.	Material number	Size range RFB	Size range RFH	
Top side	1	TART0500-...	355 - 774		I
	2	TART7010-...	775 - 1674	-	I
	3	TART0510-...	1275 - 1674	-	I
Bottom side	1	TART0500-...	254 - 774	-	II
	2	TART7010-...	775 - 1674	-	I
	4	TART7050-...	424 - 874	-	III
	5	TART7060-...	875 - 1674	-	III
Locking side	1	TART0500-...	-	484 - 624	II + IV
	6	TART7020-...	-	625 - 1624	I
	7	TART7030-...	-	1625 - 3024	I
	8	TART7040-...	-	2425 - 3024	I
Hinge side	1	TART0500-...	-	334 - 824	I
	6	TART7020-...	-	825 - 1624	I
	7	TART7030-...	-	1625 - 3024	I
	8	TART7040-...	-	2425 - 3024	I
	4	TART7050-...	-	525 - 824	III
	5	TART7060-...	-	825 - 2424	III

I = necessary in all resistance classes
II = only necessary for basic security
III = only necessary for resistance classes RC1 and RC2
IV = only necessary for resistance class RC2

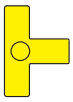
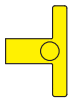
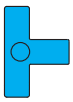
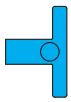
Striker jigs

Locking distance 700 mm
Handle position centre



	No.	Material number	Size range RFB	Size range RFH	
Top side	1	TART0500-...	355 - 774		I
	2	TART7010-...	775 - 1674	-	I
	3	TART0510-...	1275 - 1674	-	I
Bottom side	1	TART0500-...	254 - 774	-	II
	2	TART7010-...	775 - 1674	-	I
	4	TART7050-...	424 - 874	-	III
	5	TART7060-...	875 - 1674	-	III
Locking side	1	TART0500-...	-	484 - 624	II + IV
	6	TART0070-...	-	725 - 1224	I
	7	TART7070-...	-	1225 - 1624	I
	8	TART7080-...	-	1625 - 2424	I
	9	TART0530-...	-	2425 - 3024	I
Hinge side	1	TART0500-...	-	334 - 824	I
	10	TART7020-...	-	825 - 1624	I
	11	TART7030-...	-	1625 - 3024	I
	12	TART7040-...	-	2425 - 3024	I
	4	TART7050-...	-	525 - 824	III
	5	TART7060-...	-	825 - 2424	III

I = necessary in all resistance classes
II = only necessary for basic security
III = only necessary for resistance classes RC1 and RC2
IV = only necessary for resistance class RC2

Striker packer 56	Striker packer SB	Distance piece	Striker packer short	Stop
 335191-106				
 335191-101	 321848-201	 340836-101	 330928-201	 301918-101
 335191-102	 321848-202		 330928-202	 301918-102
 335191-103	 321848-203		 330928-203	 301918-103
 335191-104	 321848-204		 330928-204	 301918-104
				 301918-105

Striker packer KRL FH



301604-102

The striker packers and stops are fixed using conventional screws:
fillister head self tapping screws ISO 7049-4.2 x 9.5

Bottom: Inliner

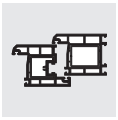
1-sash square tilt-turn	H48.TAFKFK0S001EN	2 - 3
2-sash square tilt-turn/turn DS 16 with DF-stay	H48.TAFKFK0S002EN	2 - 9
2-sash square tilt-turn/turn DS 16 with DK-stay	H48.TAFKFK0S042EN	2 - 17
2-sash square tilt-turn/turn DS BAN	H48.TAFKFK0S025EN	2 - 25
2-sash square tilt-turn/turn DS 16 bolt	H48.TAFKFK0S026EN	2 - 33
2-sash square tilt-turn/turn DS 16 shoot bolt	H48.TAFKFK0S027EN	2 - 41
3-sash centre sash second opening turn	H48.TAFKFK0S023EN	2 - 49
Tilt before turn (TBT)		
1-sash square tilt before turn (TBT)	H48.TAFKFK0S005EN	2 - 53
Turn only sash		
1-sash square turn	H48.TAFKFK0S012EN	2 - 59
1-sash square turn with gear DF	H48.TAFKFK0S032EN	2 - 63
Locking-points distance 700		
1-sash square tilt-turn	H48.TAFKFK0S301EN	2 - 67
2-sash square tilt-turn/turn DS 16 with DF-stay	H48.TAFKFK0S302EN	2 - 73
2-sash square tilt-turn/turn DS 16 with DK-stay	H48.TAFKFK0S304EN	2 - 81

Bottom: Double cam SB R-RS

1-sash square tilt-turn	H48.TAFKFK0S401EN	2 - 89
2-sash square tilt-turn/turn DS 16 with DF-stay	H48.TAFKFK0S402EN	2 - 95
2-sash square tilt-turn/turn DS 16 with DK-stay	H48.TAFKFK0S403EN	2 - 103
3-sash centre sash second opening turn	H48.TAFKFK0S410EN	2 - 111
Turn only sash		
1-sash square turn	H48.TAFKFK0S404EN	2 - 115
Locking-points distance 700		
1-sash square tilt-turn	H48.TAFKFK0S308EN	2 - 119
2-sash square tilt-turn/turn DS 16 with DF-stay	H48.TAFKFK0S309EN	2 - 125
2-sash square tilt-turn/turn DS 16 with DK-stay	H48.TAFKFK0S310EN	2 - 133

TITAN AF

Installation instructions

GS

1-sash square tilt-turn

PVC

basic security

fixed handle position

Hinge side TITAN

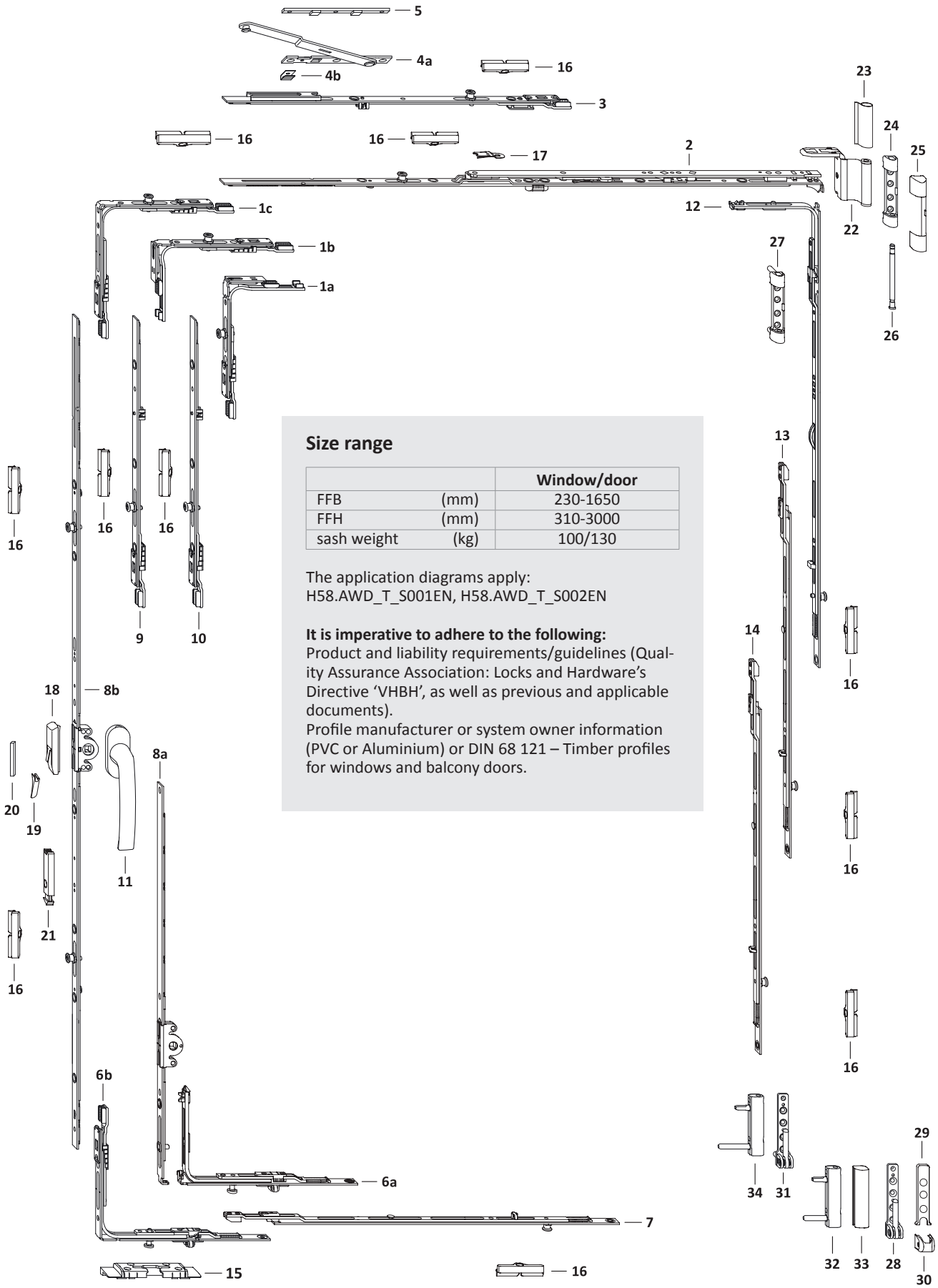
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GK Hinge side TITAN



Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

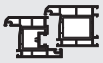
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							15	16
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230– 330	411–3000			1
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	331– 850	310– 410			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331–1650	411–3000			1
2	stay AF sz 0	TSKK2000- ...	1	230– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	230–1250	411– 600		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		331– 850	310– 410		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230–1650	601–3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
8a	gear 15 sz 30/G180	TGKK3010- ...	1	331– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		230–1250	411– 600	180		
8b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		2
9	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			1
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
10	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
11	handle Globe	Ref.access. ZHGS	1		310–3000			
12	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
15	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
16	striker plate S 56	Ref. PDB, TRSM						
on request								
17	tilt restrictor ..	TFKB0010- ...	1		310– 800			
18	mishandling device	TFBS0010- ...	1					
19	pressure piece	Ref. PDB, TFFD	1					
20	stop	Ref. PDB, FRZF01	1					
21	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

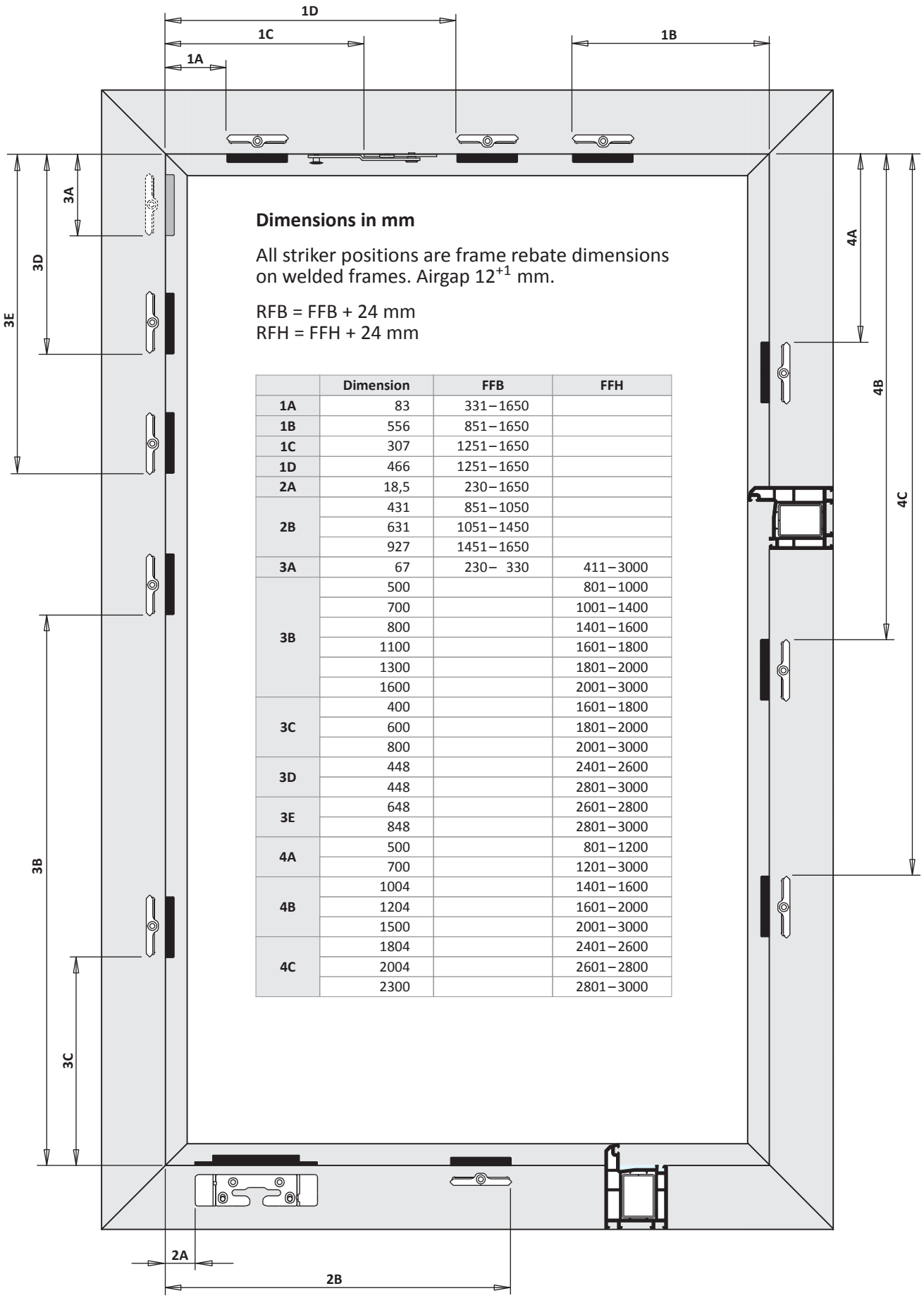
List of fittings

1-sash square tilt-turn
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
22	stay hinge DH	Ref. PDB, TBWB61			1	1
23	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
24	top hinge 100kg	Ref. PDB, TBSL61			1	
25	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
26	top hinge pin Poly	TBSB6020-1 ...			1	1
27	top hinge 130kg	Ref. PDB, TBSL62				1
28	bottom hinge 100kg	Ref. PDB, TBEL01			1	
29	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
30	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
31	bottom hinge 130kg	Ref. PDB, TBEL02				1
32	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
33	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
34	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

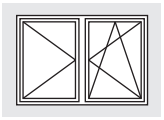
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	230–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	230– 330	411–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

fixed handle position

Hinge side TITAN

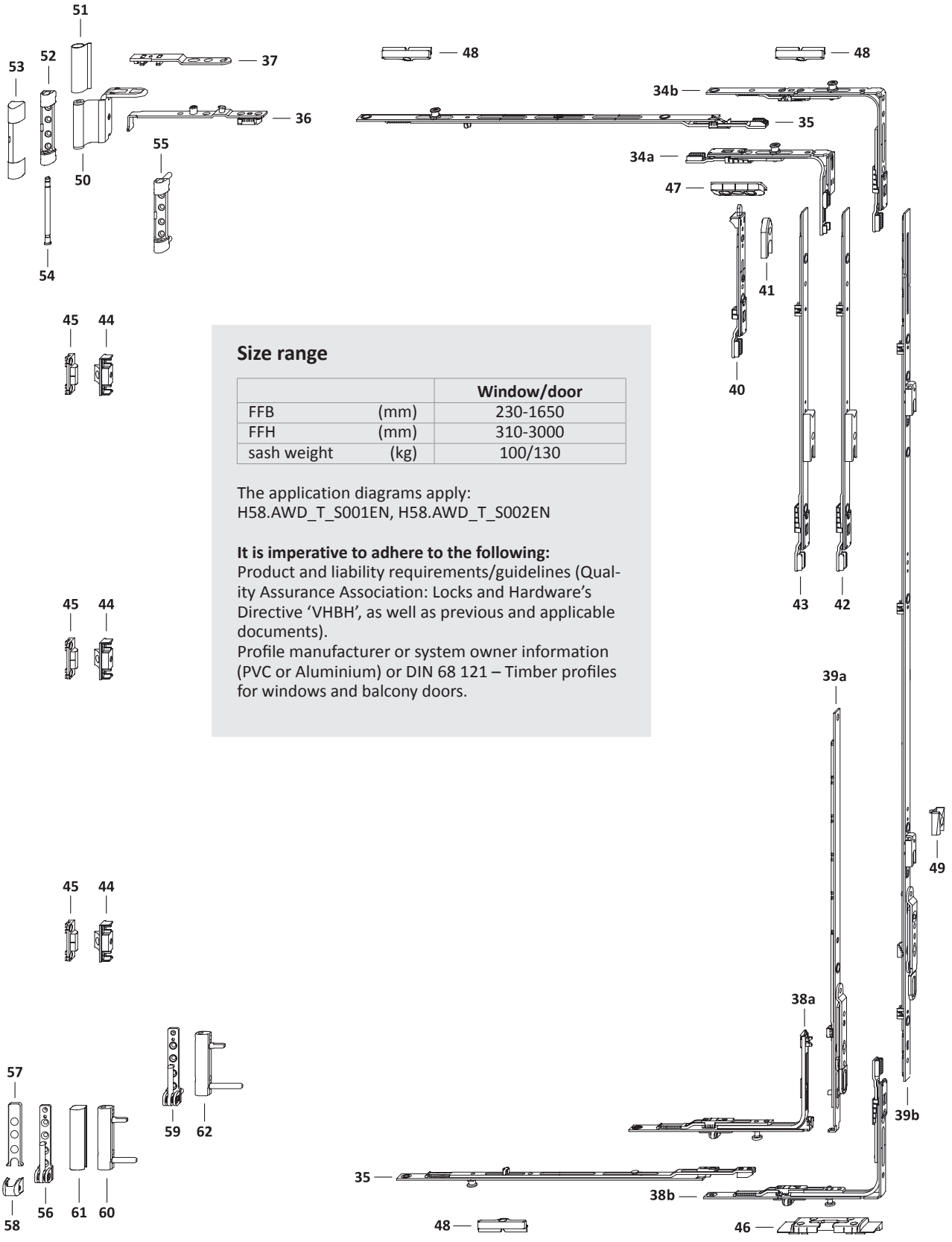
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

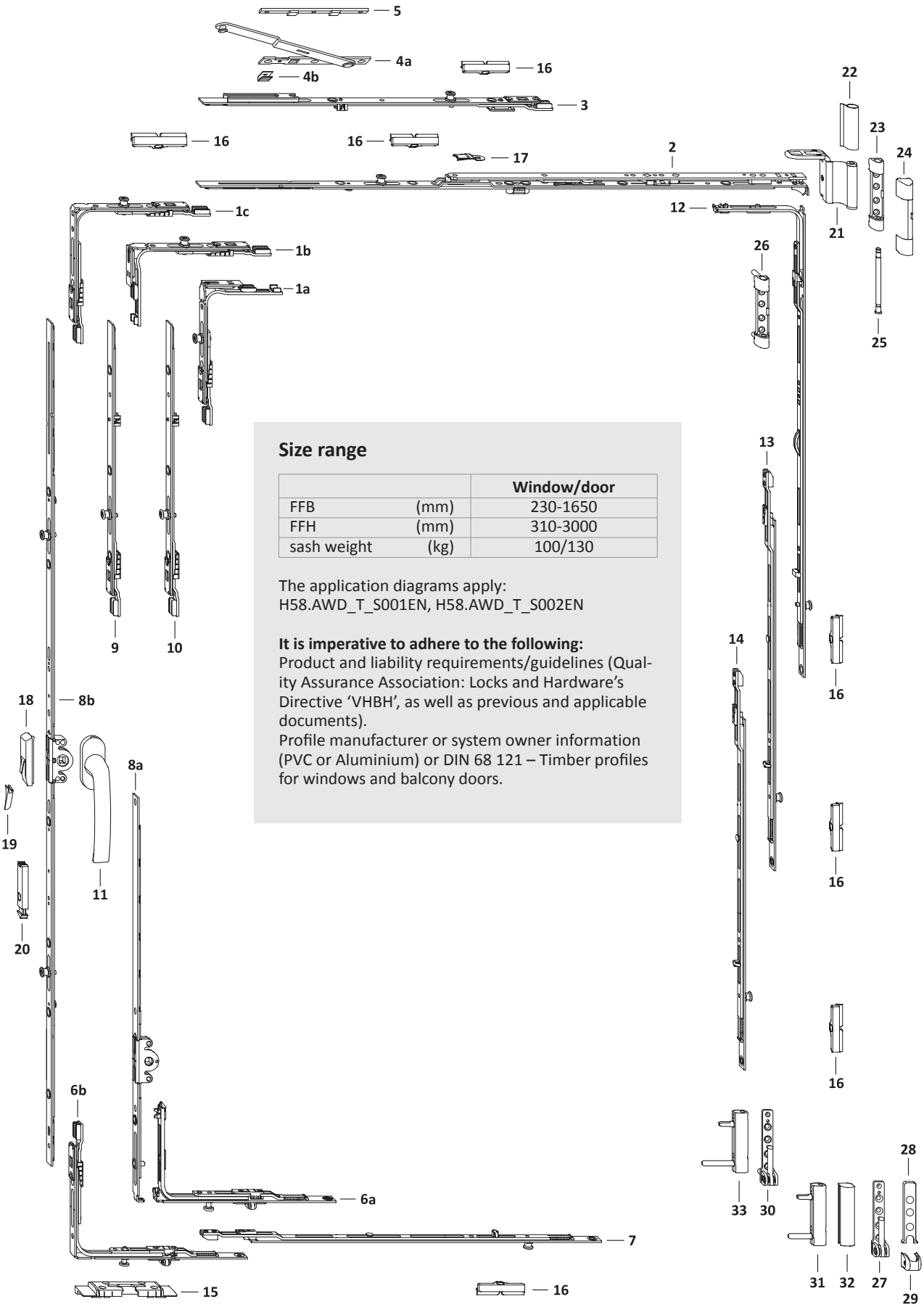


Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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Size range

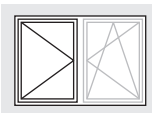
		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

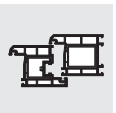
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

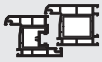
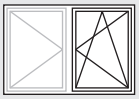
2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	46	47	48
34a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371– 850	310– 410				1
34b	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	371–1650	411–3000				1
35	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					2
36	stay sash part DF/MN	TSSD0020- ...	1	230–1650					
37	stay arm DF	TSAD0010- ...	1	230–1650					
38a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	230–1650	411– 800		1		
	locking part VSU/K FH+ 1S	TEVR1400- ...		371– 850	310– 410		1		
38b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230–1650	801–3000		1		
39a	sec.sash gear 16 sz 30	TGKS0010- ...	1	371– 850	310– 410	180			
	sec.sash gear 16 sz 30	TGKS0010- ...		230–1250	411– 600	180			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300			
39b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400			
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500			
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600			
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700			
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700			
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000			
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000			
40	locking bolt AF VSO RSA 11	TESC2030- ...	1	230– 370	411–3000			1	
41	striker plate A0767	TRSA0010- ...	1	230– 370	411–3000				
42	linkage AF sz 1	TZZS0150- ...	1		2201–2400				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600				
	linkage AF sz 1	TZZS0150- ...			2601–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
43	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
44	sash part MV	Ref. PDB, ZFMV01	1		801–1600				
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400				
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000				
45	frame part MV	Ref. PDB, ZRZM01	1		801–1600				
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400				
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000				
46	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
47	striker V	Ref. PDB, FRZV01							
48	striker plate S 56	Ref. PDB, TRSM							
on request									
49	striker snapper AF A0767	TRST0100- ...	1		1801–3000				

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
50	stay hinge DH	Ref. PDB, TBWB61			1	1
51	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
52	top hinge 100kg	Ref. PDB, TBSL61			1	
53	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
54	top hinge pin Poly	TBSB6020-1 ...			1	1
55	top hinge 130kg	Ref. PDB, TBSL62				1
56	bottom hinge 100kg	Ref. PDB, TBEL01			1	
57	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
58	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
59	bottom hinge 130kg	Ref. PDB, TBEL02				1
60	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
61	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
62	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

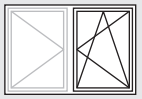
TITAN AF

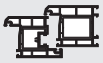
GS

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							15	16
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230– 330	411–3000			
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371– 850	310– 410			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331–1650	411–3000			1
2	stay AF sz 0	TSKK2000- ...	1	230– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	230–1250	411– 600		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		371– 850	310– 410		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230–1650	601–3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
8a	gear 15 sz 30/G180	TGKK3010- ...	1	371– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		230–1250	411– 600	180		
8b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		
9	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
10	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
11	handle Globe	Ref.access. ZHGS	1		310–3000			
12	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
15	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
16	striker plate S 56	Ref. PDB, TRSM						
on request								
17	tilt restrictor ..	TFKB0010- ...	1		310– 800			
18	mishandling device	TFBS0010- ...	1		601–3000			
19	pressure piece	Ref. PDB, TFFD	1		601–3000			
20	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

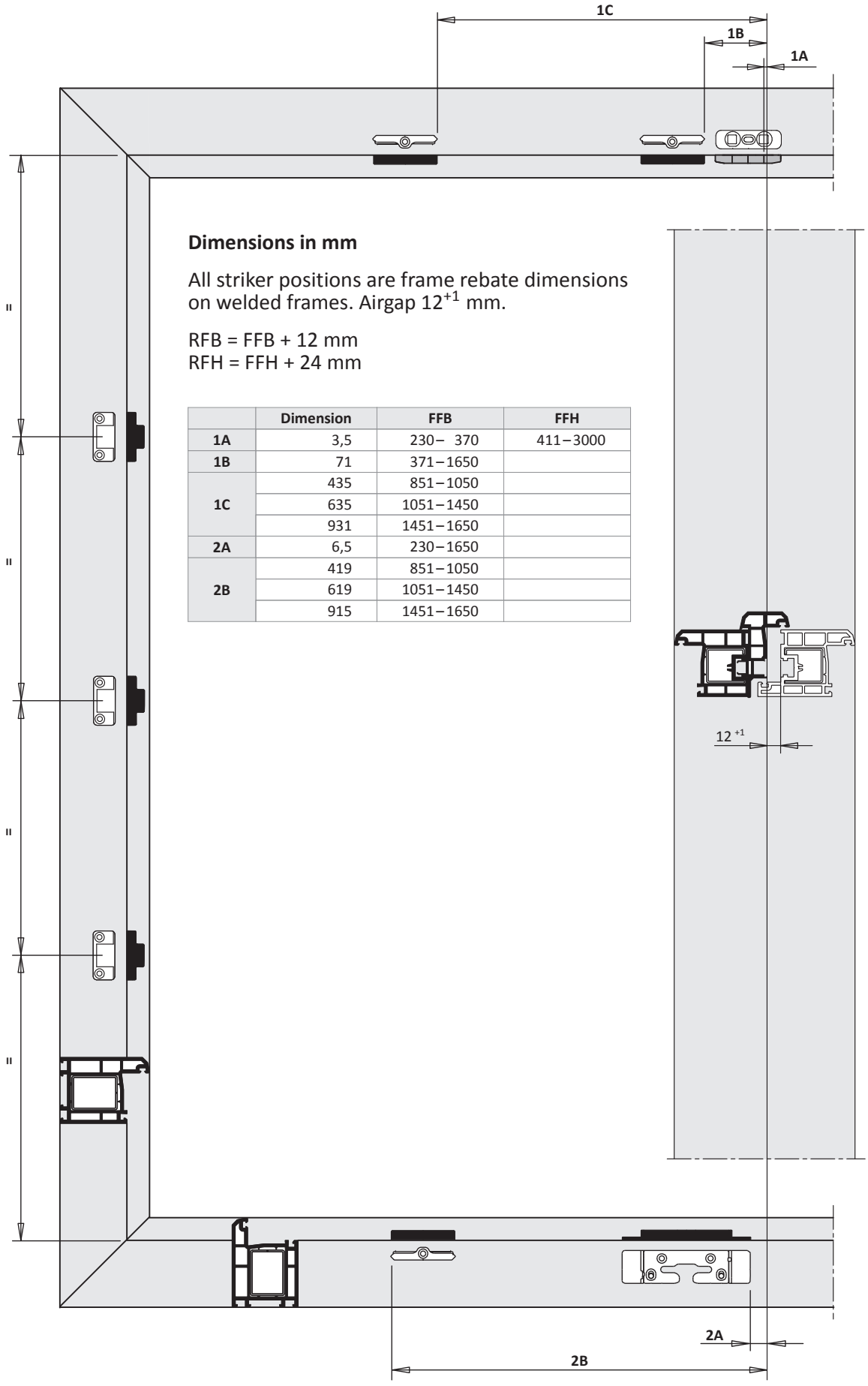
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
21	stay hinge DH	Ref. PDB, TBWB61			1	1
22	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
23	top hinge 100kg	Ref. PDB, TBSL61			1	
24	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
25	top hinge pin Poly	TBSB6020-1 ...			1	1
26	top hinge 130kg	Ref. PDB, TBSL62				1
27	bottom hinge 100kg	Ref. PDB, TBEL01			1	
28	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
29	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
30	bottom hinge 130kg	Ref. PDB, TBEL02				1
31	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
32	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
33	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

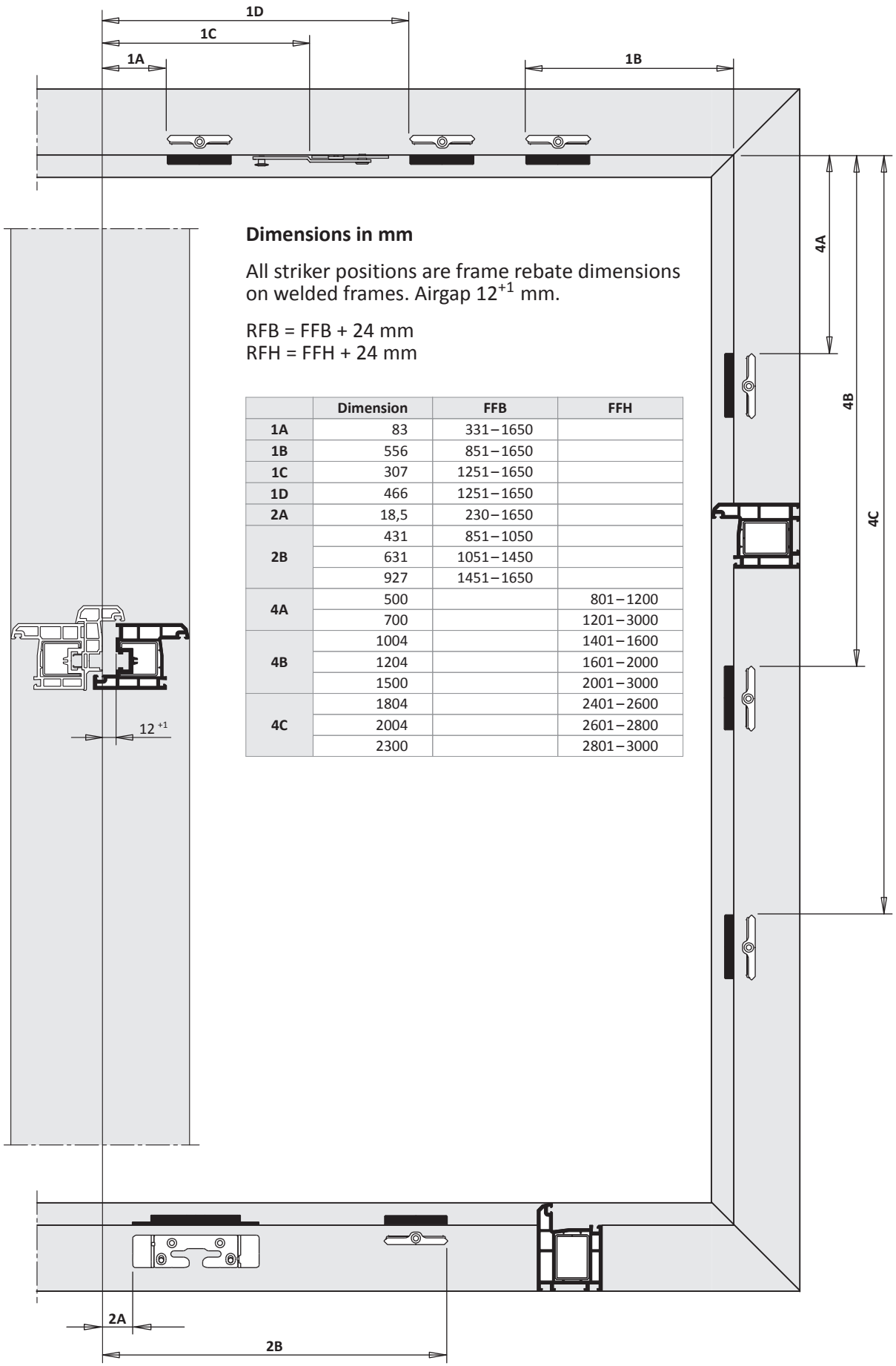
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	230– 370	411–3000
1B	71	371–1650	
1C	435	851–1050	
	635	1051–1450	
	931	1451–1650	
2A	6,5	230–1650	
2B	419	851–1050	
	619	1051–1450	
	915	1451–1650	

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



Dimensions in mm

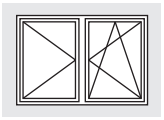
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	230–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

fixed handle position

Hinge side TITAN

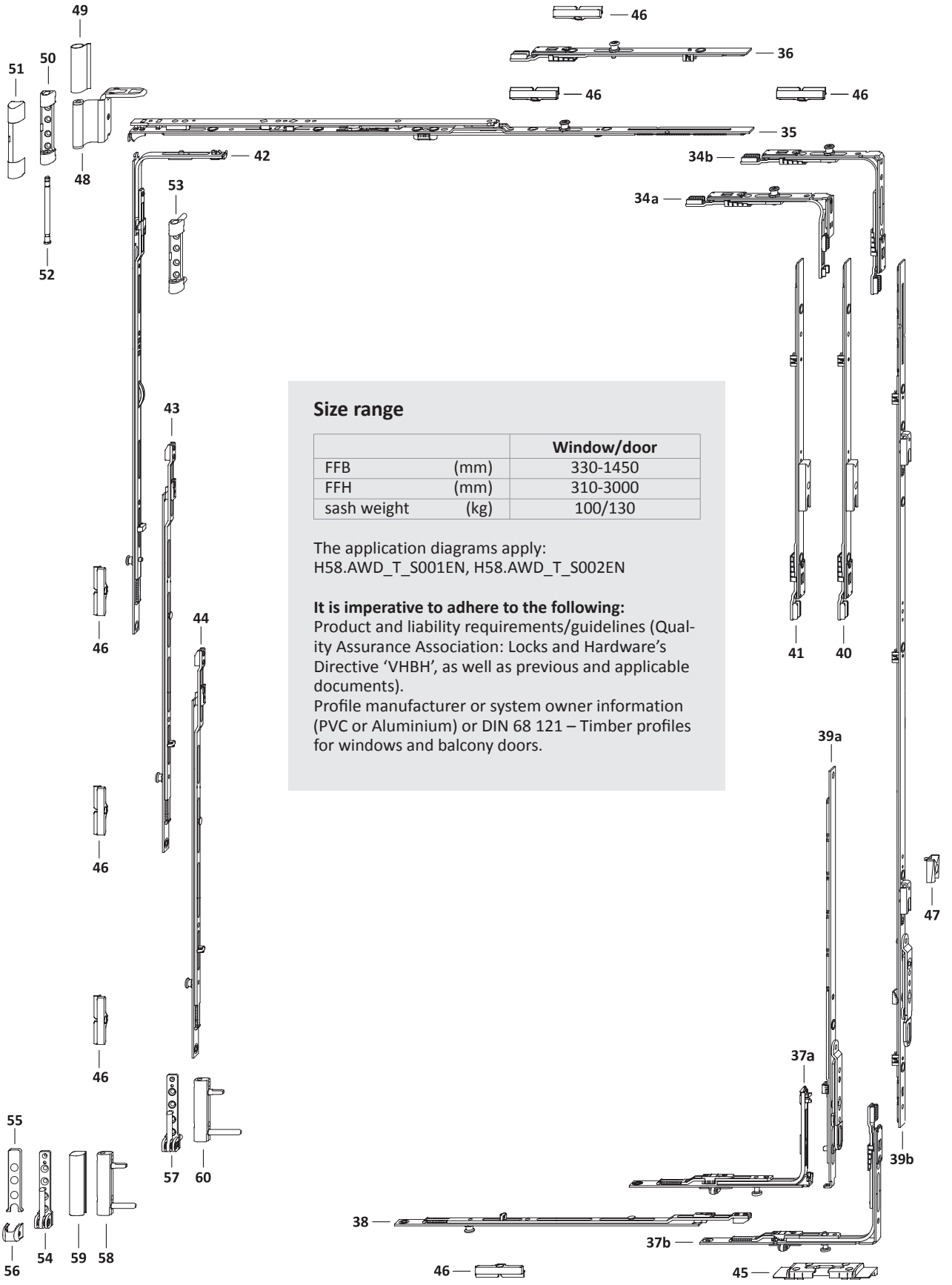
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800; secondary sash with DK-stay
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

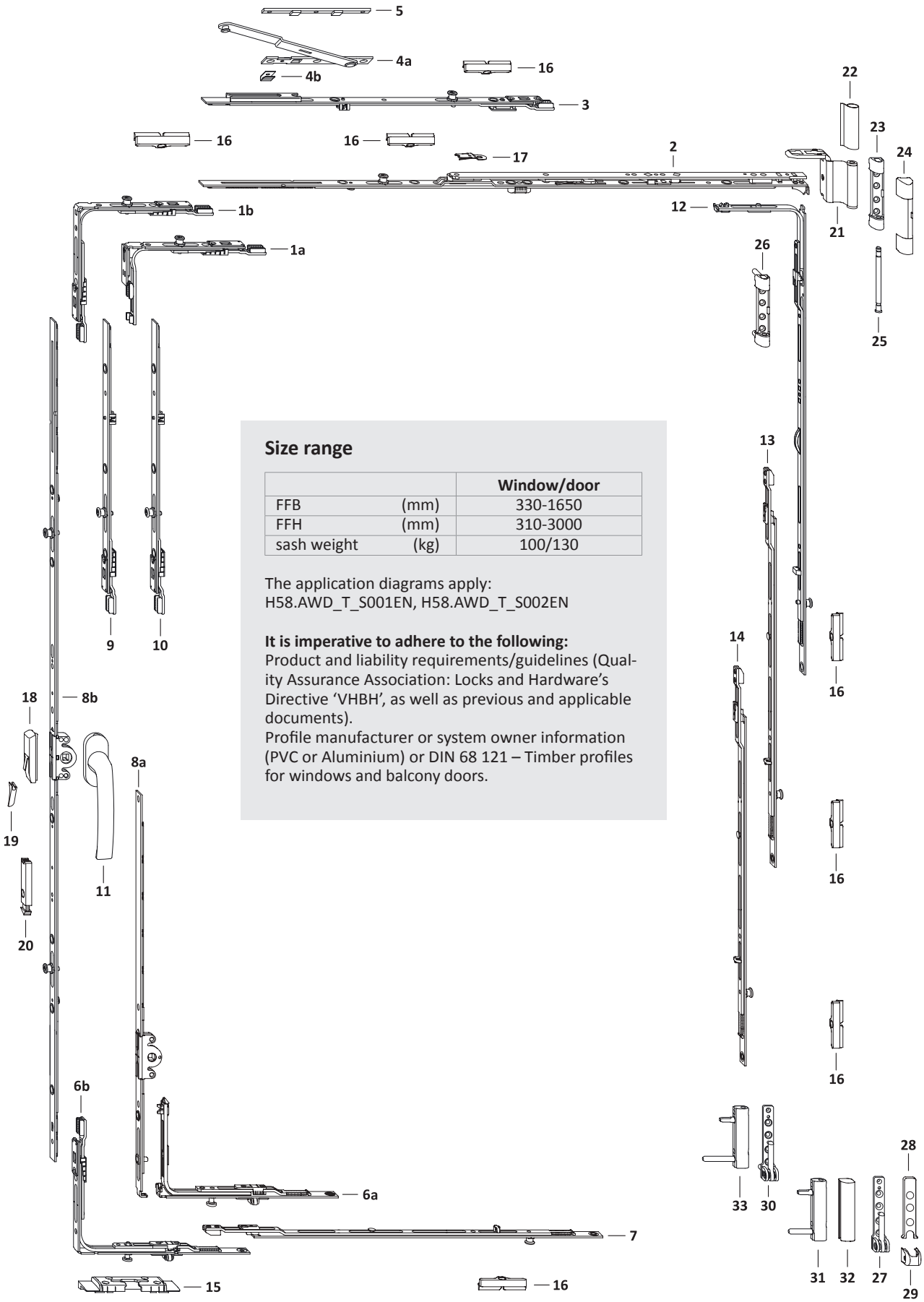


Size range

		Window/door
FFB	(mm)	330-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

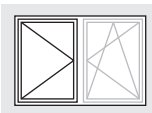
		Window/door
FFB	(mm)	330-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

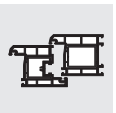
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
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List of fittings slave sash

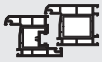
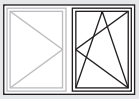
2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	45	46
34a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	330– 850	310– 410			1
34b	corn.drive VSO 1RS	TEUL4010- ...	1	330–1450	411–3000			1
35	stay AF sz 0	TSKK2000- ...	1	330– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1
36	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
37a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	330–1450	411– 800		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		330– 850	310– 410		1	
37b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	330–1450	801–3000		1	
38	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
39a	sec.sash gear 16 sz 30	TGKS0010- ...	1	330– 850	310– 410	180		
	sec.sash gear 16 sz 30	TGKS0010- ...		330–1250	411– 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300		
39b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600		
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000		
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000		
40	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
41	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
42	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
45	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
46	striker plate S 56	Ref. PDB, TRSM						
on request								
47	striker snapper AF A0767	TRST0100- ...	1		1801–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
48	stay hinge DH	Ref. PDB, TBWB61			1	1
49	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
50	top hinge 100kg	Ref. PDB, TBSL61			1	
51	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
52	top hinge pin Poly	TBSB6020-1 ...			1	1
53	top hinge 130kg	Ref. PDB, TBSL62				1
54	bottom hinge 100kg	Ref. PDB, TBEL01			1	
55	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
56	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
57	bottom hinge 130kg	Ref. PDB, TBEL02				1
58	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
59	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
60	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

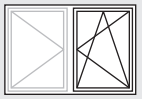
TITAN AF

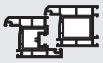
GS

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							15	16
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	330– 850	310– 410			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	330–1650	411–3000			1
2	stay AF sz 0	TSKK2000- ...	1	330– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	330–1250	411– 600		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		330– 850	310– 410		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	330–1650	601–3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
8a	gear 15 sz 30/G180	TGKK3010- ...	1	330– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		330–1250	411– 600	180		
8b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		
9	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
10	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
11	handle Globe	Ref.access. ZHGS	1		310–3000			
12	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
15	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
16	striker plate S 56	Ref. PDB, TRSM						
on request								
17	tilt restrictor ..	TFKB0010- ...	1		310– 800			
18	mishandling device	TFBS0010- ...	1		601–3000			
19	pressure piece	Ref. PDB, TFFD	1		601–3000			
20	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

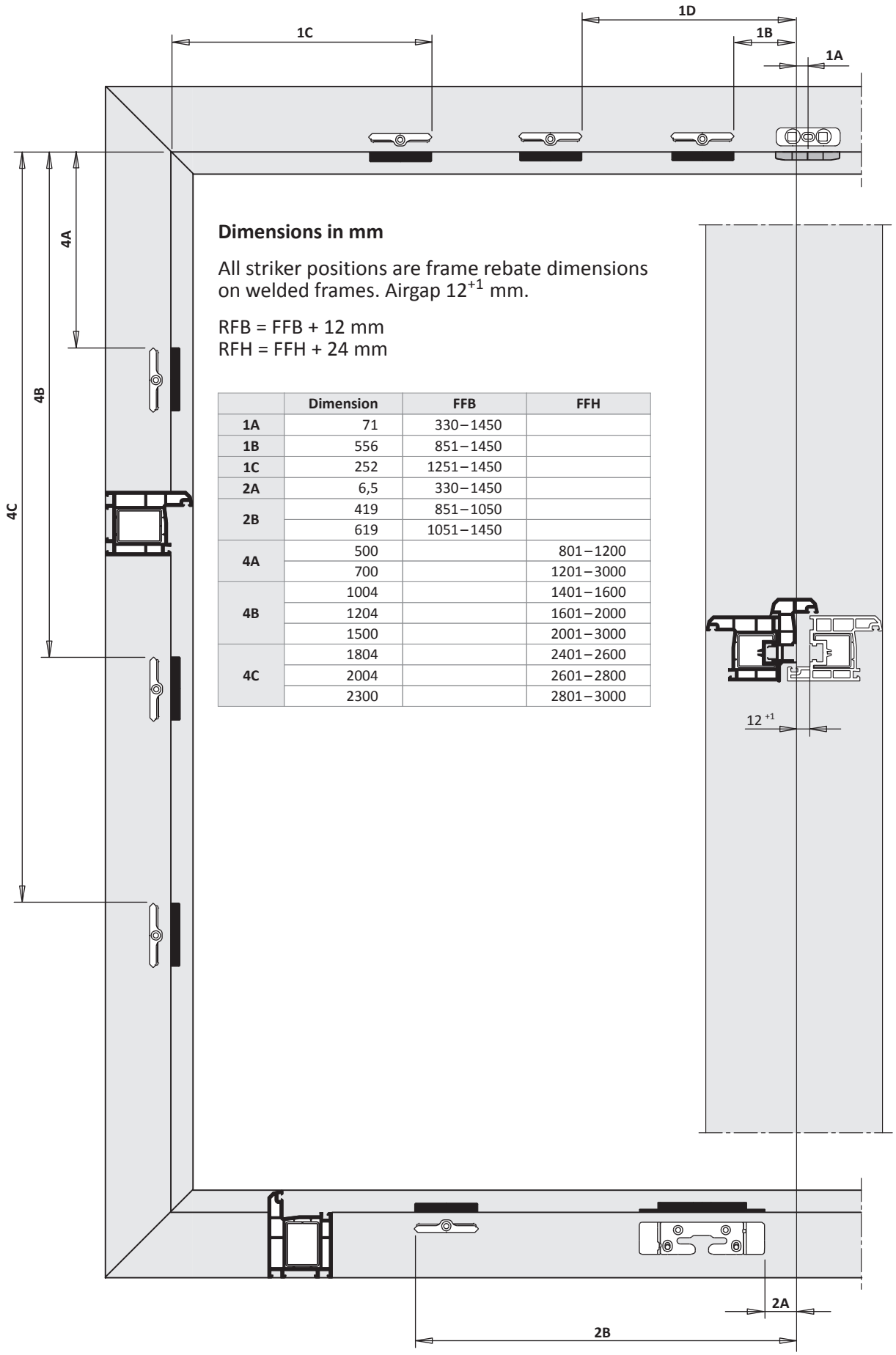
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
21	stay hinge DH	Ref. PDB, TBWB61			1	1
22	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
23	top hinge 100kg	Ref. PDB, TBSL61			1	
24	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
25	top hinge pin Poly	TBSB6020-1 ...			1	1
26	top hinge 130kg	Ref. PDB, TBSL62				1
27	bottom hinge 100kg	Ref. PDB, TBEL01			1	
28	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
29	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
30	bottom hinge 130kg	Ref. PDB, TBEL02				1
31	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
32	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
33	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

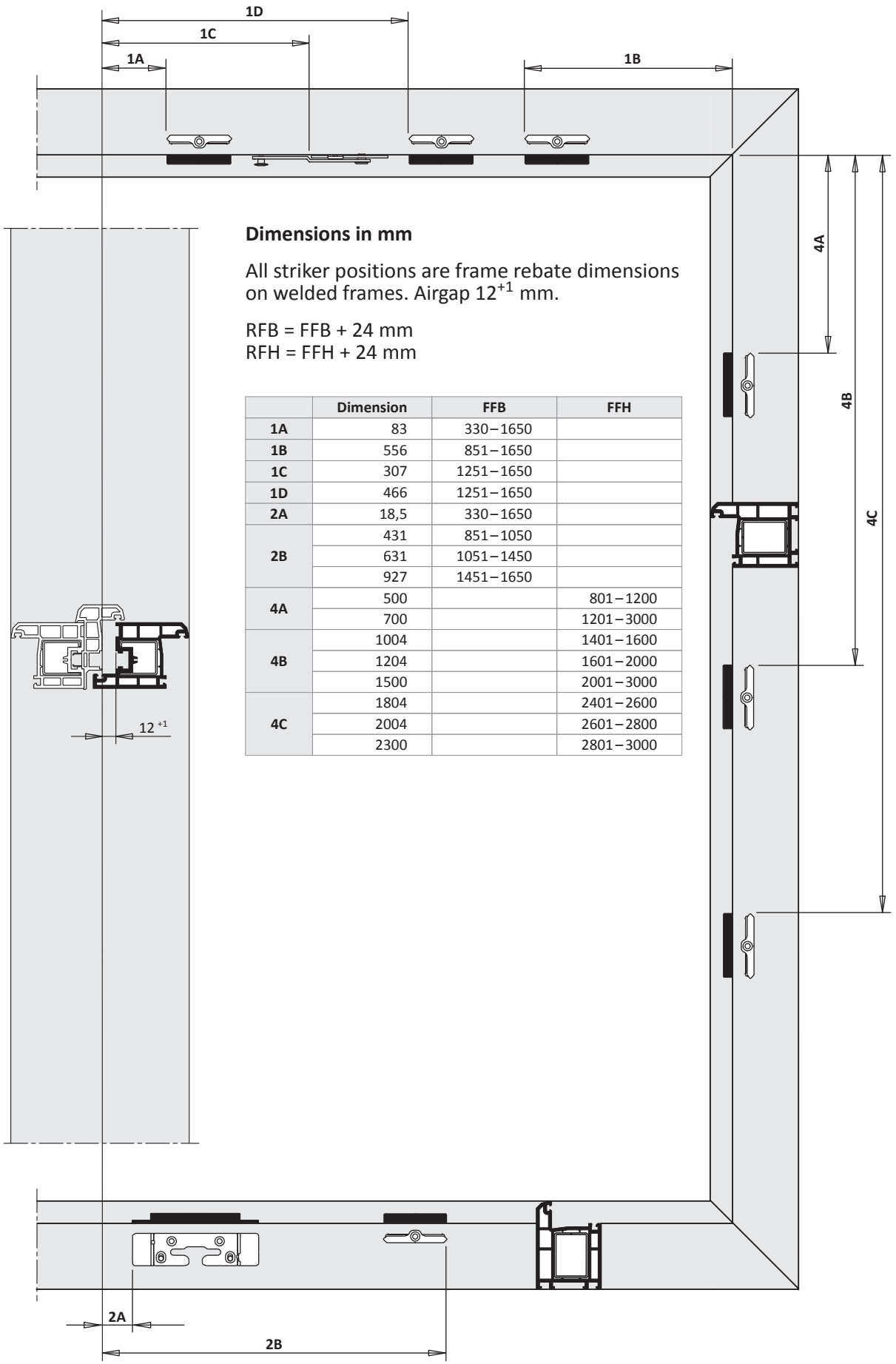
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	330 – 1450	
1B	556	851 – 1450	
1C	252	1251 – 1450	
2A	6,5	330 – 1450	
2B	419	851 – 1050	
	619	1051 – 1450	
4A	500		801 – 1200
	700		1201 – 3000
4B	1004		1401 – 1600
	1204		1601 – 2000
	1500		2001 – 3000
4C	1804		2401 – 2600
	2004		2601 – 2800
	2300		2801 – 3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



Dimensions in mm

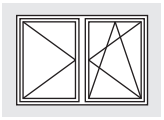
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	330–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	330–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16 fitting groove

PVC

basic security

fixed handle position

Hinge side TITAN

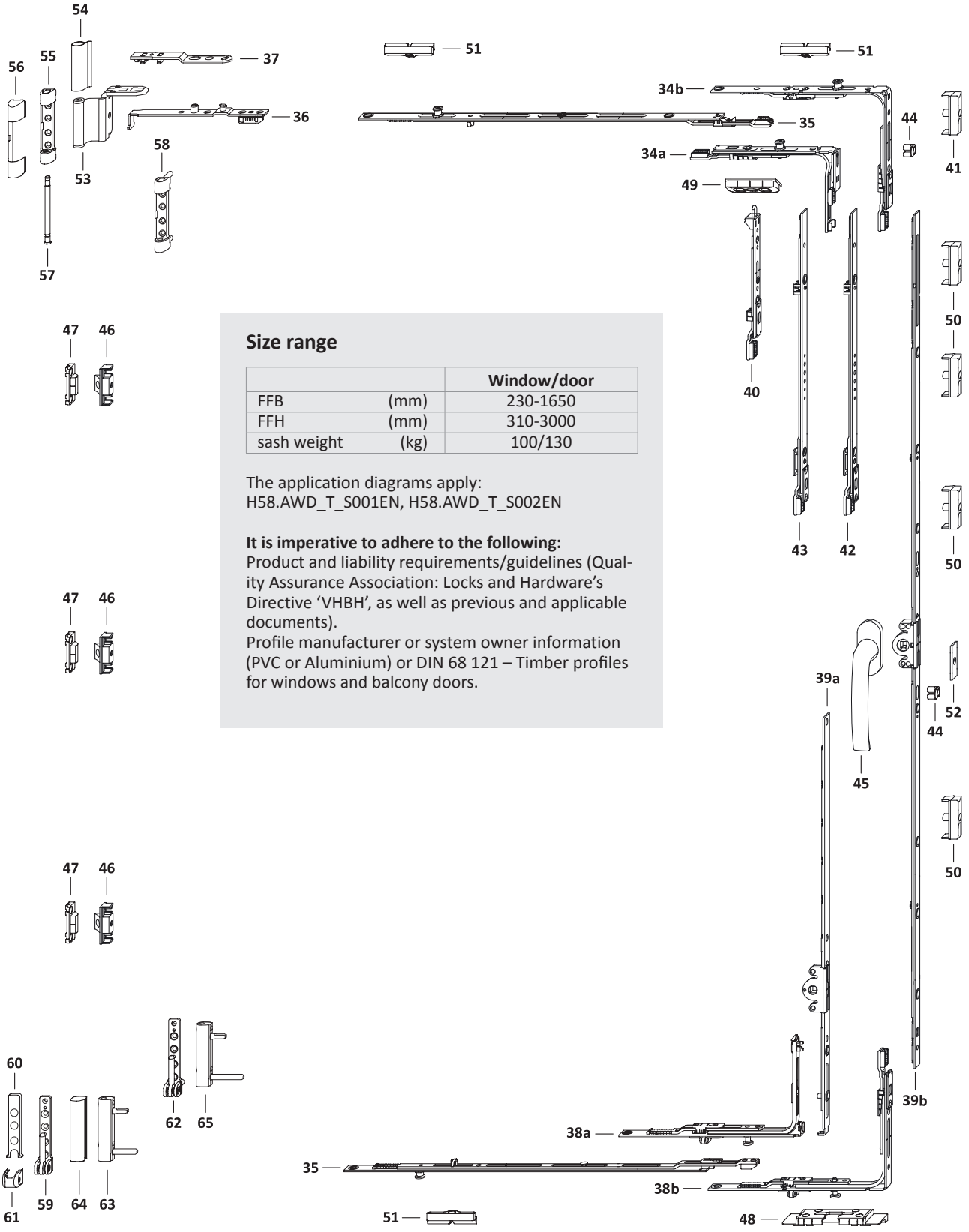
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GK Hinge side TITAN

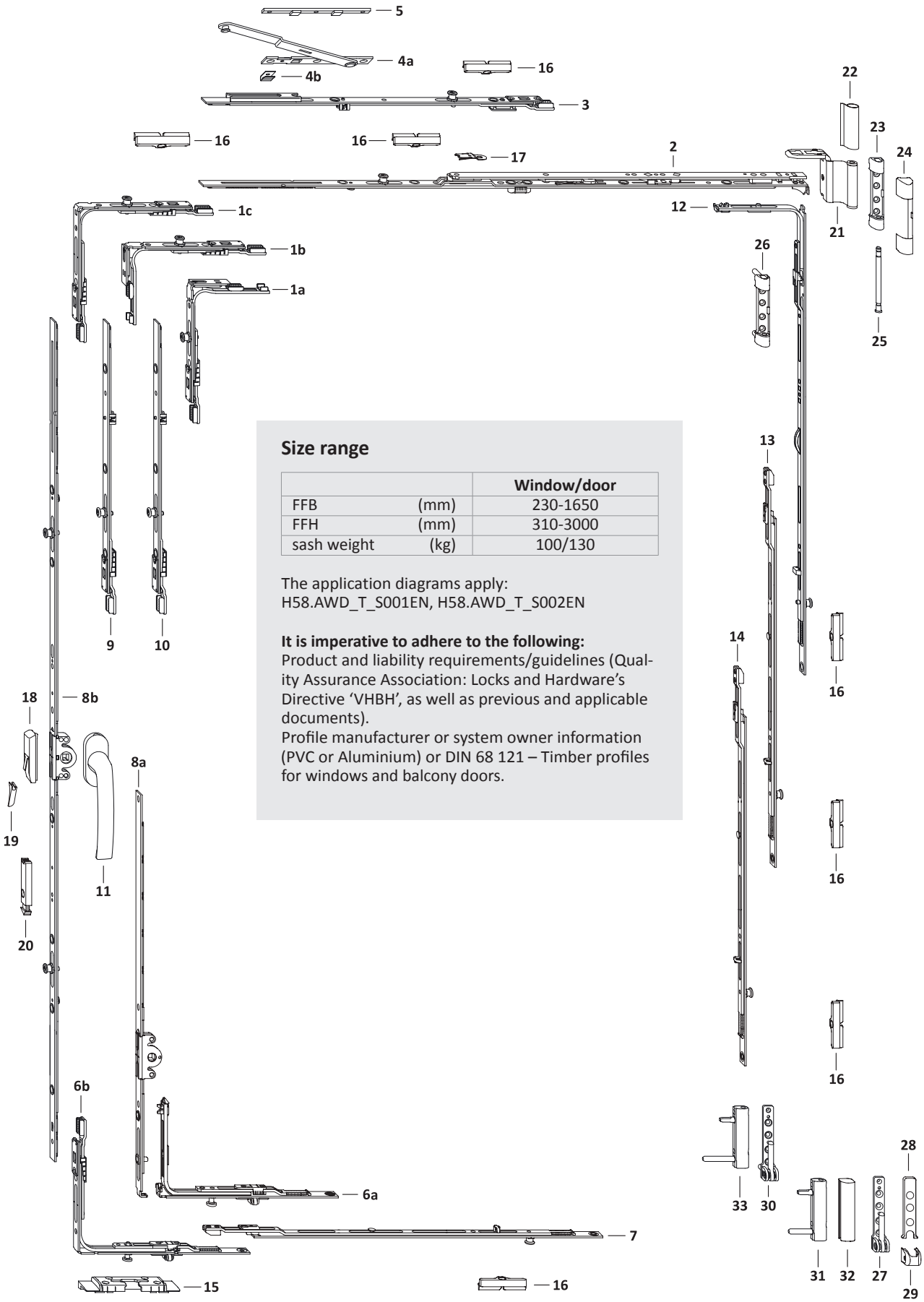


Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

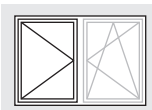
		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

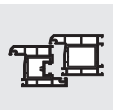
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

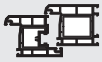
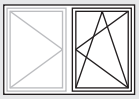
2-sash square tilt-turn/turn DS 16 fitting groove
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.			
						In the main sash	48	49	50	51
34a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371– 850	310– 410					1
34b	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	371–1650	411–3000					1
35	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050						2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450						2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650						2
36	stay sash part DF/MN	TSSD0020- ...	1	230–1650						
37	stay arm DF	TSAD0010- ...	1	230–1650						
38a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	230–1250	411– 600		1			
	locking part VSU/K FH+ 1S	TEVR1400- ...		371– 850	310– 410		1			
38b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230–1650	601–3000		1			
39a	gear 15 sz 30/G180	TGKK3010- ...	1	230– 850	310– 410	180				
	gear 15 sz 30/G180	TGKK3010- ...		230–1250	411– 600	180				
39b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300				
	gear 15 AF OZ sz 80/G400	TGKK9100- ...			801–1000	400			1	
	gear 15 AF OZ sz 100/G500	TGKK9110- ...			1001–1200	500			1	
	gear 15 AF OZ sz 120/G600	TGKK9120- ...			1201–1400	600			1	
	gear 15 AF OZ sz 140/G700	TGKK9130- ...			1401–1600	700			1	
	gear 15 AF OZ sz 160/G700	TGKK9170- ...			1601–1800	700			1	
	gear 15 AF OZ sz 180/G1000	TGKK9180- ...			1801–2000	1000			1	
	gear 15 AF OZ sz 200/G1000	TGKK9160- ...			2001–3000	1000			1	
40	locking bolt AF VSO RSA 11	TESC2030- ...	1	230– 370	411–3000			1		
41	striker plate 56 A2000	TRSB0030- ...	1	230– 330	411–3000					
42	linkage AF sz 1	TZZS0150- ...	1		2201–2400					
	linkage AF sz 2 A0767	TZKS1050- ...			2401–2600				1	
	linkage AF sz 1	TZZS0150- ...			2601–2800					
	linkage AF sz 2 A0767	TZKS1050- ...			2801–3000				1	
43	linkage AF sz 2 A0767	TZKS1050- ...	1		2601–2800				1	
	linkage AF sz 2 A0767	TZKS1050- ...			2801–3000				1	
44	travel restrictor	TFHB0010- ...	1		310–3000					
45	handle Globe	Ref.access. ZHGS	1		310–3000					
46	sash part MV	Ref. PDB, ZFMV01	1		801–1600					
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400					
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000					
47	frame part MV	Ref. PDB, ZRZM01	1		801–1600					
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400					
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000					
48	tilt lock bear. S-ES FH	Ref. PDB, FRKA								
49	striker V	Ref. PDB, FRZV01								
50	striker plate 56 A2000	TRSB0030- ...								
51	striker plate S 56	Ref. PDB, TRSM								
on request										
52	stop 2,2mm	710937	1		601–3000					

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
53	stay hinge DH	Ref. PDB, TBWB61			1	1
54	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
55	top hinge 100kg	Ref. PDB, TBSL61			1	
56	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
57	top hinge pin Poly	TBSB6020-1 ...			1	1
58	top hinge 130kg	Ref. PDB, TBSL62				1
59	bottom hinge 100kg	Ref. PDB, TBEL01			1	
60	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
61	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
62	bottom hinge 130kg	Ref. PDB, TBEL02				1
63	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
64	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
65	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GK Hinge side TITAN

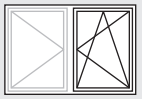
TITAN AF

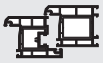
GS

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							15	16
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230– 330	411–3000			
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371– 850	310– 410			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331–1650	411–3000			1
2	stay AF sz 0	TSKK2000- ...	1	230– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	230–1250	411– 600		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		371– 850	310– 410		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230–1650	601–3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
8a	gear 15 sz 30/G180	TGKK3010- ...	1	371– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		230–1250	411– 600	180		
8b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		
9	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
10	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
11	handle Globe	Ref.access. ZHGS	1		310–3000			
12	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
15	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
16	striker plate S 56	Ref. PDB, TRSM						
on request								
17	tilt restrictor ..	TFKB0010- ...	1		310– 800			
18	mishandling device	TFBS0010- ...	1		601–3000			
19	pressure piece	Ref. PDB, TFFD	1		601–3000			
20	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

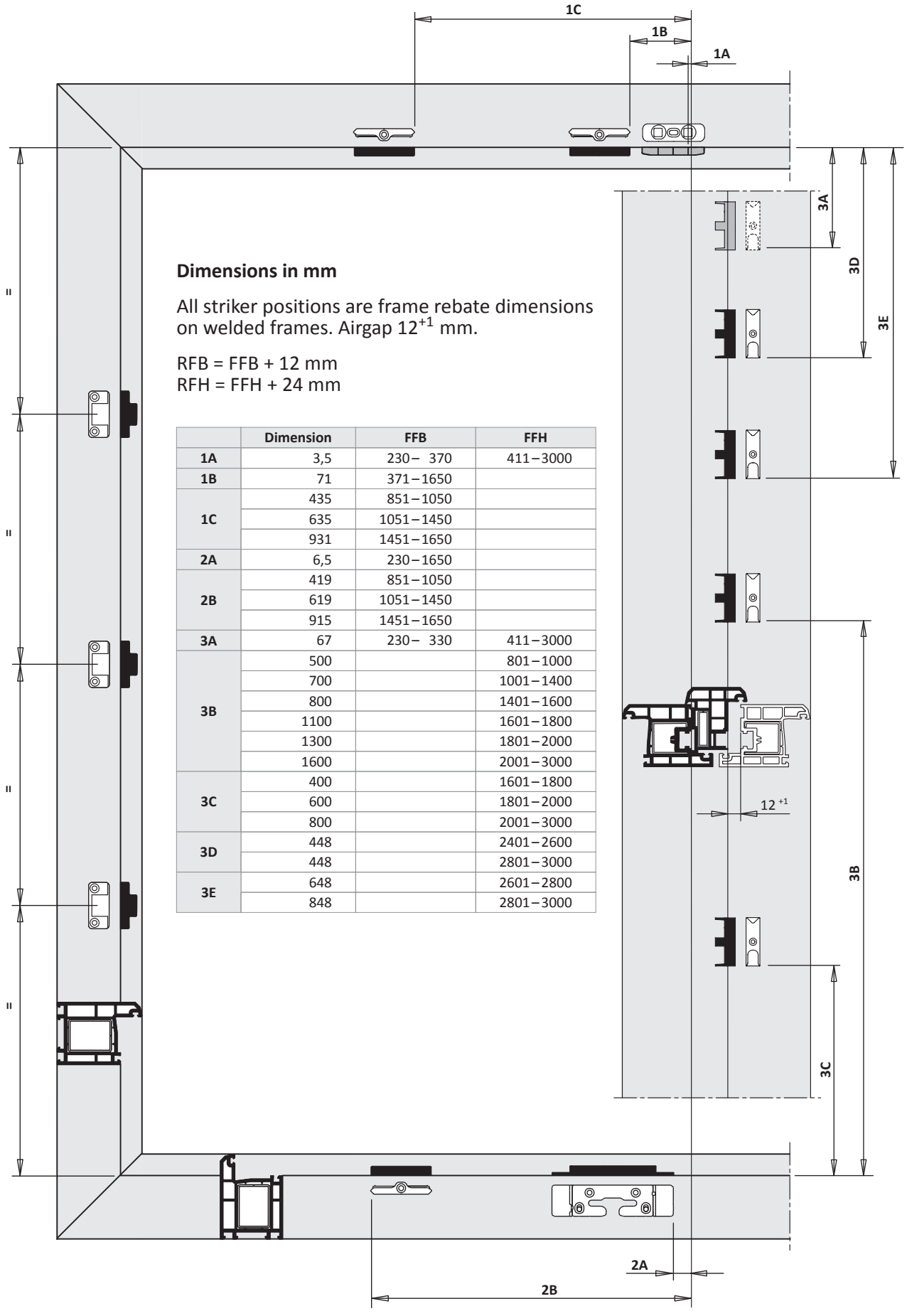
List of fittings main sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
21	stay hinge DH	Ref. PDB, TBWB61			1	1
22	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
23	top hinge 100kg	Ref. PDB, TBSL61			1	
24	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
25	top hinge pin Poly	TBSB6020-1 ...			1	1
26	top hinge 130kg	Ref. PDB, TBSL62				1
27	bottom hinge 100kg	Ref. PDB, TBEL01			1	
28	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
29	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
30	bottom hinge 130kg	Ref. PDB, TBEL02				1
31	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
32	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
33	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

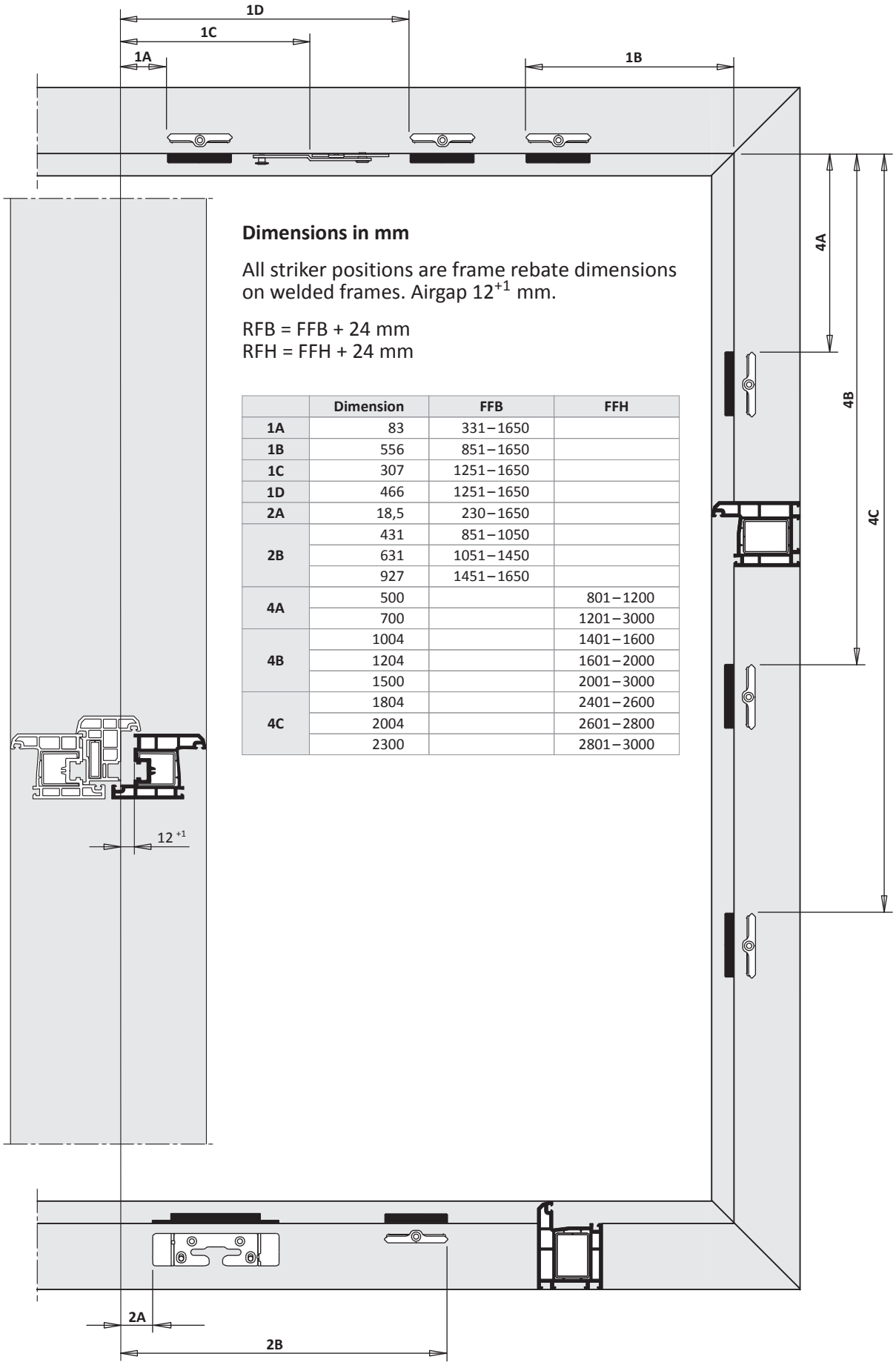
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	230– 370	411–3000
1B	71	371–1650	
1C	435	851–1050	
	635	1051–1450	
	931	1451–1650	
2A	6,5	230–1650	
2B	419	851–1050	
	619	1051–1450	
	915	1451–1650	
3A	67	230– 330	411–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GK Hinge side TITAN



Dimensions in mm

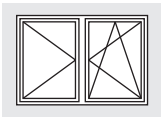
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	230–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16 bolt

PVC

basic security

fixed handle position

Hinge side TITAN

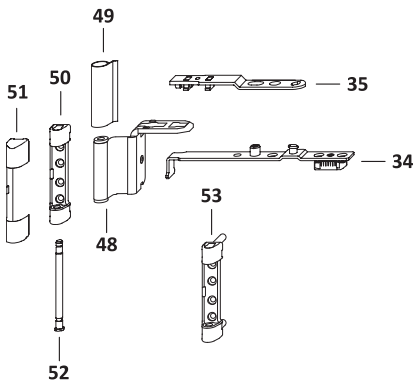
surface TS

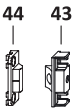
backset 15 mm

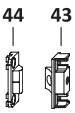
Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

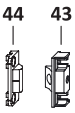
hardware layout slave sash

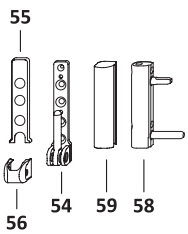
2-sash square tilt-turn/turn DS 16 bolt
PVC GK Hinge side TITAN

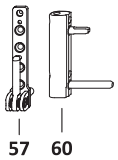










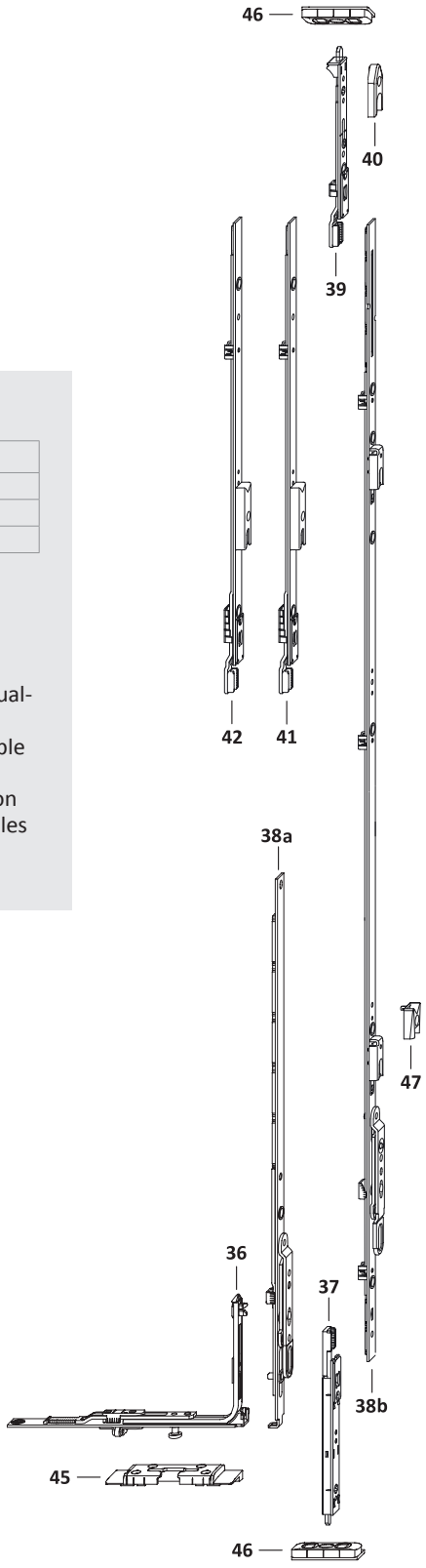


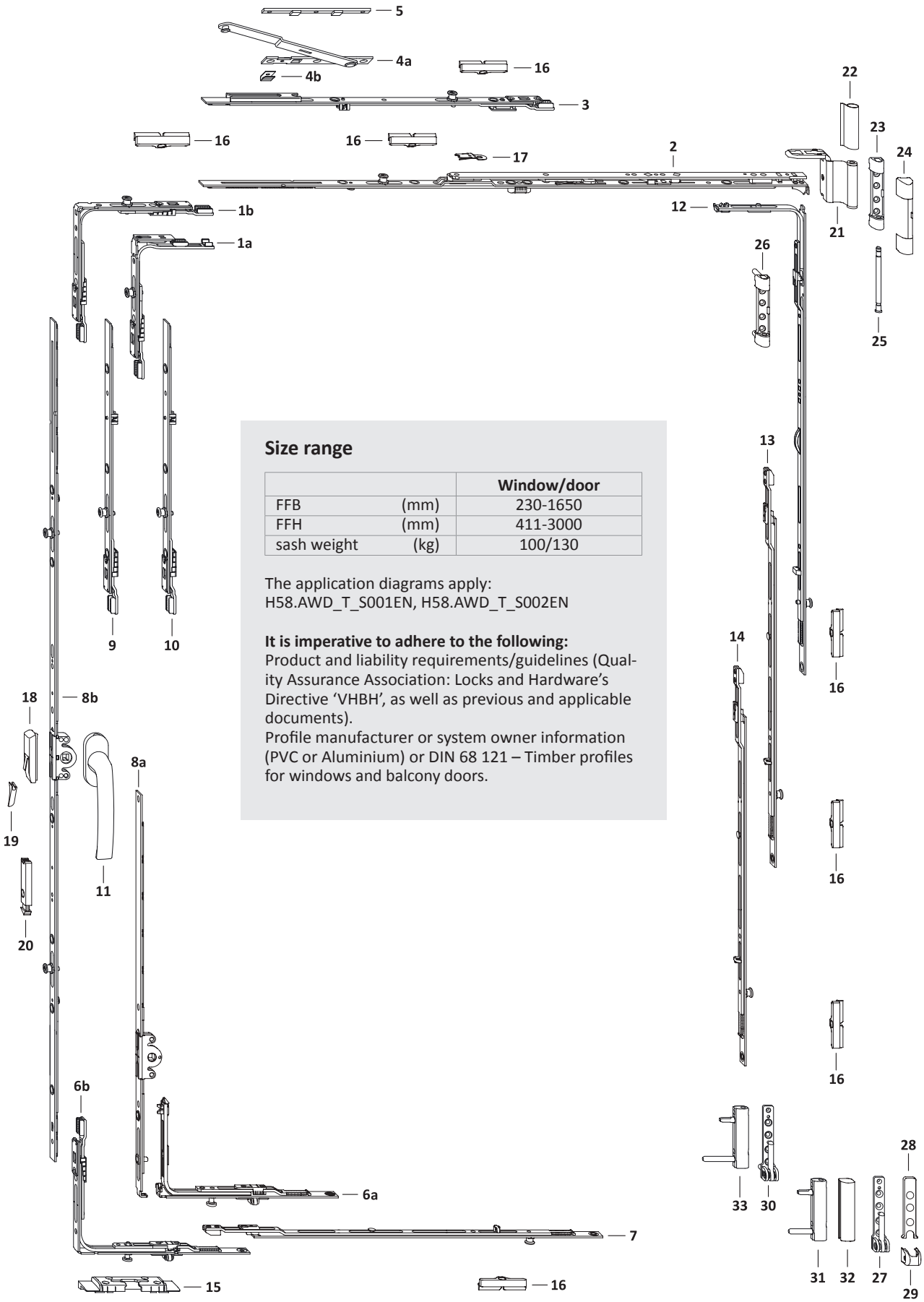
Size range

		Window/door
FFB	(mm)	230-850
FFH	(mm)	411-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.





Size range

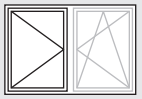
		Window/door
FFB	(mm)	230-1650
FFH	(mm)	411-3000
sash weight	(kg)	100/130

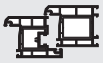
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

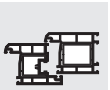
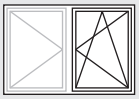
2-sash square tilt-turn/turn DS 16 bolt
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	45	46
34	stay sash part DF/MN	TSSD0020- ...	1	230 – 850				
35	stay arm DF	TSAD0010- ...	1	230 – 850				
36	locking part VSU/K FH+ 1S	TEVR1400- ...	1	230 – 850	411 – 800		1	
37	locking bolt AF VSU/G RSA 11	TESC3050- ...	1		801 – 3000			1
38a	sec.sash gear 16 sz 30	TGKS0010- ...	1		411 – 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601 – 800	300		
38b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801 – 1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001 – 1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201 – 1400	600		
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401 – 1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601 – 1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801 – 2000	1000		
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001 – 3000	1000		
39	locking bolt AF VSO RSA 11	TESC2030- ...	1		411 – 3000			1
40	striker plate A0767	TRSA0010- ...	1	230 – 330	411 – 3000			
41	linkage AF sz 1	TZZS0150- ...	1		2201 – 2400			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401 – 2600			
	linkage AF sz 1	TZZS0150- ...			2601 – 2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000			
42	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601 – 2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000			
43	sash part MV	Ref. PDB, ZFMV01	1		801 – 1600			
	sash part MV	Ref. PDB, ZFMV01	2		1601 – 2400			
	sash part MV	Ref. PDB, ZFMV01	3		2401 – 3000			
44	frame part MV	Ref. PDB, ZRZM01	1		801 – 1600			
	frame part MV	Ref. PDB, ZRZM01	2		1601 – 2400			
	frame part MV	Ref. PDB, ZRZM01	3		2401 – 3000			
45	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
46	striker V	Ref. PDB, FRZV02						
on request								
47	striker snapper AF A0767	TRST0100- ...	1		1801 – 3000			

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
48	stay hinge DH	Ref. PDB, TBWB61			1	1
49	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
50	top hinge 100kg	Ref. PDB, TBSL61			1	
51	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
52	top hinge pin Poly	TBSB6020-1 ...			1	1
53	top hinge 130kg	Ref. PDB, TBSL62				1
54	bottom hinge 100kg	Ref. PDB, TBEL01			1	
55	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
56	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
57	bottom hinge 130kg	Ref. PDB, TBEL02				1
58	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
59	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
60	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16 bolt
PVC GK Hinge side TITAN

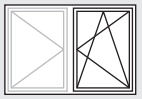
TITAN AF

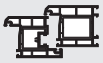
GS

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							15	16
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230– 330				
1b	corn.drive VSO 1RS	TEUL4010- ...	1	331–1650				1
2	stay AF sz 0	TSKK2000- ...	1	230– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	230–1250	411– 600		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230–1650	601–3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
8a	gear 15 sz 30/G180	TGKK3010- ...	1	230–1250	411– 600	180		
8b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		
9	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
10	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
11	handle Globe	Ref.access. ZHGS	1		411–3000			
12	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
15	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
16	striker plate S 56	Ref. PDB, TRSM						
on request								
17	tilt restrictor ..	TFKB0010- ...	1		411– 800			
18	mishandling device	TFBS0010- ...	1		601–3000			
19	pressure piece	Ref. PDB, TFFD	1		601–3000			
20	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

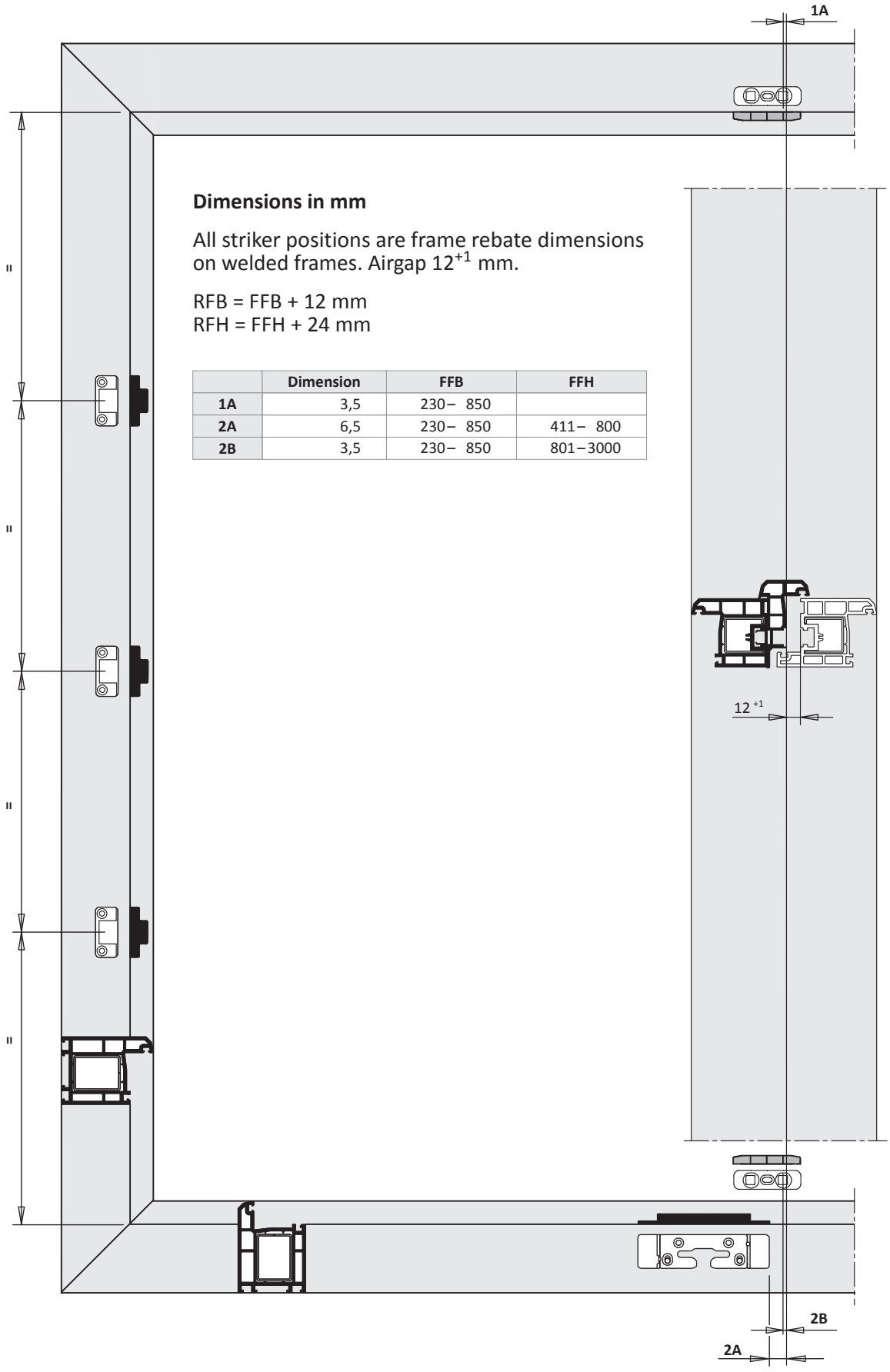
List of fittings main sash

2-sash square tilt-turn/turn DS 16 bolt
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
21	stay hinge DH	Ref. PDB, TBWB61			1	1
22	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
23	top hinge 100kg	Ref. PDB, TBSL61			1	
24	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
25	top hinge pin Poly	TBSB6020-1 ...			1	1
26	top hinge 130kg	Ref. PDB, TBSL62				1
27	bottom hinge 100kg	Ref. PDB, TBEL01			1	
28	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
29	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
30	bottom hinge 130kg	Ref. PDB, TBEL02				1
31	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
32	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
33	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

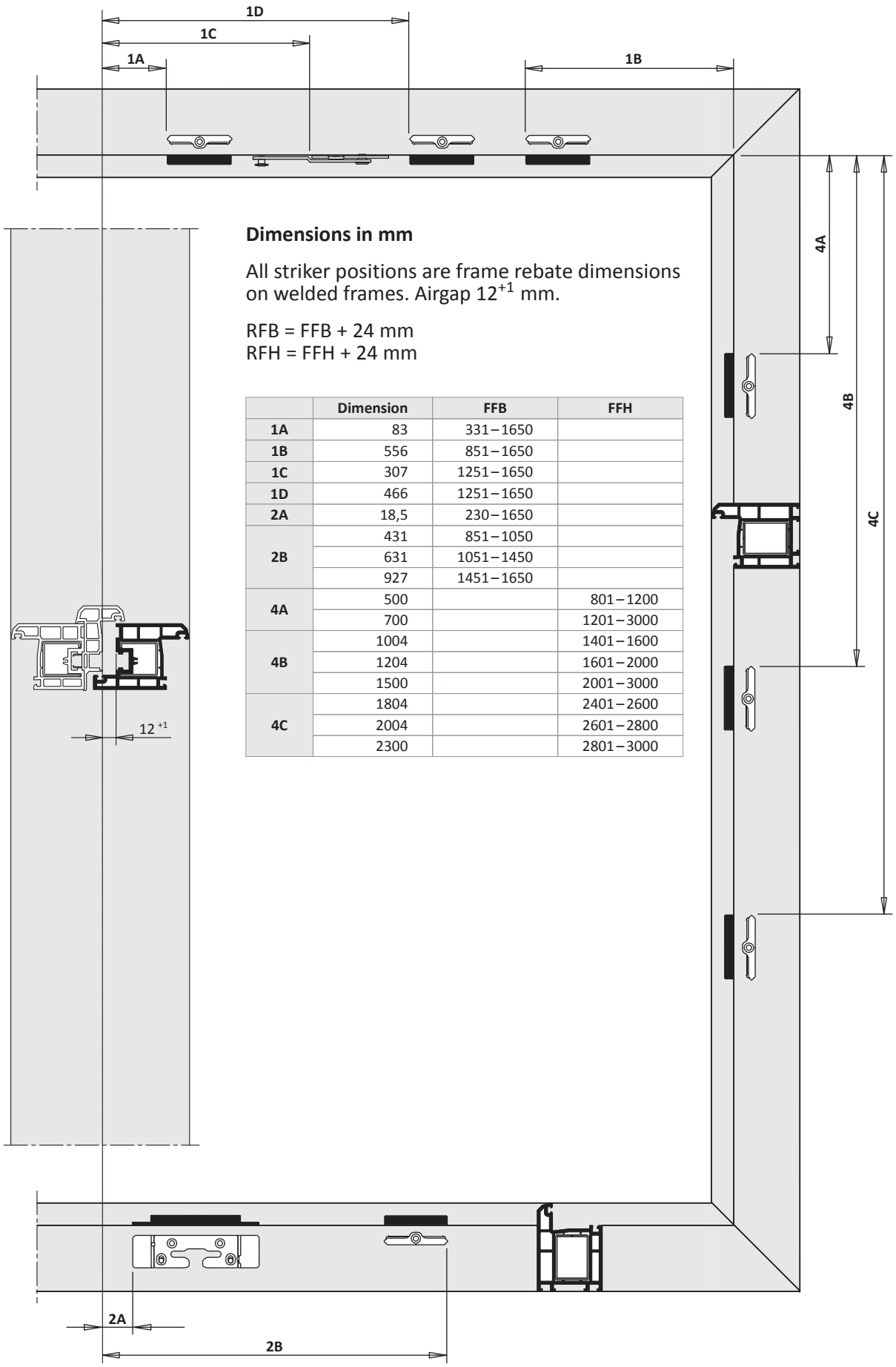
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	230– 850	
2A	6,5	230– 850	411– 800
2B	3,5	230– 850	801–3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16 bolt
PVC GK Hinge side TITAN



Dimensions in mm

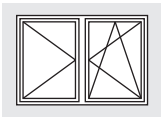
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	230–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16 shoot bolt

PVC

basic security

fixed handle position

Hinge side TITAN

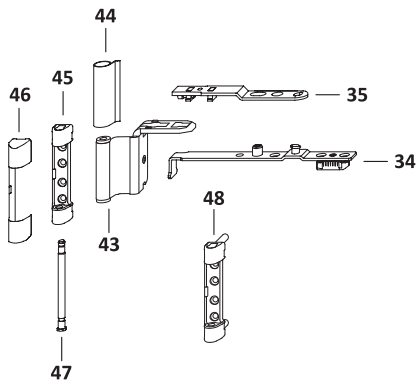
surface TS

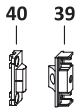
backset 15 mm

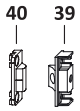
Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

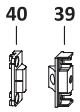
hardware layout slave sash

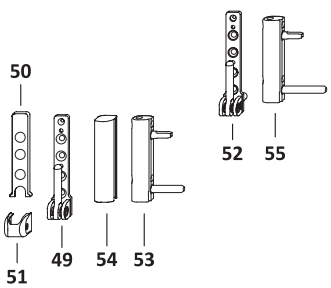
2-sash square tilt-turn/turn DS 16 shoot bolt
PVC GK Hinge side TITAN









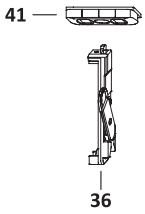


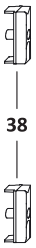
Size range

		Window/door
FFB	(mm)	331-850
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

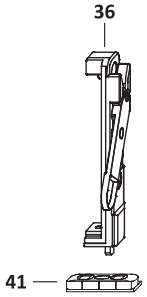
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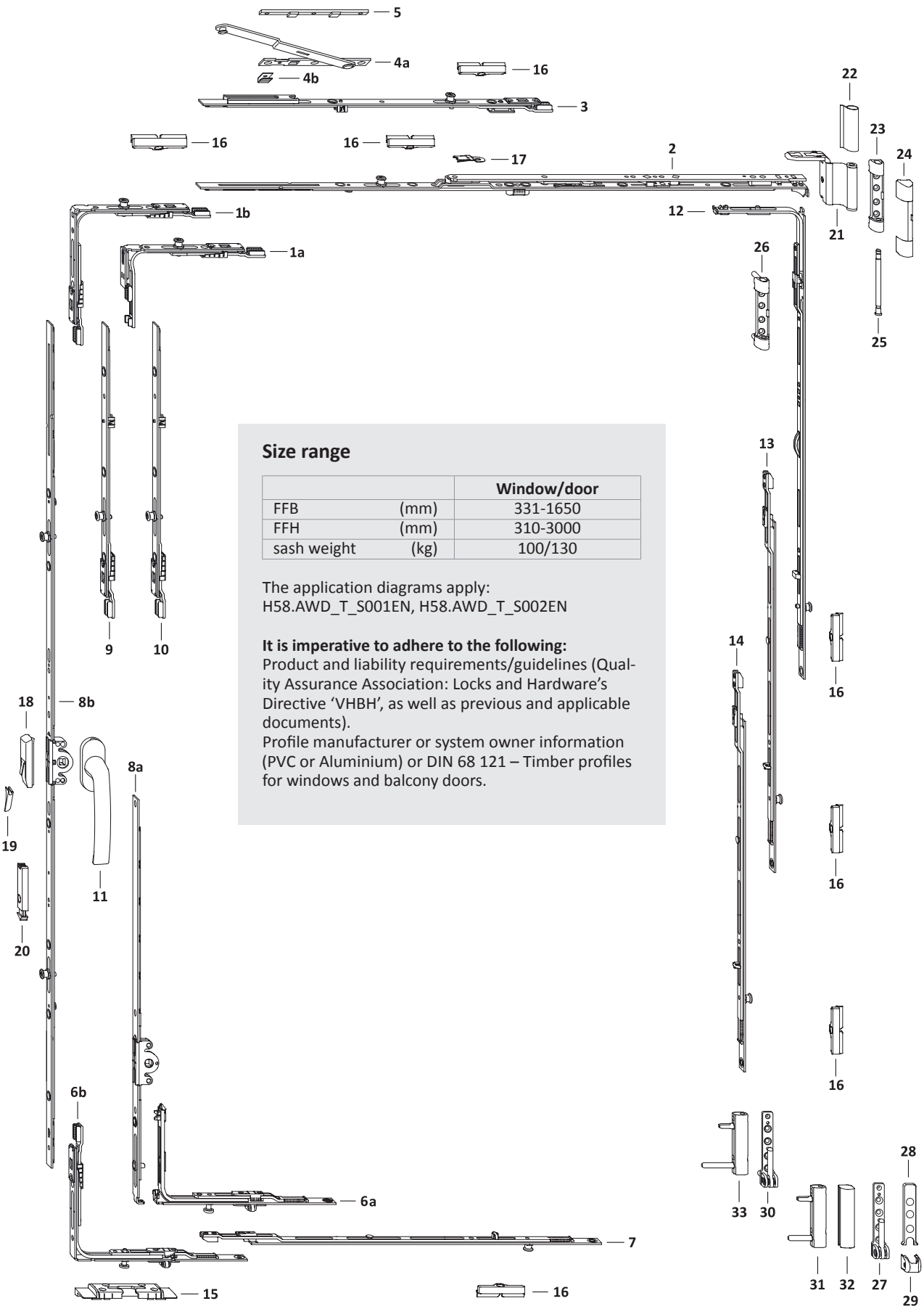












Size range

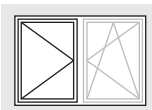
		Window/door
FFB	(mm)	331-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

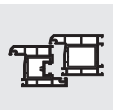
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
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List of fittings slave sash

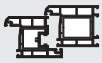
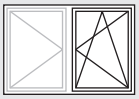
2-sash square tilt-turn/turn DS 16 shoot bolt
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
						In the main sash	41
34	stay sash part DF/MN	TSSD0020- ...	1	331– 850			
35	stay arm DF	TSAD0010- ...	1	331– 850			
36	short shoot bolt A2000	716236	2		310–3000		2
37	striker plate 56 A2000	TRSB0030- ...	1		801–1000	400	
	striker plate 56 A2000	TRSB0030- ...			1001–1200	500	
	striker plate 56 A2000	TRSB0030- ...			1201–1400	600	
	striker plate 56 A2000	TRSB0030- ...			1401–1600	700	
	striker plate 56 A2000	TRSB0030- ...	2		1601–1800	700	
	striker plate 56 A2000	TRSB0030- ...			1801–2000	1000	
	striker plate 56 A2000	TRSB0030- ...			2001–3000	1000	
38	striker plate 56 A2000	TRSB0030- ...	1		2401–2800		
	striker plate 56 A2000	TRSB0030- ...	2		2801–3000		
39	sash part MV	Ref. PDB, ZFMV01	1		801–1600		
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400		
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000		
40	frame part MV	Ref. PDB, ZRZM01	1		801–1600		
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400		
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000		
41	striker V	Ref. PDB, FRZV01					
on request							
42	stop 2,2mm	710937	1		601–3000		

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
43	stay hinge DH	Ref. PDB, TBWB61			1	1
44	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
45	top hinge 100kg	Ref. PDB, TBSL61			1	
46	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
47	top hinge pin Poly	TBSB6020-1 ...			1	1
48	top hinge 130kg	Ref. PDB, TBSL62				1
49	bottom hinge 100kg	Ref. PDB, TBEL01			1	
50	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
51	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
52	bottom hinge 130kg	Ref. PDB, TBEL02				1
53	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
54	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
55	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16 shoot bolt
PVC GK Hinge side TITAN

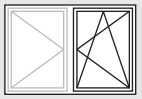
TITAN AF

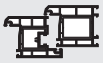
GS

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							15	16
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	331– 850	310– 410			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	331–1650	411–3000			1
2	stay AF sz 0	TSKK2000- ...	1	331– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	331–1250	310– 600		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	331–1650	601–3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
8a	gear 15 sz 30/G180	TGKK3010- ...	1	331– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		331–1250	411– 600	180		
8b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		
9	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
10	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
11	handle Globe	Ref.access. ZHGS	1		310–3000			
12	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
15	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
16	striker plate S 56	Ref. PDB, TRSM						
on request								
17	tilt restrictor ..	TFKB0010- ...	1		310– 800			
18	mishandling device	TFBS0010- ...	1		601–3000			
19	pressure piece	Ref. PDB, TFFD	1		601–3000			
20	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

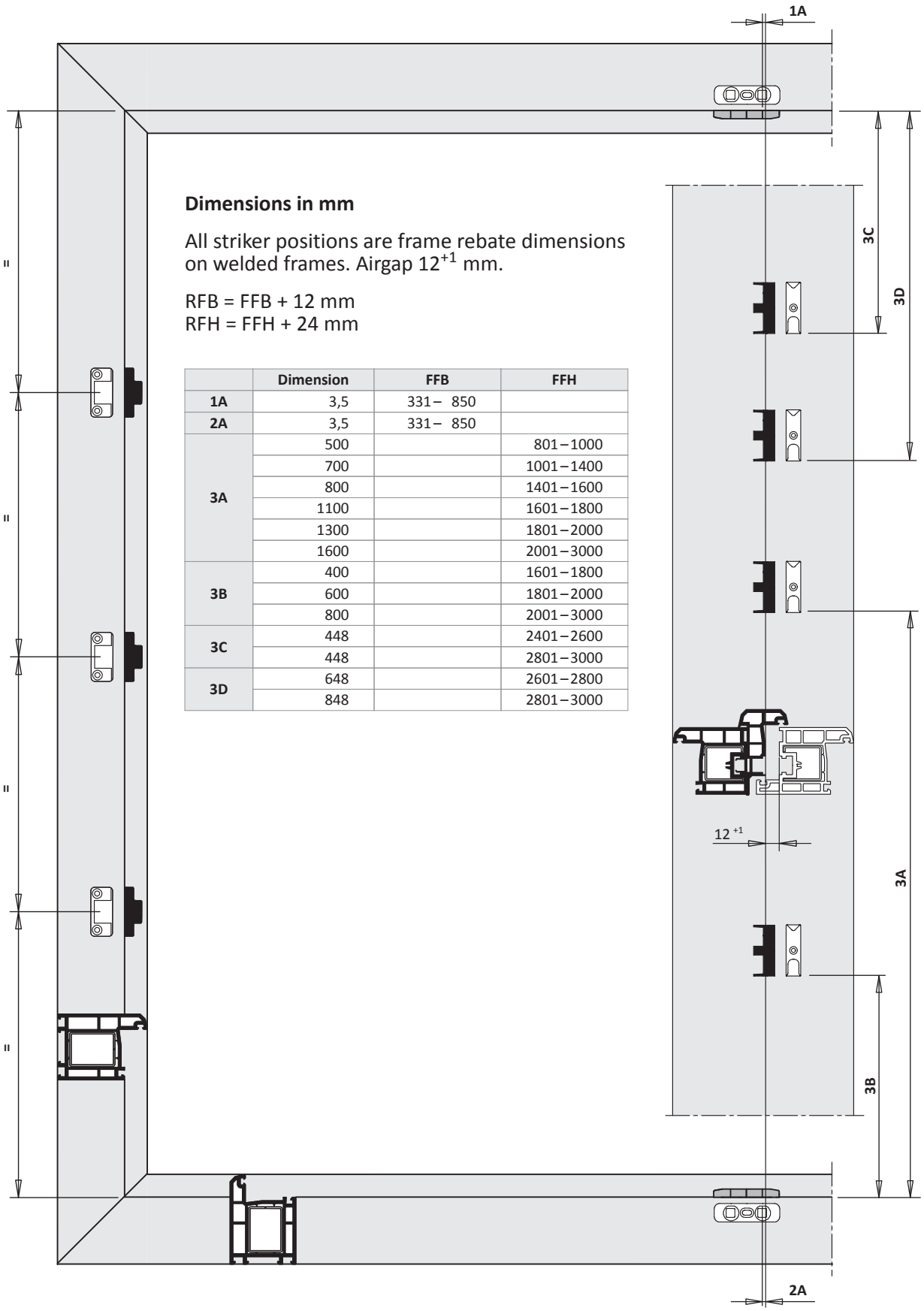
List of fittings main sash

2-sash square tilt-turn/turn DS 16 shoot bolt
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
21	stay hinge DH	Ref. PDB, TBWB61			1	1
22	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
23	top hinge 100kg	Ref. PDB, TBSL61			1	
24	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
25	top hinge pin Poly	TBSB6020-1 ...			1	1
26	top hinge 130kg	Ref. PDB, TBSL62				1
27	bottom hinge 100kg	Ref. PDB, TBEL01			1	
28	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
29	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
30	bottom hinge 130kg	Ref. PDB, TBEL02				1
31	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
32	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
33	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

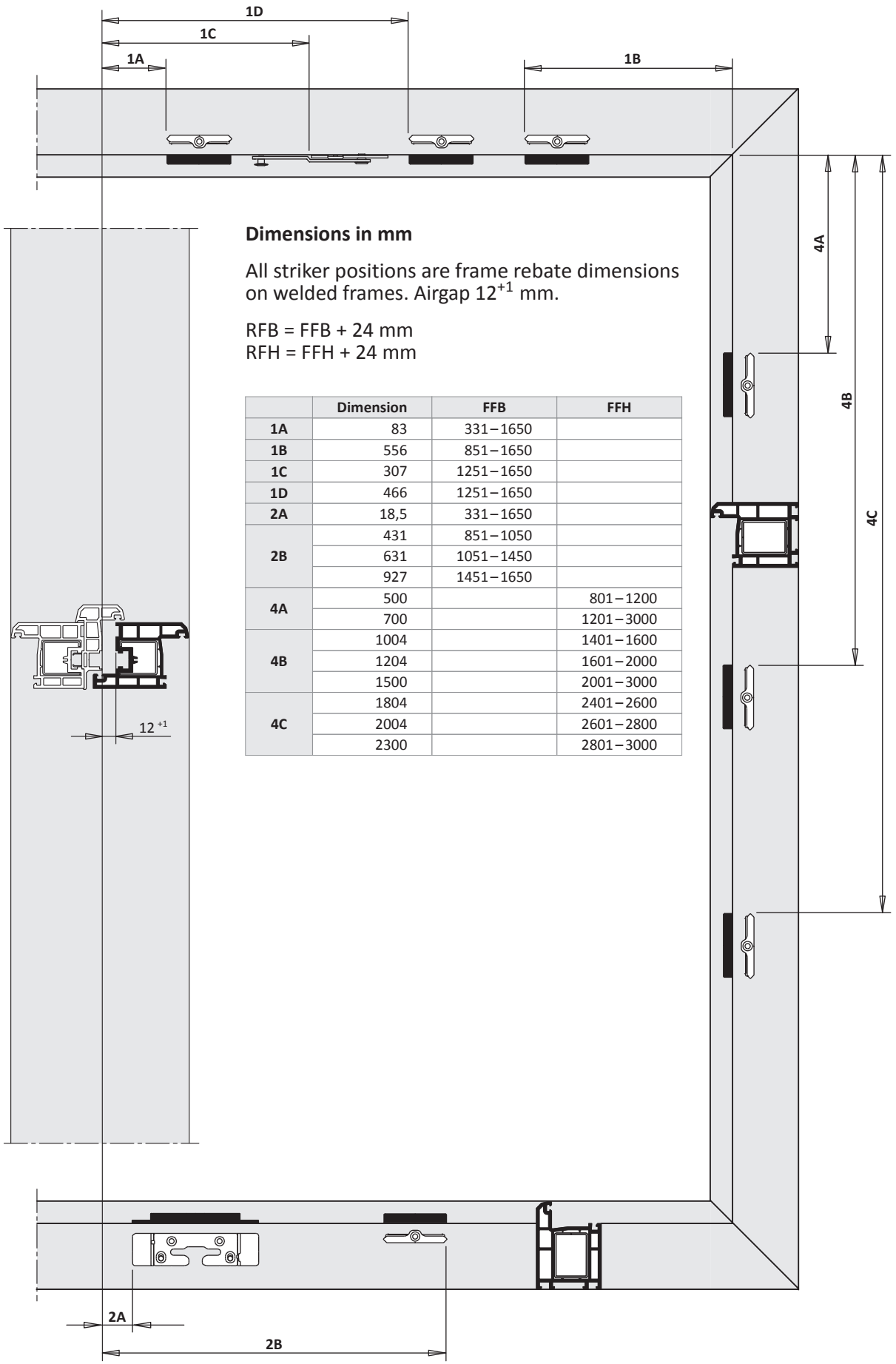
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	331– 850	
2A	3,5	331– 850	
3A	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3B	400		1601–1800
	600		1801–2000
	800		2001–3000
3C	448		2401–2600
	448		2801–3000
3D	648		2601–2800
	848		2801–3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16 shoot bolt
PVC GK Hinge side TITAN



Dimensions in mm

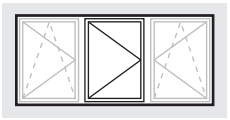
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

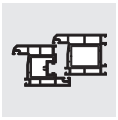
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	331–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





GS

3-sash Centre sash second opening turn

PVC

basic security

fixed handle position

Hinge side TITAN

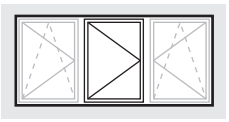
surface TS

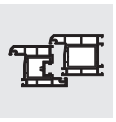
backset 15 mm

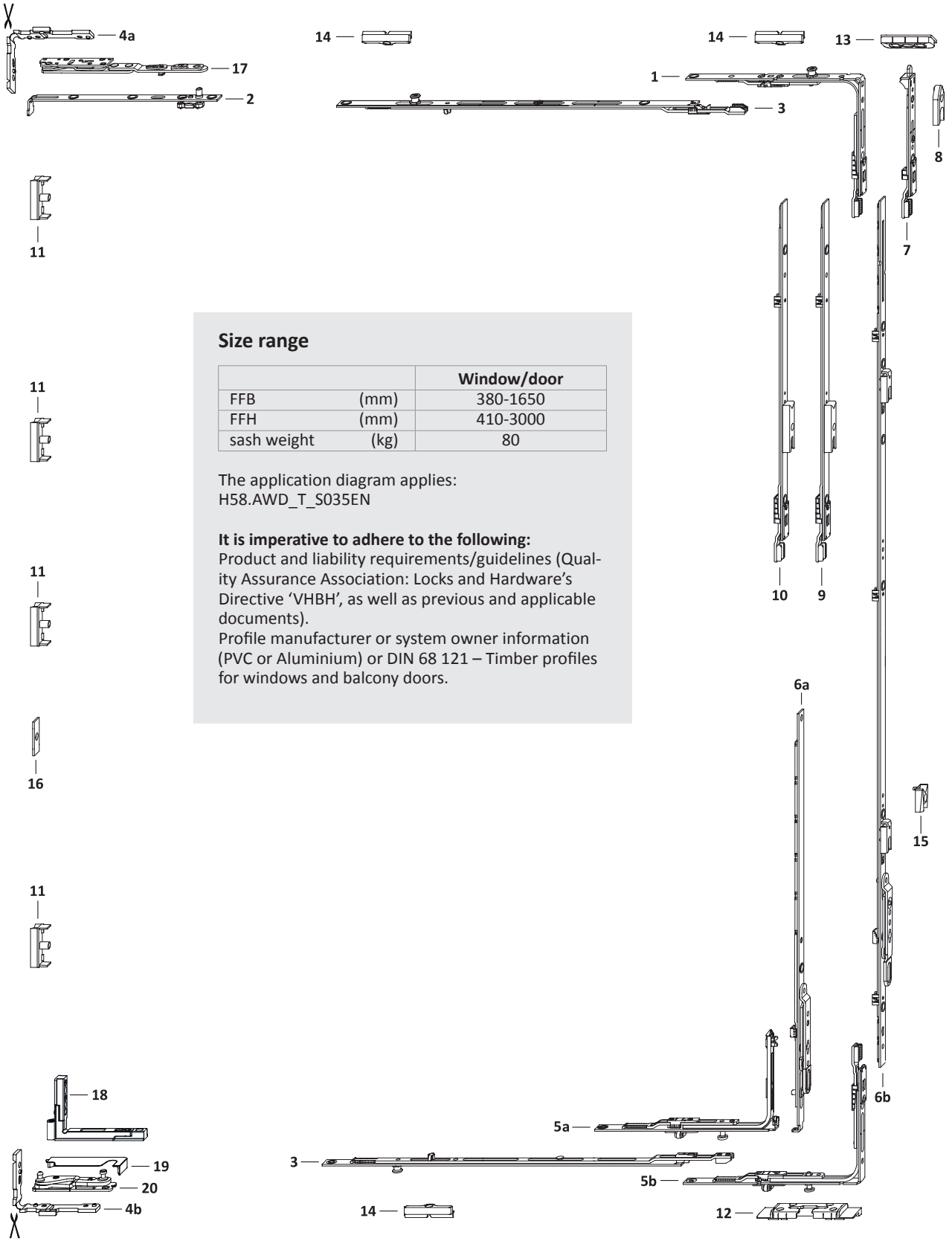
Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear

hardware layout

3-sash Centre sash second opening turn
PVC GK Hinge side TITAN







Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	410-3000
sash weight	(kg)	80

The application diagram applies:
H58.AWD_T_S035EN

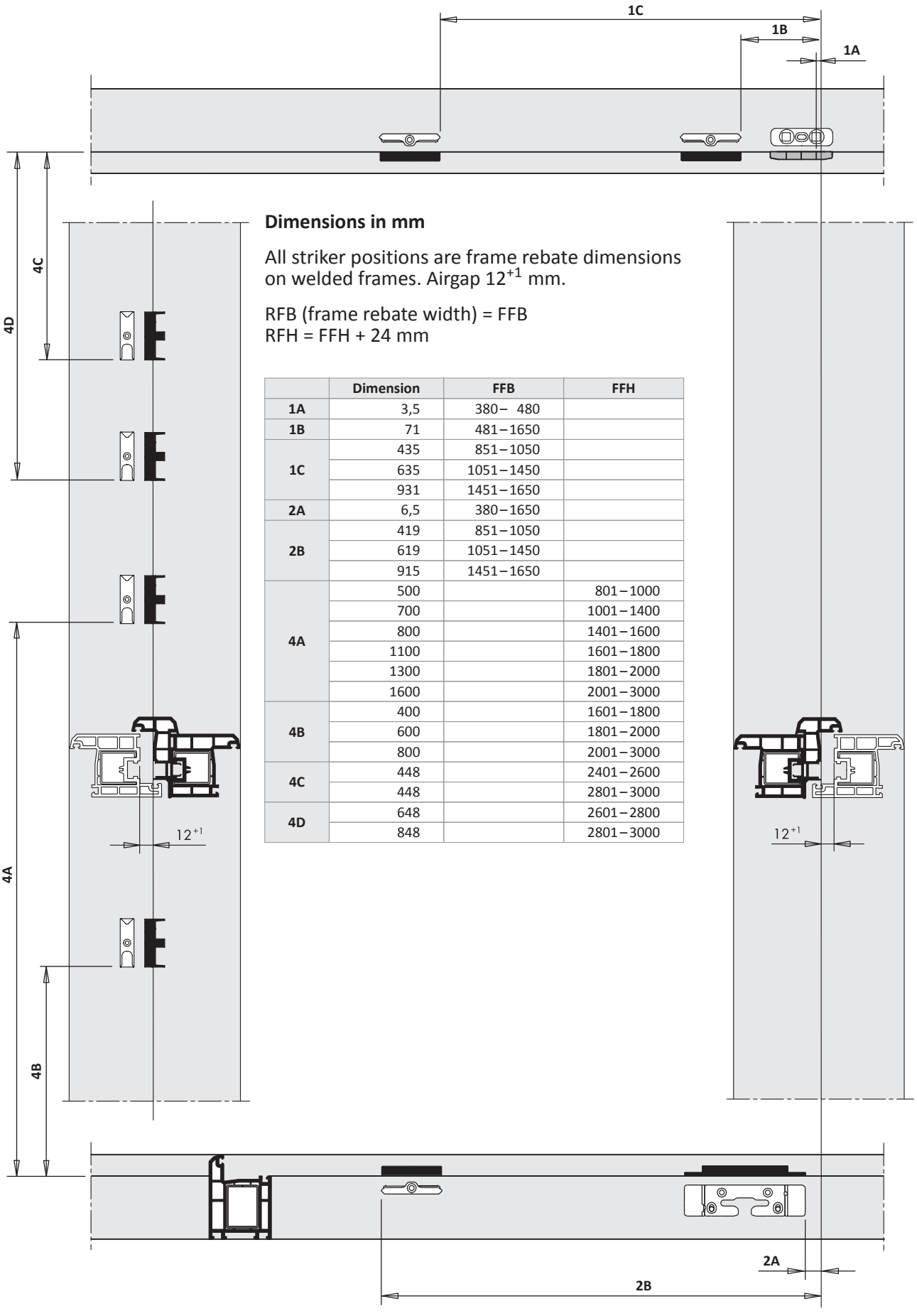
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							12	13	14
1	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	481–1650					1
2	stay sash part DF AX	TSSV3020- ...	1	380–1650					
3	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					2
4	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650					
5a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	380–1650	410– 800		1		
5b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	380–1650	801–3000		1		
6a	sec.sash gear 16 sz 30	TGKS0010- ...	1	380–1250	410– 600	180			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300			
6b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400			
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500			
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600			
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700			
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700			
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000			
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000			
7	locking bolt AF VSO RSA 11	TESC2030- ...	1	380– 480	410–3000			1	
8	striker plate A0767	TRSA0010- ...	1	380– 480	410–3000				
9	linkage AF sz 1	TZZS0150- ...	1		2201–2400				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600				
	linkage AF sz 1	TZZS0150- ...			2601–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
10	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
11	striker plate 56 A2000	TRSB0030- ...	1		801–1000				
	striker plate 56 A2000	TRSB0030- ...			1001–1200				
	striker plate 56 A2000	TRSB0030- ...			1201–1400				
	striker plate 56 A2000	TRSB0030- ...			1401–1600				
	striker plate 56 A2000	TRSB0030- ...	2		1601–2400				
	striker plate 56 A2000	TRSB0030- ...	3		2401–2800				
	striker plate 56 A2000	TRSB0030- ...	4		2801–3000				
12	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
13	striker V	Ref. PDB, FRZV01							
14	striker plate S 56	Ref. PDB, TRSM							
on request									
15	striker snapper AF A0767	TRST0100- ...	1		1801–3000				
16	stop 2,2mm	710937	1						

Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	--	80 kg
17	stay arm AX DF/3	Ref. PDB, TSAV47		
18	corner hinge AX	Ref. PDB, TBEB41		
19	cover cap AX EL	Ref. PDB, TKEL41		
20	bottom hinge AX DF/3	Ref. PDB, TBEV43		

Frame dimensions

3-sash Centre sash second opening turn
PVC GK Hinge side TITAN



Dimensions in mm

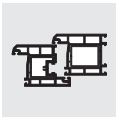
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB (frame rebate width) = FFB
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	380– 480	
1B	71	481–1650	
1C	435	851–1050	
	635	1051–1450	
	931	1451–1650	
2A	6,5	380–1650	
2B	419	851–1050	
	619	1051–1450	
	915	1451–1650	
4A	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
4B	400		1601–1800
	600		1801–2000
	800		2001–3000
4C	448		2401–2600
	448		2801–3000
4D	648		2601–2800
	848		2801–3000

TITAN AF

Installation instructions

GS

1-sash square tilt before turn (TBT)

PVC

basic security

fixed handle position

Hinge side TITAN

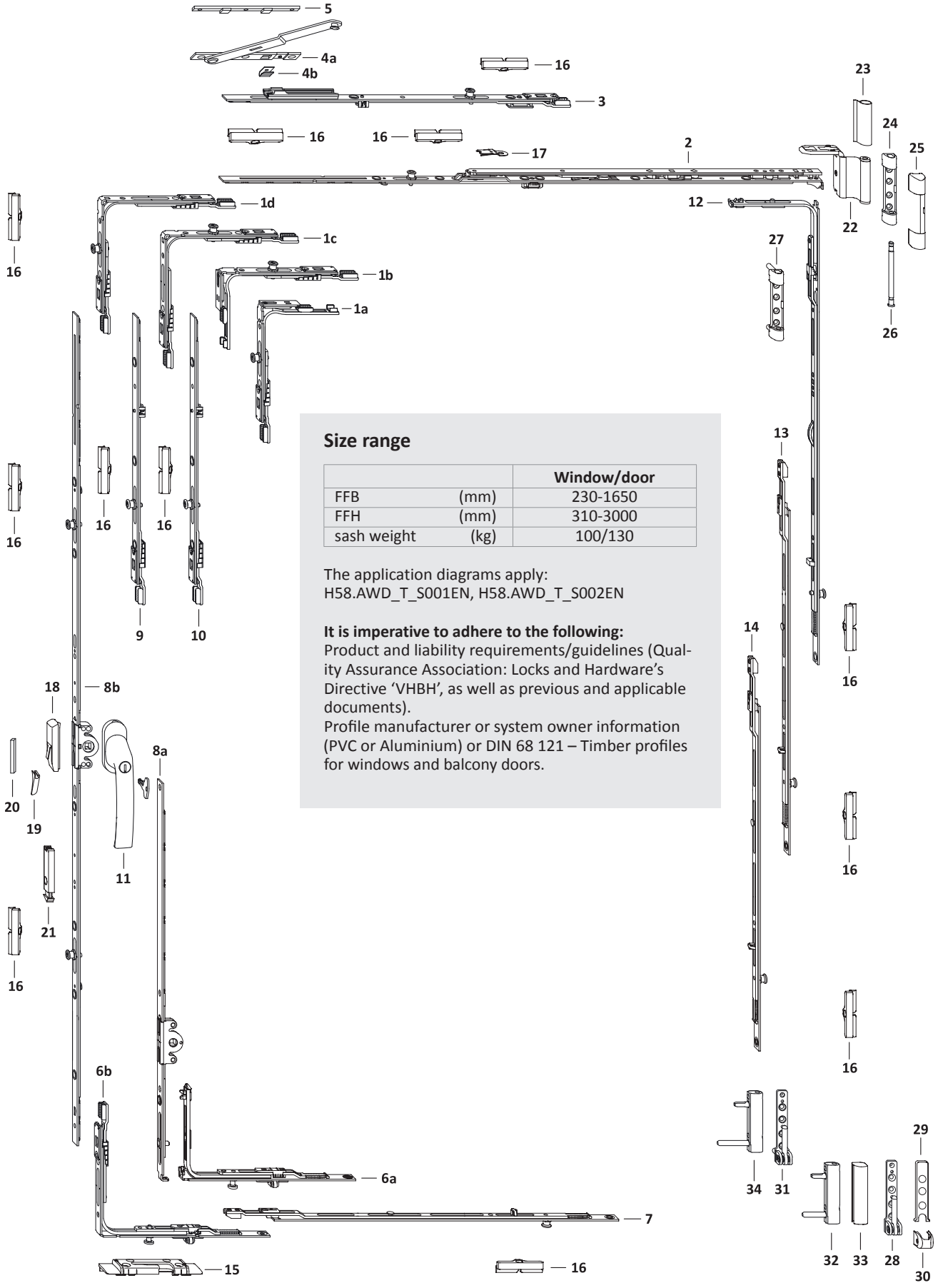
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt before turn (TBT)
PVC GK Hinge side TITAN



Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

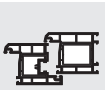
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Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							15	16
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230– 330	411–3000			1
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	331– 850	310– 410			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331–1250	411–3000			1
1d	corn.drive VSO 1RS	TEUL4010- ...	1	1251–1650	411–3000			1
2	stay AF TBT sz 0	TSKT2000- ...	1	230– 450				
	stay AF TBT sz 1	TSKT2010- ...		451– 680				
	stay AF TBT sz 2 1RS	TSKT2120- ...		681– 850				
	stay AF TBT sz 3 1RS	TSKT2030- ...		851–1050				1
	stay AF TBT sz 4 1RS	TSKT2040- ...		1051–1250				1
	stay AF TBT sz 3 1RS	TSKT2030- ...		1251–1450				1
	stay AF TBT sz 4 1RS	TSKT2040- ...		1451–1650				1
3	linkage add. stay AF TBT RS	TZOT1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	230–1250	411– 600		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		331– 850	310– 410		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230–1650	601–3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
8a	gear 15 sz 30/G180	TGKK3010- ...	1	331– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		230–1250	411– 600	180		
8b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		2
9	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			1
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
10	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
11	handle Globe TBT lockable	Ref.access. ZHGT	1		310–3000			
12	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
15	tilt lock bear. S-ES FH TBT	Ref. PDB, FRKB						
16	striker plate S 56	Ref. PDB, TRSM						
on request								
17	tilt restrictor ..	TFKB0010- ...	1		310– 800			
18	mishandling device	TFBS0010- ...	1					
19	pressure piece	Ref. PDB, TFFD	1					
20	stop	Ref. PDB, FRZF01	1					
21	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

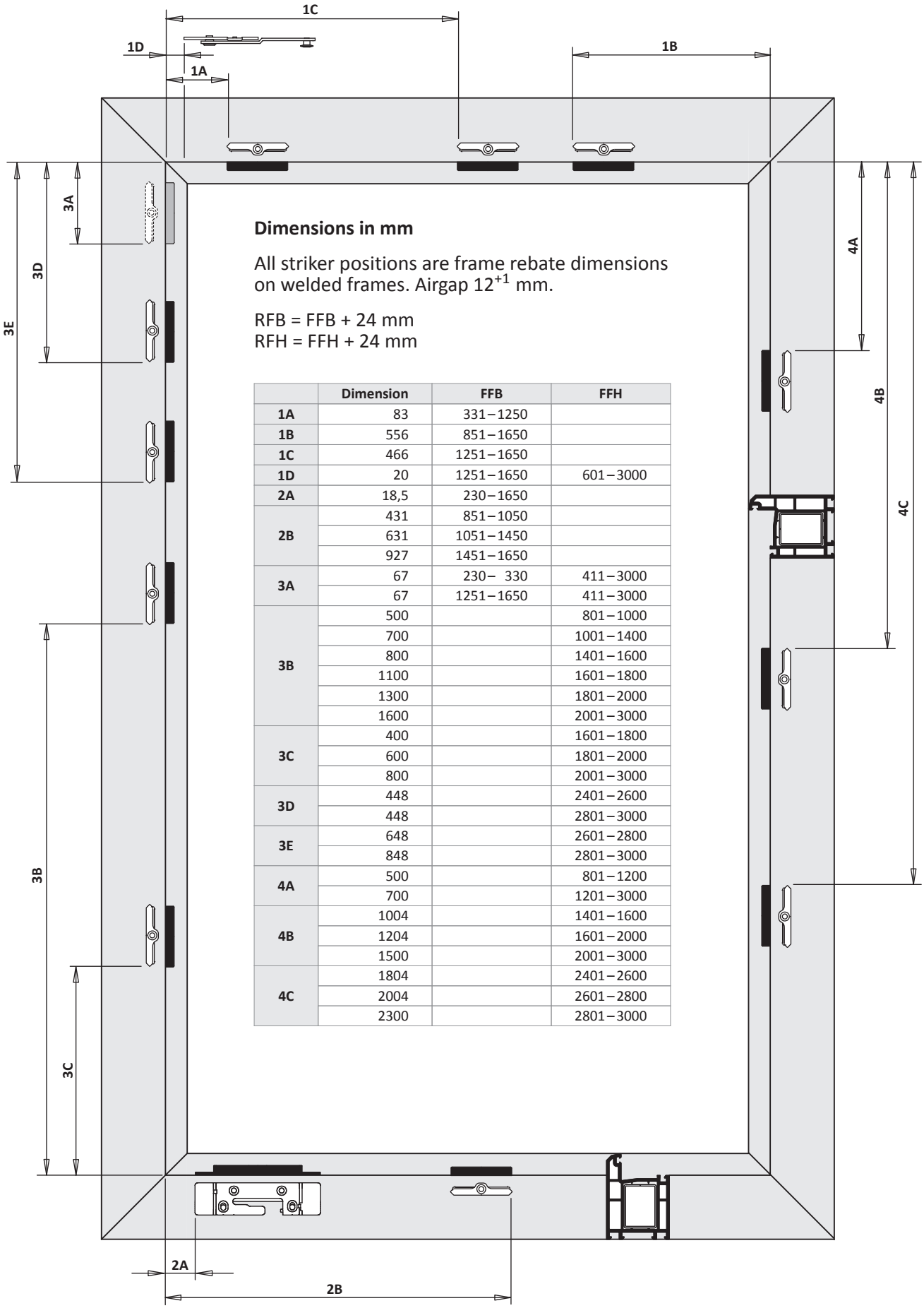
List of fittings

1-sash square tilt before turn (TBT)
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
22	stay hinge DH	Ref. PDB, TBWB61			1	1
23	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
24	top hinge 100kg	Ref. PDB, TBSL61			1	
25	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
26	top hinge pin Poly	TBSB6020-1 ...			1	1
27	top hinge 130kg	Ref. PDB, TBSL62				1
28	bottom hinge 100kg	Ref. PDB, TBEL01			1	
29	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
30	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
31	bottom hinge 130kg	Ref. PDB, TBEL02				1
32	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
33	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
34	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

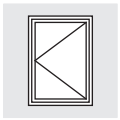
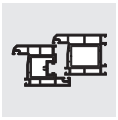
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1250	
1B	556	851–1650	
1C	466	1251–1650	
1D	20	1251–1650	601–3000
2A	18,5	230–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	230– 330	411–3000
	67	1251–1650	411–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions

GS

1-sash square turn

PVC

basic security

fixed handle position

Hinge side TITAN

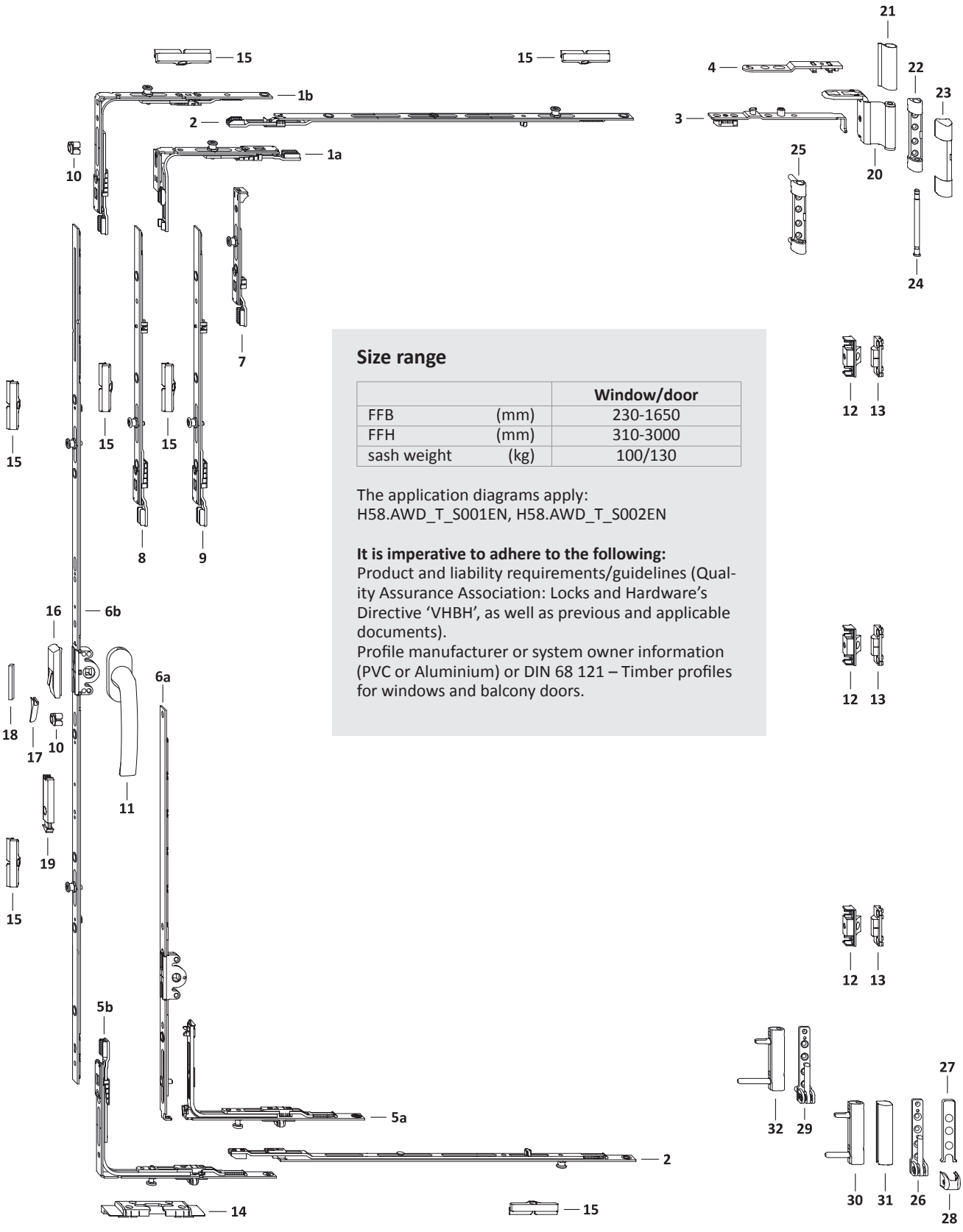
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side turning points	Standard

hardware layout

1-sash square turn
PVC GK Hinge side TITAN



Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

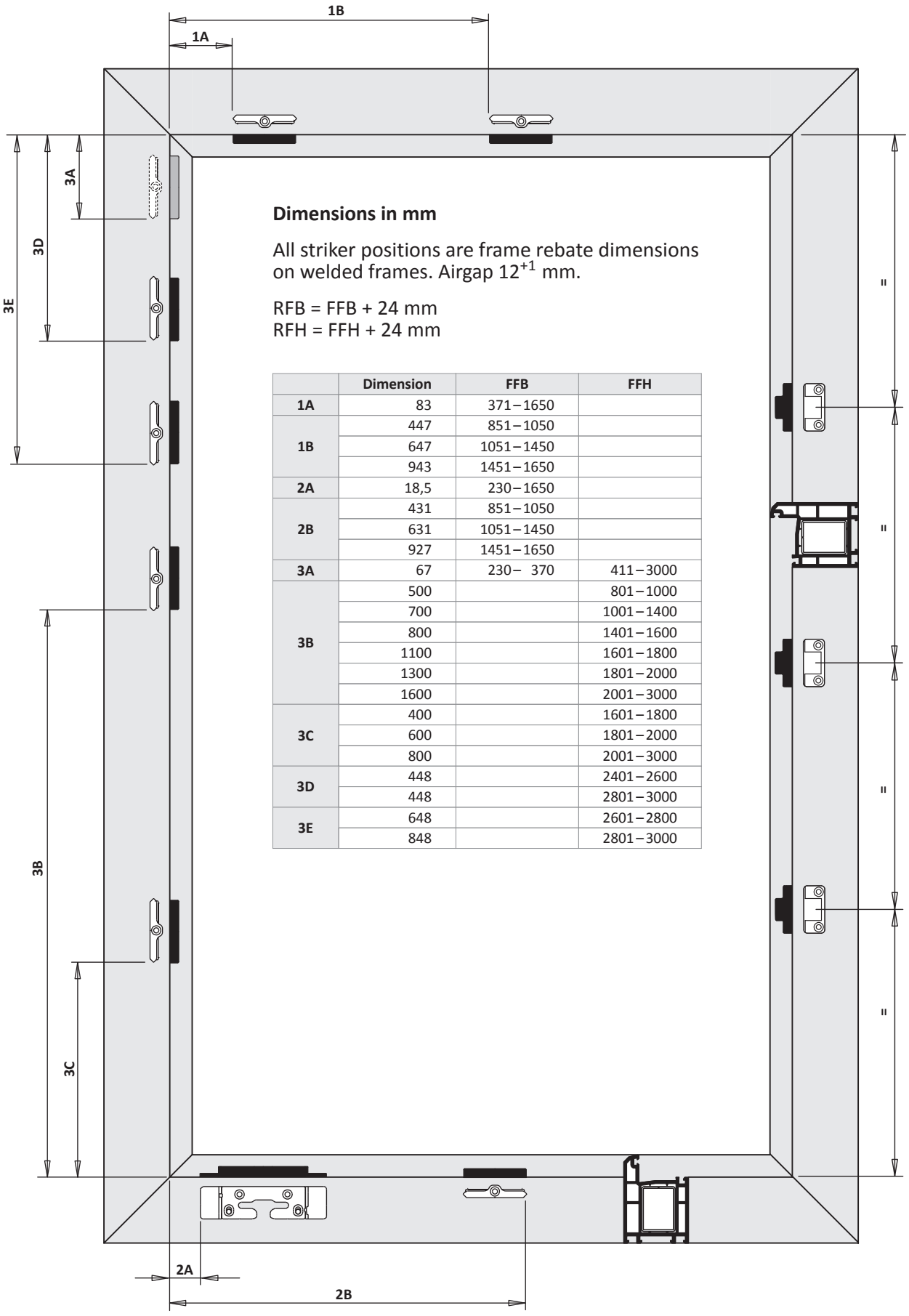
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							14	15
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371– 850	310– 410			1
1b	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	371–1650	411–3000			1
2	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050				2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				2
3	stay sash part DF/MN	TSSD0020- ...	1	230–1650				
4	stay arm DF	TSAD0010- ...	1	230–1650				
5a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	230–1250	411– 600		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		371– 850	310– 410		1	
5b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230–1650	601–3000		1	
6a	gear 15 sz 30/G180	TGKK3010- ...	1	371– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		230–1250	411– 600	180		
6b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		2
7	locking bolt AF VS 180° 1RS	TESC2020- ...	1	230– 370	411–3000			1
8	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			1
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
9	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
10	travel restrictor	TFHB0010- ...	1		310–3000			
11	handle Globe	Ref.access. ZHGS	1		310–3000			
12	sash part MV	Ref. PDB, ZFMV01	1		801–1600			
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400			
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000			
13	frame part MV	Ref. PDB, ZRZM01	1		801–1600			
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400			
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000			
14	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
15	striker plate S 56	Ref. PDB, TRSM						
	on request							
16	mishandling device	TFBS0010- ...	1					
17	pressure piece	Ref. PDB, TFFD	1					
18	stop	Ref. PDB, FRZF01	1					
19	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
20	stay hinge DH	Ref. PDB, TBWB61			1	1
21	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
22	top hinge 100kg	Ref. PDB, TBSL61			1	
23	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
24	top hinge pin Poly	TBSB6020-1 ...			1	1
25	top hinge 130kg	Ref. PDB, TBSL62				1
26	bottom hinge 100kg	Ref. PDB, TBEL01			1	
27	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
28	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
29	bottom hinge 130kg	Ref. PDB, TBEL02				1
30	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
31	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
32	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions

1-sash square turn
PVC GK Hinge side TITAN



Dimensions in mm

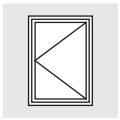
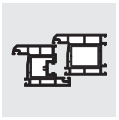
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	371–1650	
1B	447	851–1050	
	647	1051–1450	
	943	1451–1650	
2A	18,5	230–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	230– 370	411–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000

TITAN AF

Installation instructions



GS

1-sash square turn

PVC

basic security

fixed handle position

Hinge side TITAN

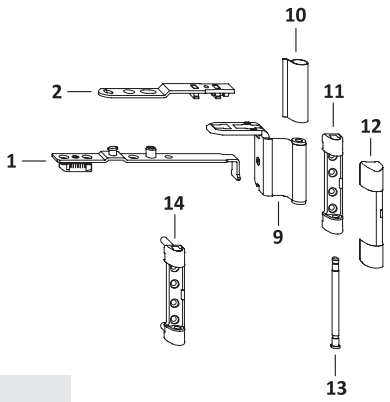
surface TS

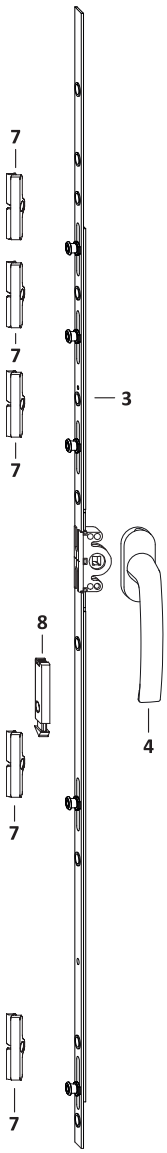
backset 15 mm

Hardware set configuration	
General	Locking-points distance 800; gear DF
Stay side	two-piece stay
Hinge side turning points	Standard

hardware layout

1-sash square turn
PVC GK Hinge side TITAN



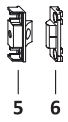


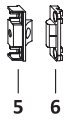
Size range

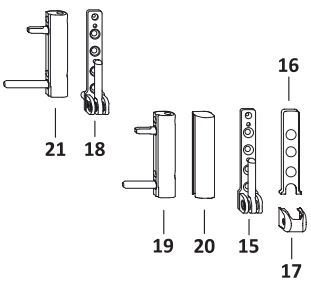
		Window/door
FFB	(mm)	200-800
FFH	(mm)	300-2400
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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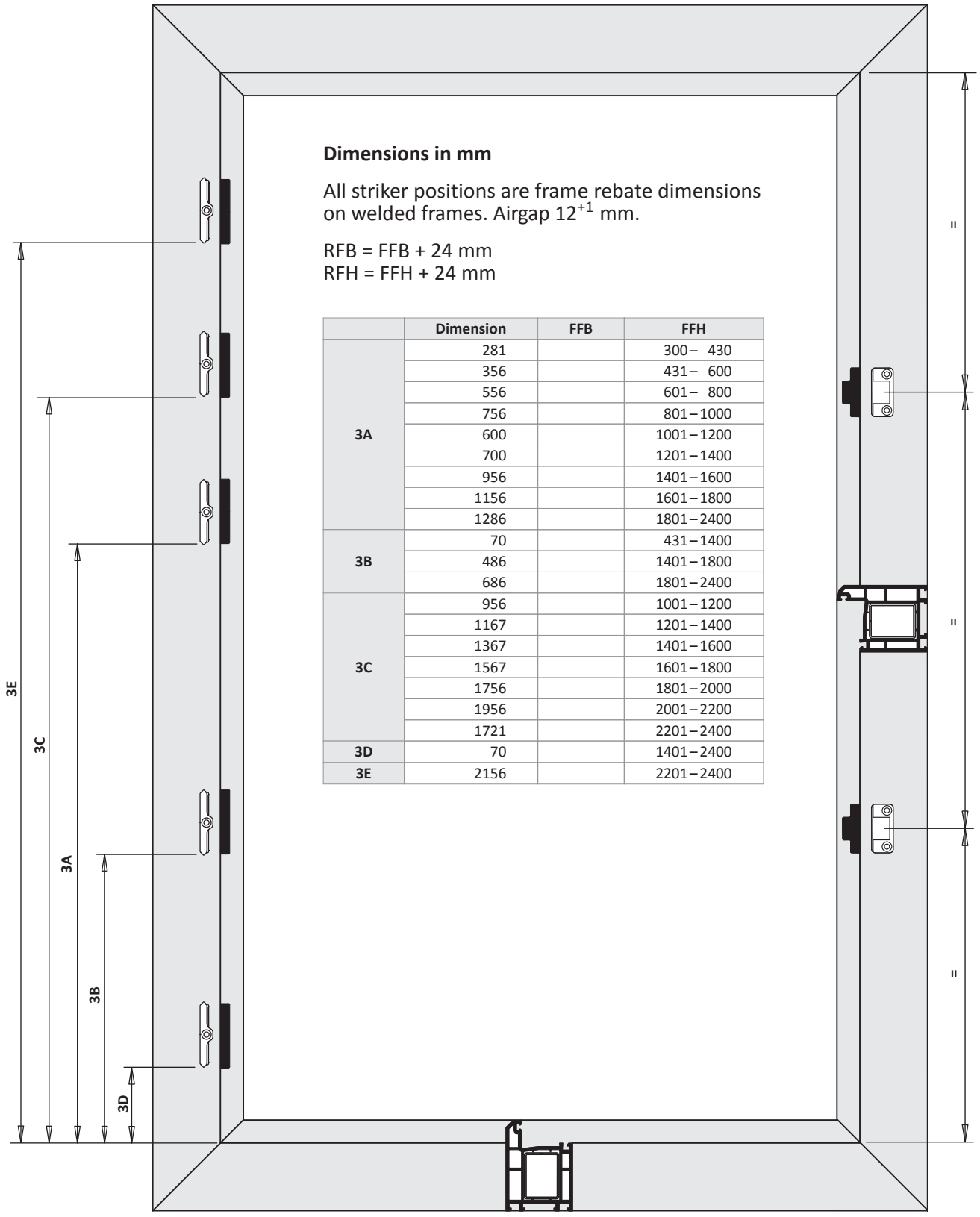


Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							7
1	stay sash part DF/MN	TSSD0020- ...	1	200 – 800			
2	stay arm DF	TSAD0010- ...	1	200 – 800			
3	gear 15 AF/DF sz 30/G180 1RS	TGKD3510- ...	1		300 – 430	180	1
	gear 15 AF/DF sz 40/G180 2RS	TGKD3520- ...			431 – 600	180	2
	gear 15 AF/DF sz 60/G300 2RS	TGKD3530- ...			601 – 800	300	2
	gear 15 AF/DF sz 80/G400 2RS	TGKD3540- ...			801 – 1000	400	2
	gear 15 AF/DF sz 100/G500 3RS	TGKD3550- ...			1001 – 1200	500	3
	gear 15 AF/DF sz 120/G600 3RS	TGKD3560- ...			1201 – 1400	600	3
	gear 15 AF/DF sz 140/G700 4RS	TGKD3570- ...			1401 – 1600	700	4
	gear 15 AF/DF sz 160/G700 4RS	TGKD3580- ...			1601 – 1800	700	4
	gear 15 AF/DF sz 180/G1000 4RS	TGKD3590- ...			1801 – 2000	1000	4
	gear 15 AF/DF sz 200/G1000 4RS	TGKD3600- ...			2001 – 2200	1000	4
	gear 15 AF/DF sz 220/G1000 5RS	TGKD3610- ...			2201 – 2400	1000	5
4	handle Globe	Ref.access. ZHGS	1		300 – 2400		
5	sash part MV	Ref. PDB, ZFMV01	1		801 – 1600		
	sash part MV	Ref. PDB, ZFMV01	2		1601 – 2400		
6	frame part MV	Ref. PDB, ZRZM01	1		801 – 1600		
	frame part MV	Ref. PDB, ZRZM01	2		1601 – 2400		
7	striker plate S 56	Ref. PDB, TRSM					
on request							
8	snapper rh.	TFST0021- ...	1		1801 – 2400		
	snapper lh.	TFST0022- ...			1801 – 2400		

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
9	stay hinge DH	Ref. PDB, TBWB61			1	1
10	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
11	top hinge 100kg	Ref. PDB, TBSL61			1	
12	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
13	top hinge pin Poly	TBSB6020-1 ...			1	1
14	top hinge 130kg	Ref. PDB, TBSL62				1
15	bottom hinge 100kg	Ref. PDB, TBEL01			1	
16	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
17	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
18	bottom hinge 130kg	Ref. PDB, TBEL02				1
19	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
20	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
21	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions

1-sash square turn
PVC GK Hinge side TITAN



Dimensions in mm

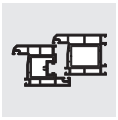
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
3A	281		300 – 430
	356		431 – 600
	556		601 – 800
	756		801 – 1000
	600		1001 – 1200
	700		1201 – 1400
	956		1401 – 1600
	1156		1601 – 1800
	1286		1801 – 2400
3B	70		431 – 1400
	486		1401 – 1800
	686		1801 – 2400
3C	956		1001 – 1200
	1167		1201 – 1400
	1367		1401 – 1600
	1567		1601 – 1800
	1756		1801 – 2000
	1956		2001 – 2200
	1721		2201 – 2400
3D	70		1401 – 2400
3E	2156		2201 – 2400

TITAN AF

Installation instructions

GS

1-sash square tilt-turn

PVC

basic security

fixed handle position

Hinge side TITAN

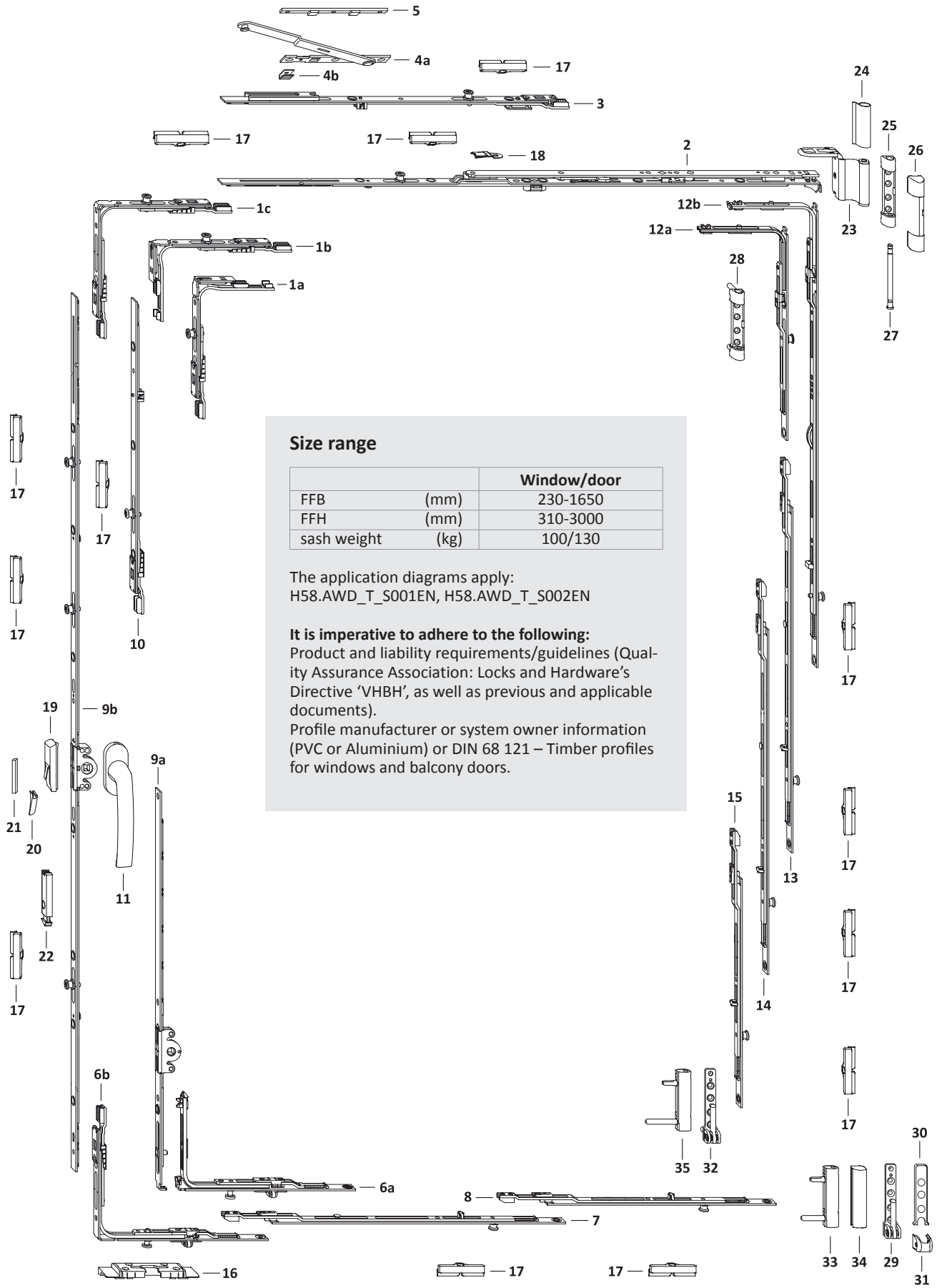
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GK Hinge side TITAN



Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

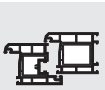
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Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							16	17
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230 – 330	411 – 3000			1
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	331 – 850	310 – 410			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331 – 1650	411 – 3000			1
2	stay AF sz 0	TSKK2000- ...	1	230 – 450				
	stay AF sz 1	TSKK2010- ...		451 – 680				
	stay AF sz 2	TSKK2020- ...		681 – 750				
	stay AF sz 2 1RS	TSKK2120- ...		751 – 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251 – 1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451 – 1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650				1
4	additional stay	Ref. PDB, TSZS	1	1251 – 1650				
5	packer Z	Ref. PDB, FRUP01	1	1251 – 1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	230 – 1250	411 – 600		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		331 – 850	310 – 410		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230 – 1650	601 – 3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751 – 1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251 – 1650				1
9a	gear 15 sz 30/G180	TGKK3010- ...	1	331 – 850	310 – 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		230 – 1250	411 – 600	180		
9b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601 – 700	300		
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701 – 800	300		1
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801 – 1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001 – 1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201 – 1400	600		1
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401 – 1600	700		2
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601 – 1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801 – 2000	1000		2
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001 – 2200	1000		3
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201 – 3000	1000		3
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401 – 2600			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601 – 2800			1
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801 – 3000			1
11	handle Globe	Ref.access. ZHGS	1		310 – 3000			
12a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601 – 800			1
12b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801 – 1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201 – 3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601 – 3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001 – 2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401 – 2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601 – 3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801 – 3000			1
16	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
17	striker plate S 56	Ref. PDB, TRSM						
on request								
18	tilt restrictor ..	TFKB0010- ...	1		310 – 800			
19	mishandling device	TFBS0010- ...	1					
20	pressure piece	Ref. PDB, TFFD	1					
21	stop	Ref. PDB, FRZF01	1					
22	snapper rh.	TFST0021- ...	1		1801 – 3000			
	snapper lh.	TFST0022- ...			1801 – 3000			

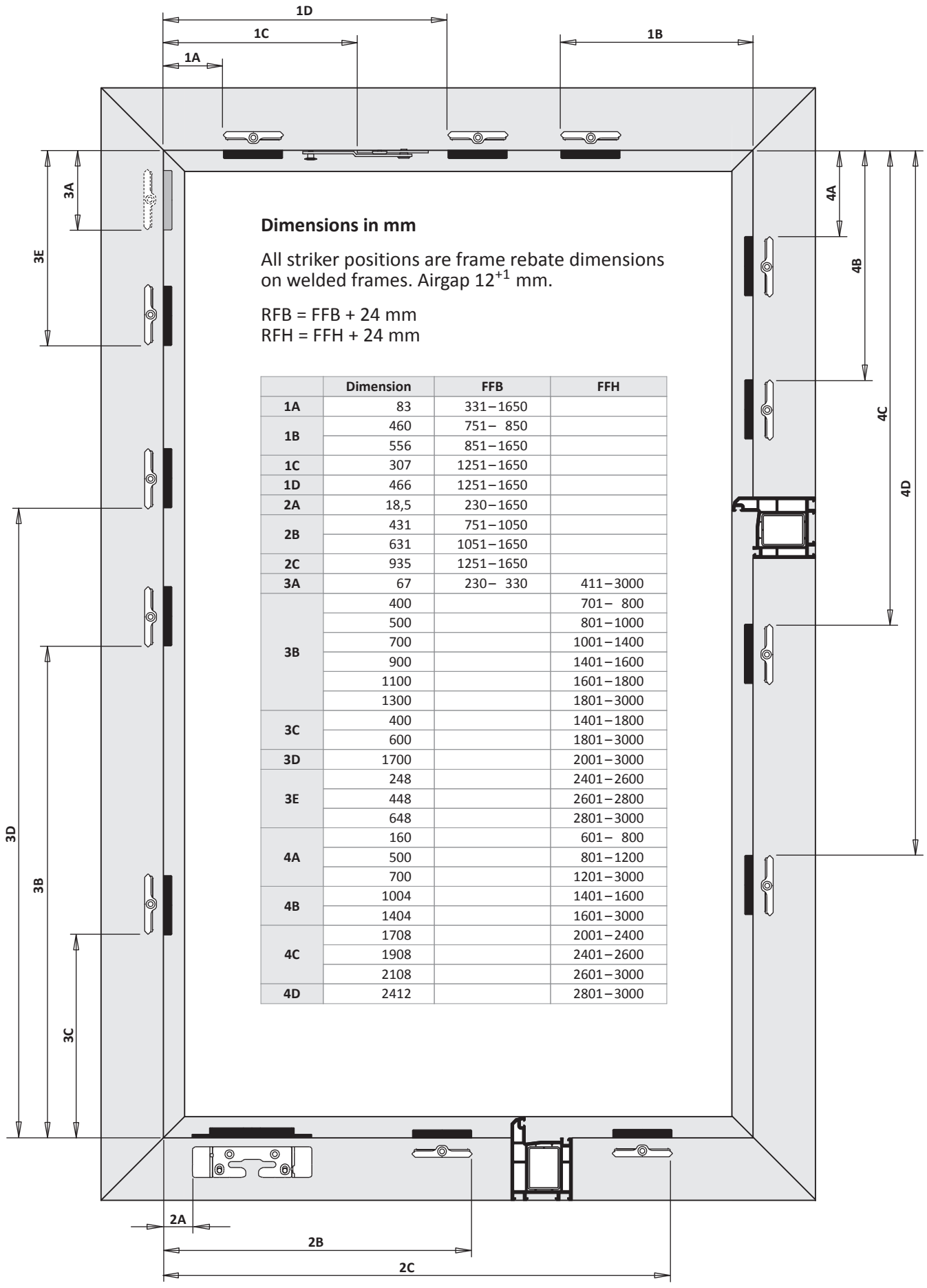
List of fittings

1-sash square tilt-turn
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
23	stay hinge DH	Ref. PDB, TBWB61			1	1
24	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
25	top hinge 100kg	Ref. PDB, TBSL61			1	
26	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
27	top hinge pin Poly	TBSB6020-1 ...			1	1
28	top hinge 130kg	Ref. PDB, TBSL62				1
29	bottom hinge 100kg	Ref. PDB, TBEL01			1	
30	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
31	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
32	bottom hinge 130kg	Ref. PDB, TBEL02				1
33	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
34	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
35	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

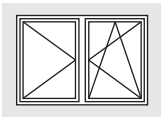
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	230–1650	
2B	431	751–1050	
	631	1051–1650	
2C	935	1251–1650	
3A	67	230– 330	411–3000
3B	400		701– 800
	500		801–1000
	700		1001–1400
	900		1401–1600
	1100		1601–1800
	1300		1801–3000
3C	400		1401–1800
	600		1801–3000
3D	1700		2001–3000
3E	248		2401–2600
	448		2601–2800
	648		2801–3000
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

fixed handle position

Hinge side TITAN

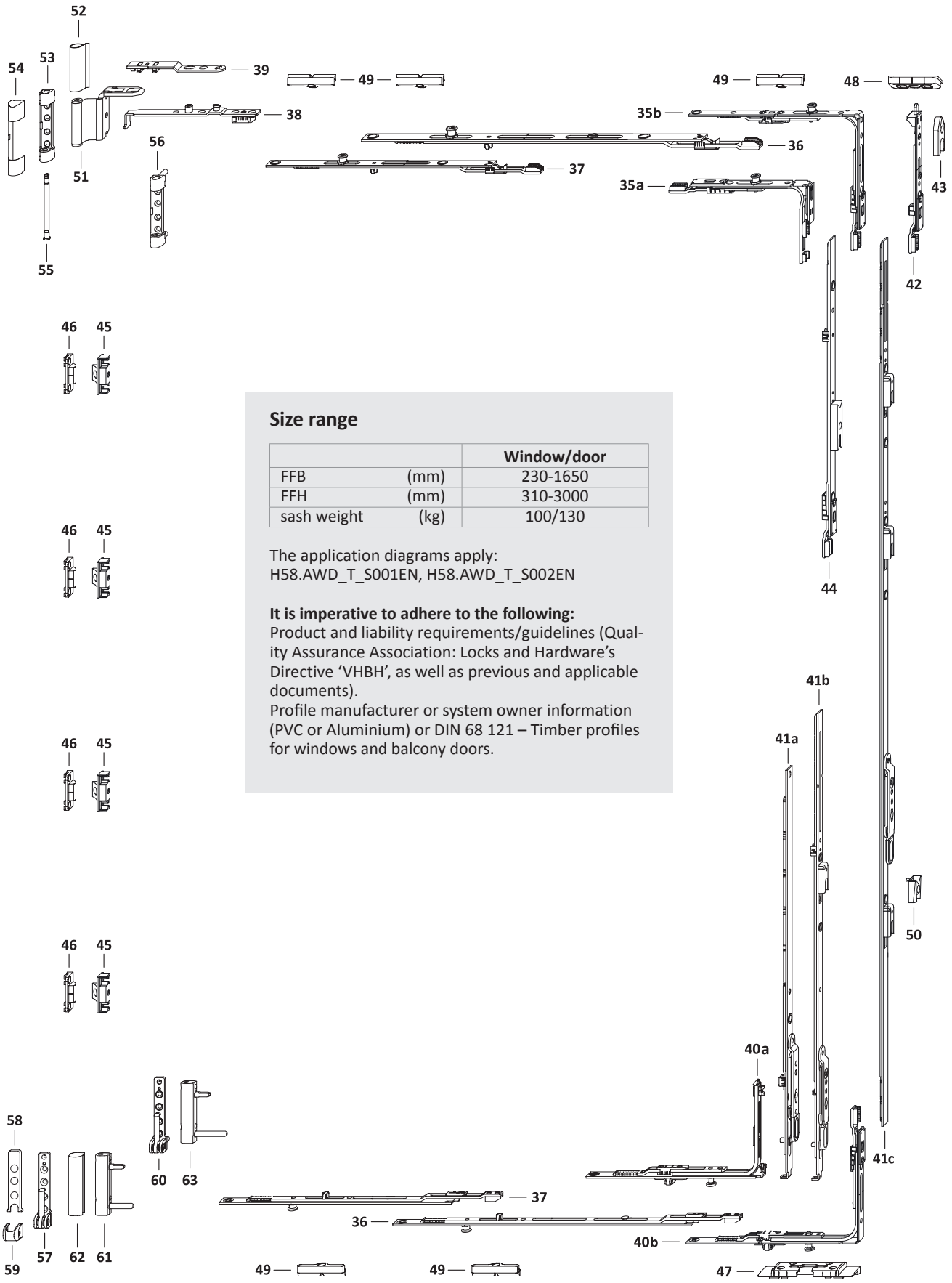
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

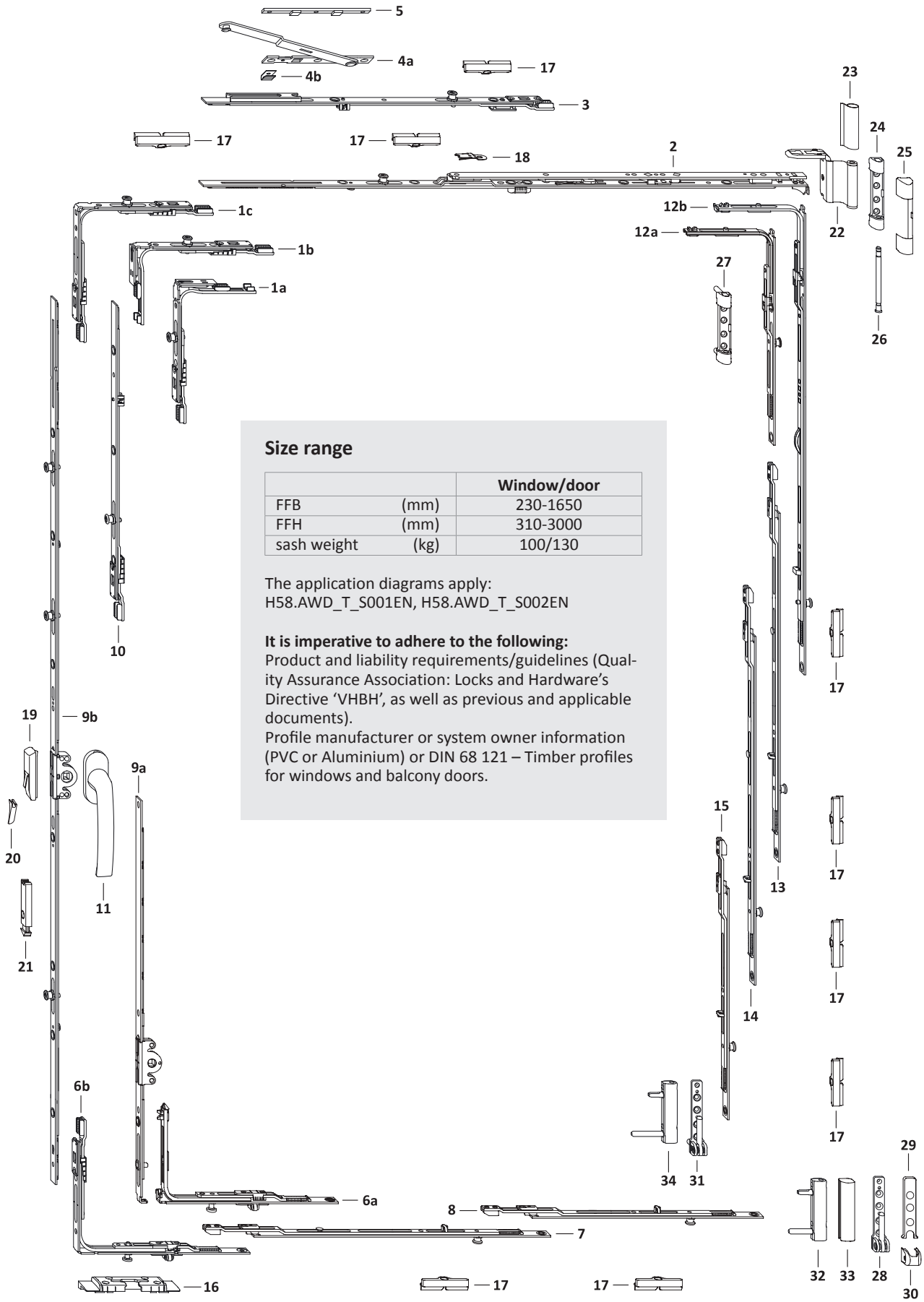


Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

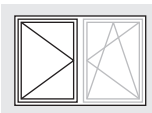
		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

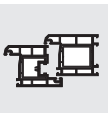
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
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List of fittings slave sash

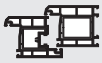
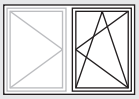
2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	47	48	49
35a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371– 850	310– 410				1
35b	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	371–1650	411–3000				1
36	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	751–1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650					2
37	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	1251–1650					2
38	stay sash part DF/MN	TSSD0020- ...	1	230–1650					
39	stay arm DF	TSAD0010- ...	1	230–1650					
40a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	230–1650	411– 800		1		
	locking part VSU/K FH+ 1S	TEVR1400- ...		371– 850	310– 410		1		
40b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230–1650	801–3000		1		
41a	sec.sash gear 16 sz 30	TGKS0010- ...	1	371– 850	310– 410	180			
	sec.sash gear 16 sz 30	TGKS0010- ...		230–1250	411– 600	180			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300			
41b	sec.sash gear 16 AF70/G300 1SB	TGKS4040- ...	1		701– 800	300			
41c	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400			
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500			
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600			
	sec.sash gear 16 AF140/G700 2S 70	TGKS4290- ...			1401–1600	700			
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700			
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000			
	sec.sash gear 16 AF200/G1000 3 70	TGKS4280- ...			2001–2200	1000			
	sec.sash gear 16 AF220/G1000 3 70	TGKS4320- ...			2201–3000	1000			
42	locking bolt AF VSO RSA 11	TESC2030- ...	1	230– 370	411–3000			1	
43	striker plate A0767	TRSA0010- ...	1	230– 330	411–3000				
44	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2600				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2601–2800				
	linkage AF sz 3 1SB-RS	TZKS1080- ...			2801–3000				
45	sash part MV	Ref. PDB, ZFMV01	1		601–1400				
	sash part MV	Ref. PDB, ZFMV01	2		1401–2100				
	sash part MV	Ref. PDB, ZFMV01	3		2101–2800				
	sash part MV	Ref. PDB, ZFMV01	4		2801–3000				
46	frame part MV	Ref. PDB, ZRZM01	1		601–1400				
	frame part MV	Ref. PDB, ZRZM01	2		1401–2100				
	frame part MV	Ref. PDB, ZRZM01	3		2101–2800				
	frame part MV	Ref. PDB, ZRZM01	4		2801–3000				
47	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
48	striker V	Ref. PDB, FRZV01							
49	striker plate S 56	Ref. PDB, TRSM							
on request									
50	striker snapper AF A0767	TRST0100- ...	1		1801–3000				

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
51	stay hinge DH	Ref. PDB, TBWB61			1	1
52	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
53	top hinge 100kg	Ref. PDB, TBSL61			1	
54	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
55	top hinge pin Poly	TBSB6020-1 ...			1	1
56	top hinge 130kg	Ref. PDB, TBSL62				1
57	bottom hinge 100kg	Ref. PDB, TBEL01			1	
58	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
59	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
60	bottom hinge 130kg	Ref. PDB, TBEL02				1
61	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
62	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
63	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16

PVC GK Hinge side TITAN

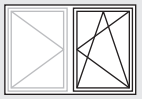
TITAN AF

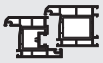
GS

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							16	17
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230 – 330	411 – 3000			
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371 – 850	310 – 410			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331 – 1650	411 – 3000			1
2	stay AF sz 0	TSKK2000- ...	1	230 – 450				
	stay AF sz 1	TSKK2010- ...		451 – 680				
	stay AF sz 2	TSKK2020- ...		681 – 750				
	stay AF sz 2 1RS	TSKK2120- ...		751 – 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251 – 1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451 – 1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650				1
4	additional stay	Ref. PDB, TSZS	1	1251 – 1650				
5	packer Z	Ref. PDB, FRUP01	1	1251 – 1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	230 – 1250	411 – 600		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		371 – 850	310 – 410		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230 – 1650	601 – 3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751 – 1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251 – 1650				1
9a	gear 15 sz 30/G180	TGKK3010- ...	1	371 – 850	310 – 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		230 – 1250	411 – 600	180		
9b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601 – 700	300		
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701 – 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801 – 1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001 – 1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201 – 1400	600		
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401 – 1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601 – 1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801 – 2000	1000		
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001 – 2200	1000		
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201 – 3000	1000		
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401 – 2600			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601 – 2800			
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801 – 3000			
11	handle Globe	Ref.access. ZHGS	1		310 – 3000			
12a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601 – 800			1
12b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801 – 1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201 – 3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601 – 3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001 – 2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401 – 2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601 – 3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801 – 3000			1
16	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
17	striker plate S 56	Ref. PDB, TRSM						
on request								
18	tilt restrictor ..	TFKB0010- ...	1		310 – 800			
19	mishandling device	TFBS0010- ...	1		601 – 3000			
20	pressure piece	Ref. PDB, TFFD	1		601 – 3000			
21	snapper rh.	TFST0021- ...	1		1801 – 3000			
	snapper lh.	TFST0022- ...			1801 – 3000			

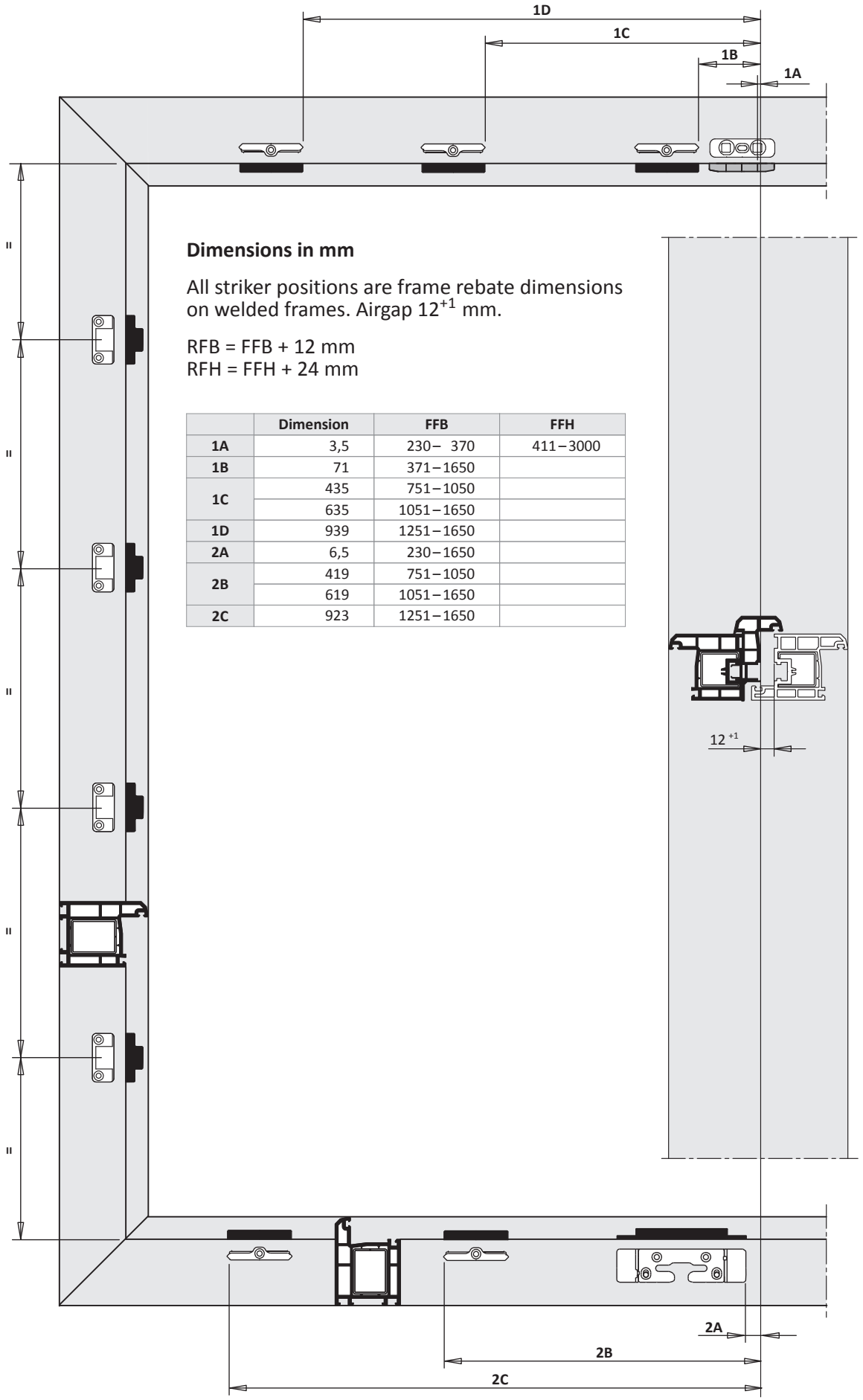
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
22	stay hinge DH	Ref. PDB, TBWB61			1	1
23	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
24	top hinge 100kg	Ref. PDB, TBSL61			1	
25	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
26	top hinge pin Poly	TBSB6020-1 ...			1	1
27	top hinge 130kg	Ref. PDB, TBSL62				1
28	bottom hinge 100kg	Ref. PDB, TBEL01			1	
29	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
30	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
31	bottom hinge 130kg	Ref. PDB, TBEL02				1
32	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
33	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
34	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

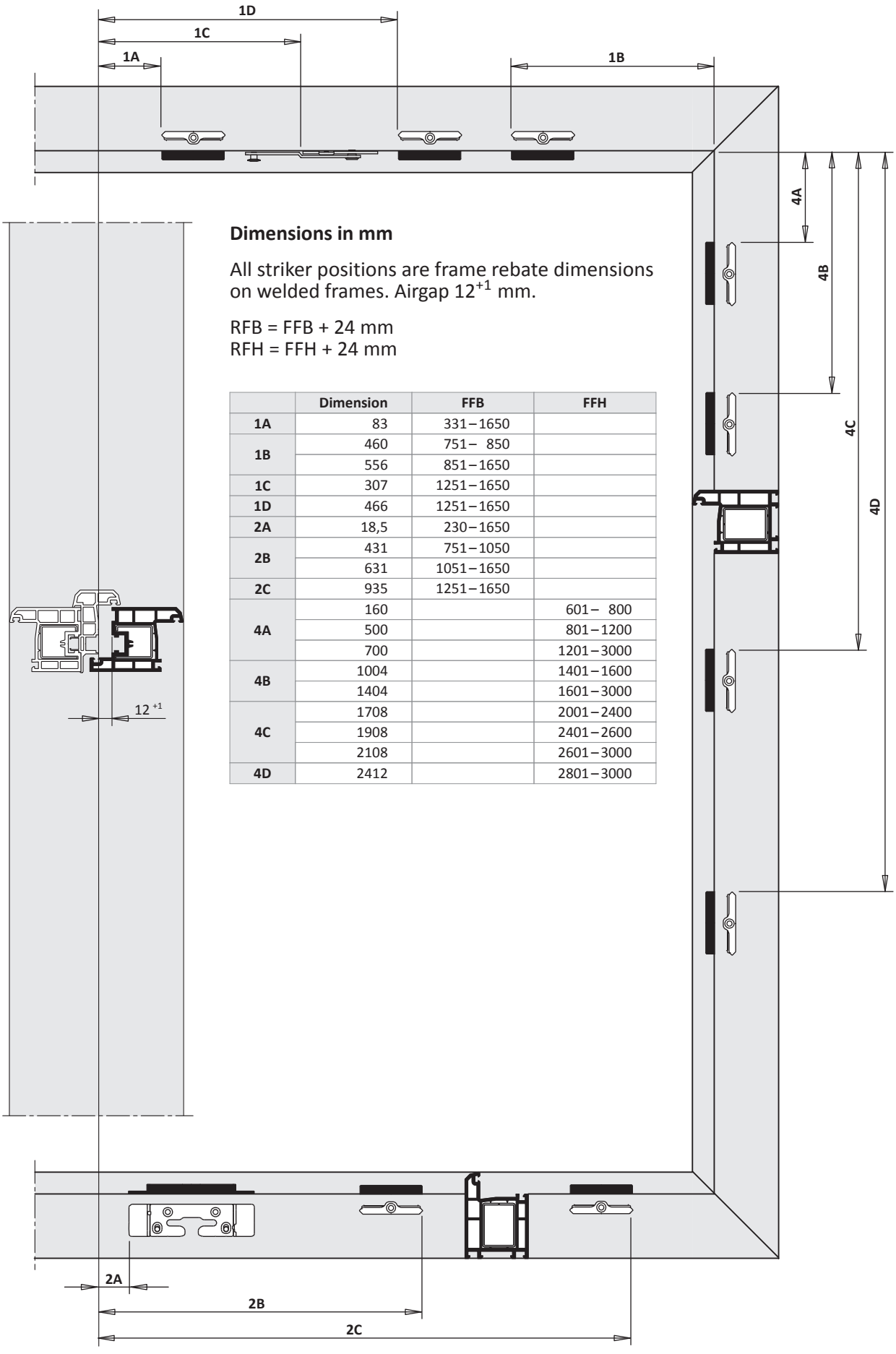
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	230– 370	411–3000
1B	71	371–1650	
1C	435	751–1050	
	635	1051–1650	
1D	939	1251–1650	
2A	6,5	230–1650	
2B	419	751–1050	
	619	1051–1650	
2C	923	1251–1650	

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



Dimensions in mm

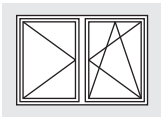
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	230–1650	
2B	431	751–1050	
	631	1051–1650	
2C	935	1251–1650	
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

fixed handle position

Hinge side TITAN

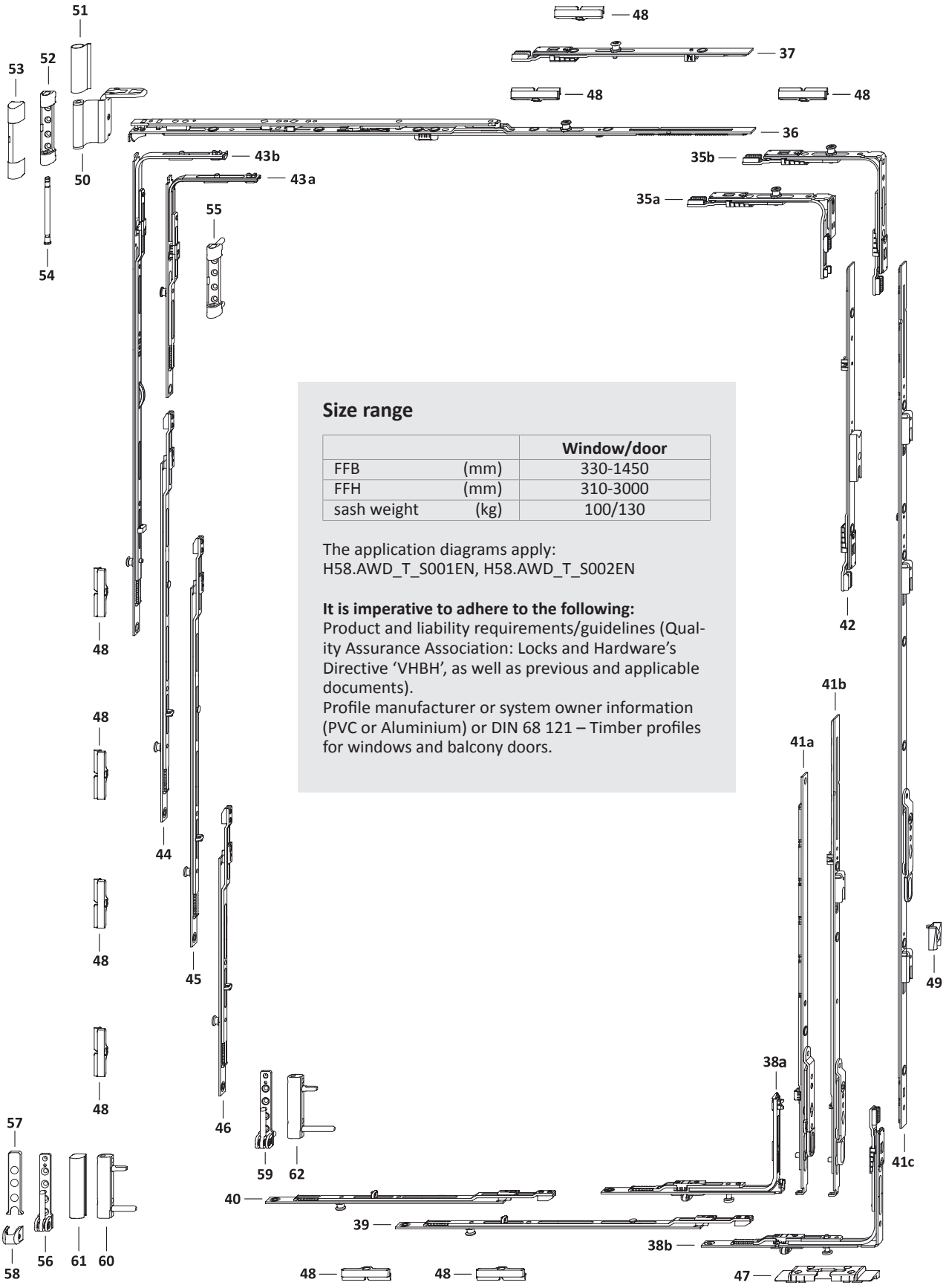
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700; secondary sash with DK-stay
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

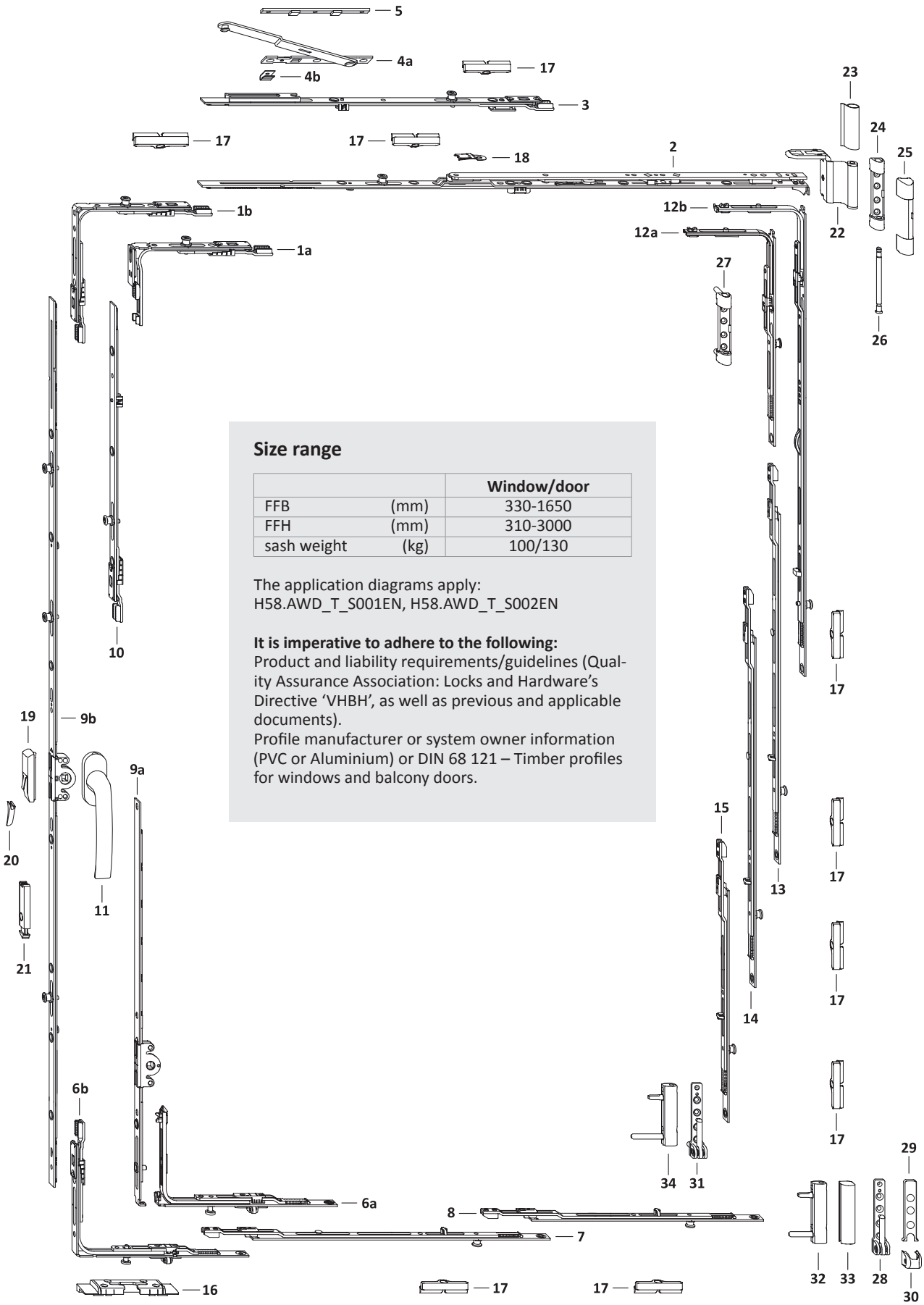


Size range

		Window/door
FFB	(mm)	330-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

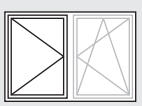
		Window/door
FFB	(mm)	330-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

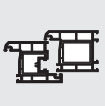
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





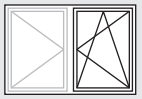
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	47	48
35a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	330– 850	310– 410			1
35b	corn.drive VSO 1RS	TEUL4010- ...	1	330–1450	411–3000			1
36	stay AF sz 0	TSKK2000- ...	1	330– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1
37	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
38a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	330–1450	411– 800		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		330– 850	310– 410		1	
38b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	330–1450	801–3000		1	
39	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
40	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1450				1
41a	sec.sash gear 16 sz 30	TGKS0010- ...	1	330– 850	310– 410	180		
	sec.sash gear 16 sz 30	TGKS0010- ...		330–1250	411– 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300		
41b	sec.sash gear 16 AF70/G300 1SB	TGKS4040- ...	1		701– 800	300		
41c	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600		
	sec.sash gear 16 AF140/G700 2S 70	TGKS4290- ...			1401–1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000		
	sec.sash gear 16 AF200/G1000 3 70	TGKS4280- ...			2001–2200	1000		
	sec.sash gear 16 AF220/G1000 3 70	TGKS4320- ...			2201–3000	1000		
42	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2600			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2601–2800			
	linkage AF sz 3 1SB-RS	TZKS1080- ...			2801–3000			
43a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
43b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
45	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
46	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
47	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
48	striker plate S 56	Ref. PDB, TRSM						
on request								
49	striker snapper AF A0767	TRST0100- ...	1		1801–3000			

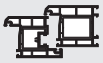
Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
50	stay hinge DH	Ref. PDB, TBWB61			1	1
51	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
52	top hinge 100kg	Ref. PDB, TBSL61			1	
53	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
54	top hinge pin Poly	TBSB6020-1 ...			1	1
55	top hinge 130kg	Ref. PDB, TBSL62				1
56	bottom hinge 100kg	Ref. PDB, TBEL01			1	
57	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
58	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
59	bottom hinge 130kg	Ref. PDB, TBEL02				1
60	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
61	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
62	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							16	17
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	330– 850	310– 410			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	330–1650	411–3000			1
2	stay AF sz 0	TSKK2000- ...	1	330– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	330–1250	411– 600		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		330– 850	310– 410		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	330–1650	601–3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
9a	gear 15 sz 30/G180	TGKK3010- ...	1	330– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		330–1250	411– 600	180		
	gear 15 AF sz 60/G300	TGKK4030- ...			601– 800	300		
9b	gear 15 AF sz 70/G300 1RS	TGKK4040- ...	1		701– 800	300		
9c	gear 15 AF sz 80/G400 1RS	TGKK4050- ...	1		801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000		
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000		
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800			
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000			
11	handle Globe	Ref.access. ZHGS	1		310–3000			
12a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
12b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
16	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
17	striker plate S 56	Ref. PDB, TRSM						
on request								
18	tilt restrictor ..	TFKB0010- ...	1		310– 800			
19	mishandling device	TFBS0010- ...	1		601–3000			
20	pressure piece	Ref. PDB, TFFD	1		601–3000			
21	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

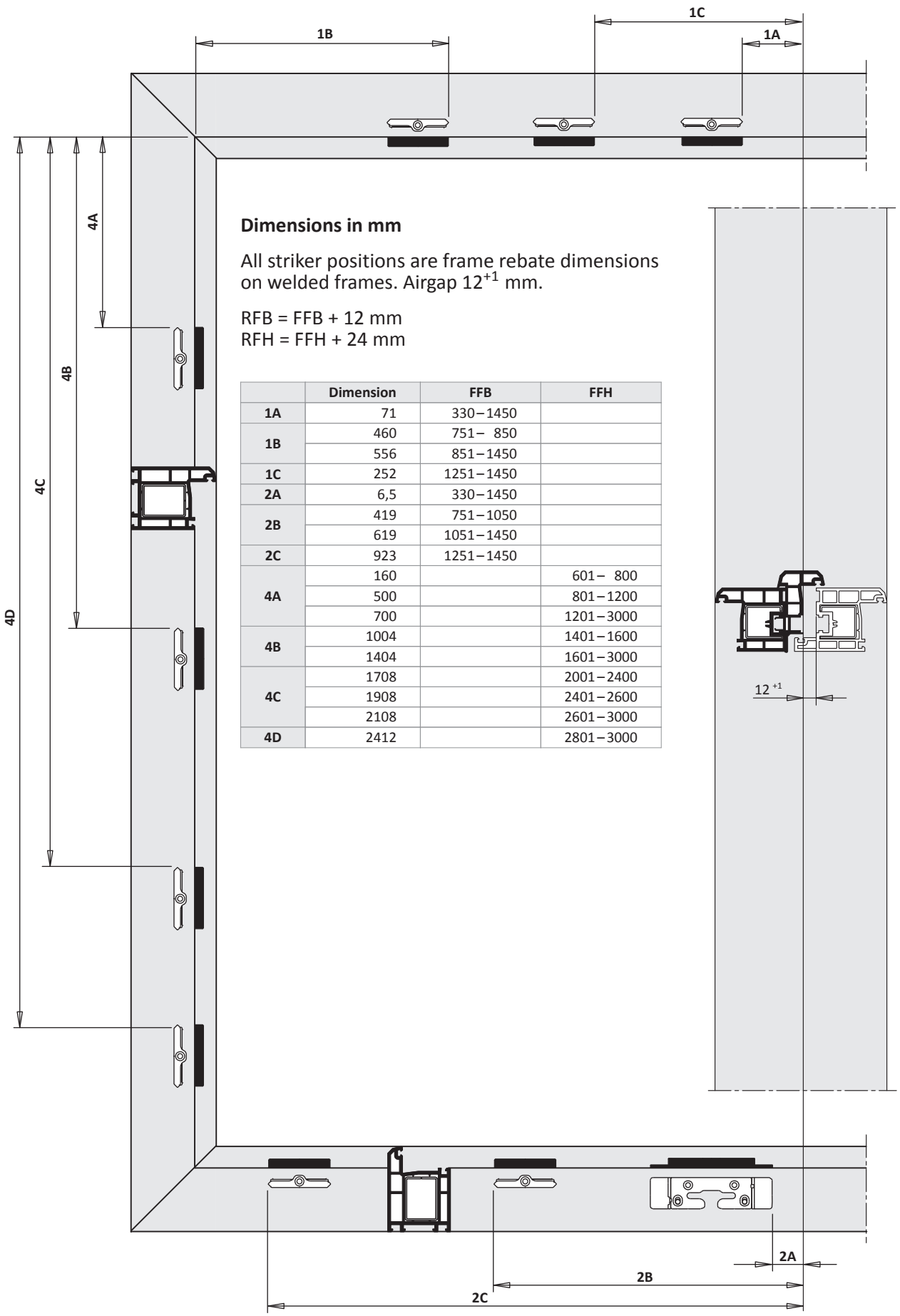
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
22	stay hinge DH	Ref. PDB, TBWB61			1	1
23	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
24	top hinge 100kg	Ref. PDB, TBSL61			1	
25	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
26	top hinge pin Poly	TBSB6020-1 ...			1	1
27	top hinge 130kg	Ref. PDB, TBSL62				1
28	bottom hinge 100kg	Ref. PDB, TBEL01			1	
29	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
30	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
31	bottom hinge 130kg	Ref. PDB, TBEL02				1
32	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
33	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
34	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

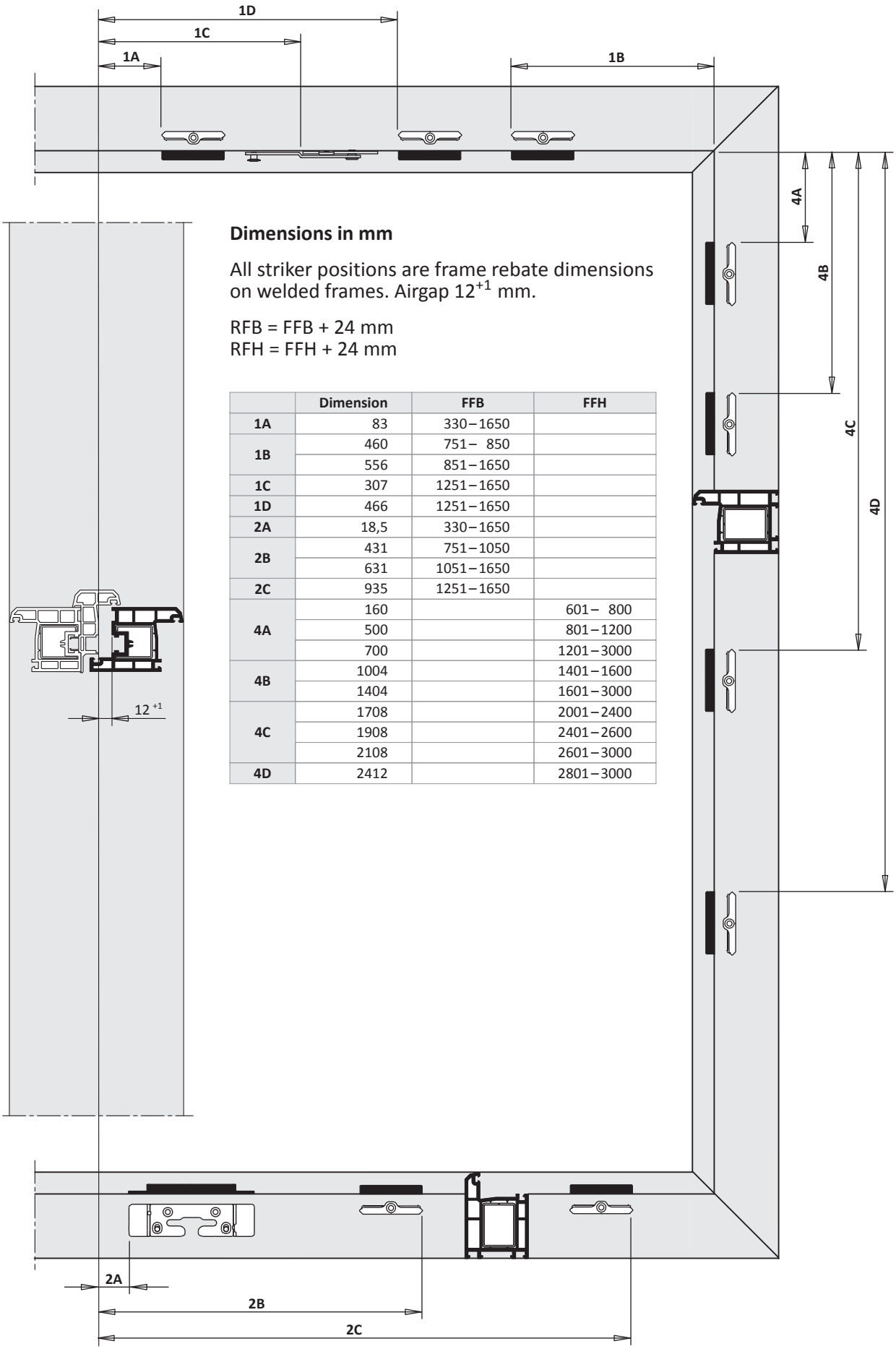
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	330–1450	
1B	460	751– 850	
	556	851–1450	
1C	252	1251–1450	
2A	6,5	330–1450	
2B	419	751–1050	
	619	1051–1450	
2C	923	1251–1450	
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



Dimensions in mm

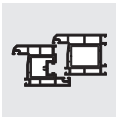
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	330–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	330–1650	
2B	431	751–1050	
	631	1051–1650	
2C	935	1251–1650	
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

TITAN AF

Installation instructions

GS

1-sash square tilt-turn

PVC

basic security

fixed handle position

Hinge side TITAN

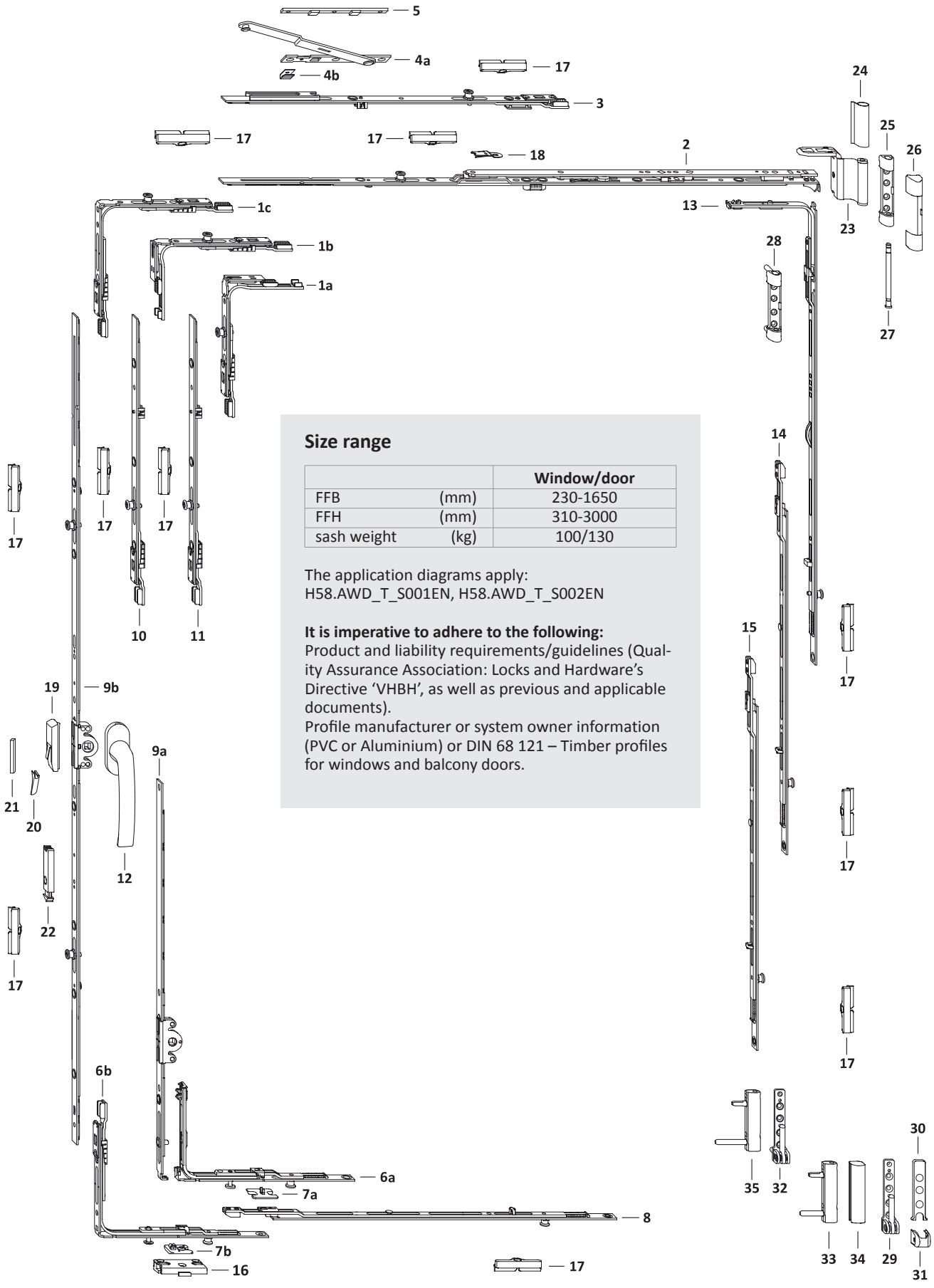
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GK Hinge side TITAN



Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

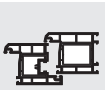
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							16	17
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230 – 330	411 – 3000			1
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	331 – 850	310 – 410			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331 – 1650	411 – 3000			1
2	stay AF sz 0	TSKK2000- ...	1	230 – 450				
	stay AF sz 1	TSKK2010- ...		451 – 680				
	stay AF sz 2	TSKK2020- ...		681 – 850				
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251 – 1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451 – 1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650				1
4	additional stay	Ref. PDB, TSZS	1	1251 – 1650				
5	packer Z	Ref. PDB, FRUP01	1	1251 – 1650				
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	230 – 1250	411 – 600		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		331 – 850	310 – 410		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	230 – 1650	601 – 3000		1	
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	230 – 1250	411 – 600			
	run-up plate FH KRL56	Ref. PDB, TRAL01		331 – 850	310 – 410			
7b	run up block AF 13 mm 13	TFFH0080- ...	1	230 – 1650	601 – 3000			
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650				1
9a	gear 15 sz 30/G180	TGKK3010- ...	1	331 – 850	310 – 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		230 – 1250	411 – 600	180		
9b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601 – 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801 – 1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001 – 1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201 – 1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401 – 1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601 – 1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801 – 2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001 – 3000	1000		2
10	linkage AF sz 1	TZZS0150- ...	1		2201 – 2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401 – 2600			1
	linkage AF sz 1	TZZS0150- ...			2601 – 2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000			1
11	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601 – 2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000			1
12	handle Globe	Ref.access. ZHGS	1		310 – 3000			
13	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801 – 1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201 – 3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000			1
16	striker plate S-RS	Ref. PDB, TRSK						
17	striker plate S 56	Ref. PDB, TRSM						
on request								
18	tilt restrictor ..	TFKB0010- ...	1		310 – 800			
19	mishandling device	TFBS0010- ...	1					
20	pressure piece	Ref. PDB, TFFD	1					
21	stop	Ref. PDB, FRZF01	1					
22	snapper rh.	TFST0021- ...	1		1801 – 3000			
	snapper lh.	TFST0022- ...			1801 – 3000			

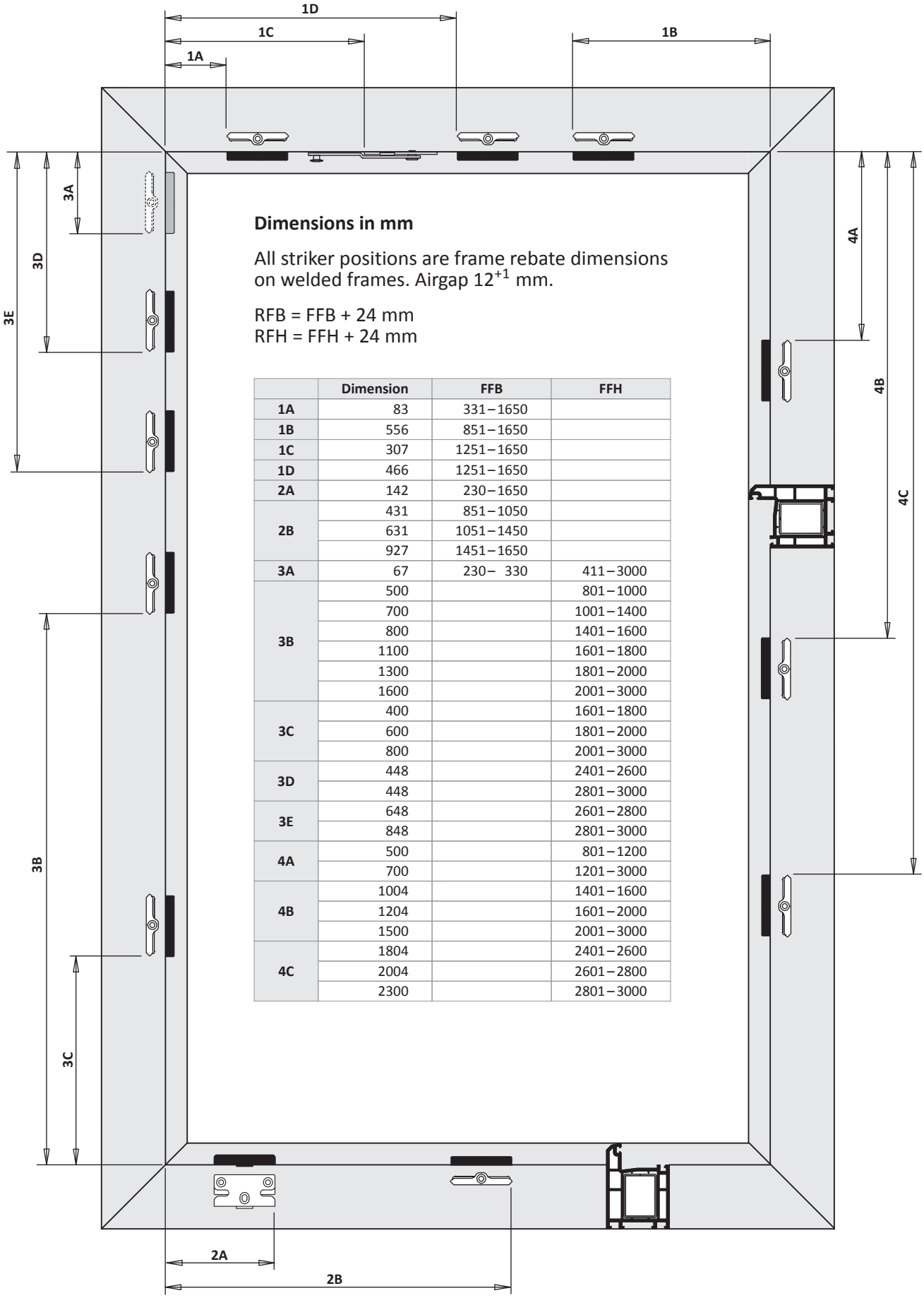
List of fittings

1-sash square tilt-turn
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
23	stay hinge DH	Ref. PDB, TBWB61			1	1
24	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
25	top hinge 100kg	Ref. PDB, TBSL61			1	
26	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
27	top hinge pin Poly	TBSB6020-1 ...			1	1
28	top hinge 130kg	Ref. PDB, TBSL62				1
29	bottom hinge 100kg	Ref. PDB, TBEL01			1	
30	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
31	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
32	bottom hinge 130kg	Ref. PDB, TBEL02				1
33	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
34	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
35	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

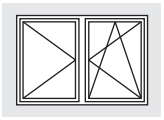
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	230–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	230– 330	411–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

fixed handle position

Hinge side TITAN

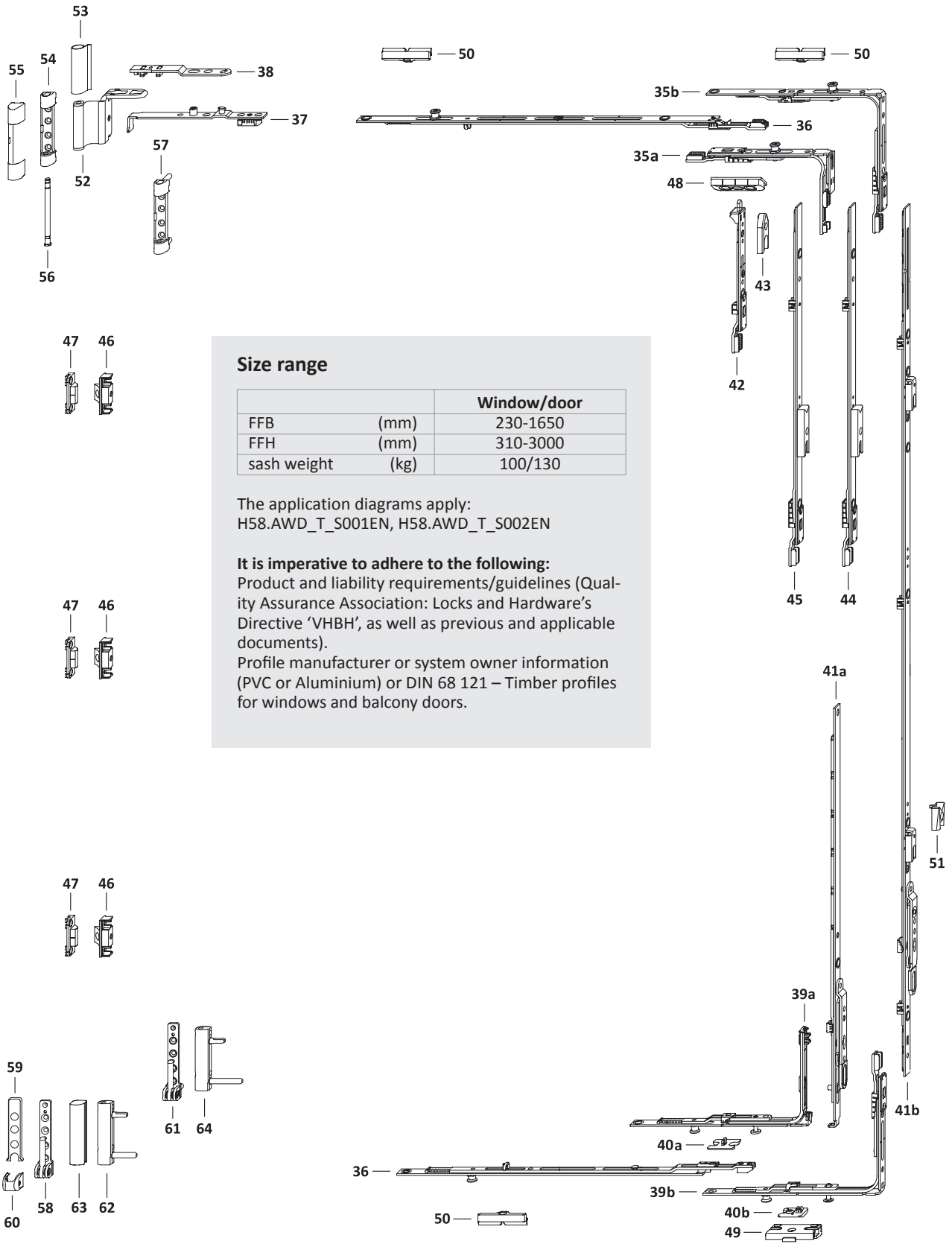
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

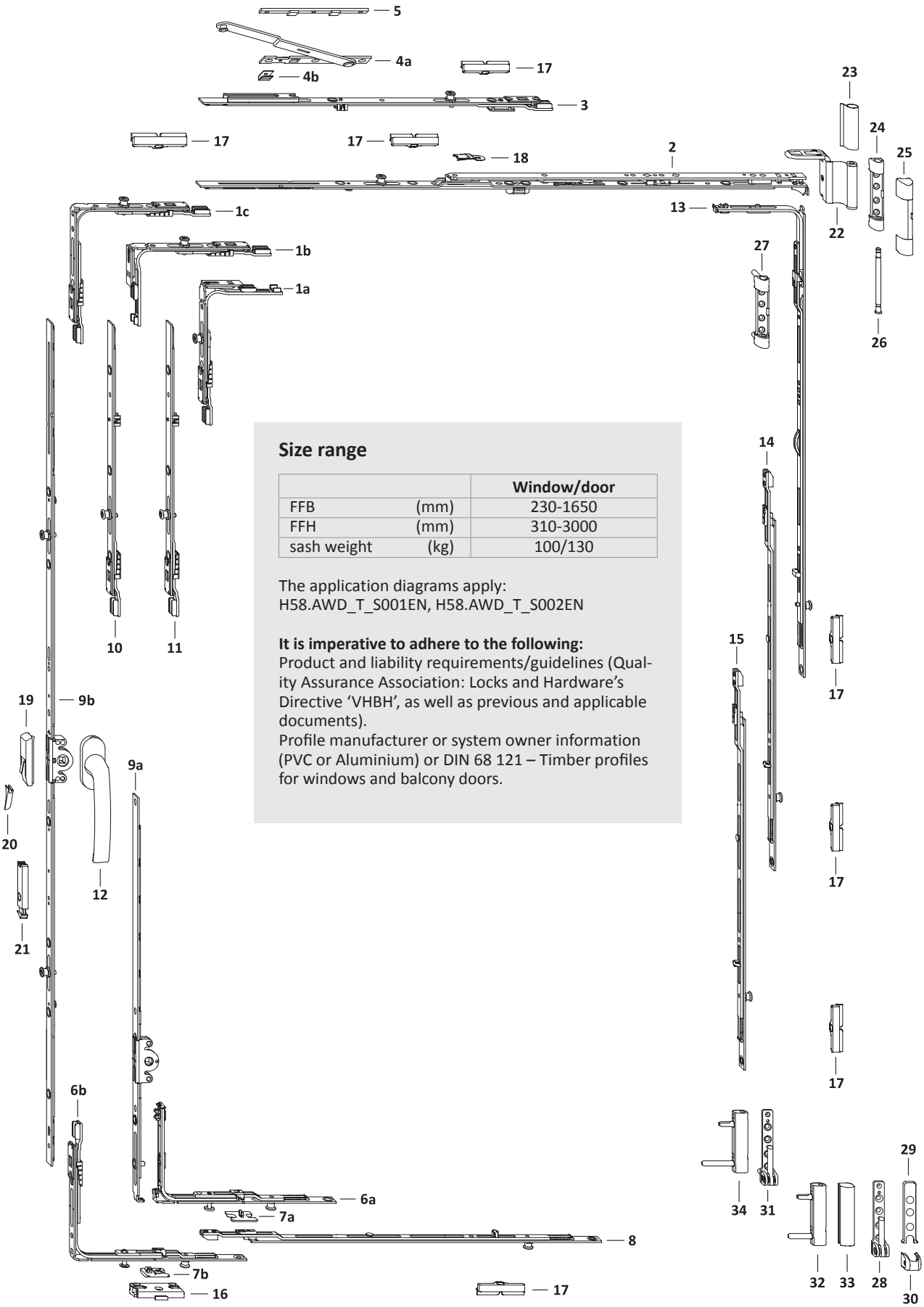


Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

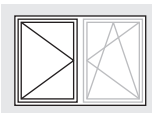
		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

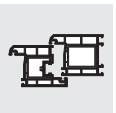
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

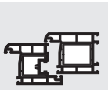
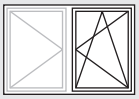
2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	48	49	50
35a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371– 850	310– 410				1
35b	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	371–1650	411–3000				1
36	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					2
37	stay sash part DF/MN	TSSD0020- ...	1	230–1650					
38	stay arm DF	TSAD0010- ...	1	230–1650					
39a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	230–1650	411– 800			1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		371– 850	310– 410			1	
39b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	230–1650	801–3000			1	
40a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	230–1650	411– 800				
	run-up plate FH KRL56	Ref. PDB, TRAL01		371– 850	310– 410				
40b	run up block AF 13 mm 13	TFFH0080- ...	1	230–1650	801–3000				
41a	sec.sash gear 16 sz 30	TGKS0010- ...	1	371– 850	310– 410	180			
	sec.sash gear 16 sz 30	TGKS0010- ...		230–1250	411– 600	180			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300			
41b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400			
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500			
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600			
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700			
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700			
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000			
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000			
42	locking bolt AF VSO RSA 11	TESC2030- ...	1	230– 370	411–3000		1		
43	striker plate A0767	TRSA0010- ...	1	230– 370	411–3000				
44	linkage AF sz 1	TZZS0150- ...	1		2201–2400				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600				
	linkage AF sz 1	TZZS0150- ...			2601–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
45	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
46	sash part MV	Ref. PDB, ZFMV01	1		801–1600				
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400				
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000				
47	frame part MV	Ref. PDB, ZRZM01	1		801–1600				
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400				
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000				
48	striker V	Ref. PDB, FRZV01							
49	striker plate S-RS	Ref. PDB, TRSK							
50	striker plate S 56	Ref. PDB, TRSM							
on request									
51	striker snapper AF A0767	TRST0100- ...	1		1801–3000				

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
52	stay hinge DH	Ref. PDB, TBWB61			1	1
53	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
54	top hinge 100kg	Ref. PDB, TBSL61			1	
55	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
56	top hinge pin Poly	TBSB6020-1 ...			1	1
57	top hinge 130kg	Ref. PDB, TBSL62				1
58	bottom hinge 100kg	Ref. PDB, TBEL01			1	
59	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
60	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
61	bottom hinge 130kg	Ref. PDB, TBEL02				1
62	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
63	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
64	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

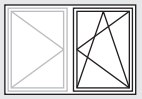
TITAN AF

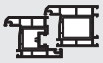
GS

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							16	17
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230 – 330	411 – 3000			
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371 – 850	310 – 410			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331 – 1650	411 – 3000			1
2	stay AF sz 0	TSKK2000- ...	1	230 – 450				
	stay AF sz 1	TSKK2010- ...		451 – 680				
	stay AF sz 2	TSKK2020- ...		681 – 850				
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251 – 1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451 – 1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650				1
4	additional stay	Ref. PDB, TSZS	1	1251 – 1650				
5	packer Z	Ref. PDB, FRUP01	1	1251 – 1650				
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	230 – 1250	411 – 600		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		371 – 850	310 – 410		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	230 – 1650	601 – 3000		1	
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	230 – 1250	411 – 600			
	run-up plate FH KRL56	Ref. PDB, TRAL01		371 – 850	310 – 410			
7b	run up block AF 13 mm 13	TFFH0080- ...	1	230 – 1650	601 – 3000			
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650				1
9a	gear 15 sz 30/G180	TGKK3010- ...	1	371 – 850	310 – 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		230 – 1250	411 – 600	180		
9b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601 – 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801 – 1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001 – 1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201 – 1400	600		
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401 – 1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601 – 1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801 – 2000	1000		
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001 – 3000	1000		
10	linkage AF sz 1	TZZS0150- ...	1		2201 – 2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401 – 2600			
	linkage AF sz 1	TZZS0150- ...			2601 – 2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000			
11	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601 – 2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000			
12	handle Globe	Ref.access. ZHGS	1		310 – 3000			
13	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801 – 1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201 – 3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000			1
16	striker plate S-RS	Ref. PDB, TRSK						
17	striker plate S 56	Ref. PDB, TRSM						
on request								
18	tilt restrictor ..	TFKB0010- ...	1		310 – 800			
19	mishandling device	TFBS0010- ...	1		601 – 3000			
20	pressure piece	Ref. PDB, TFFD	1		601 – 3000			
21	snapper rh.	TFST0021- ...	1		1801 – 3000			
	snapper lh.	TFST0022- ...			1801 – 3000			

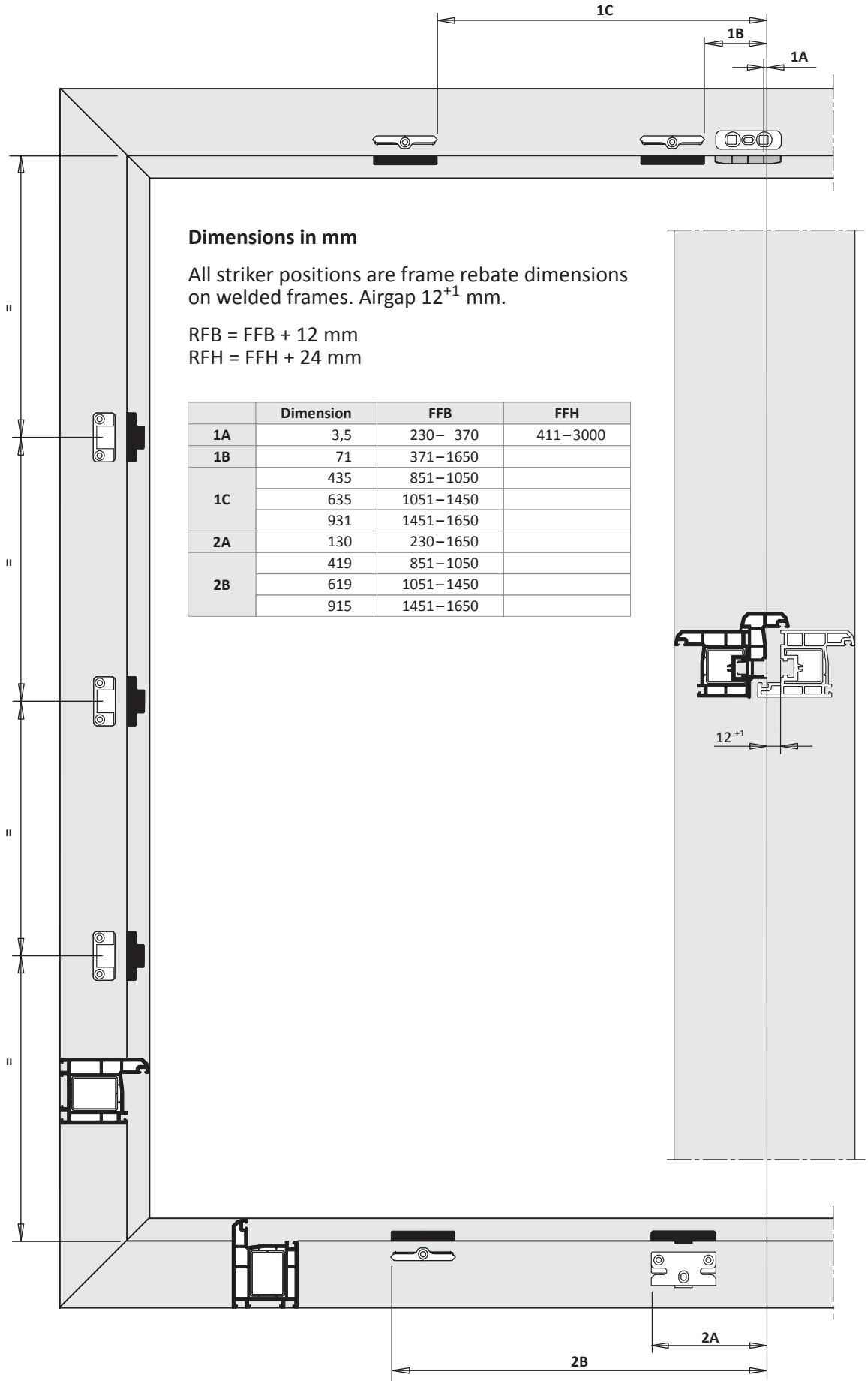
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
22	stay hinge DH	Ref. PDB, TBWB61			1	1
23	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
24	top hinge 100kg	Ref. PDB, TBSL61			1	
25	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
26	top hinge pin Poly	TBSB6020-1 ...			1	1
27	top hinge 130kg	Ref. PDB, TBSL62				1
28	bottom hinge 100kg	Ref. PDB, TBEL01			1	
29	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
30	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
31	bottom hinge 130kg	Ref. PDB, TBEL02				1
32	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
33	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
34	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

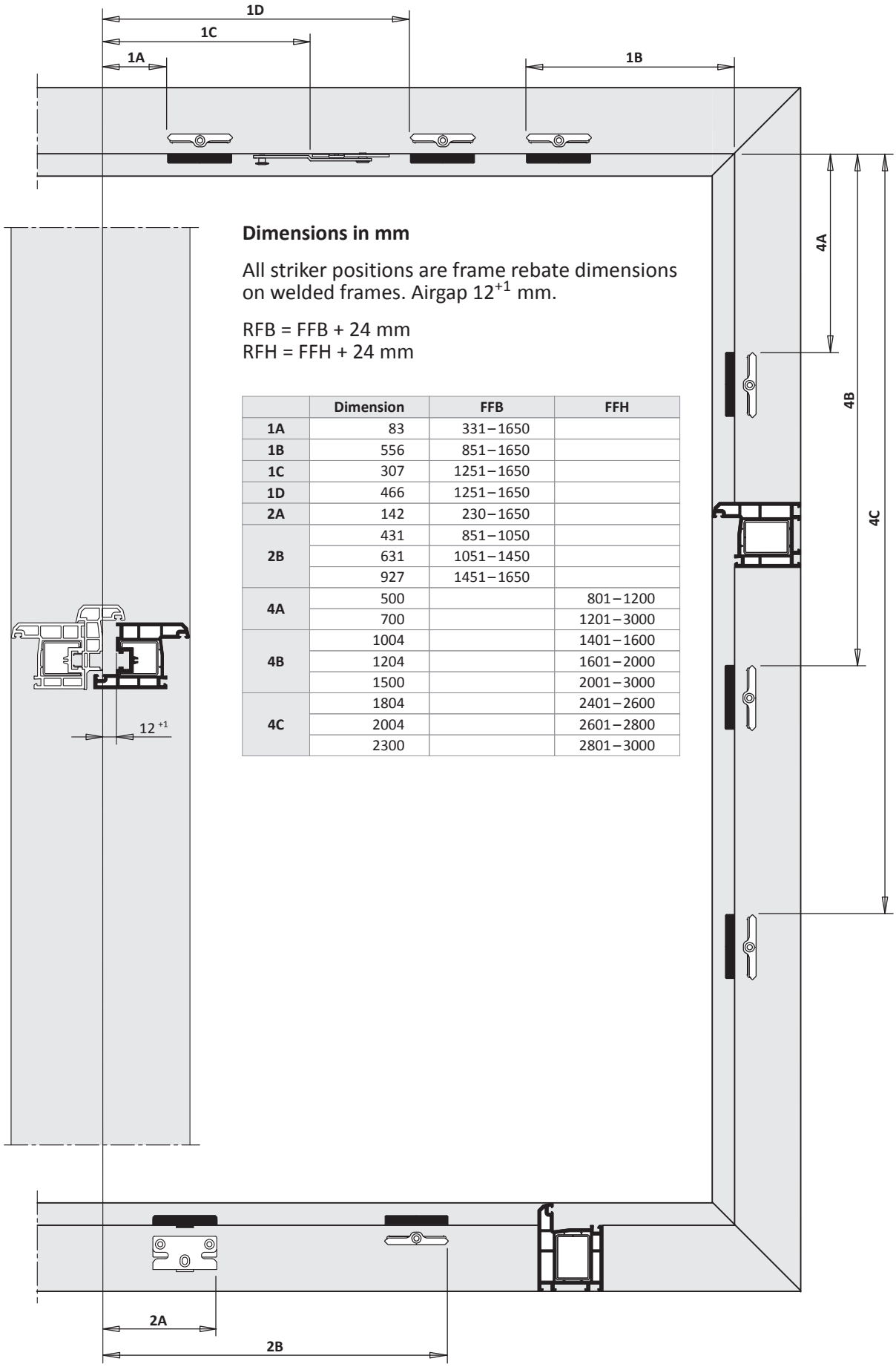
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	230– 370	411–3000
1B	71	371–1650	
1C	435	851–1050	
	635	1051–1450	
	931	1451–1650	
2A	130	230–1650	
2B	419	851–1050	
	619	1051–1450	
	915	1451–1650	

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



Dimensions in mm

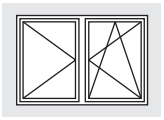
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	230–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

fixed handle position

Hinge side TITAN

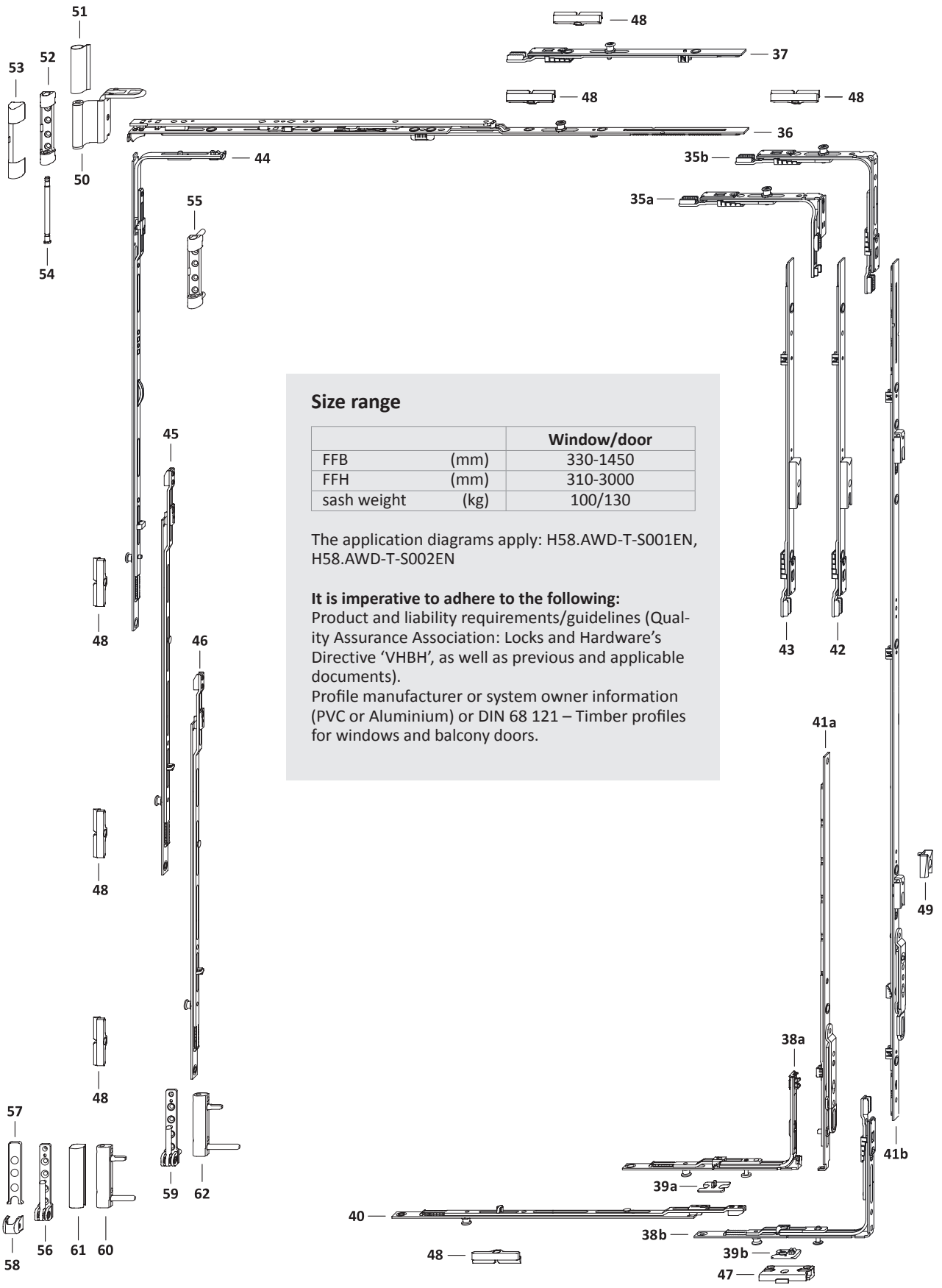
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800; secondary sash with DK-stay
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

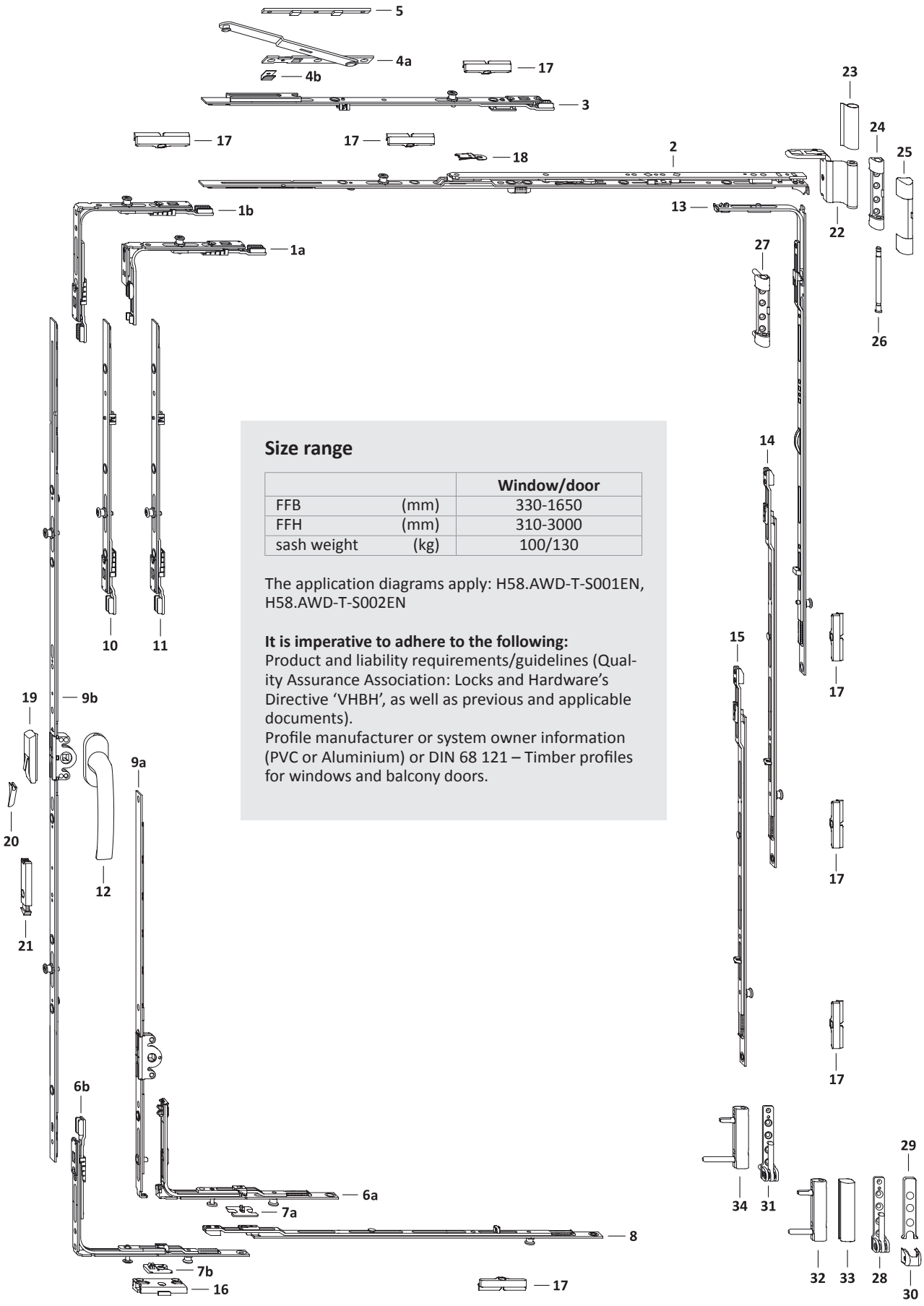


Size range

		Window/door
FFB	(mm)	330-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply: H58.AWD-T-S001EN, H58.AWD-T-S002EN

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Size range

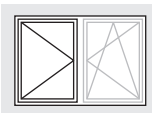
		Window/door
FFB	(mm)	330-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

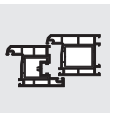
The application diagrams apply: H58.AWD-T-S001EN, H58.AWD-T-S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

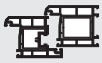
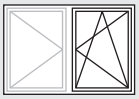
2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	47	48
35a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	330– 850	310– 410			1
35b	corn.drive VSO 1RS	TEUL4010- ...	1	330–1450	411–3000			1
36	stay AF sz 0	TSKK2000- ...	1	330– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1
37	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
38a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	330–1450	411– 800		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		330– 850	310– 410		1	
38b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	330–1450	801–3000		1	
39a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	330–1450	411– 800			
	run-up plate FH KRL56	Ref. PDB, TRAL01		330– 850	310– 410			
39b	run up plate AF 13 mm 13	TFFH0080- ...	1	330–1450	801–3000			
40	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
41a	sec.sash gear 16 sz 30	TGKS0010- ...	1	330– 850	310– 410	180		
	sec.sash gear 16 sz 30	TGKS0010- ...		330–1250	411– 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300		
41b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600		
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000		
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000		
42	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
43	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
44	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
45	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
46	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
47	striker plate S-RS	Ref. PDB, TRSK						
48	striker plate S 56	Ref. PDB, TRSM						
on request								
49	striker snapper AF A0767	TRST0100- ...	1		1801–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
50	stay hinge DH	Ref. PDB, TBWB61			1	1
51	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
52	top hinge 100kg	Ref. PDB, TBSL61			1	
53	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
54	top hinge pin Poly	TBSB6020-1 ...			1	1
55	top hinge 130kg	Ref. PDB, TBSL62				1
56	bottom hinge 100kg	Ref. PDB, TBEL01			1	
57	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
58	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
59	bottom hinge 130kg	Ref. PDB, TBEL02				1
60	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
61	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
62	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16

PVC GK Hinge side TITAN

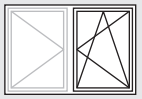
TITAN AF

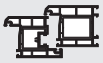
GS

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							16	17
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	330– 850	310– 410			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	330–1650	411–3000			1
2	stay AF sz 0	TSKK2000- ...	1	330– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	330–1250	411– 600		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		330– 850	310– 410		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	330–1650	601–3000		1	
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	330–1250	411– 600			
	run-up plate FH KRL56	Ref. PDB, TRAL01		330– 850	310– 410			
7b	run up plate AF 13 mm 13	TFFH0080- ...	1	330–1650	601–3000			
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
9a	gear 15 sz 30/G180	TGKK3010- ...	1	330– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		330–1250	411– 600	180		
9b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		
	gear 15 AF sz 160/G700 2RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		
10	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
11	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
12	handle Globe	Ref.access. ZHGS	1		310–3000			
13	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
16	striker plate S-RS	Ref. PDB, TRSK						
17	striker plate S 56	Ref. PDB, TRSM						
on request								
18	tilt restrictor ..	TFKB0010- ...	1		310– 800			
19	mishandling device	TFBS0010- ...	1		601–3000			
20	pressure piece	Ref. PDB, TFFD	1		601–3000			
21	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

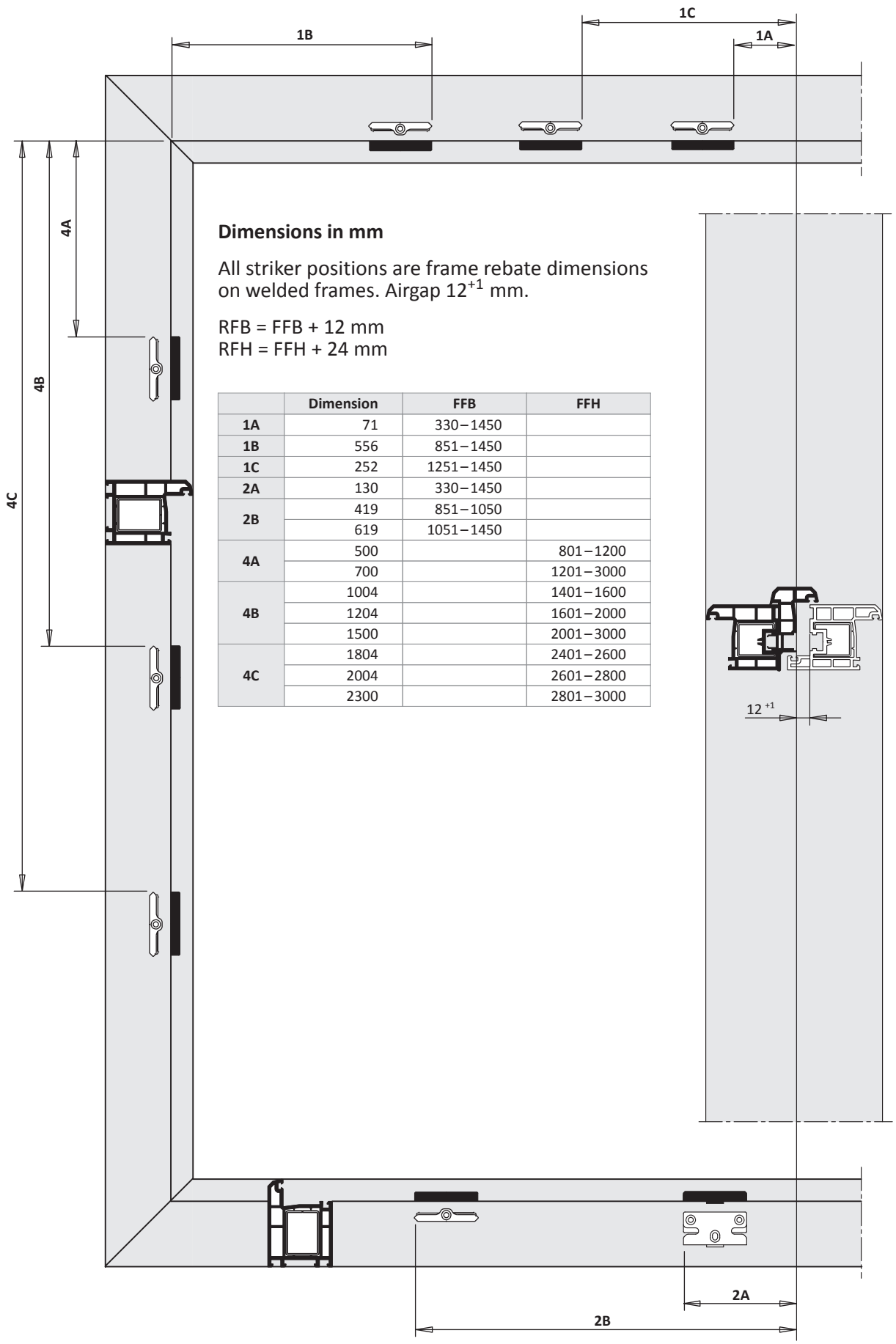
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
22	stay hinge DH	Ref. PDB, TBWB61			1	1
23	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
24	top hinge 100kg	Ref. PDB, TBSL61			1	
25	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
26	top hinge pin Poly	TBSB6020-1 ...			1	1
27	top hinge 130kg	Ref. PDB, TBSL62				1
28	bottom hinge 100kg	Ref. PDB, TBEL01			1	
29	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
30	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
31	bottom hinge 130kg	Ref. PDB, TBEL02				1
32	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
33	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
34	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

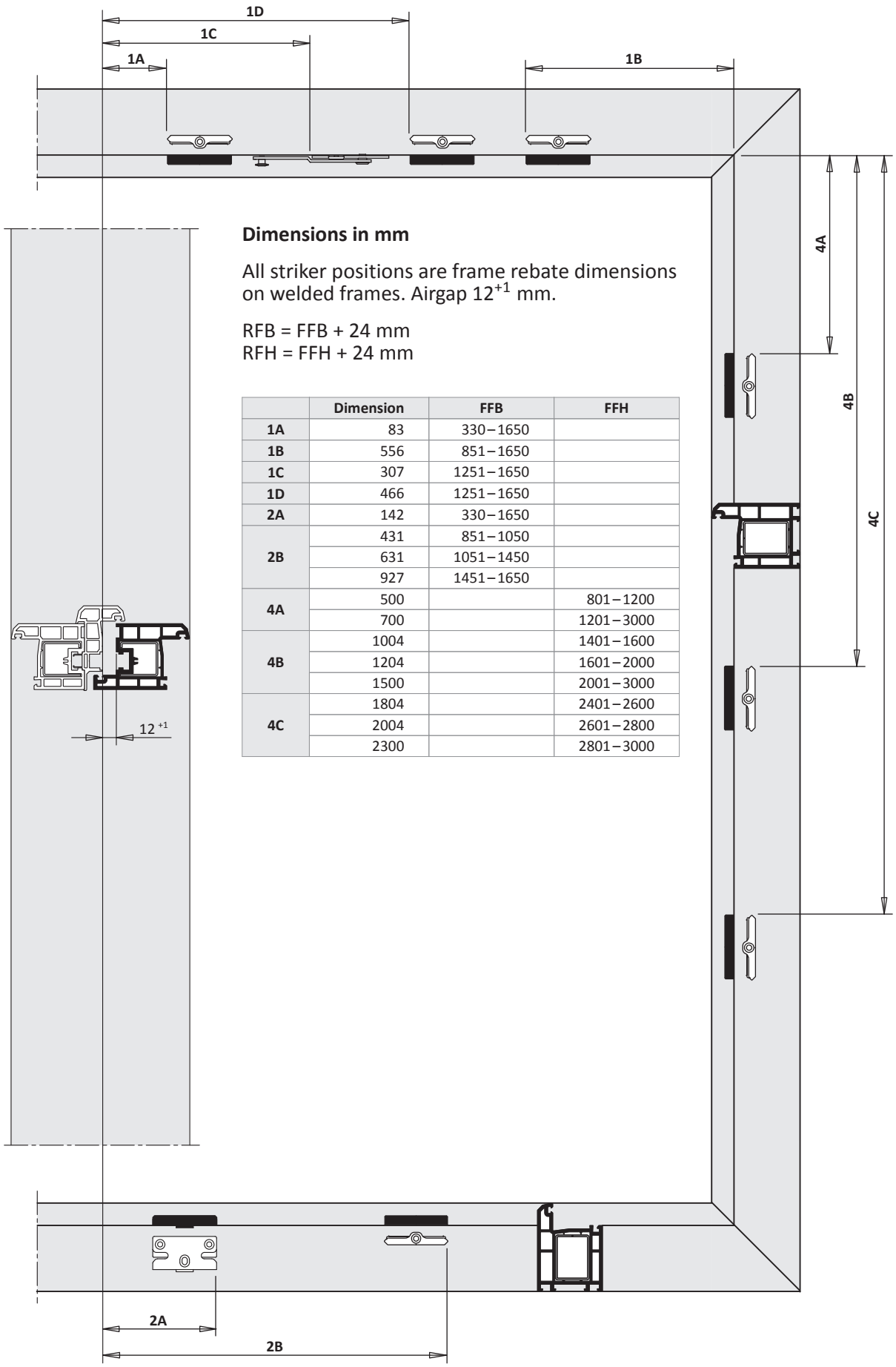
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	330 – 1450	
1B	556	851 – 1450	
1C	252	1251 – 1450	
2A	130	330 – 1450	
2B	419	851 – 1050	
	619	1051 – 1450	
4A	500		801 – 1200
	700		1201 – 3000
4B	1004		1401 – 1600
	1204		1601 – 2000
	1500		2001 – 3000
4C	1804		2401 – 2600
	2004		2601 – 2800
	2300		2801 – 3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



Dimensions in mm

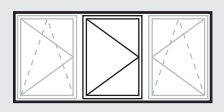
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	330–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	330–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





GS

3-sash Centre sash second opening turn

PVC

basic security

fixed handle position

Hinge side TITAN

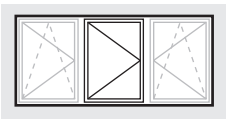
surface TS

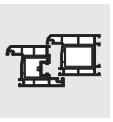
backset 15 mm

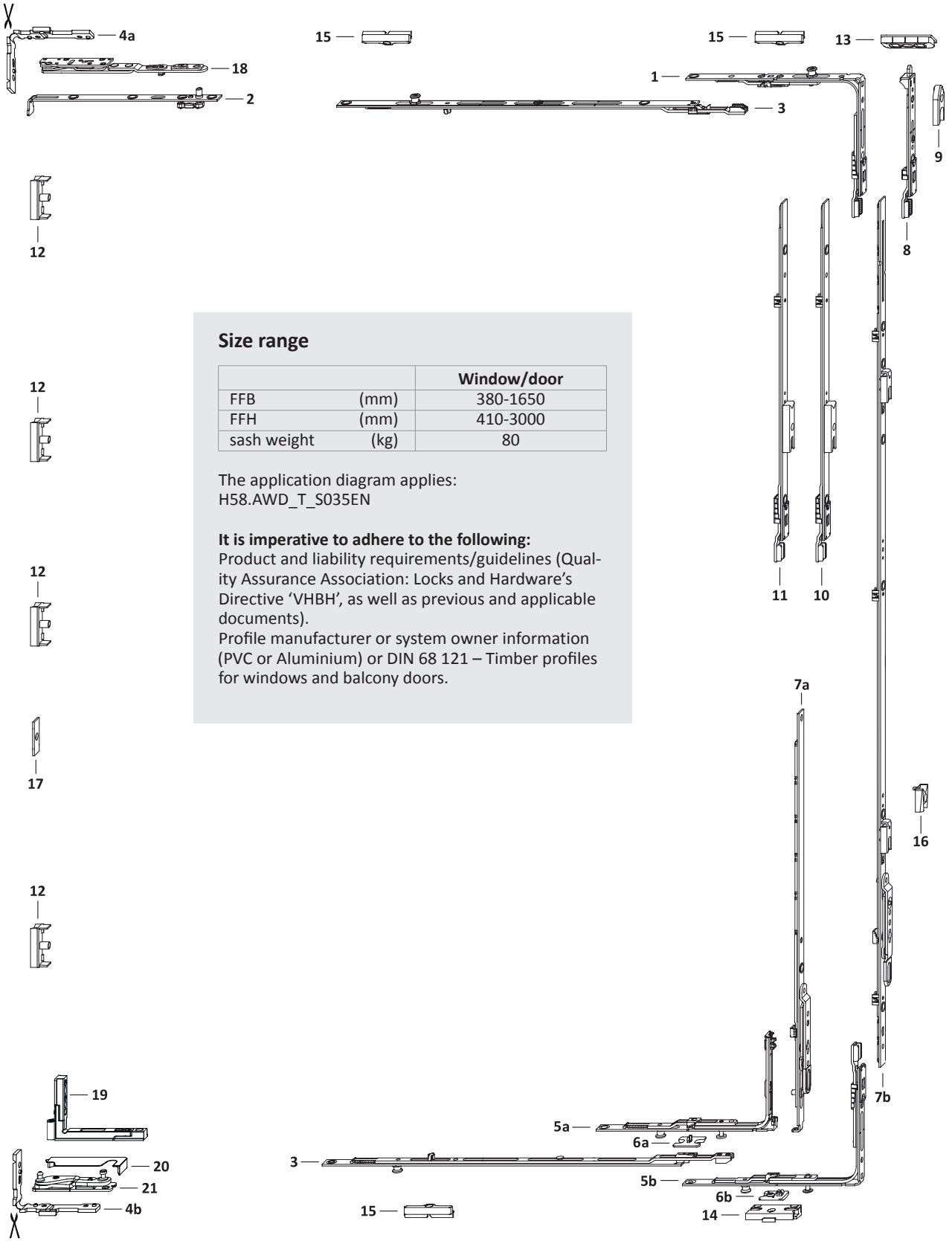
Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear

hardware layout

3-sash Centre sash second opening turn
PVC GK Hinge side TITAN





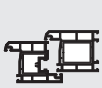


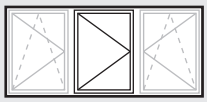
Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	410-3000
sash weight	(kg)	80

The application diagram applies:
H58.AWD_T_S035EN

It is imperative to adhere to the following:
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.





List of fittings

3-sash Centre sash second opening turn
PVC GK Hinge side TITAN

TITAN AF

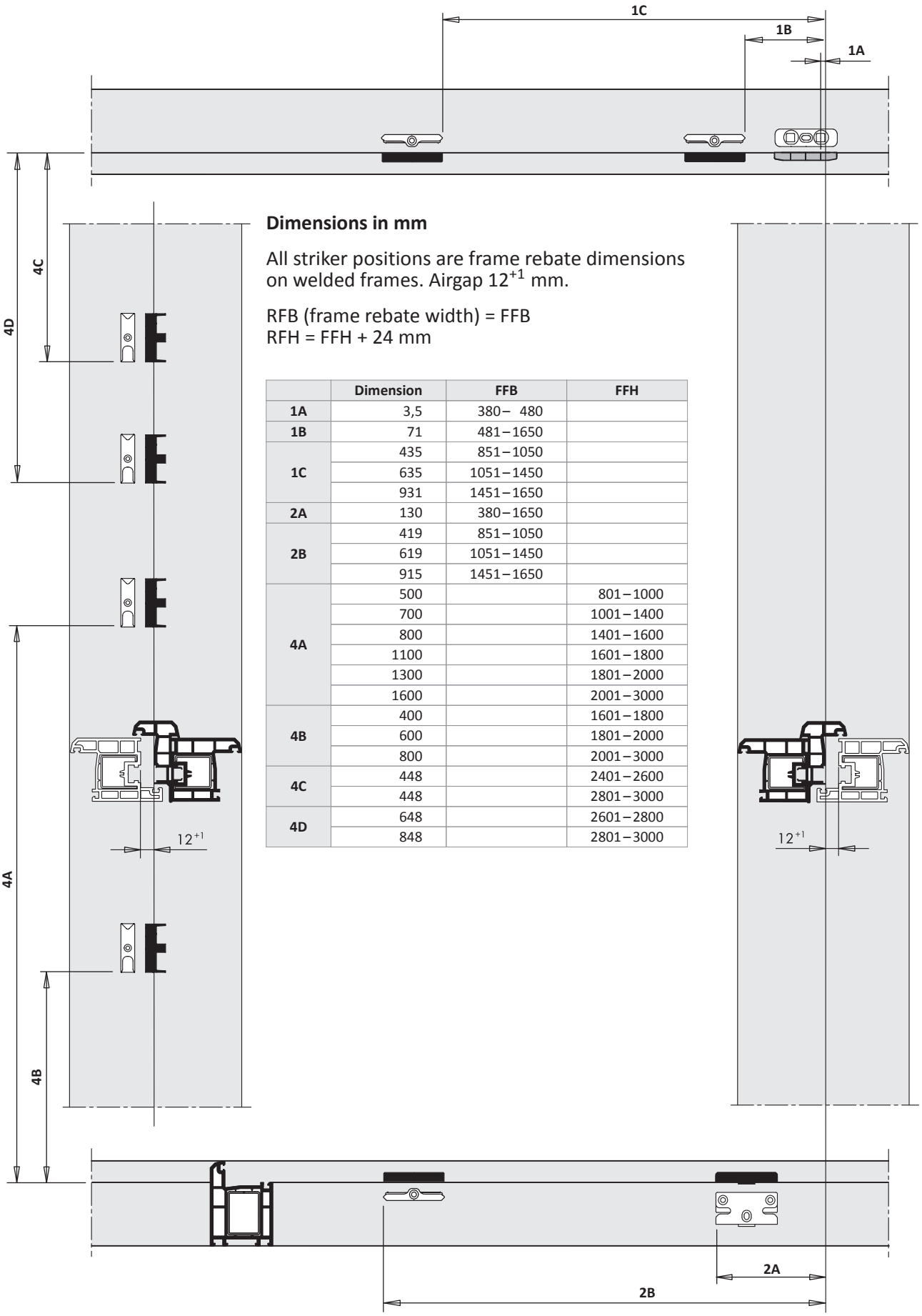
GS

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							13	14	15
1	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	481 – 1650					1
2	stay sash part DF AX	TSSV3020- ...	1	380 – 1650					
3	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851 – 1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450					2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650					2
4	crt. accessories AX	Ref. PDB, TMZV41	1	380 – 1650					
5a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	380 – 1650	410 – 800			1	
5b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	380 – 1650	801 – 3000			1	
6a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	380 – 1650	410 – 800				
6b	run up block AF 13 mm 13	TFFH0080- ...	1	380 – 1650	801 – 3000				
7a	sec.sash gear 16 sz 30	TGKS0010- ...	1	380 – 1250	410 – 600	180			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601 – 800	300			
7b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801 – 1000	400			
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001 – 1200	500			
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201 – 1400	600			
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401 – 1600	700			
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601 – 1800	700			
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801 – 2000	1000			
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001 – 3000	1000			
8	locking bolt AF VSO RSA 11	TESC2030- ...	1	380 – 480	410 – 3000		1		
9	striker plate A0767	TRSA0010- ...	1	380 – 480	410 – 3000				
10	linkage AF sz 1	TZZS0150- ...	1		2201 – 2400				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401 – 2600				
	linkage AF sz 1	TZZS0150- ...			2601 – 2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000				
11	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601 – 2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000				
12	striker plate 56 A2000	TRSB0030- ...	1		801 – 1000				
	striker plate 56 A2000	TRSB0030- ...			1001 – 1200				
	striker plate 56 A2000	TRSB0030- ...			1201 – 1400				
	striker plate 56 A2000	TRSB0030- ...			1401 – 1600				
	striker plate 56 A2000	TRSB0030- ...	2		1601 – 2400				
	striker plate 56 A2000	TRSB0030- ...	3		2401 – 2800				
	striker plate 56 A2000	TRSB0030- ...	4		2801 – 3000				
13	striker V	Ref. PDB, FRZV01							
14	striker plate S-RS	Ref. PDB, TRSK							
15	striker plate S 56	Ref. PDB, TRSM							
on request									
16	striker snapper AF A0767	TRST0100- ...	1		1801 – 3000				
17	stop 2,2mm	710937	1						

Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	--	80 kg
18	stay arm AX DF/3	Ref. PDB, TSAV47		
19	corner hinge AX	Ref. PDB, TBEB41		
20	cover cap AX EL	Ref. PDB, TKEL41		
21	bottom hinge AX DF/3	Ref. PDB, TBEV43		

Frame dimensions

3-sash Centre sash second opening turn
PVC GK Hinge side TITAN



Dimensions in mm

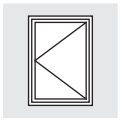
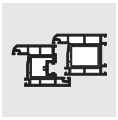
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB (frame rebate width) = FFB
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	380– 480	
1B	71	481–1650	
1C	435	851–1050	
	635	1051–1450	
	931	1451–1650	
2A	130	380–1650	
2B	419	851–1050	
	619	1051–1450	
	915	1451–1650	
4A	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
4B	400		1601–1800
	600		1801–2000
	800		2001–3000
4C	448		2401–2600
	448		2801–3000
4D	648		2601–2800
	848		2801–3000

TITAN AF

Installation instructions

GS

1-sash square turn

PVC

basic security

fixed handle position

Hinge side TITAN

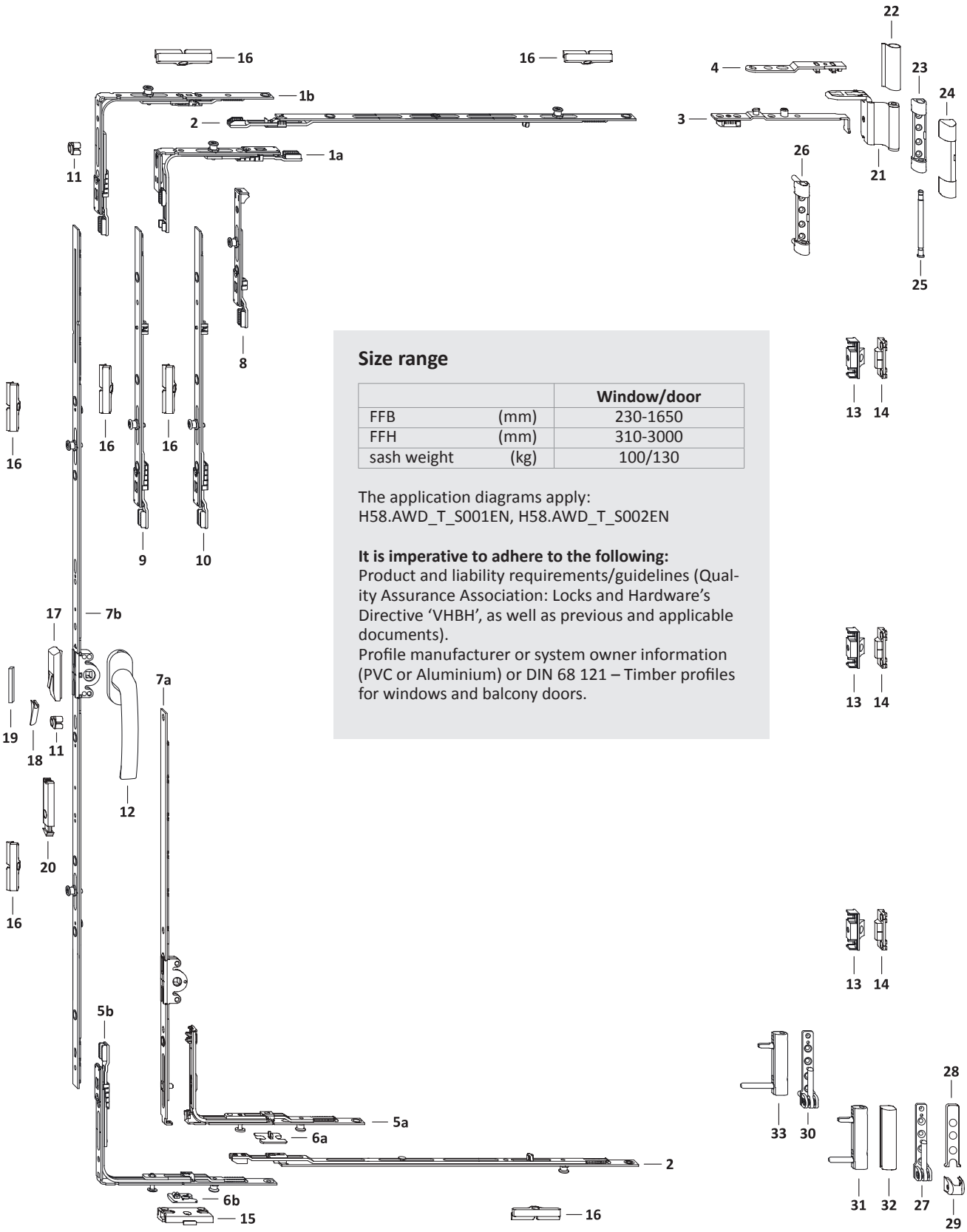
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side turning points	Standard

hardware layout

1-sash square turn
PVC GK Hinge side TITAN



Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

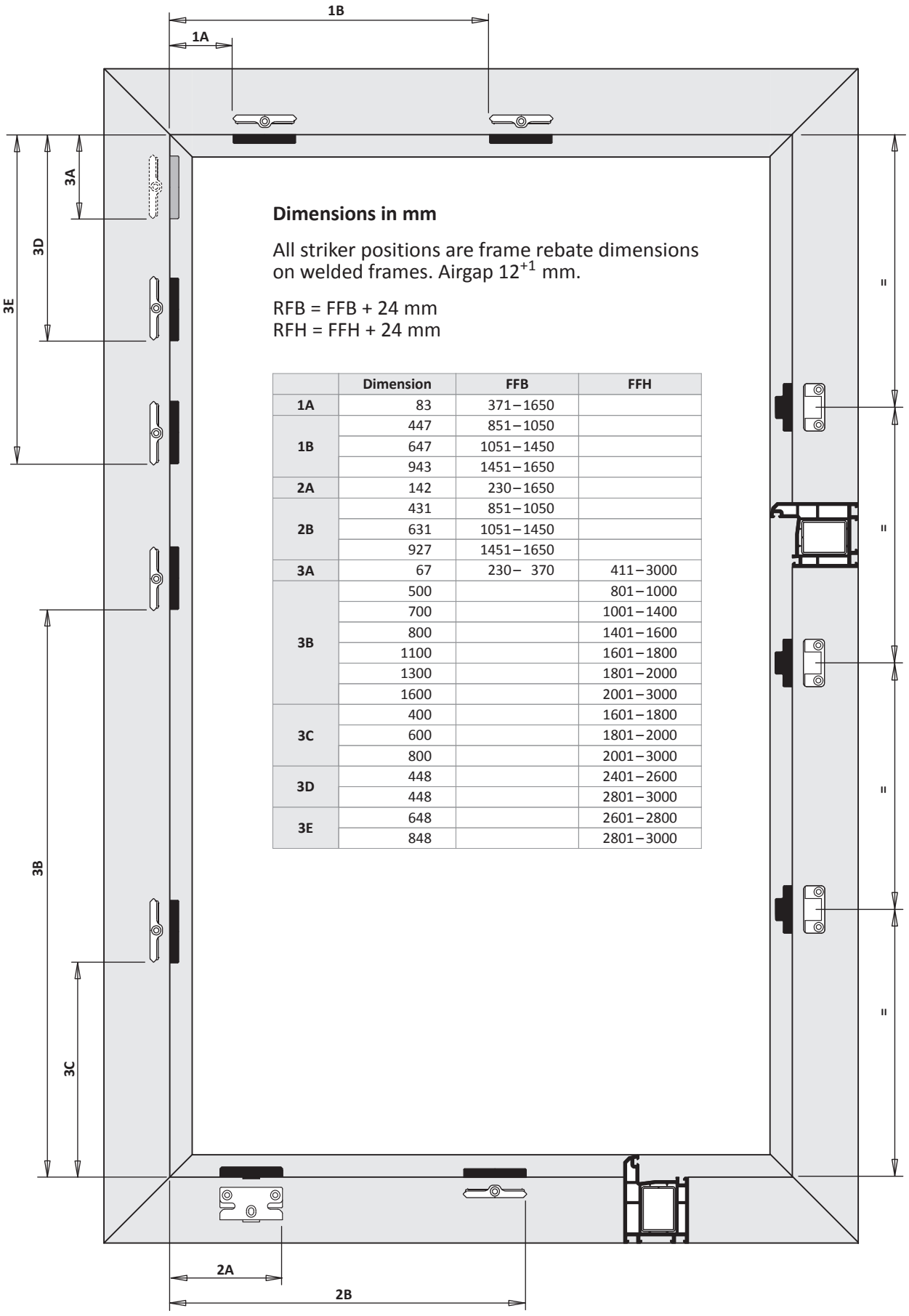
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							15	16
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371– 850	310– 410			1
1b	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	371–1650	411–3000			1
2	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050				2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				2
3	stay sash part DF/MN	TSSD0020- ...	1	230–1650				
4	stay arm DF	TSAD0010- ...	1	230–1650				
5a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	230–1250	411– 600		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		371– 850	310– 410		1	
5b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	230–1650	601–3000		1	
6a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	230–1250	411– 600			
	run-up plate FH KRL56	Ref. PDB, TRAL01		371– 850	310– 410			
6b	run up block AF 13 mm 13	TFFH0080- ...	1	230–1650	601–3000			
7a	gear 15 sz 30/G180	TGKK3010- ...	1	371– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		230–1250	411– 600	180		
7b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		2
8	locking bolt AF VS 180° 1RS	TESC2020- ...	1	230– 370	411–3000			1
9	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			1
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
10	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
11	travel restrictor	TFHB0010- ...	1		310–3000			
12	handle Globe	Ref.access. ZHGS	1		310–3000			
13	sash part MV	Ref. PDB, ZFMV01	1		801–1600			
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400			
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000			
14	frame part MV	Ref. PDB, ZRZM01	1		801–1600			
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400			
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000			
15	striker plate S-RS	Ref. PDB, TRSK						
16	striker plate S 56	Ref. PDB, TRSM						
on request								
17	mishandling device	TFBS0010- ...	1					
18	pressure piece	Ref. PDB, TFFD	1					
19	stop	Ref. PDB, FRZF01	1					
20	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
21	stay hinge DH	Ref. PDB, TBWB61			1	1
22	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
23	top hinge 100kg	Ref. PDB, TBSL61			1	
24	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
25	top hinge pin Poly	TBSB6020-1 ...			1	1
26	top hinge 130kg	Ref. PDB, TBSL62				1
27	bottom hinge 100kg	Ref. PDB, TBEL01			1	
28	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
29	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
30	bottom hinge 130kg	Ref. PDB, TBEL02				1
31	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
32	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
33	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions

1-sash square turn
PVC GK Hinge side TITAN



Dimensions in mm

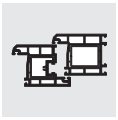
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	371–1650	
1B	447	851–1050	
	647	1051–1450	
	943	1451–1650	
2A	142	230–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	230– 370	411–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000

TITAN AF

Installation instructions

GS

1-sash square tilt-turn

PVC

basic security

fixed handle position

Hinge side TITAN

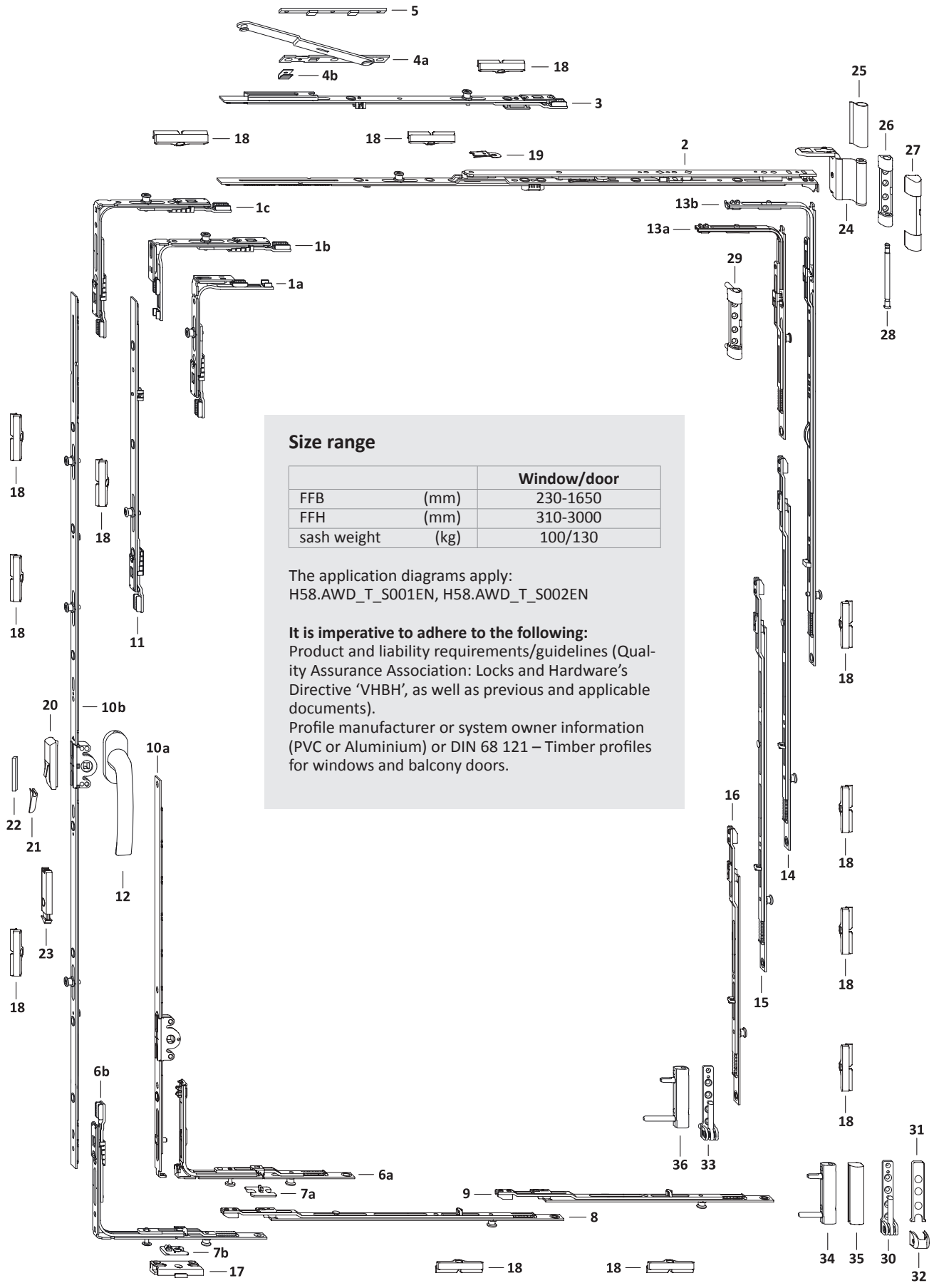
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GK Hinge side TITAN



Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

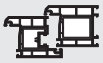
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							17	18
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230– 330	411–3000			1
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	331– 850	310– 410			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331–1650	411–3000			1
2	stay AF sz 0	TSKK2000- ...	1	230– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	230–1250	411– 600		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		331– 850	310– 410		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	230–1650	601–3000		1	
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	230–1250	411– 600			
	run-up plate FH KRL56	Ref. PDB, TRAL01		331– 850	310– 410			
7b	run up block AF 13 mm 13	TFFH0080- ...	1	230–1650	601–3000			
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
10a	gear 15 sz 30/G180	TGKK3010- ...	1	331– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		230–1250	411– 600	180		
10b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300		
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300		1
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700		2
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000		3
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000		3
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800			1
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000			1
12	handle Globe	Ref.access. ZHGS	1		310–3000			
13a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
13b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
17	striker plate S-RS	Ref. PDB, TRSK						
18	striker plate S 56	Ref. PDB, TRSM						
on request								
19	tilt restrictor ..	TFKB0010- ...	1		310– 800			
20	mishandling device	TFBS0010- ...	1					
21	pressure piece	Ref. PDB, TFFD	1					
22	stop	Ref. PDB, FRZF01	1					
23	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

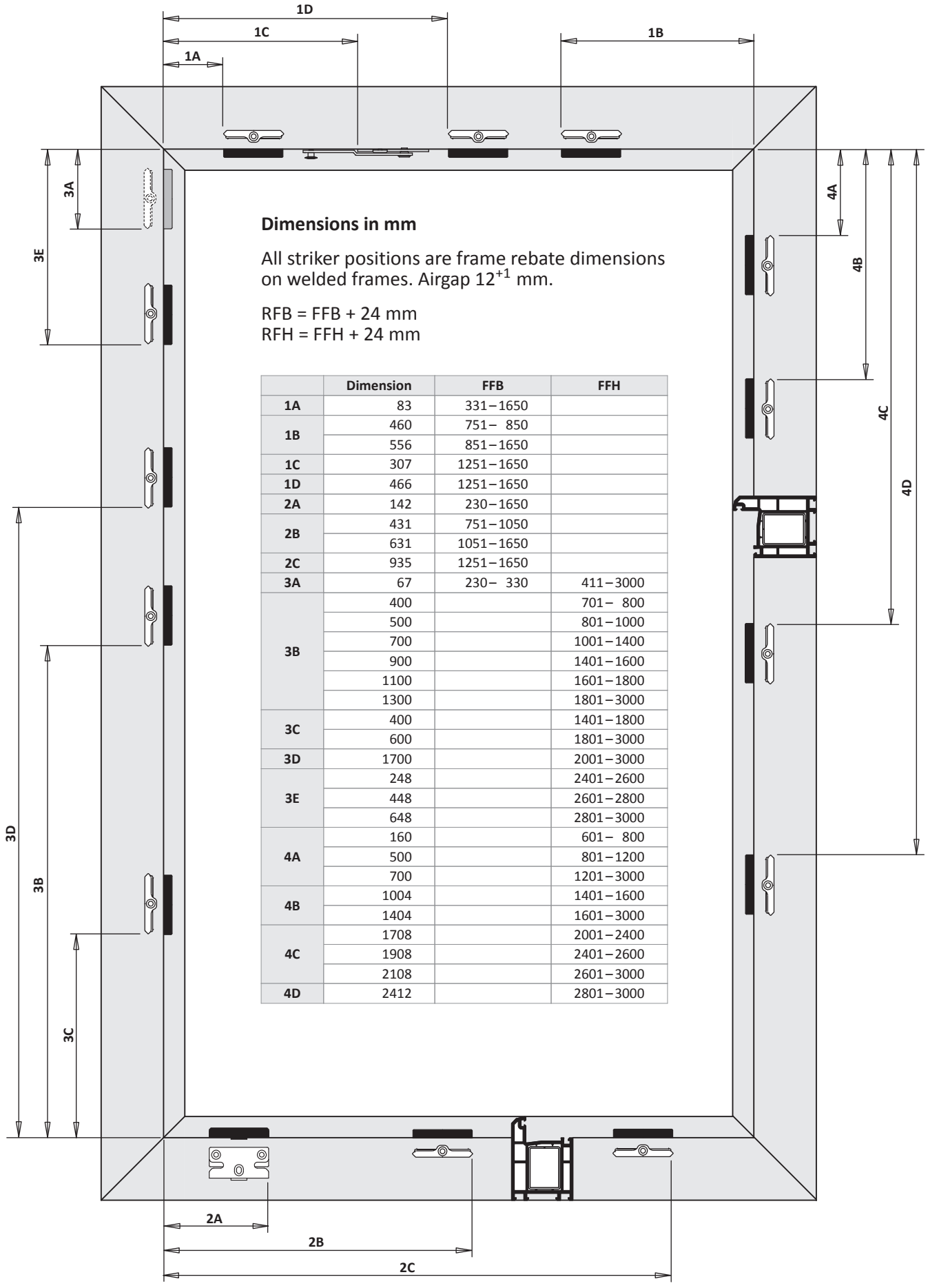
List of fittings

1-sash square tilt-turn
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
24	stay hinge DH	Ref. PDB, TBWB61			1	1
25	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
26	top hinge 100kg	Ref. PDB, TBSL61			1	
27	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
28	top hinge pin Poly	TBSB6020-1 ...			1	1
29	top hinge 130kg	Ref. PDB, TBSL62				1
30	bottom hinge 100kg	Ref. PDB, TBEL01			1	
31	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
32	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
33	bottom hinge 130kg	Ref. PDB, TBEL02				1
34	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
35	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
36	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

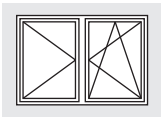
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	230–1650	
2B	431	751–1050	
	631	1051–1650	
2C	935	1251–1650	
3A	67	230– 330	411–3000
3B	400		701– 800
	500		801–1000
	700		1001–1400
	900		1401–1600
	1100		1601–1800
	1300		1801–3000
3C	400		1401–1800
	600		1801–3000
3D	1700		2001–3000
3E	248		2401–2600
	448		2601–2800
	648		2801–3000
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

fixed handle position

Hinge side TITAN

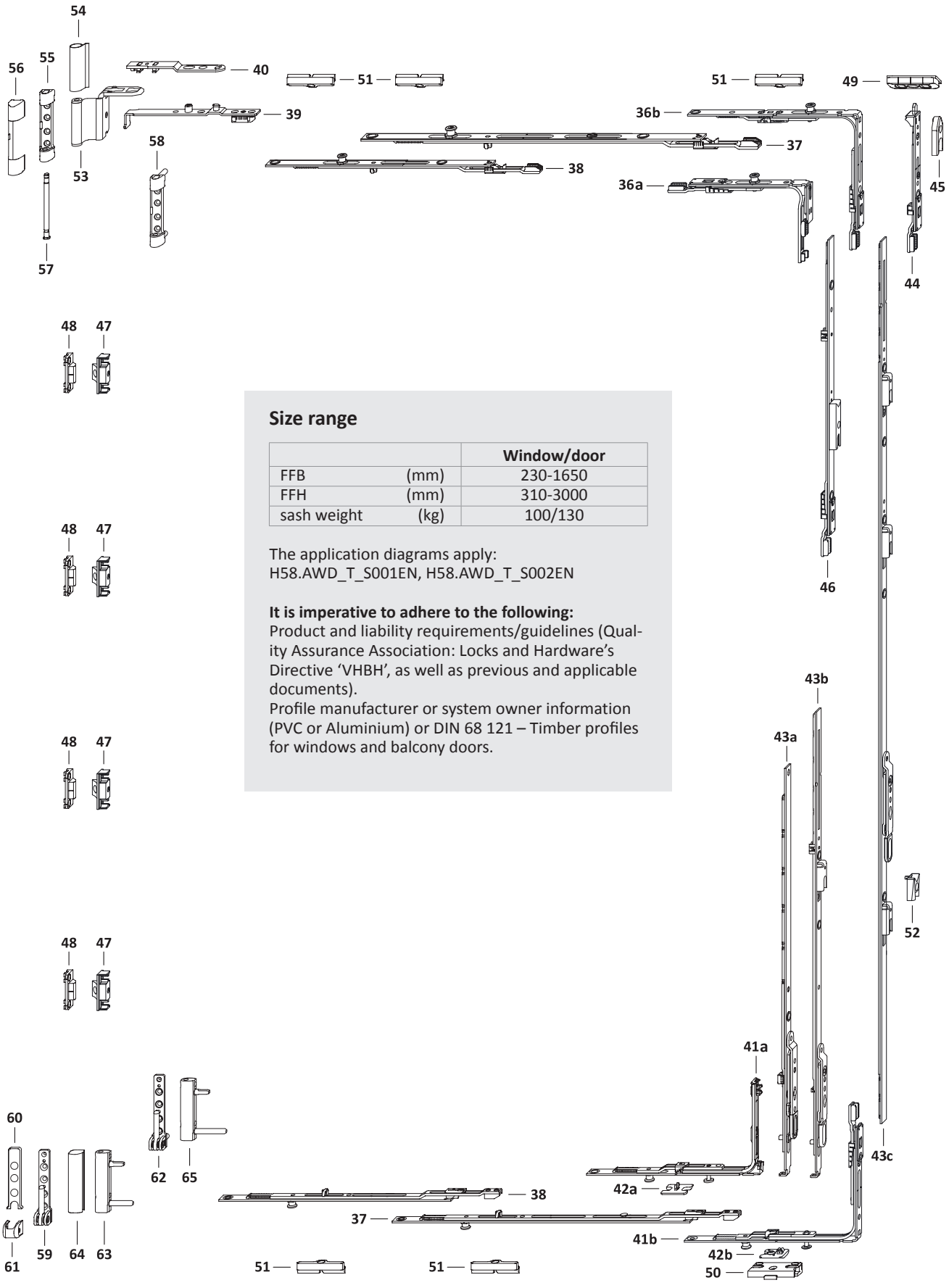
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

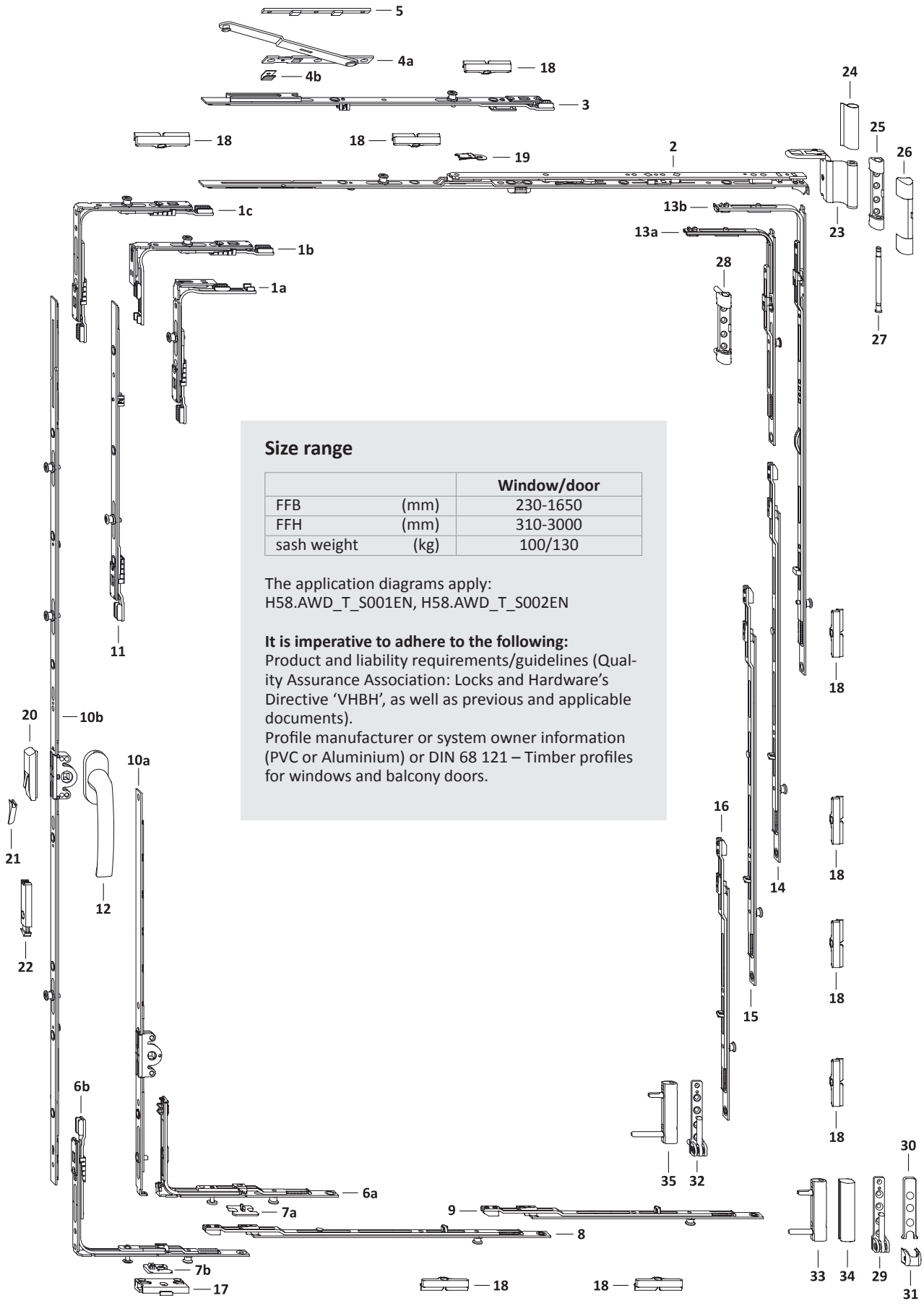


Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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Size range

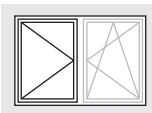
		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

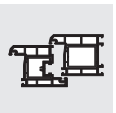
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





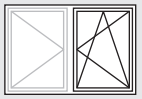
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	49	50	51
36a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371– 850	310– 410				1
36b	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	371–1650	411–3000				1
37	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	751–1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650					2
38	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	1251–1650					2
39	stay sash part DF/MN	TSSD0020- ...	1	230–1650					
40	stay arm DF	TSAD0010- ...	1	230–1650					
41a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	230–1650	411– 800			1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		371– 850	310– 410			1	
41b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	230–1650	801–3000			1	
42a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	230–1650	411– 800				
	run-up plate FH KRL56	Ref. PDB, TRAL01		371– 850	310– 410				
42b	run up block AF 13 mm 13	TFFH0080- ...	1	230–1650	801–3000				
43a	sec.sash gear 16 sz 30	TGKS0010- ...	1	371– 850	310– 410	180			
	sec.sash gear 16 sz 30	TGKS0010- ...		230–1250	411– 600	180			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300			
43b	sec.sash gear 16 AF70/G300 1SB	TGKS4040- ...	1		701– 800	300			
43c	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400			
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500			
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600			
	sec.sash gear 16 AF140/G700 2S 70	TGKS4290- ...			1401–1600	700			
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700			
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000			
	sec.sash gear 16 AF200/G1000 3 70	TGKS4280- ...			2001–2200	1000			
	sec.sash gear 16 AF220/G1000 3 70	TGKS4320- ...			2201–3000	1000			
44	locking bolt AF VSO RSA 11	TESC2030- ...	1	230– 370	411–3000		1		
45	striker plate A0767	TRSA0010- ...	1	230– 330	411–3000				
46	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2600				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2601–2800				
	linkage AF sz 3 1SB-RS	TZKS1080- ...			2801–3000				
47	sash part MV	Ref. PDB, ZFMV01	1		601–1400				
	sash part MV	Ref. PDB, ZFMV01	2		1401–2100				
	sash part MV	Ref. PDB, ZFMV01	3		2101–2800				
	sash part MV	Ref. PDB, ZFMV01	4		2801–3000				
48	frame part MV	Ref. PDB, ZRZM01	1		601–1400				
	frame part MV	Ref. PDB, ZRZM01	2		1401–2100				
	frame part MV	Ref. PDB, ZRZM01	3		2101–2800				
	frame part MV	Ref. PDB, ZRZM01	4		2801–3000				
49	striker V	Ref. PDB, FRZV01							
50	striker plate S-RS	Ref. PDB, TRSK							
51	striker plate S 56	Ref. PDB, TRSM							
on request									
52	striker snapper AF A0767	TRST0100- ...	1		1801–3000				

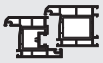
Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
53	stay hinge DH	Ref. PDB, TBWB61			1	1
54	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
55	top hinge 100kg	Ref. PDB, TBSL61			1	
56	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
57	top hinge pin Poly	TBSB6020-1 ...			1	1
58	top hinge 130kg	Ref. PDB, TBSL62				1
59	bottom hinge 100kg	Ref. PDB, TBEL01			1	
60	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
61	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
62	bottom hinge 130kg	Ref. PDB, TBEL02				1
63	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
64	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
65	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							17	18
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230– 330	411–3000			
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371– 850	310– 410			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331–1650	411–3000			1
2	stay AF sz 0	TSKK2000- ...	1	230– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	230–1250	411– 600		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		371– 850	310– 410		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	230–1650	601–3000		1	
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	230–1250	411– 600			
	run-up plate FH KRL56	Ref. PDB, TRAL01		371– 850	310– 410			
7b	run up block AF 13 mm 13	TFFH0080- ...	1	230–1650	601–3000			
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
10a	gear 15 sz 30/G180	TGKK3010- ...	1	371– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		230–1250	411– 600	180		
10b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300		
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000		
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000		
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800			
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000			
12	handle Globe	Ref.access. ZHGS	1		310–3000			
13a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
13b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
17	striker plate S-RS	Ref. PDB, TRSK						
18	striker plate S 56	Ref. PDB, TRSM						
on request								
19	tilt restrictor ..	TFKB0010- ...	1		310– 800			
20	mishandling device	TFBS0010- ...	1		601–3000			
21	pressure piece	Ref. PDB, TFFD	1		601–3000			
22	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

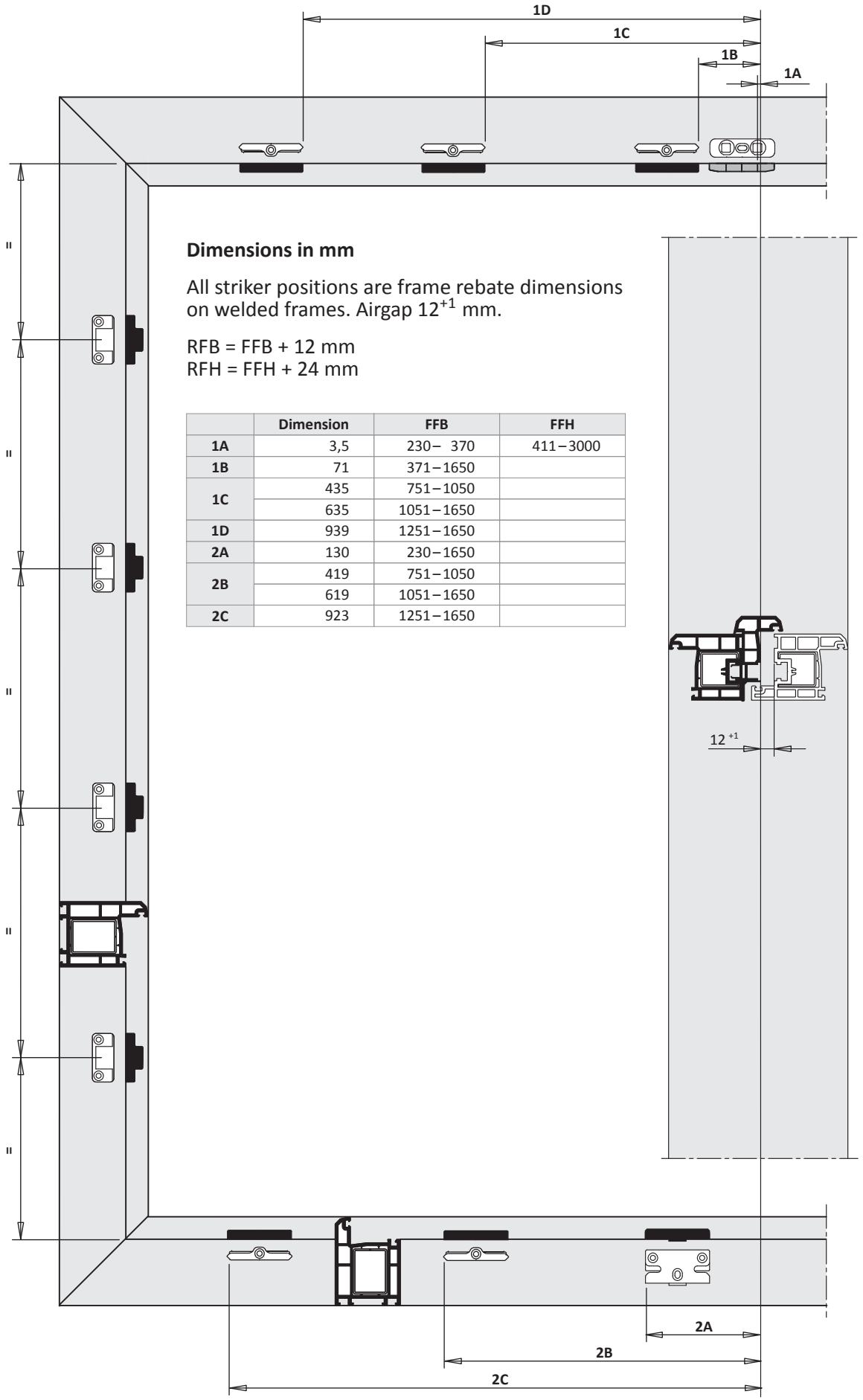
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
23	stay hinge DH	Ref. PDB, TBWB61			1	1
24	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
25	top hinge 100kg	Ref. PDB, TBSL61			1	
26	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
27	top hinge pin Poly	TBSB6020-1 ...			1	1
28	top hinge 130kg	Ref. PDB, TBSL62				1
29	bottom hinge 100kg	Ref. PDB, TBEL01			1	
30	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
31	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
32	bottom hinge 130kg	Ref. PDB, TBEL02				1
33	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
34	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
35	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

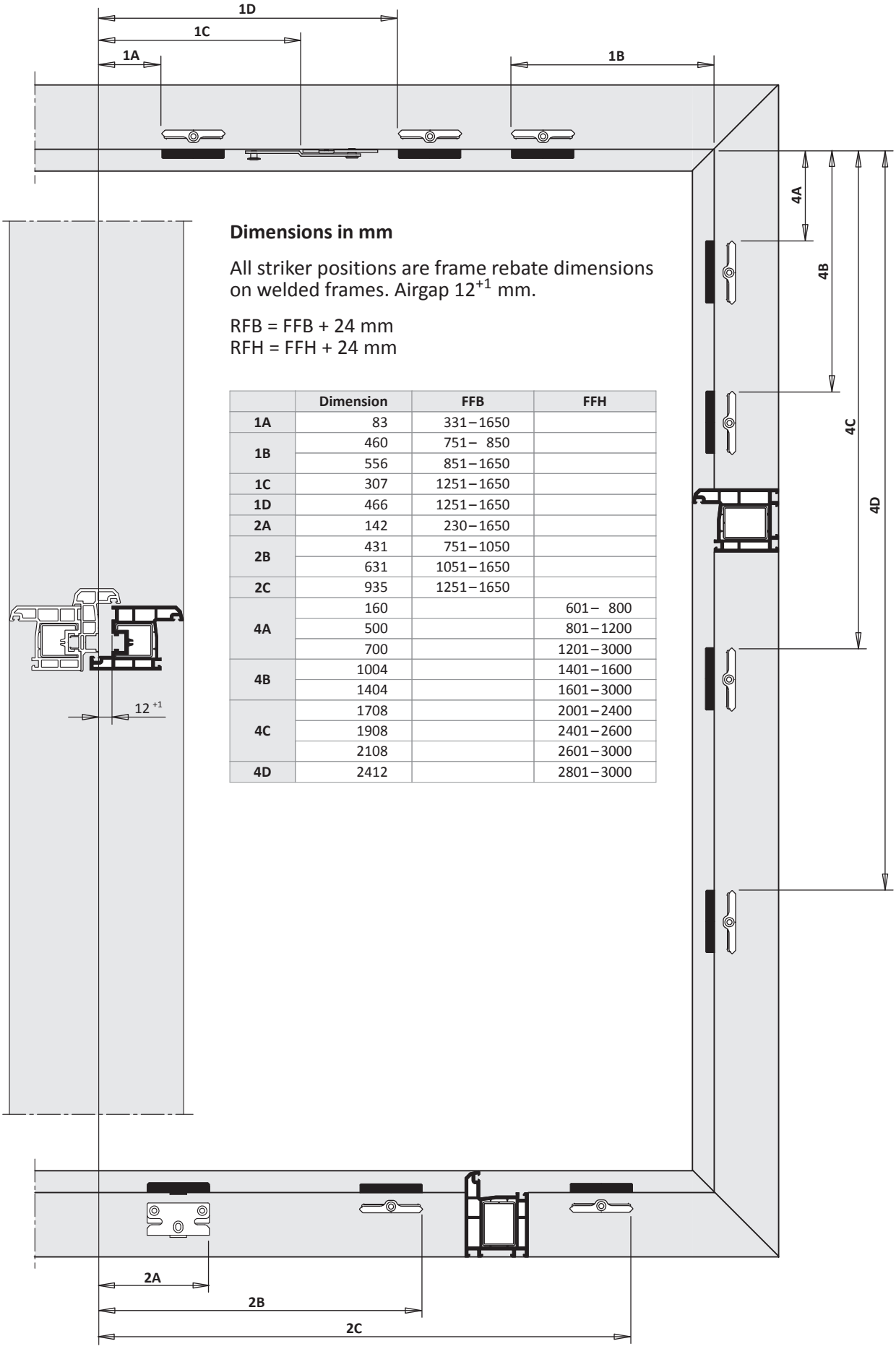
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	230– 370	411–3000
1B	71	371–1650	
1C	435	751–1050	
	635	1051–1650	
1D	939	1251–1650	
2A	130	230–1650	
2B	419	751–1050	
	619	1051–1650	
2C	923	1251–1650	

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



Dimensions in mm

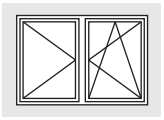
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	230–1650	
2B	431	751–1050	
	631	1051–1650	
2C	935	1251–1650	
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

fixed handle position

Hinge side TITAN

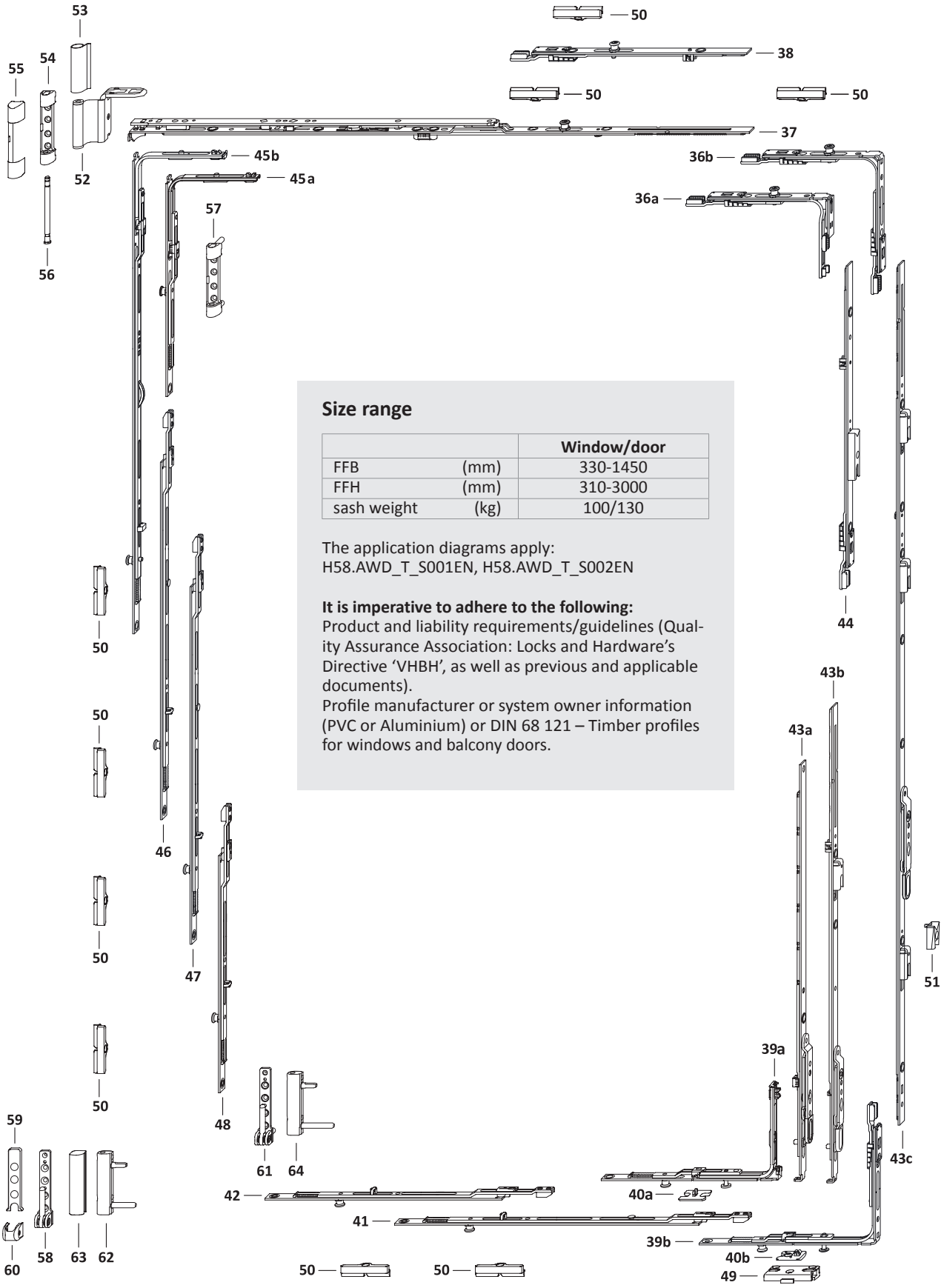
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700; secondary sash with DK-stay
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

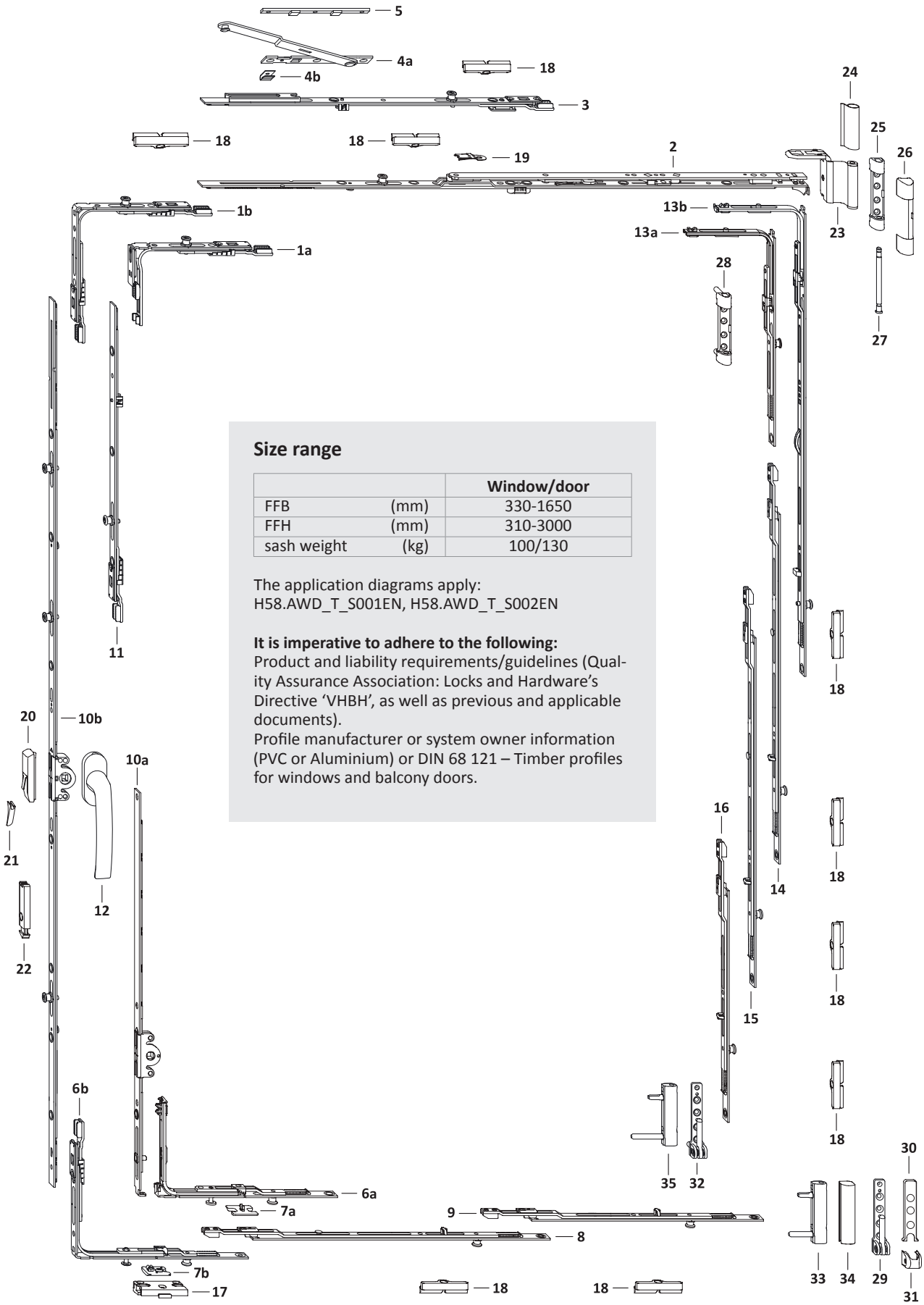


Size range

		Window/door
FFB	(mm)	330-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

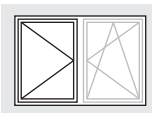
		Window/door
FFB	(mm)	330-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

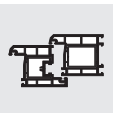
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

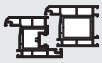
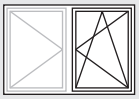
2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	49	50
36a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	330– 850	310– 410			1
36b	corn.drive VSO 1RS	TEUL4010- ...	1	330–1450	411–3000			1
37	stay AF sz 0	TSKK2000- ...	1	330– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1
38	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
39a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	330–1450	411– 800		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		330– 850	310– 410		1	
39b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	330–1450	801–3000		1	
40a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	330–1450	411– 800			
	run-up plate FH KRL56	Ref. PDB, TRAL01		330– 850	310– 410			
40b	run up block AF 13 mm 13	TFFH0080- ...	1	330–1450	801–3000			
41	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1450				1
43a	sec.sash gear 16 sz 30	TGKS0010- ...	1	330– 850	310– 410	180		
	sec.sash gear 16 sz 30	TGKS0010- ...		330–1250	411– 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300		
43b	sec.sash gear 16 AF70/G300 1SB	TGKS4040- ...	1		701– 800	300		
43c	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600		
	sec.sash gear 16 AF140/G700 2S 70	TGKS4290- ...			1401–1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000		
	sec.sash gear 16 AF200/G1000 3 70	TGKS4280- ...			2001–2200	1000		
	sec.sash gear 16 AF220/G1000 3 70	TGKS4320- ...			2201–3000	1000		
44	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2600			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2601–2800			
	linkage AF sz 3 1SB-RS	TZKS1080- ...			2801–3000			
45a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
45b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
46	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
47	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
48	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
49	striker plate S-RS	Ref. PDB, TRSK						
50	striker plate S 56	Ref. PDB, TRSM						
on request								
51	striker snapper AF A0767	TRST0100- ...	1		1801–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
52	stay hinge DH	Ref. PDB, TBWB61			1	1
53	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
54	top hinge 100kg	Ref. PDB, TBSL61			1	
55	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
56	top hinge pin Poly	TBSB6020-1 ...			1	1
57	top hinge 130kg	Ref. PDB, TBSL62				1
58	bottom hinge 100kg	Ref. PDB, TBEL01			1	
59	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
60	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
61	bottom hinge 130kg	Ref. PDB, TBEL02				1
62	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
63	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
64	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16

PVC GK Hinge side TITAN

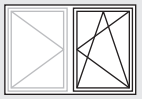
TITAN AF

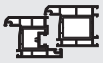
GS

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							17	18
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	330– 850	310– 410			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	330–1650	411–3000			1
2	stay AF sz 0	TSKK2000- ...	1	330– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	330–1250	411– 600		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		330– 850	310– 410		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	330–1650	601–3000		1	
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	330–1250	411– 600			
	run-up plate FH KRL56	Ref. PDB, TRAL01		330– 850	310– 410			
7b	run up block AF 13 mm 13	TFFH0080- ...	1	330–1650	601–3000			
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
10a	gear 15 sz 30/G180	TGKK3010- ...	1	330– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		330–1250	411– 600	180		
	gear 15 AF sz 60/G300	TGKK4030- ...			601– 800	300		
10b	gear 15 AF sz 70/G300 1RS	TGKK4040- ...	1		701– 800	300		
10c	gear 15 AF sz 80/G400 1RS	TGKK4050- ...	1		801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000		
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000		
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800			
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000			
12	handle Globe	Ref.access. ZHGS	1		310–3000			
13a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
13b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
17	striker plate S-RS	Ref. PDB, TRSK						
18	striker plate S 56	Ref. PDB, TRSM						
on request								
19	tilt restrictor ..	TFKB0010- ...	1		310– 800			
20	mishandling device	TFBS0010- ...	1		601–3000			
21	pressure piece	Ref. PDB, TFFD	1		601–3000			
22	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

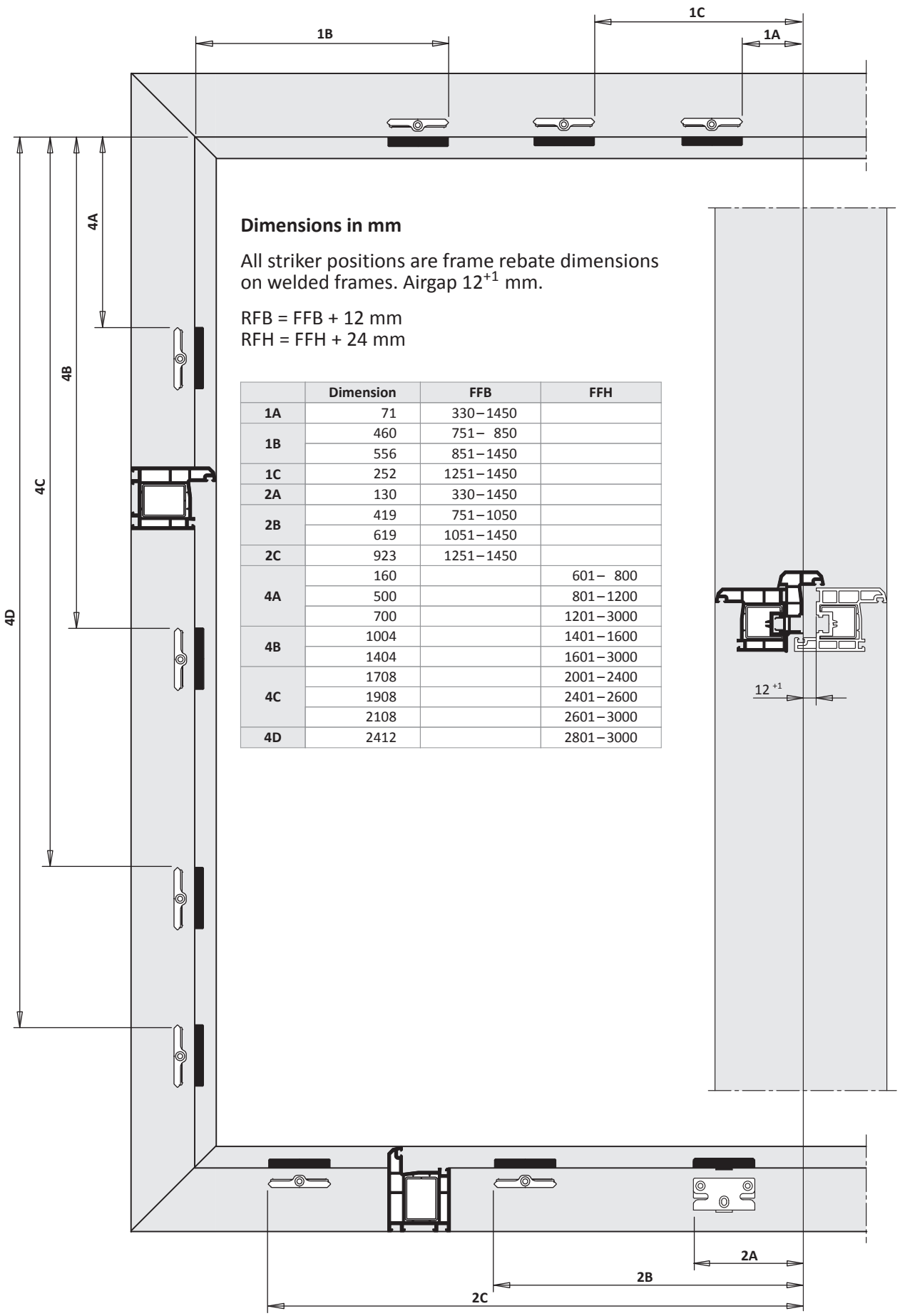
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
23	stay hinge DH	Ref. PDB, TBWB61			1	1
24	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
25	top hinge 100kg	Ref. PDB, TBSL61			1	
26	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
27	top hinge pin Poly	TBSB6020-1 ...			1	1
28	top hinge 130kg	Ref. PDB, TBSL62				1
29	bottom hinge 100kg	Ref. PDB, TBEL01			1	
30	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
31	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
32	bottom hinge 130kg	Ref. PDB, TBEL02				1
33	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
34	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
35	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

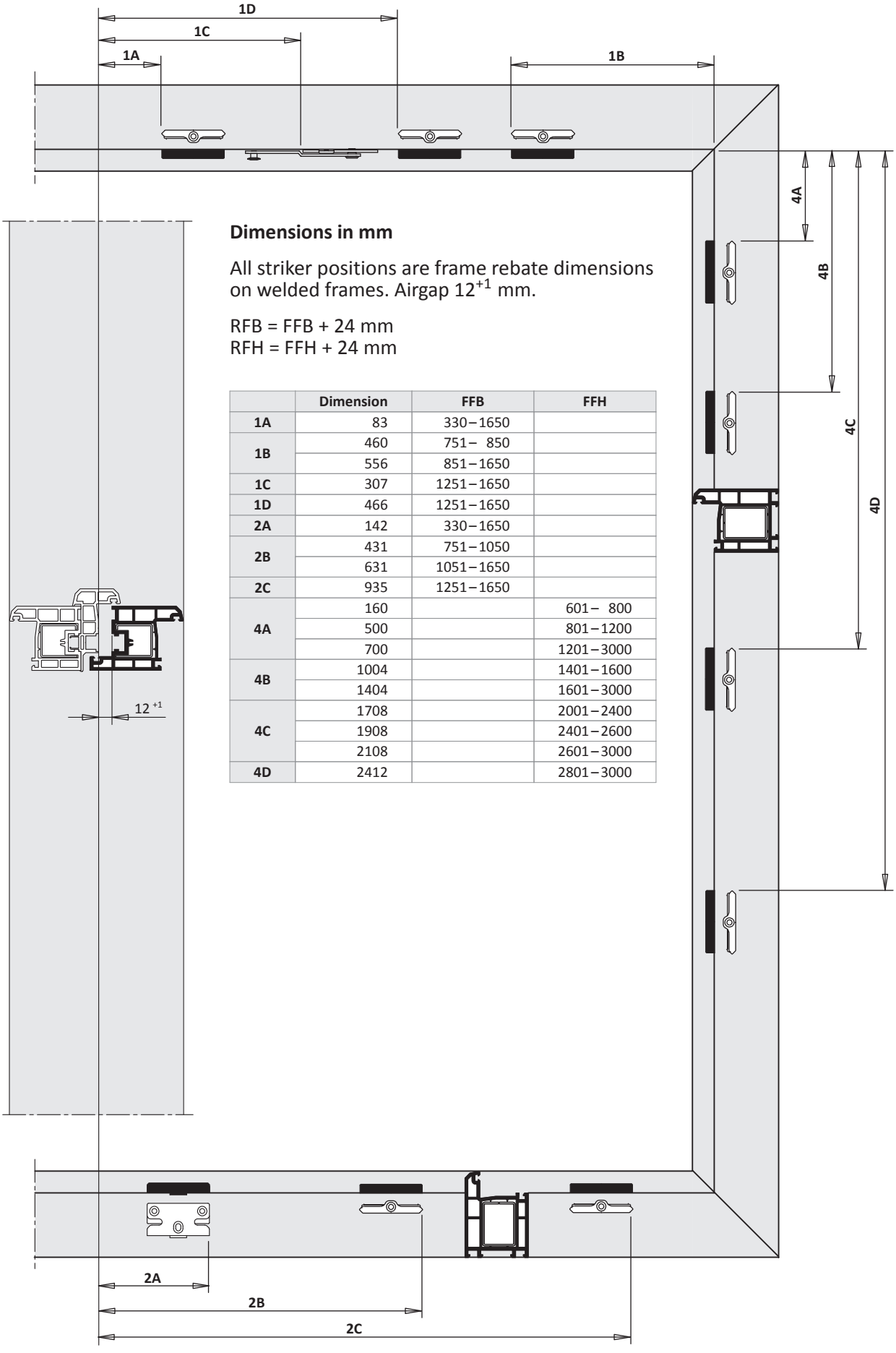
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	330 – 1450	
1B	460	751 – 850	
	556	851 – 1450	
1C	252	1251 – 1450	
2A	130	330 – 1450	
2B	419	751 – 1050	
	619	1051 – 1450	
2C	923	1251 – 1450	
4A	160		601 – 800
	500		801 – 1200
	700		1201 – 3000
4B	1004		1401 – 1600
	1404		1601 – 3000
4C	1708		2001 – 2400
	1908		2401 – 2600
	2108		2601 – 3000
4D	2412		2801 – 3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	330–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	330–1650	
2B	431	751–1050	
	631	1051–1650	
2C	935	1251–1650	
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

Bottom: Inliner

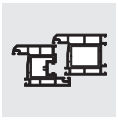
1-sash square tilt-turn	H48.TAFKFM0S001EN	3 - 3
2-sash square tilt-turn/turn DS 16 with DF-stay	H48.TAFKFM0S002EN	3 - 7
2-sash square tilt-turn/turn DS 16 with DK-stay	H48.TAFKFM0S040EN	3 - 15
2-sash square tilt-turn/turn DS BAN	H48.TAFKFM0S026EN	3 - 23
2-sash square tilt-turn/turn DS 16 bolt	H48.TAFKFM0S027EN	3 - 31
2-sash square tilt-turn/turn DS 16 shoot bolt	H48.TAFKFM0S028EN	3 - 39
3-sash Centre sash second opening turn	H48.TAFKFM0S029EN	3 - 47
Tilt before turn (TBT)		
1-sash square tilt before turn (TBT)	H48.TAFKFM0S005EN	3 - 51
Turn only sash		
1-sash square turn	H48.TAFKFM0S012EN	3 - 55
1-sash square turn with gear DF	H48.TAFKFM0S032EN	3 - 59
Locking-points distance 700		
1-sash square tilt-turn	H48.TAFKFM0S301EN	3 - 63
2-sash square tilt-turn/turn DS 16 with DF-stay	H48.TAFKFM0S302EN	3 - 69
2-sash square tilt-turn/turn DS 16 with DK-stay	H48.TAFKFM0S303EN	3 - 77

Bottom: Double cam SB R-RS

1-sash square tilt-turn	H48.TAFKFM0S401EN	3 - 85
2-sash square tilt-turn/turn DS 16 with DF-stay	H48.TAFKFM0S402EN	3 - 89
2-sash square tilt-turn/turn DS 16 with DK-stay	H48.TAFKFM0S403EN	3 - 97
3-sash centre sash second opening turn	H48.TAFKFM0S410EN	3 - 105
Turn only sash		
1-sash square turn	H48.TAFKFM0S404EN	3 - 109
Locking-points distance 700		
1-sash square tilt-turn	H48.TAFKFM0S307EN	3 - 113
2-sash square tilt-turn/turn DS 16 with DF-stay	H48.TAFKFM0S307EN	3 - 119

TITAN AF

Installation instructions

GS

1-sash square tilt-turn

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

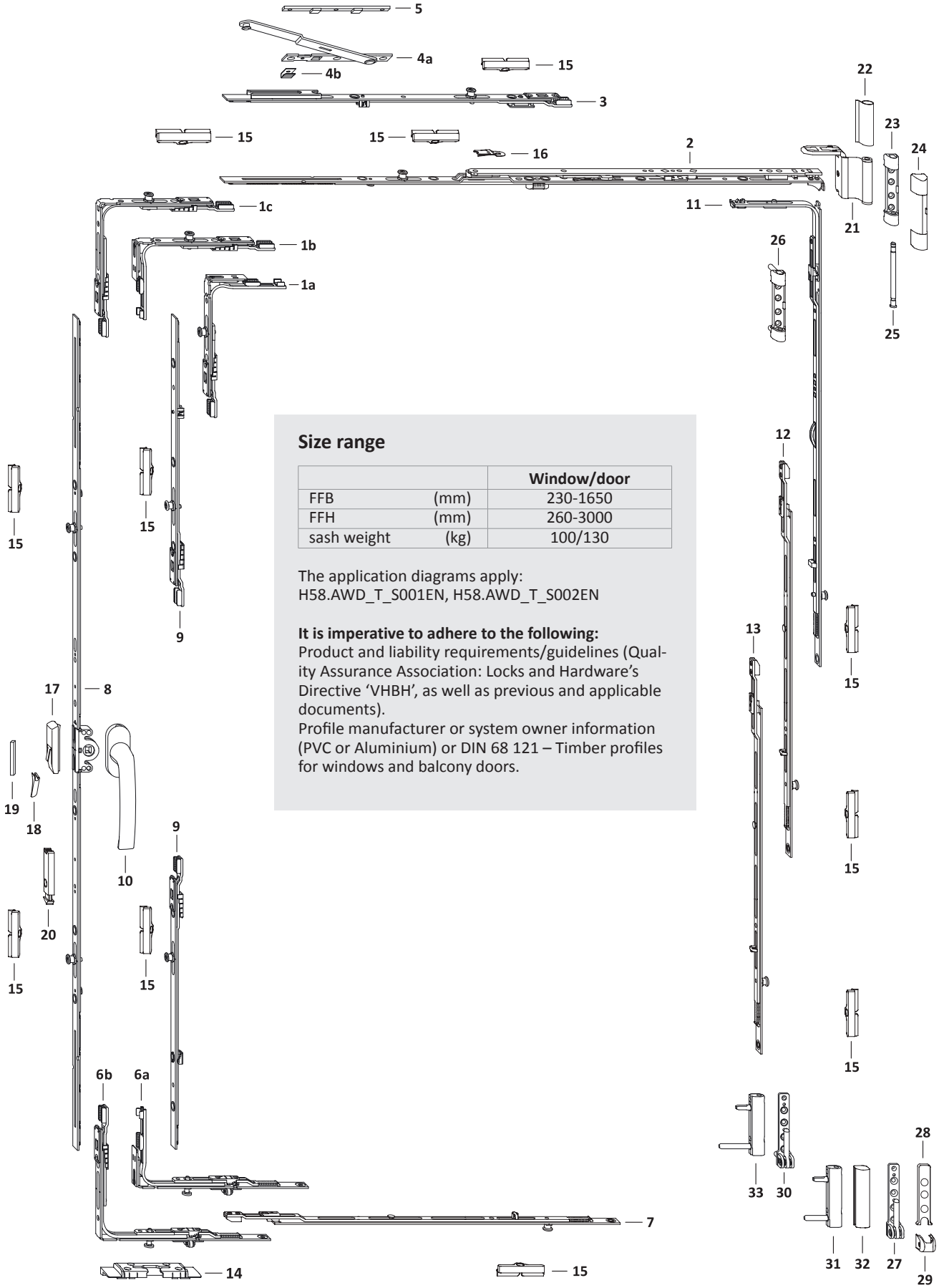
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GM Hinge side TITAN



Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	260-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

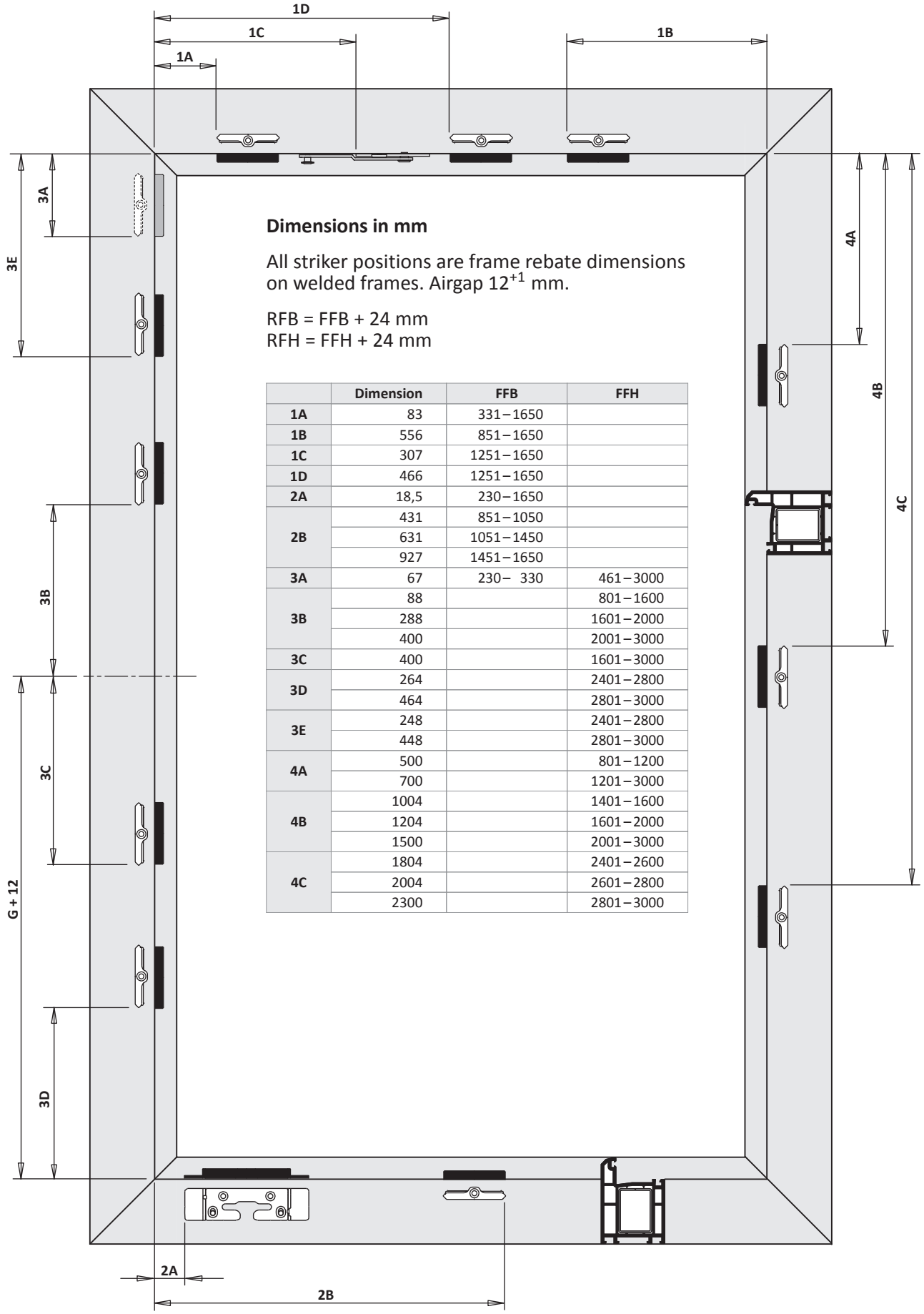
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							14	15
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230– 330	461–3000			1
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	331– 850	260– 460			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331–1650	461–3000			1
2	stay AF sz 0	TSKK2000- ...	1	230– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	331– 850	260– 460		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230–1650	461–3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
8	gear 15 AF sz 20	TGMK4010- ...	1	331– 850	260– 460	130– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
9	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
10	handle Globe	Ref.access. ZHGS	1		260–3000			
11	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
14	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
15	striker plate S 56	Ref. PDB, TRSM						
on request								
16	tilt restrictor ..	TFKB0010- ...	1		260– 800			
17	mishandling device	TFBS0010- ...	1					
18	pressure piece	Ref. PDB, TFFD	1					
19	stop	Ref. PDB, FRZF01	1					
20	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
21	stay hinge DH	Ref. PDB, TBWB61			1	1
22	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
23	top hinge 100kg	Ref. PDB, TBSL61			1	
24	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
25	top hinge pin Poly	TBSB6020-1 ...			1	1
26	top hinge 130kg	Ref. PDB, TBSL62				1
27	bottom hinge 100kg	Ref. PDB, TBEL01			1	
28	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
29	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
30	bottom hinge 130kg	Ref. PDB, TBEL02				1
31	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
32	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
33	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions

1-sash square tilt-turn
PVC GM Hinge side TITAN



Dimensions in mm

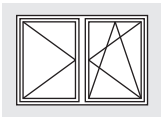
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	230–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	230– 330	461–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

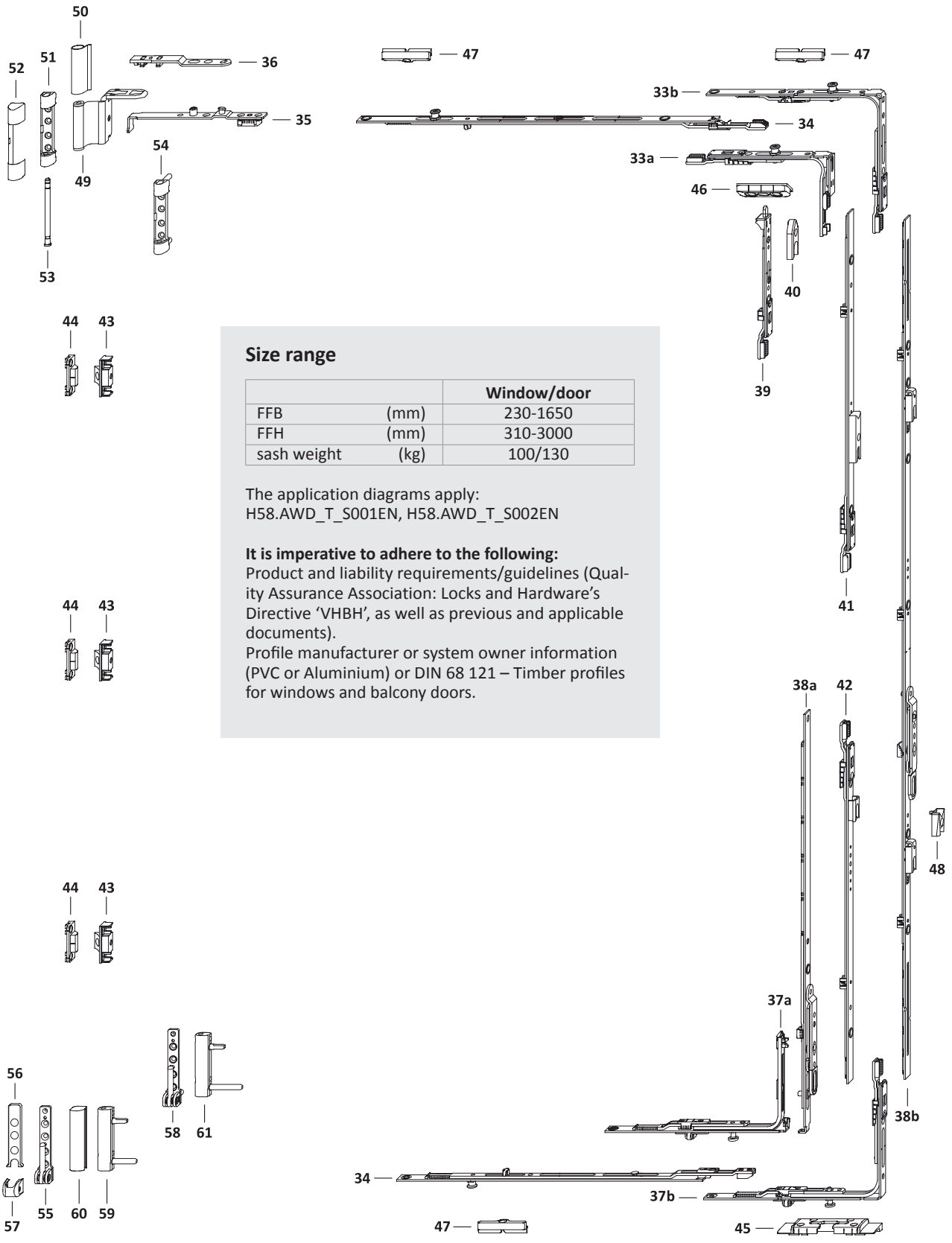
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

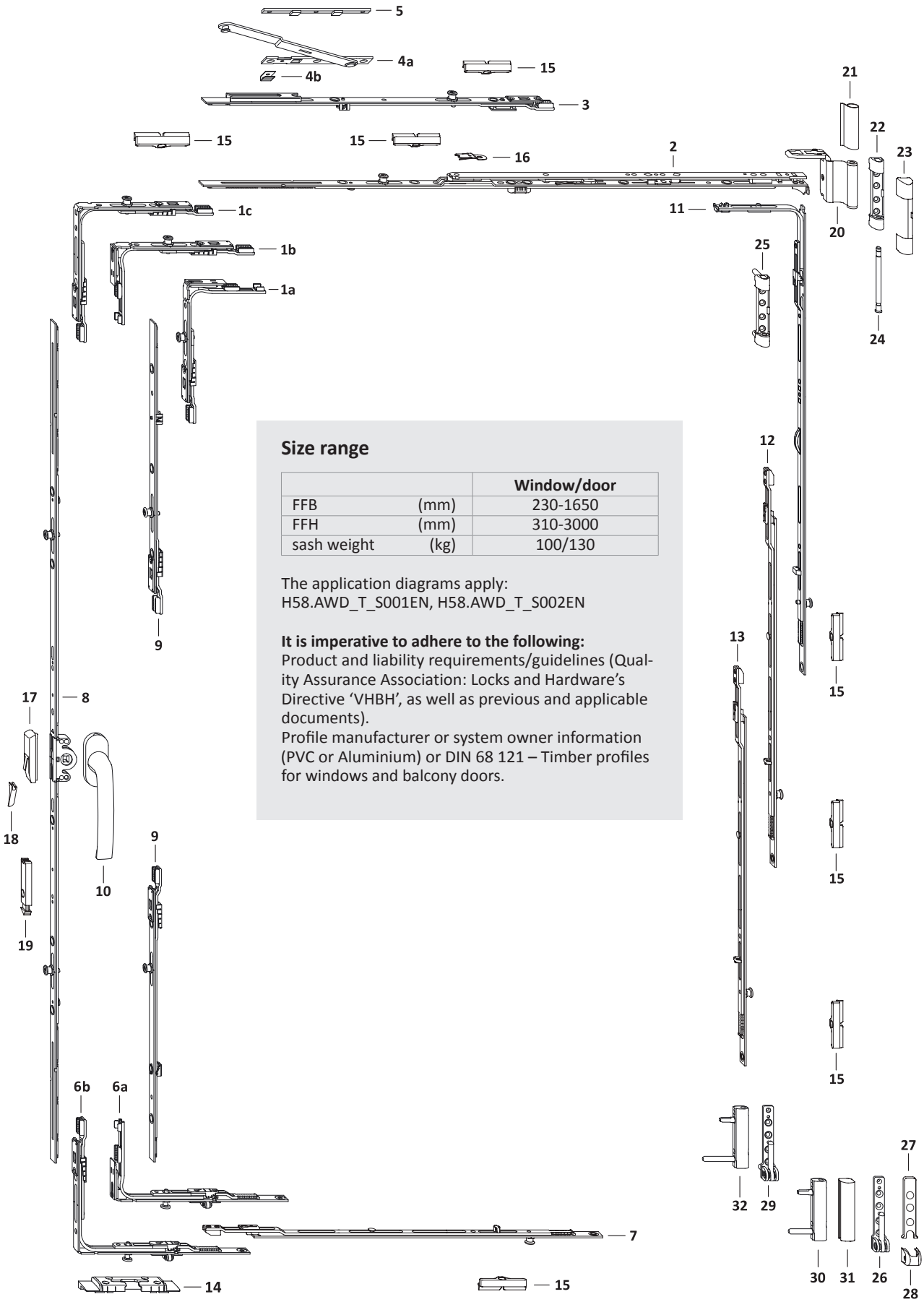


Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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Size range

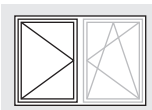
		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

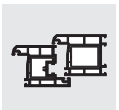
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	45	46	47
33a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371– 850	310– 460				1
33b	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	371–1650	461–3000				1
34	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					2
35	stay sash part DF/MN	TSSD0020- ...	1	230–1650					
36	stay arm DF	TSAD0010- ...	1	230–1650					
37a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	230–1650	461– 800		1		
	locking part VSU/K FH+ 1S	TEVR1400- ...		331– 850	310– 460		1		
37b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230–1650	801–3000		1		
38a	sec.sash gear 16 sz 30	TGKS0010- ...	1	371– 850	310– 460	155– 230			
	sec.sash gear 16 sz 30	TGKS0010- ...			461– 600	230– 300			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300– 400			
38b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801–1200	400– 600			
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201–1600	600– 800			
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000			
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001–3000	1000–1500			
39	locking bolt AF VSO RSA 11	TESC2030- ...	1	230– 370	461–3000			1	
40	striker plate A0767	TRSA0010- ...	1	230– 330	461–3000				
41	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
42	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800				
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000				
43	sash part MV	Ref. PDB, ZFMV01	1		801–1600				
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400				
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000				
44	frame part MV	Ref. PDB, ZRZM01	1		801–1600				
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400				
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000				
45	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
46	striker V	Ref. PDB, FRZV01							
47	striker plate S 56	Ref. PDB, TRSM							
on request									
48	striker snapper AF A0767	TRST0100- ...	1		1601–3000				

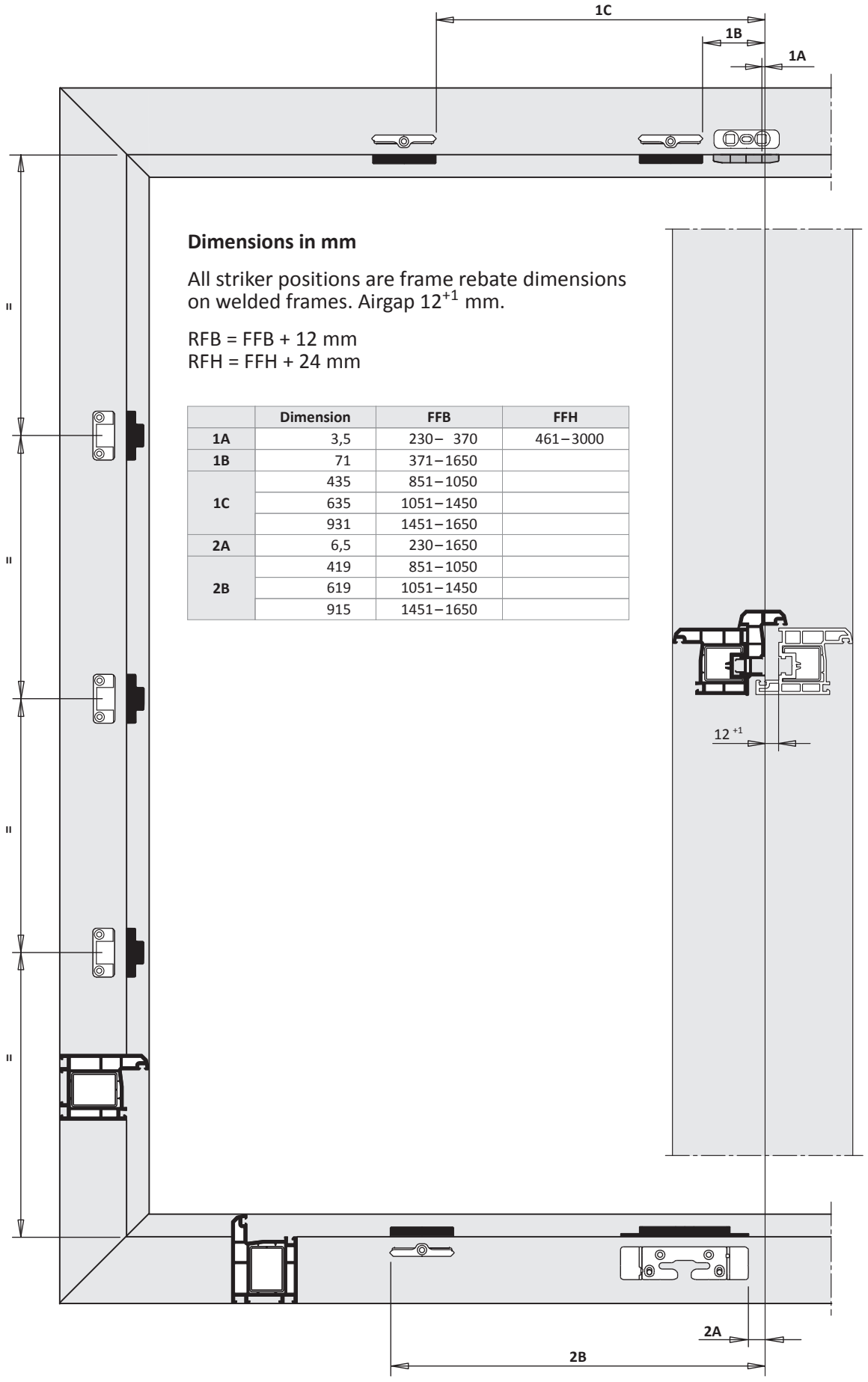
Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
49	stay hinge DH	Ref. PDB, TBWB61			1	1
50	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
51	top hinge 100kg	Ref. PDB, TBSL61			1	
52	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
53	top hinge pin Poly	TBSB6020-1 ...			1	1
54	top hinge 130kg	Ref. PDB, TBSL62				1
55	bottom hinge 100kg	Ref. PDB, TBEL01			1	
56	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
57	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
58	bottom hinge 130kg	Ref. PDB, TBEL02				1
59	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
60	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
61	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							14	15
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230 – 330	461 – 3000			
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	2	371 – 850	310 – 460			2
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331 – 1650	461 – 3000			1
2	stay AF sz 0	TSKK2000- ...	1	230 – 450				
	stay AF sz 1	TSKK2010- ...		451 – 680				
	stay AF sz 2	TSKK2020- ...		681 – 850				
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251 – 1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451 – 1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650				1
4	additional stay	Ref. PDB, TSZS	1	1251 – 1650				
5	packer Z	Ref. PDB, FRUP01	1	1251 – 1650				
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	371 – 850	310 – 460		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230 – 1650	461 – 3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650				1
8	gear 15 AF sz 20	TGMK4010- ...	1	371 – 850	310 – 460	155 – 230		
	gear 15 AF sz 20	TGMK4010- ...			461 – 600	230 – 300		
	gear 15 AF sz 60	TGMK4020- ...			601 – 800	300 – 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801 – 1200	400 – 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201 – 1600	600 – 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601 – 2000	800 – 1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001 – 3000	1000 – 1500		
9	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401 – 2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000			
10	handle Globe	Ref.access. ZHGS	1		310 – 3000			
11	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801 – 1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201 – 3000			1
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000			1
14	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
15	striker plate S 56	Ref. PDB, TRSM						
on request								
16	tilt restrictor ..	TFKB0010- ...	1		310 – 800			
17	mishandling device	TFBS0010- ...	1		601 – 3000			
18	pressure piece	Ref. PDB, TFFD	1		601 – 3000			
19	snapper rh.	TFST0021- ...	1		1601 – 3000			
	snapper lh.	TFST0022- ...			1601 – 3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
20	stay hinge DH	Ref. PDB, TBWB61			1	1
21	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
22	top hinge 100kg	Ref. PDB, TBSL61			1	
23	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
24	top hinge pin Poly	TBSB6020-1 ...			1	1
25	top hinge 130kg	Ref. PDB, TBSL62				1
26	bottom hinge 100kg	Ref. PDB, TBEL01			1	
27	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
28	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
29	bottom hinge 130kg	Ref. PDB, TBEL02				1
30	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
31	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
32	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

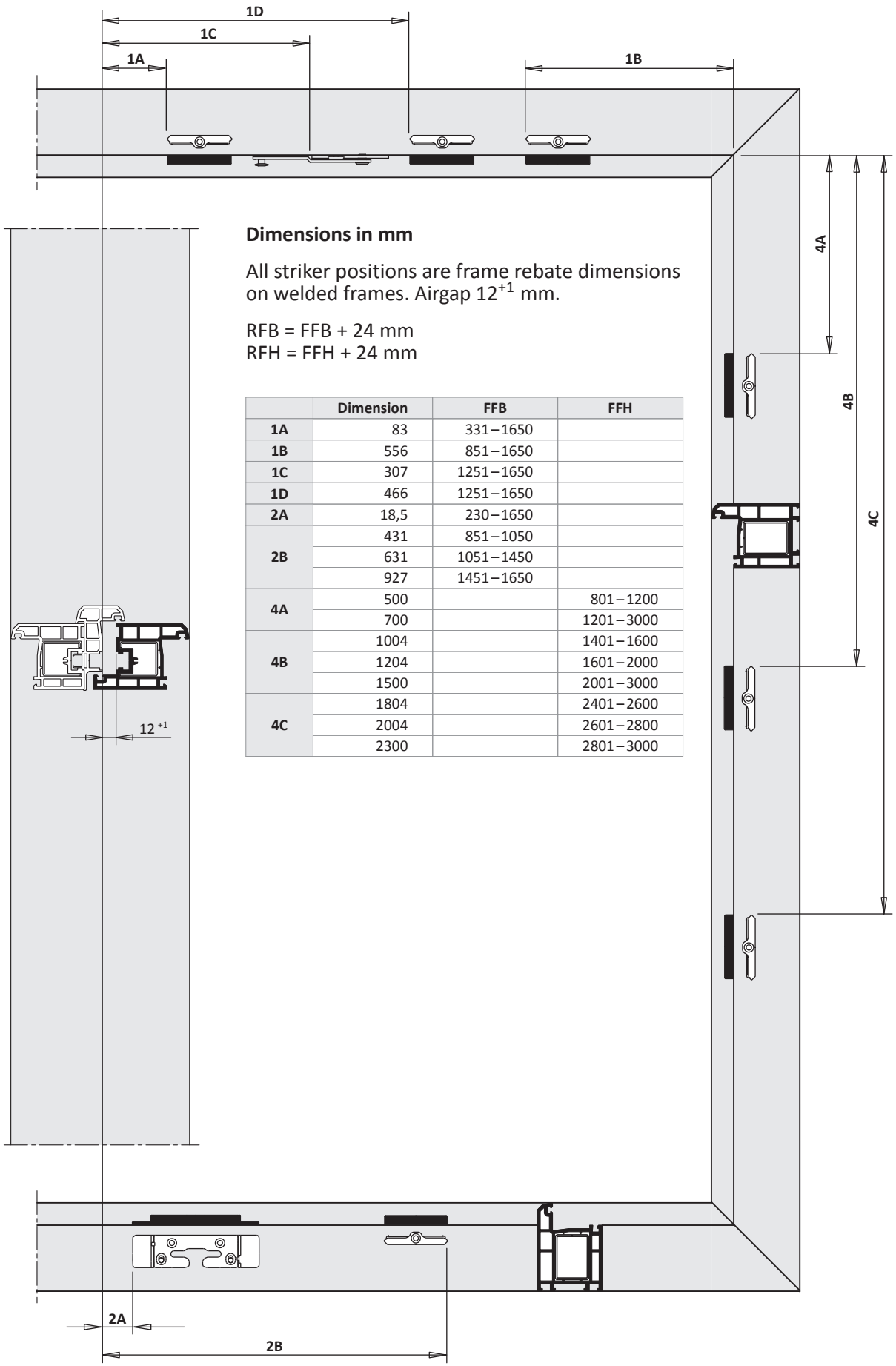


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	230– 370	461–3000
1B	71	371–1650	
1C	435	851–1050	
	635	1051–1450	
	931	1451–1650	
2A	6,5	230–1650	
2B	419	851–1050	
	619	1051–1450	
	915	1451–1650	



Dimensions in mm

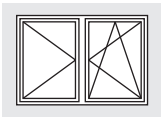
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	230–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

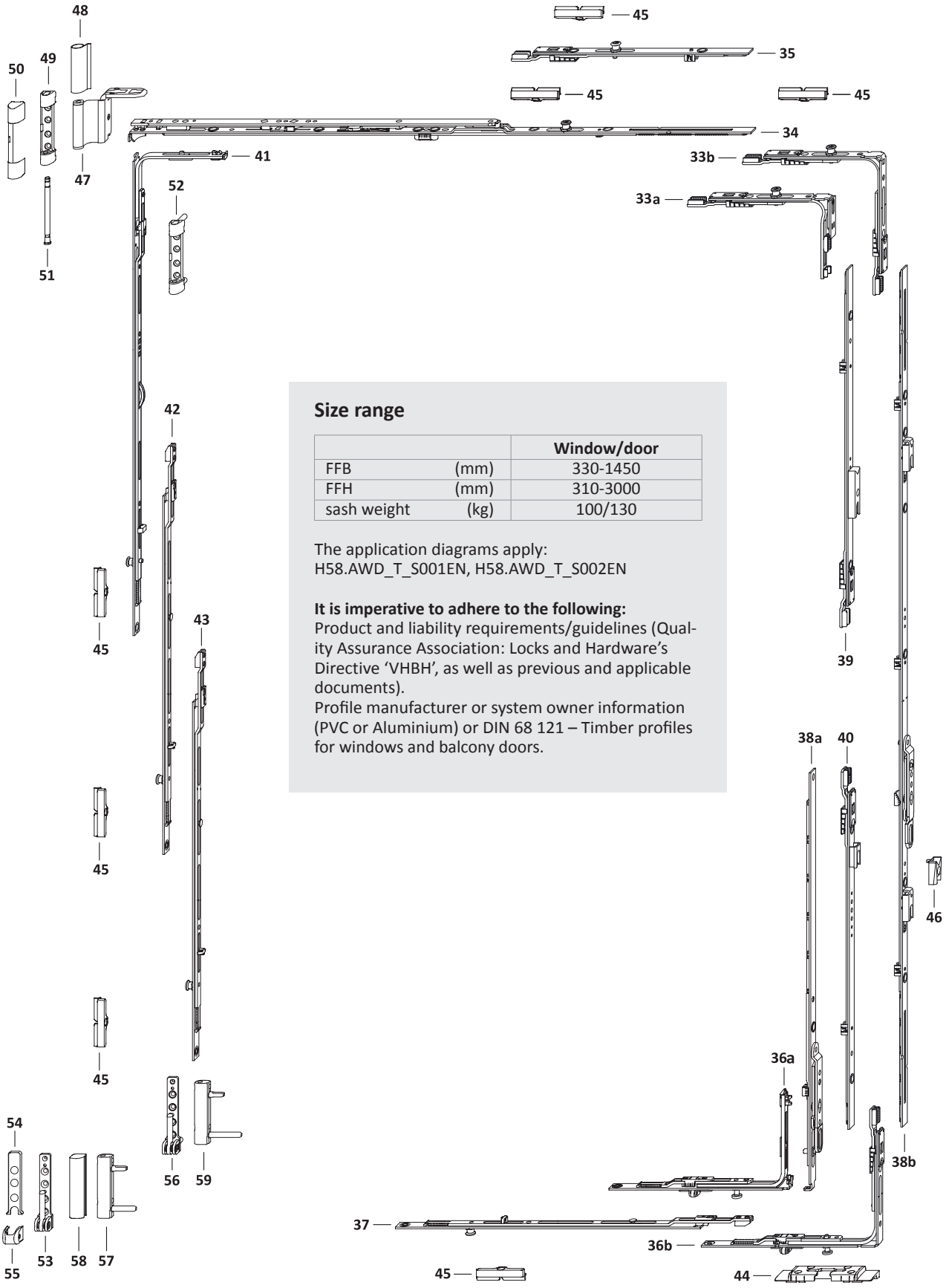
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800; secondary sash with DK-stay
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

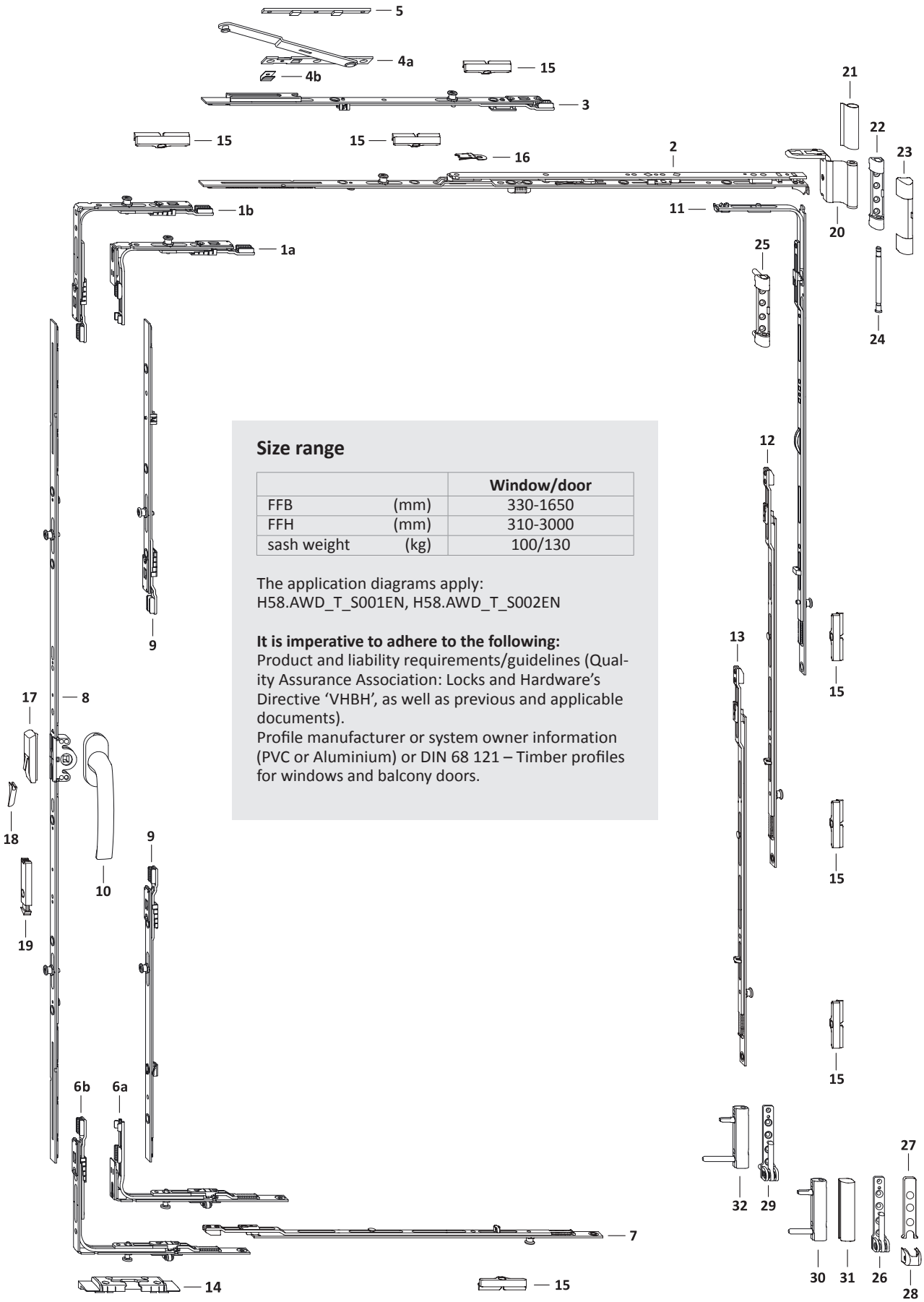


Size range

		Window/door
FFB	(mm)	330-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

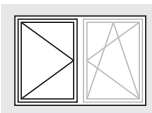
		Window/door
FFB	(mm)	330-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

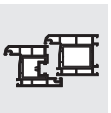
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

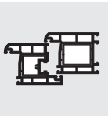
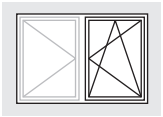
2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	44	45
33a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	330– 850	310– 460			1
33b	corn.drive VSO 1RS	TEUL4010- ...	1	330–1450	461–3000			1
34	stay AF sz 0	TSKK2000- ...	1	330– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1
35	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
36a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	330–1450	461– 800		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		330– 850	310– 460		1	
36b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	330–1450	801–3000		1	
37	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
38a	sec.sash gear 16 sz 30	TGKS0010- ...	1	330– 850	310– 460	155– 230		
	sec.sash gear 16 sz 30	TGKS0010- ...			461– 600	230– 300		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300– 400		
38b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801–1200	400– 600		
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201–1600	600– 800		
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000		
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001–3000	1000–1500		
39	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
40	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800			
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000			
41	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
44	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
45	striker plate S 56	Ref. PDB, TRSM						
on request								
46	striker snapper AF A0767	TRST0100- ...	1		1601–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
47	stay hinge DH	Ref. PDB, TBWB61			1	1
48	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
49	top hinge 100kg	Ref. PDB, TBSL61			1	
50	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
51	top hinge pin Poly	TBSB6020-1 ...			1	1
52	top hinge 130kg	Ref. PDB, TBSL62				1
53	bottom hinge 100kg	Ref. PDB, TBEL01			1	
54	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
55	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
56	bottom hinge 130kg	Ref. PDB, TBEL02				1
57	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
58	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
59	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

TITAN AF

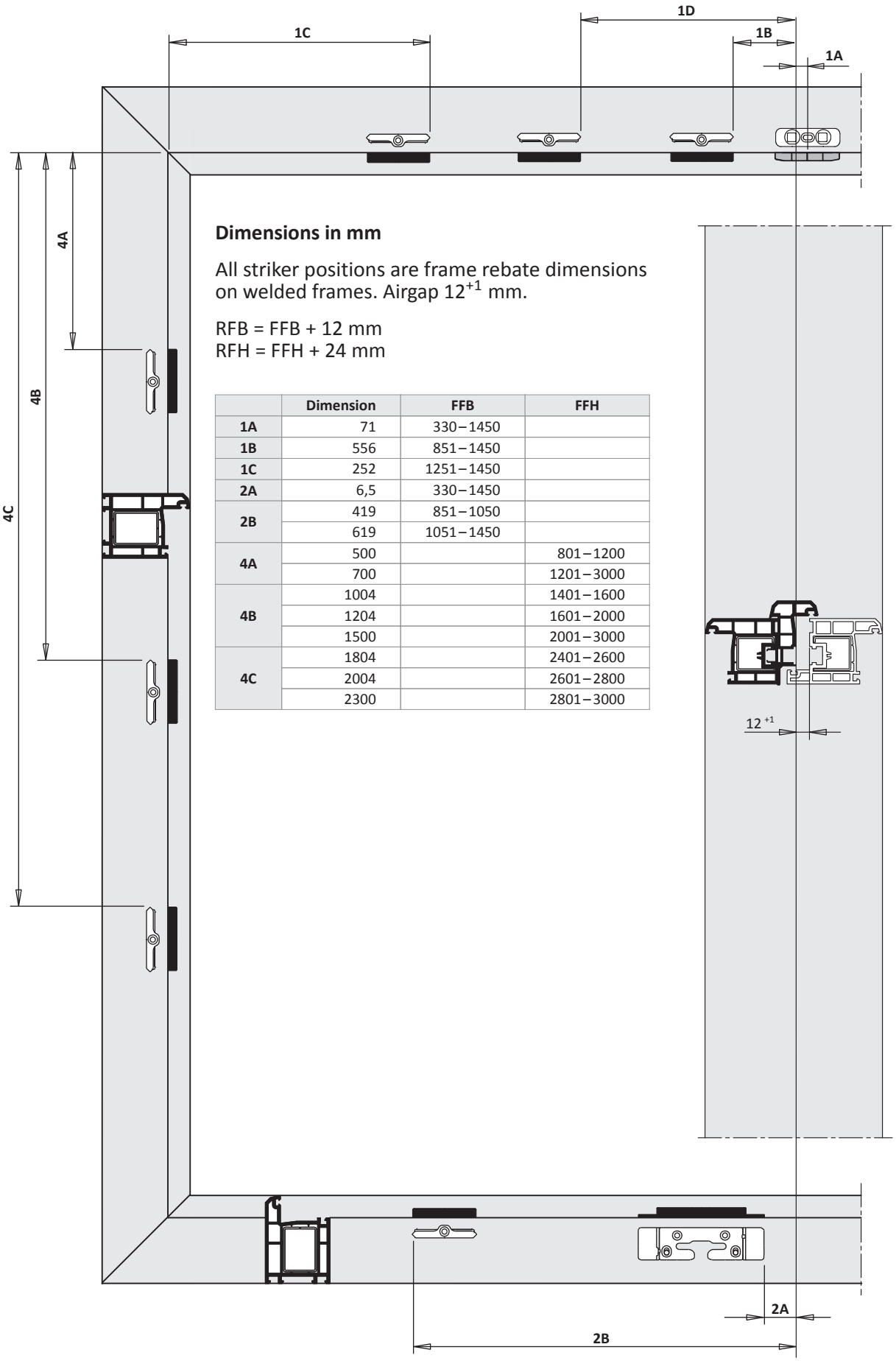
GS

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							14	15
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	330– 850	310– 460			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	330–1650	461–3000			1
2	stay AF sz 0	TSKK2000- ...	1	330– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	330– 850	310– 460		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	330–1650	461–3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
8	gear 15 AF sz 20	TGMK4010- ...	1	330– 850	310– 460	155– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		
9	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
10	handle Globe	Ref.access. ZHGS	1		310–3000			
11	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
14	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
15	striker plate S 56	Ref. PDB, TRSM						
on request								
16	tilt restrictor ..	TFKB0010- ...	1		310– 800			
17	mishandling device	TFBS0010- ...	1		601–3000			
18	pressure piece	Ref. PDB, TFFD	1		601–3000			
19	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
20	stay hinge DH	Ref. PDB, TBWB61			1	1
21	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
22	top hinge 100kg	Ref. PDB, TBSL61			1	
23	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
24	top hinge pin Poly	TBSB6020-1 ...			1	1
25	top hinge 130kg	Ref. PDB, TBSL62				1
26	bottom hinge 100kg	Ref. PDB, TBEL01			1	
27	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
28	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
29	bottom hinge 130kg	Ref. PDB, TBEL02				1
30	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
31	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
32	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

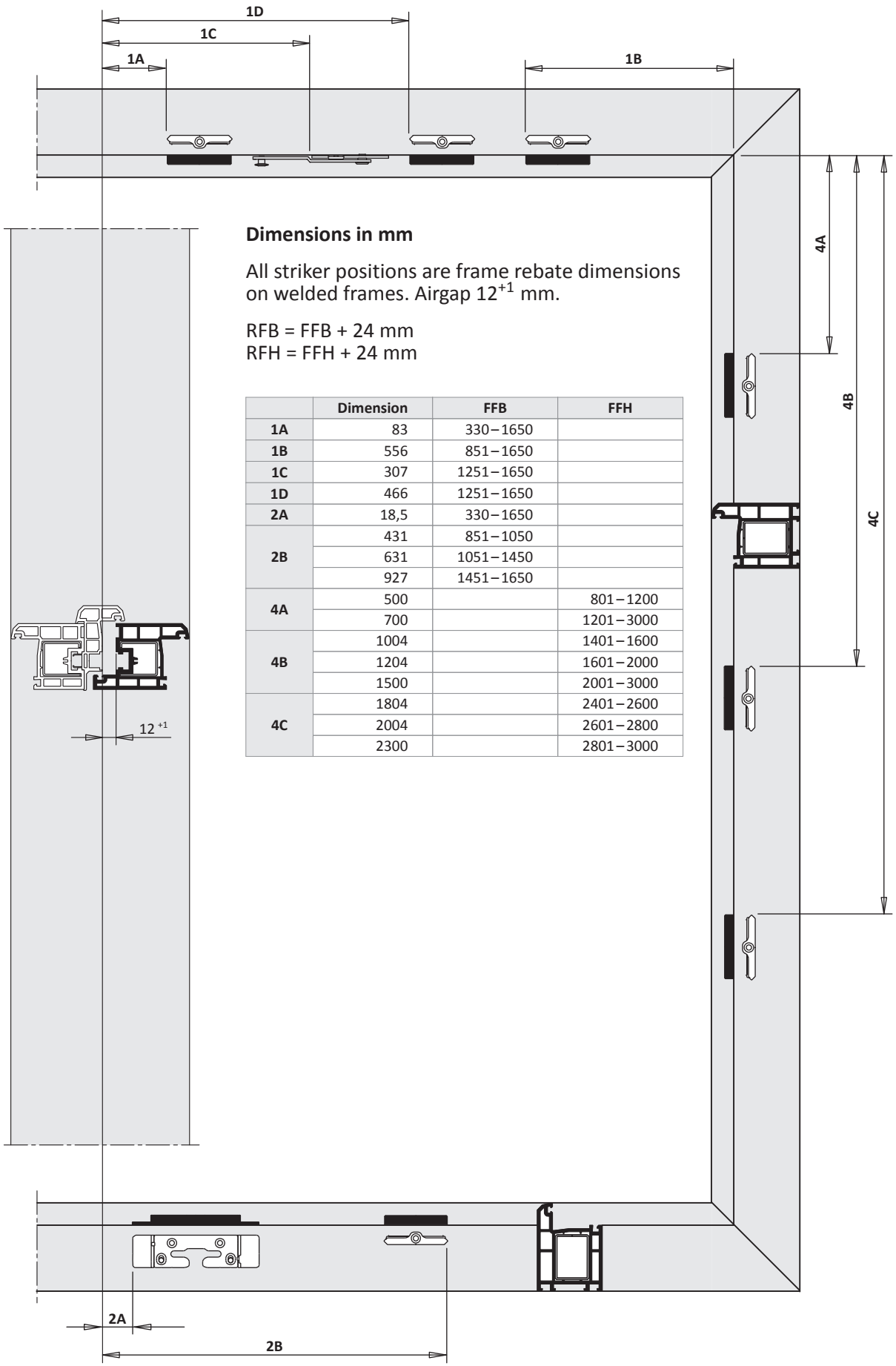


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	330–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	6,5	330–1450	
2B	419	851–1050	
	619	1051–1450	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

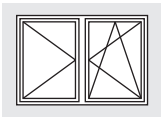
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	330–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	330–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16 fitting groove

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

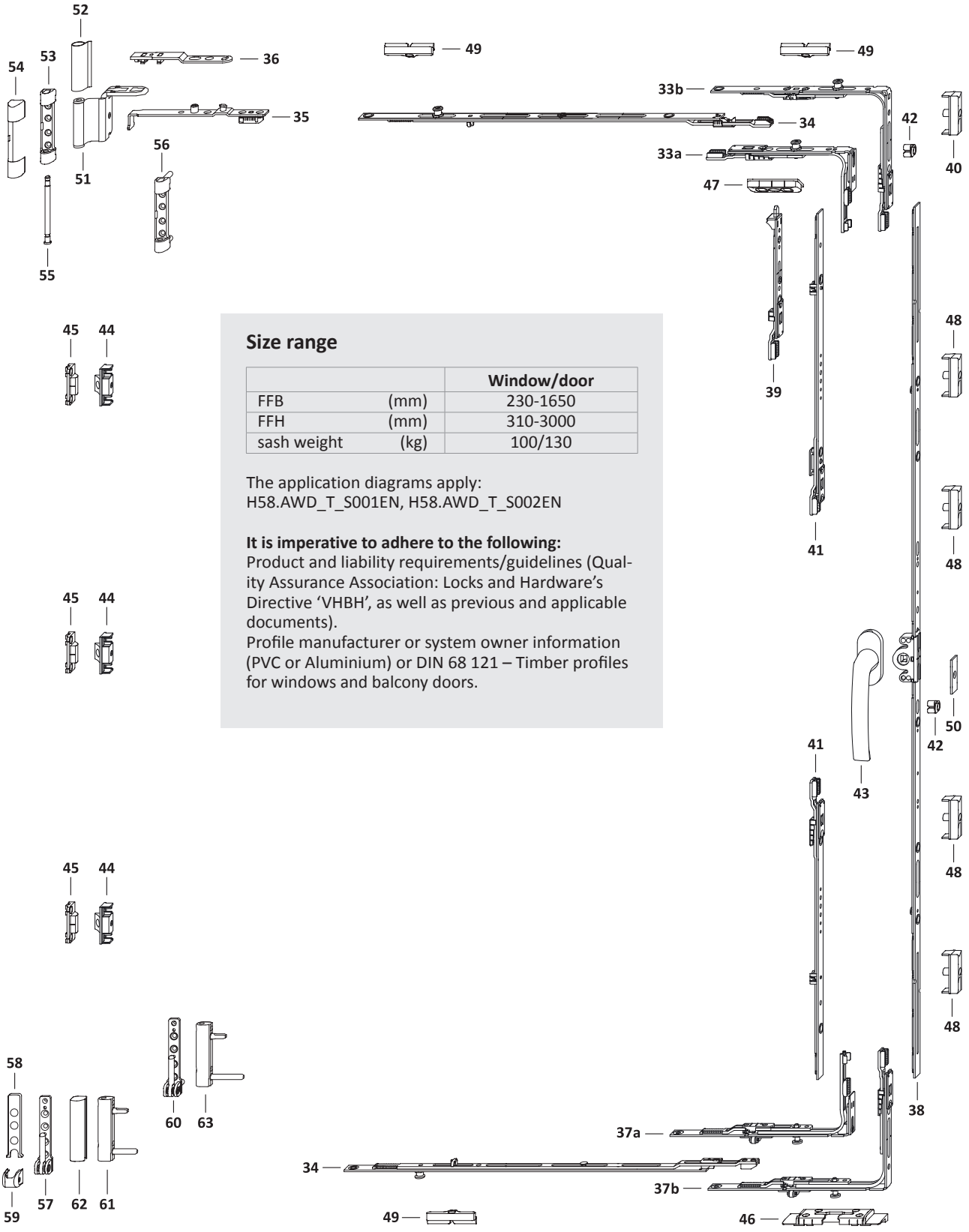
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN

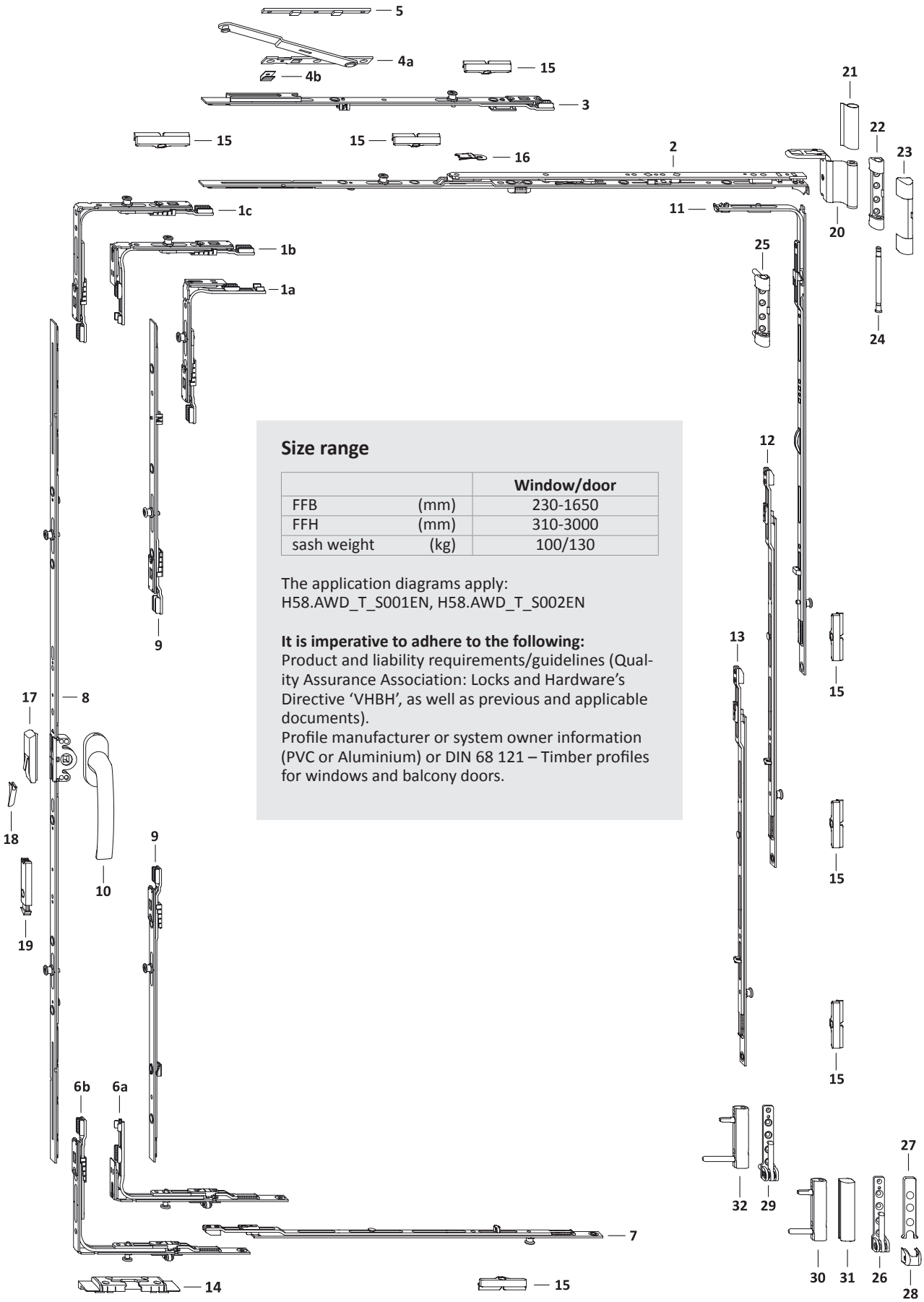


Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

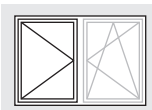
		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

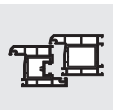
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

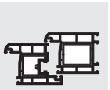
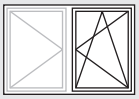
2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.			
						In the main sash	46	47	48	49
33a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371– 850	310– 460					1
33b	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	371–1650	461–3000					1
34	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050						2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450						2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650						2
35	stay sash part DF/MN	TSSD0020- ...	1	230–1650						
36	stay arm DF	TSAD0010- ...	1	230–1650						
37a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	371– 850	310– 460		1			
37b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230–1650	461–3000		1			
38	gear 15 AF sz 20	TGMK4010- ...	1	371– 850	310– 460	155– 230				
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300				
	gear 15 AF sz 60	TGMK4020- ...			601–1000	300– 500				
	gear 15 AF sz 80 1RS	TGMK9080- ...			1001–1200	500– 600			1	
	gear 15 AF sz 120 1RS	TGMK9090- ...			1201–1600	600– 800			1	
	gear 15 AF sz 160 2RS 70	TGMK9120- ...			1601–2000	800–1000			2	
	gear 15 AF sz 200 2RS	TGMK9110- ...			2001–3000	1000–1500			2	
39	locking bolt AF VSO RSA 11	TESC2030- ...	1	230– 370	461–3000			1		
40	striker plate 56 A2000	TRSB0030- ...	1	230– 330	461–3000					
41	linkage KK/AF sz 1 1RS	TZKS1040- ...	2		2401–2800				2	
	linkage KK/AF sz 2 1RS	TZKS1050- ...			2801–3000				2	
42	travel restrictor	TFHB0010- ...	1		310–3000					
43	handle Globe	Ref.access. ZHGS	1		310–3000					
44	sash part MV	Ref. PDB, ZFMV01	1		801–1600					
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400					
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000					
45	frame part MV	Ref. PDB, ZRZM01	1		801–1600					
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400					
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000					
46	tilt lock bear. S-ES FH	Ref. PDB, FRKA								
47	striker V	Ref. PDB, FRZV01								
48	striker plate 56 A2000	TRSB0030- ...								
49	striker plate S 56	Ref. PDB, TRSM								
on request										
50	stop 2,2mm	710937	1		601–3000					

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
51	stay hinge DH	Ref. PDB, TBWB61			1	1
52	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
53	top hinge 100kg	Ref. PDB, TBSL61			1	
54	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
55	top hinge pin Poly	TBSB6020-1 ...			1	1
56	top hinge 130kg	Ref. PDB, TBSL62				1
57	bottom hinge 100kg	Ref. PDB, TBEL01			1	
58	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
59	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
60	bottom hinge 130kg	Ref. PDB, TBEL02				1
61	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
62	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
63	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN

TITAN AF

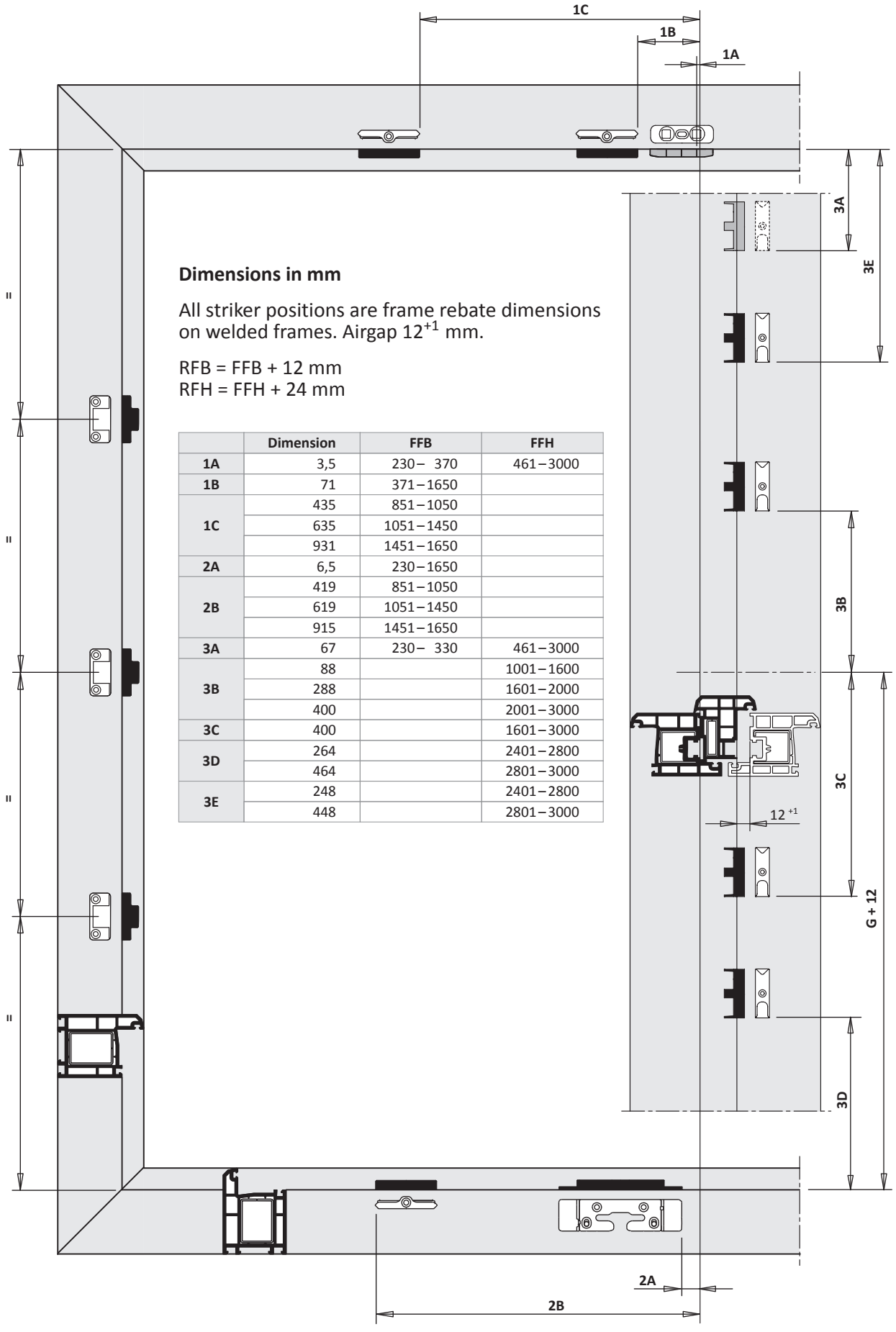
GS

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							14	15
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230 – 330	461 – 3000			
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	2	371 – 850	310 – 460			2
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331 – 1650	461 – 3000			1
2	stay AF sz 0	TSKK2000- ...	1	230 – 450				
	stay AF sz 1	TSKK2010- ...		451 – 680				
	stay AF sz 2	TSKK2020- ...		681 – 850				
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251 – 1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451 – 1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650				1
4	additional stay	Ref. PDB, TSZS	1	1251 – 1650				
5	packer Z	Ref. PDB, FRUP01	1	1251 – 1650				
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	371 – 850	310 – 460		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230 – 1650	461 – 3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650				1
8	gear 15 AF sz 20	TGMK4010- ...	1	371 – 850	310 – 460	155 – 230		
	gear 15 AF sz 20	TGMK4010- ...			461 – 600	230 – 300		
	gear 15 AF sz 60	TGMK4020- ...			601 – 800	300 – 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801 – 1200	400 – 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201 – 1600	600 – 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601 – 2000	800 – 1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001 – 3000	1000 – 1500		
9	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401 – 2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000			
10	handle Globe	Ref.access. ZHGS	1		310 – 3000			
11	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801 – 1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201 – 3000			1
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000			1
14	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
15	striker plate S 56	Ref. PDB, TRSM						
on request								
16	tilt restrictor ..	TFKB0010- ...	1		310 – 800			
17	mishandling device	TFBS0010- ...	1		601 – 3000			
18	pressure piece	Ref. PDB, TFFD	1		601 – 3000			
19	snapper rh.	TFST0021- ...	1		1601 – 3000			
	snapper lh.	TFST0022- ...			1601 – 3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
20	stay hinge DH	Ref. PDB, TBWB61			1	1
21	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
22	top hinge 100kg	Ref. PDB, TBSL61			1	
23	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
24	top hinge pin Poly	TBSB6020-1 ...			1	1
25	top hinge 130kg	Ref. PDB, TBSL62				1
26	bottom hinge 100kg	Ref. PDB, TBEL01			1	
27	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
28	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
29	bottom hinge 130kg	Ref. PDB, TBEL02				1
30	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
31	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
32	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN

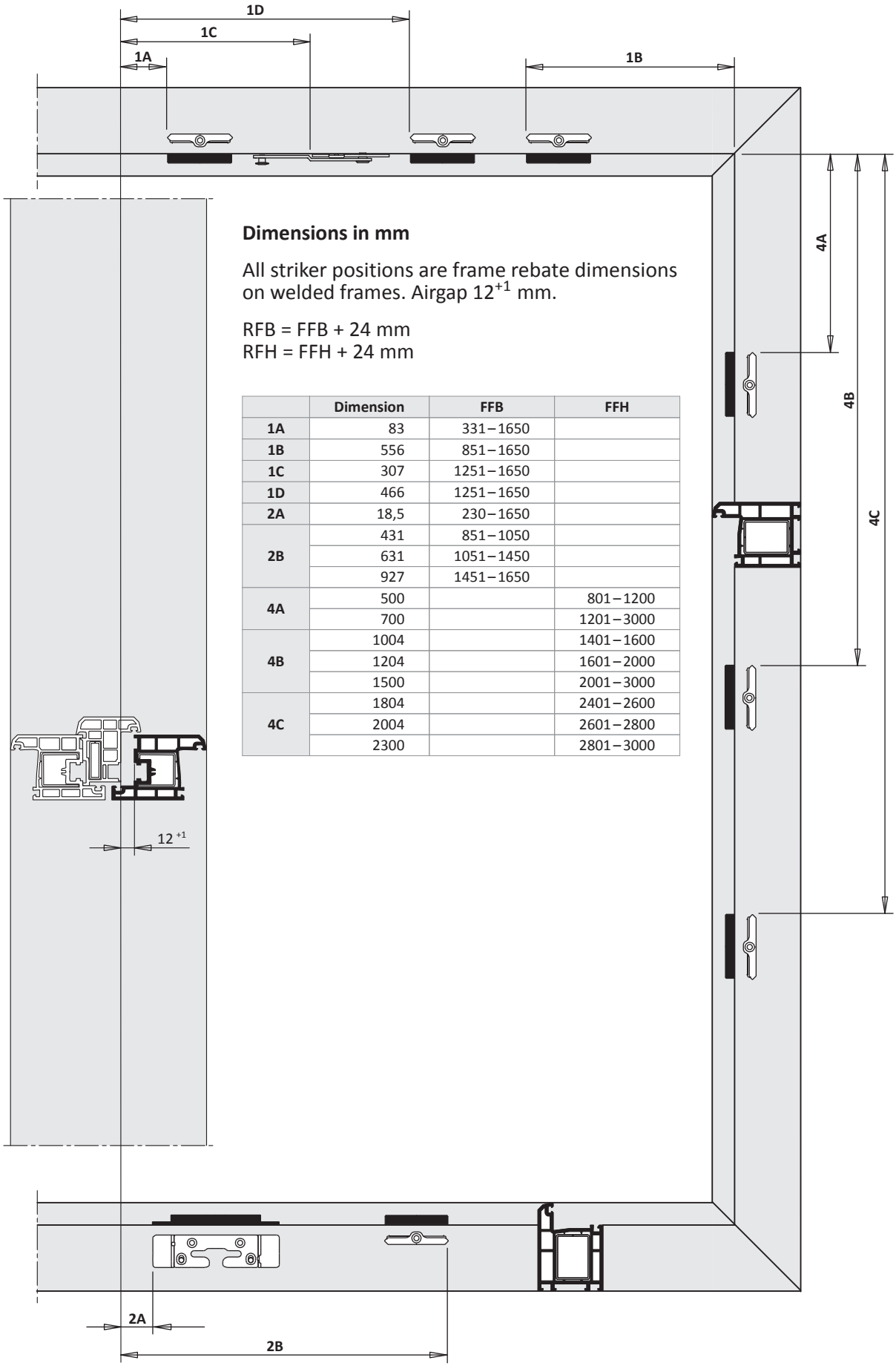


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	230 – 370	461 – 3000
1B	71	371 – 1650	
1C	435	851 – 1050	
	635	1051 – 1450	
	931	1451 – 1650	
2A	6,5	230 – 1650	
2B	419	851 – 1050	
	619	1051 – 1450	
	915	1451 – 1650	
3A	67	230 – 330	461 – 3000
3B	88		1001 – 1600
	288		1601 – 2000
	400		2001 – 3000
3C	400		1601 – 3000
3D	264		2401 – 2800
	464		2801 – 3000
3E	248		2401 – 2800
	448		2801 – 3000



Dimensions in mm

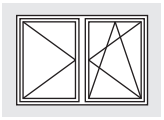
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	230–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16 bolt

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

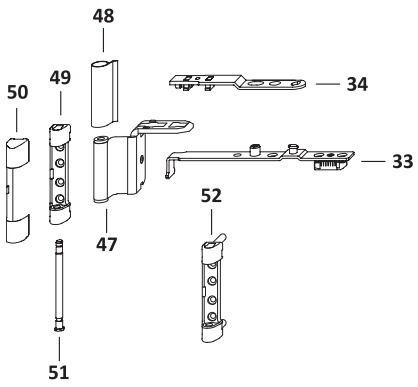
surface TS

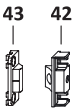
backset 15 mm

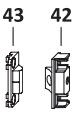
Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

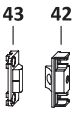
hardware layout slave sash

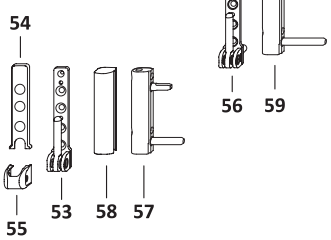
2-sash square tilt-turn/turn DS 16 bolt
PVC GM Hinge side TITAN









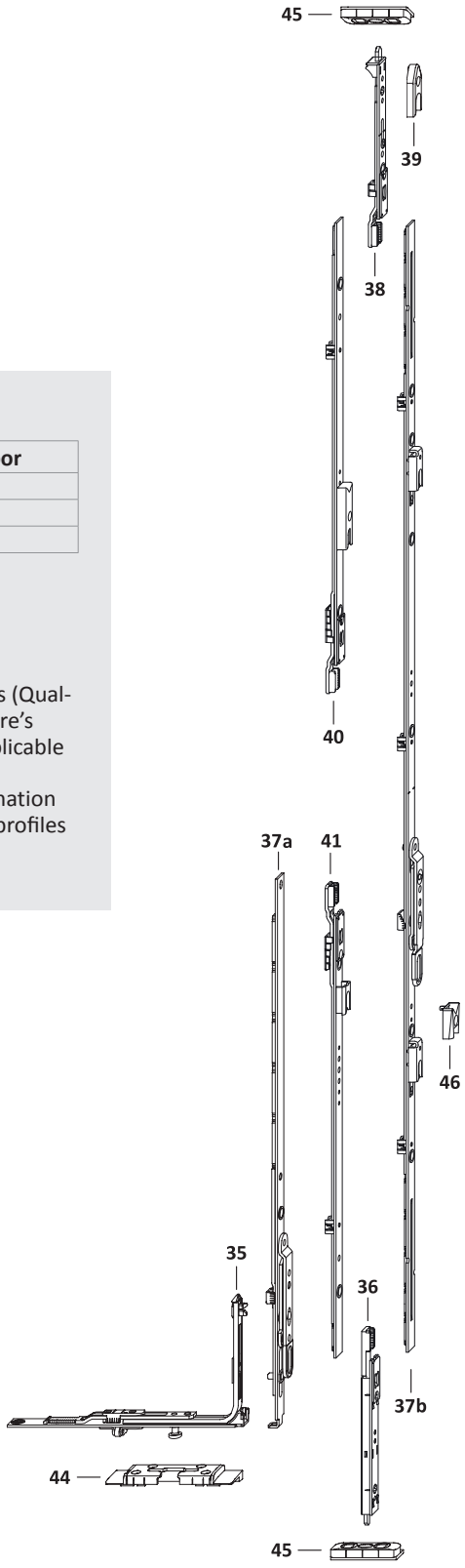


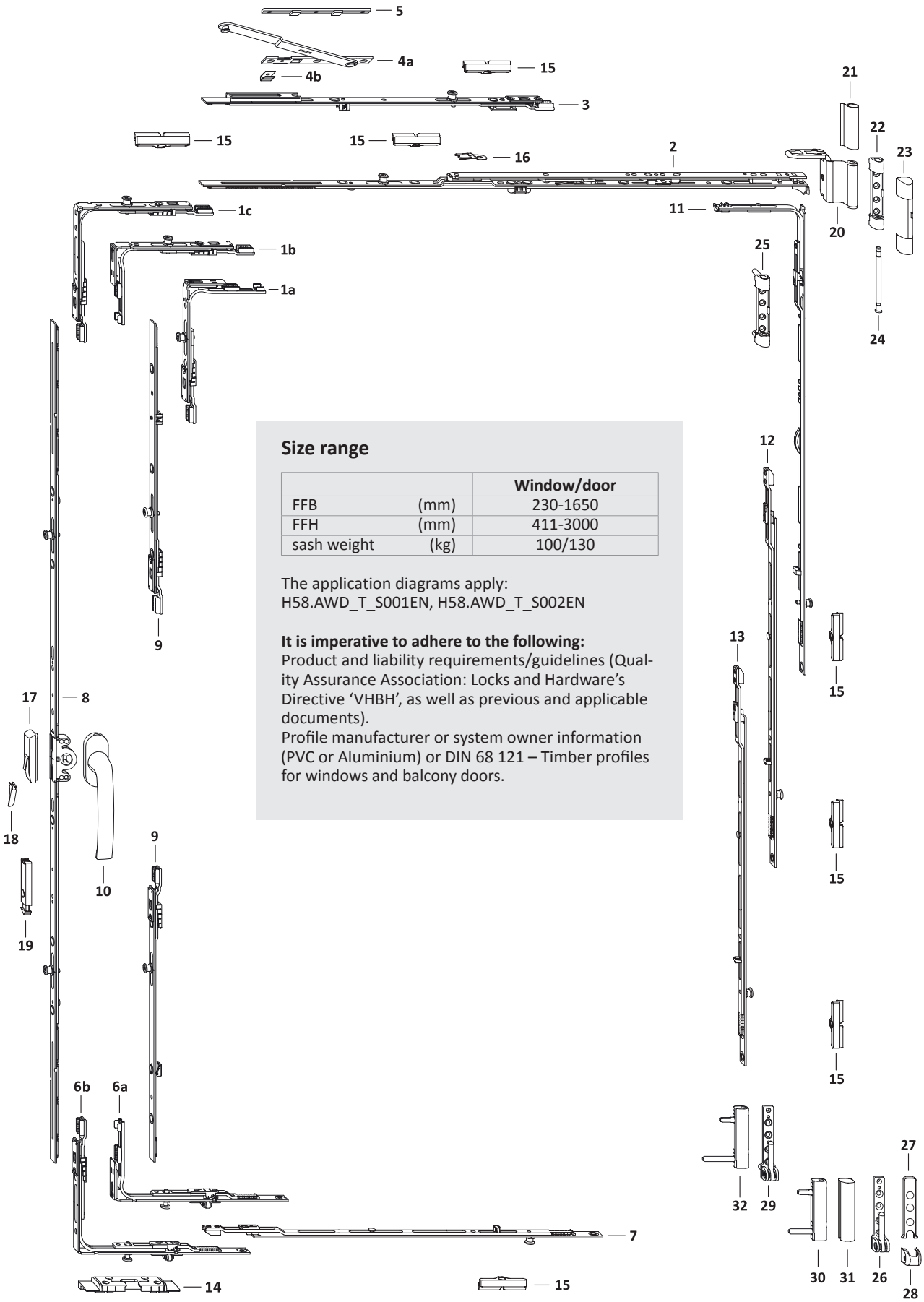
Size range

		Window/door
FFB	(mm)	230-850
FFH	(mm)	411-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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Size range

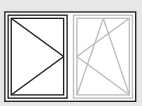
		Window/door
FFB	(mm)	230-1650
FFH	(mm)	411-3000
sash weight	(kg)	100/130

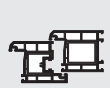
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

2-sash square tilt-turn/turn DS 16 bolt
PVC GM Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	44	45
33	stay sash part DF/MN	TSSD0020- ...	1	230 – 850				
34	stay arm DF	TSAD0010- ...	1	230 – 850				
35	locking part VSU/K FH+ 1S	TEVR1400- ...	1	230 – 850	411 – 800		1	
36	locking bolt AF VSU/G RSA 11	TESC3050- ...	1		801 – 3000			1
37a	sec.sash gear 16 sz 30	TGKS0010- ...	1		411 – 460	205 – 230		
	sec.sash gear 16 sz 30	TGKS0010- ...			461 – 600	230 – 300		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601 – 800	300 – 400		
37b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801 – 1200	400 – 600		
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201 – 1600	600 – 800		
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601 – 2000	800 – 1000		
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001 – 3000	1000 – 1500		
38	locking bolt AF VSO RSA 11	TESC2030- ...	1		411 – 3000			1
39	striker plate A0767	TRSA0010- ...	1	230 – 330	461 – 3000			
40	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401 – 2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000			
41	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401 – 2800			
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801 – 3000			
42	sash part MV	Ref. PDB, ZFMV01	1		801 – 1600			
	sash part MV	Ref. PDB, ZFMV01	2		1601 – 2400			
	sash part MV	Ref. PDB, ZFMV01	3		2401 – 3000			
43	frame part MV	Ref. PDB, ZRZM01	1		801 – 1600			
	frame part MV	Ref. PDB, ZRZM01	2		1601 – 2400			
	frame part MV	Ref. PDB, ZRZM01	3		2401 – 3000			
44	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
45	striker V	Ref. PDB, FRZV02						
on request								
46	striker snapper AF A0767	TRST0100- ...	1		1601 – 3000			

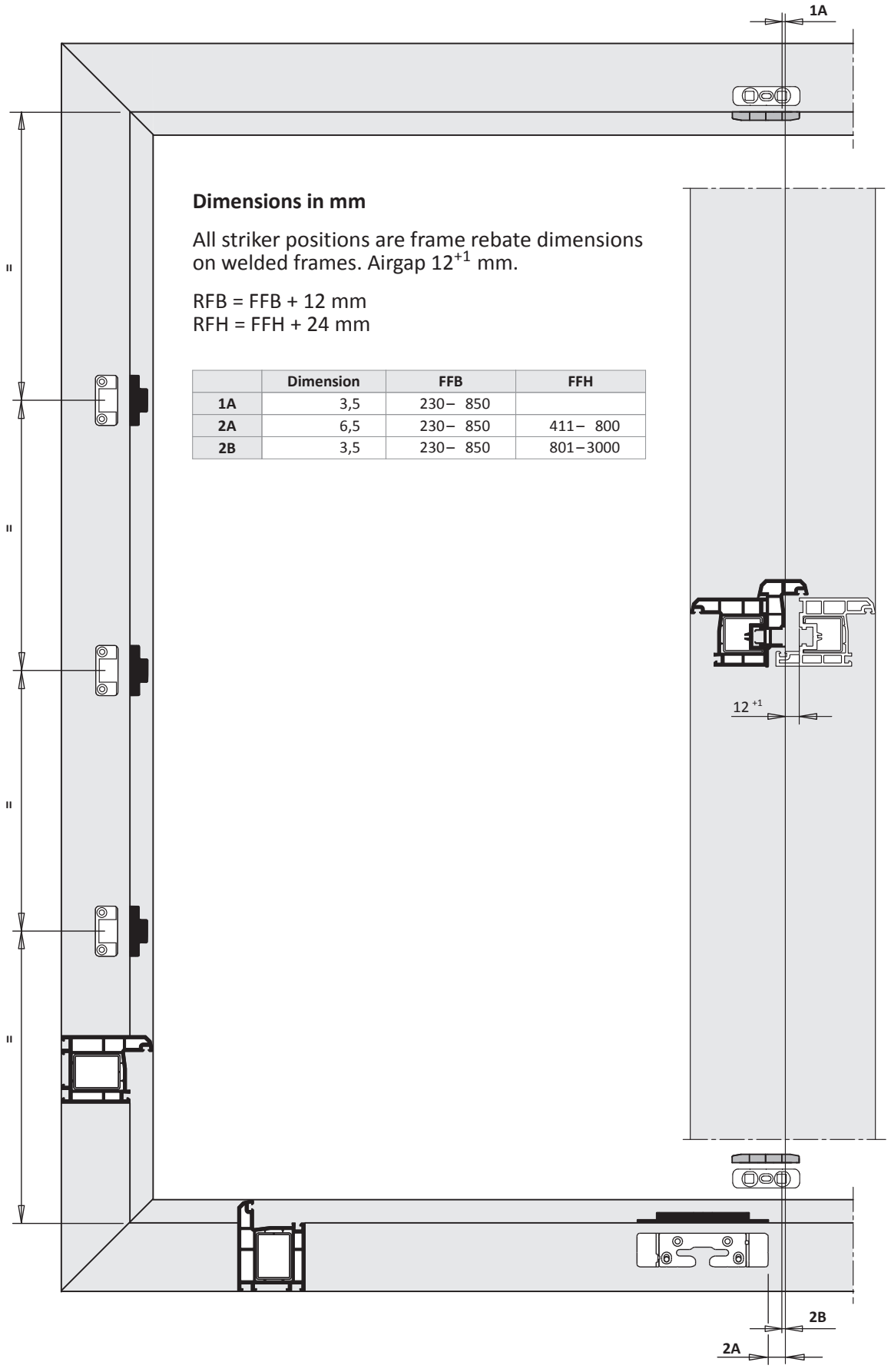
Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
47	stay hinge DH	Ref. PDB, TBWB61			1	1
48	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
49	top hinge 100kg	Ref. PDB, TBSL61			1	
50	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
51	top hinge pin Poly	TBSB6020-1 ...			1	1
52	top hinge 130kg	Ref. PDB, TBSL62				1
53	bottom hinge 100kg	Ref. PDB, TBEL01			1	
54	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
55	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
56	bottom hinge 130kg	Ref. PDB, TBEL02				1
57	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
58	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
59	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							14	15
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230 – 330	461 – 3000			
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	2	371 – 850	411 – 460			2
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331 – 1650	461 – 3000			1
2	stay AF sz 0	TSKK2000- ...	1	230 – 450				
	stay AF sz 1	TSKK2010- ...		451 – 680				
	stay AF sz 2	TSKK2020- ...		681 – 850				
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251 – 1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451 – 1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650				1
4	additional stay	Ref. PDB, TSZS	1	1251 – 1650				
5	packer Z	Ref. PDB, FRUP01	1	1251 – 1650				
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	371 – 850	411 – 460		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230 – 1650	461 – 3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650				1
8	gear 15 AF sz 20	TGMK4010- ...	1	371 – 850	411 – 460	205 – 230		
	gear 15 AF sz 20	TGMK4010- ...			461 – 600	230 – 300		
	gear 15 AF sz 60	TGMK4020- ...			601 – 800	300 – 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801 – 1200	400 – 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201 – 1600	600 – 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601 – 2000	800 – 1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001 – 3000	1000 – 1500		
9	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401 – 2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000			
10	handle Globe	Ref.access. ZHGS	1		411 – 3000			
11	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801 – 1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201 – 3000			1
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000			1
14	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
15	striker plate S 56	Ref. PDB, TRSM						
	on request							
16	tilt restrictor ..	TFKB0010- ...	1		411 – 800			
17	mishandling device	TFBS0010- ...	1		601 – 3000			
18	pressure piece	Ref. PDB, TFFD	1		601 – 3000			
19	snapper rh.	TFST0021- ...	1		1601 – 3000			
	snapper lh.	TFST0022- ...			1601 – 3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
20	stay hinge DH	Ref. PDB, TBWB61			1	1
21	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
22	top hinge 100kg	Ref. PDB, TBSL61			1	
23	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
24	top hinge pin Poly	TBSB6020-1 ...			1	1
25	top hinge 130kg	Ref. PDB, TBSL62				1
26	bottom hinge 100kg	Ref. PDB, TBEL01			1	
27	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
28	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
29	bottom hinge 130kg	Ref. PDB, TBEL02				1
30	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
31	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
32	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16 bolt
PVC GM Hinge side TITAN

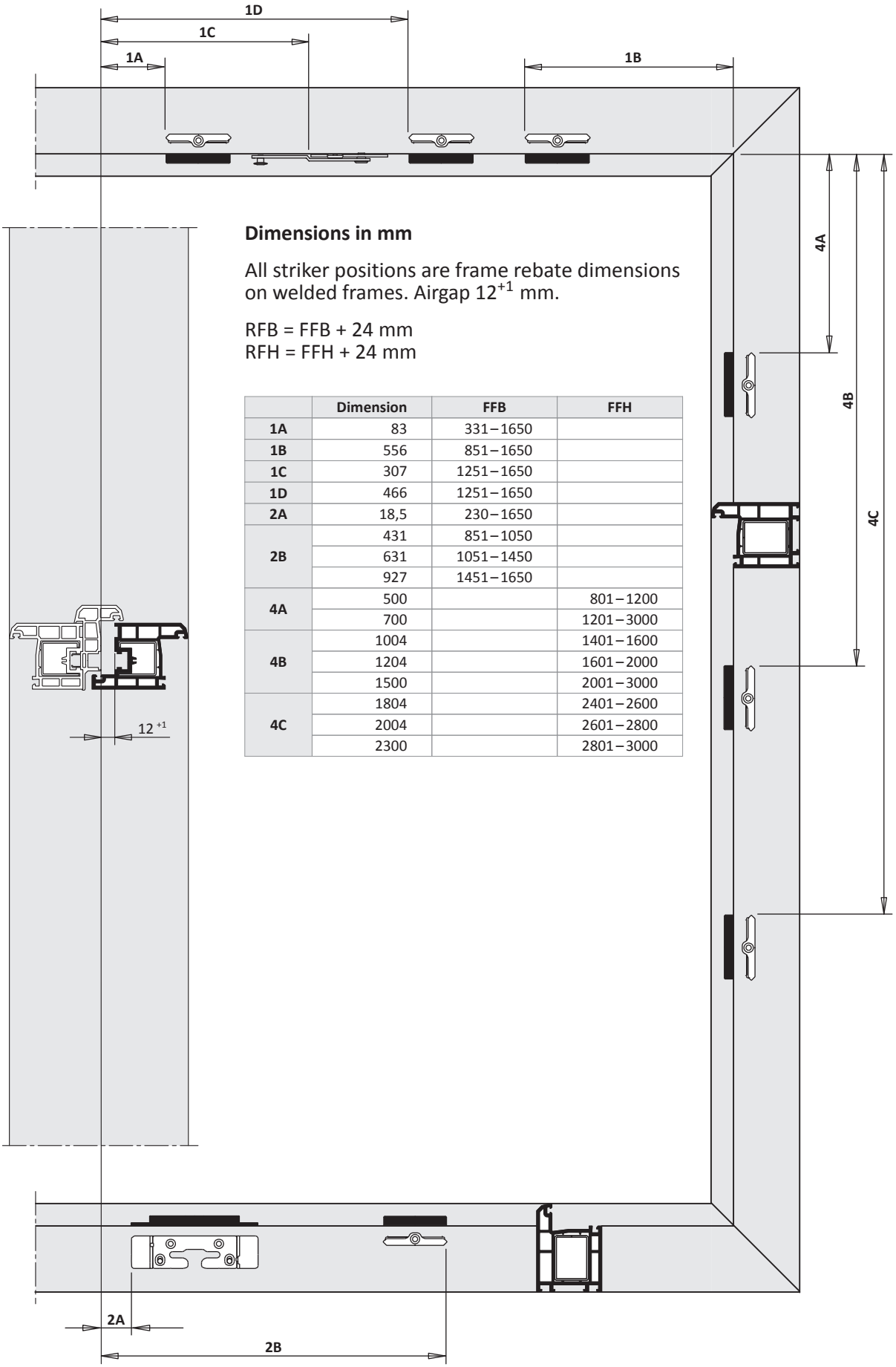


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	230– 850	
2A	6,5	230– 850	411– 800
2B	3,5	230– 850	801–3000



Dimensions in mm

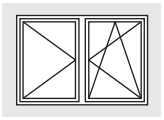
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	230–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16 shoot bolt

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

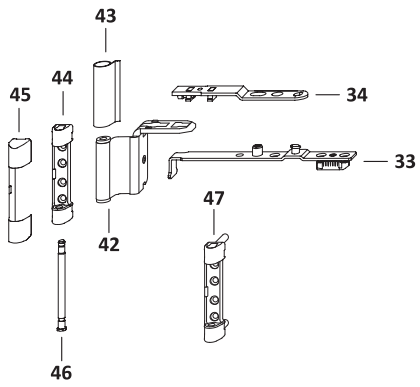
surface TS

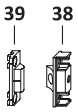
backset 15 mm

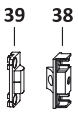
Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

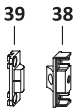
hardware layout slave sash

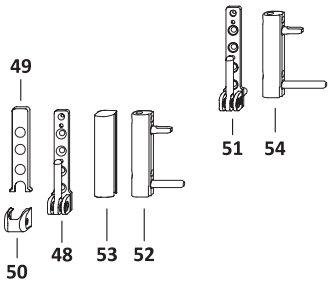
2-sash square tilt-turn/turn DS 16 shoot bolt
PVC GM Hinge side TITAN









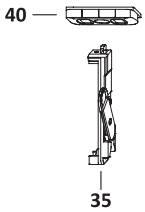


Size range

		Window/door
FFB	(mm)	331-850
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



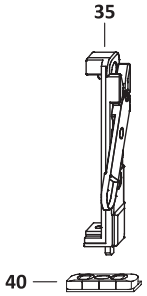


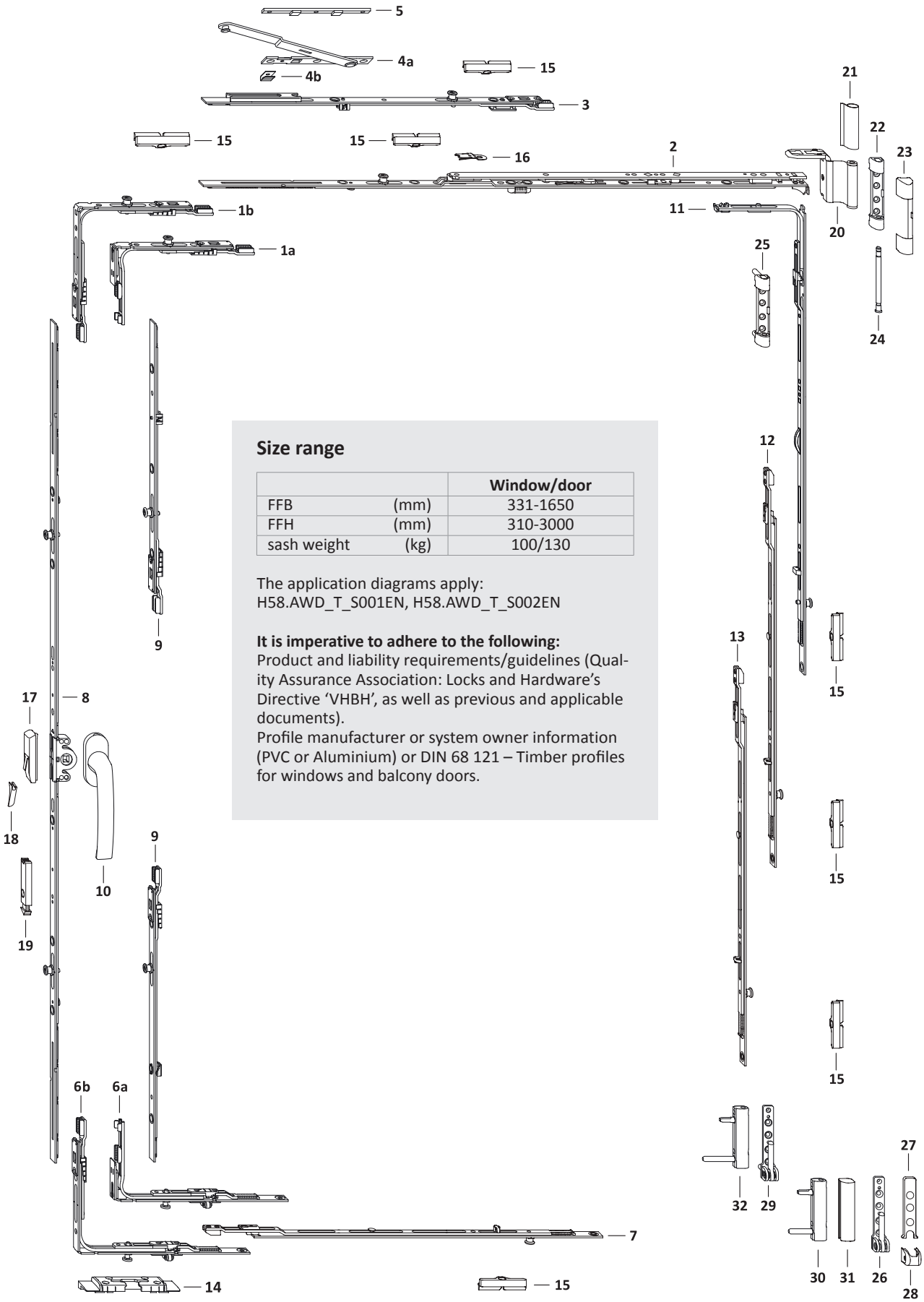












Size range

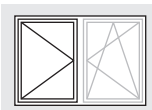
		Window/door
FFB	(mm)	331-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

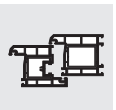
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

2-sash square tilt-turn/turn DS 16 shoot bolt
PVC GM Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
						In the main sash	40
33	stay sash part DF/MN	TSSD0020- ...	1	331– 850			
34	stay arm DF	TSAD0010- ...	1	331– 850			
35	short shoot bolt A2000	716236	2		310–3000		2
36	striker plate 56 A2000	TRSB0030- ...	1		801–1200	400– 600	
	striker plate 56 A2000	TRSB0030- ...			1201–1600	600– 800	
	striker plate 56 A2000	TRSB0030- ...	2		1601–2000	800–1000	
	striker plate 56 A2000	TRSB0030- ...			2001–3000	1000–1500	
37	striker plate 56 A2000	TRSB0030- ...	2		2401–3000		
38	sash part MV	Ref. PDB, ZFMV01	1		801–1600		
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400		
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000		
39	frame part MV	Ref. PDB, ZRZM01	1		801–1600		
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400		
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000		
40	striker V	Ref. PDB, FRZV01					
on request							
41	stop 2,2mm	710937	1		601–3000		

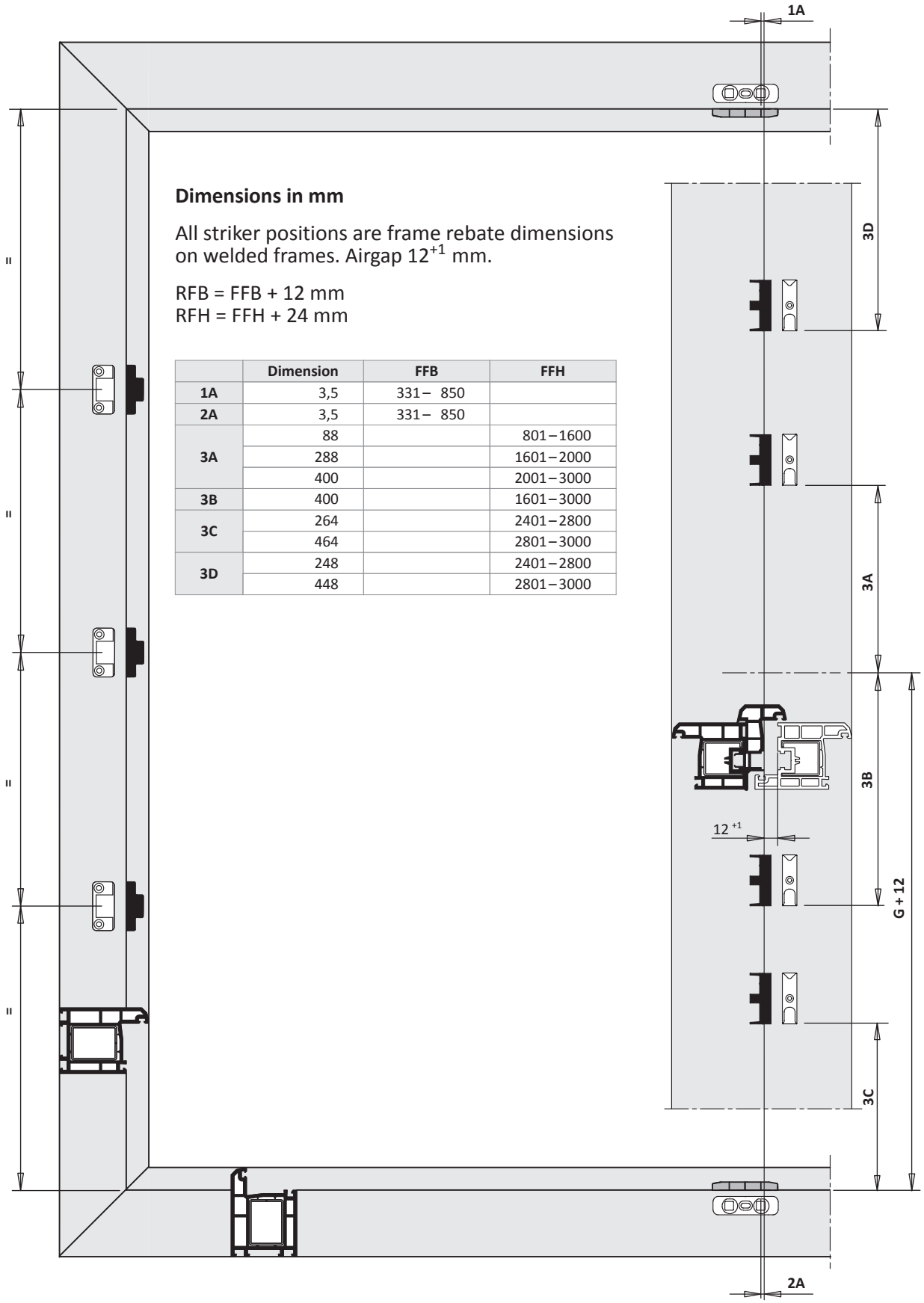
Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
42	stay hinge DH	Ref. PDB, TBWB61			1	1
43	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
44	top hinge 100kg	Ref. PDB, TBSL61			1	
45	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
46	top hinge pin Poly	TBSB6020-1 ...			1	1
47	top hinge 130kg	Ref. PDB, TBSL62				1
48	bottom hinge 100kg	Ref. PDB, TBEL01			1	
49	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
50	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
51	bottom hinge 130kg	Ref. PDB, TBEL02				1
52	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
53	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
54	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							14	15
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	331– 850	310– 460			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	331–1650	461–3000			1
2	stay AF sz 0	TSKK2000- ...	1	331– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	371– 850	310– 460		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	331–1650	461–3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
8	gear 15 AF sz 20	TGMK4010- ...	1	371– 850	310– 460	155– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		
9	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
10	handle Globe	Ref.access. ZHGS	1		310–3000			
11	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
14	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
15	striker plate S 56	Ref. PDB, TRSM						
on request								
16	tilt restrictor ..	TFKB0010- ...	1		310– 800			
17	mishandling device	TFBS0010- ...	1		601–3000			
18	pressure piece	Ref. PDB, TFFD	1		601–3000			
19	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
20	stay hinge DH	Ref. PDB, TBWB61			1	1
21	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
22	top hinge 100kg	Ref. PDB, TBSL61			1	
23	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
24	top hinge pin Poly	TBSB6020-1 ...			1	1
25	top hinge 130kg	Ref. PDB, TBSL62				1
26	bottom hinge 100kg	Ref. PDB, TBEL01			1	
27	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
28	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
29	bottom hinge 130kg	Ref. PDB, TBEL02				1
30	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
31	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
32	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16 shoot bolt
PVC GM Hinge side TITAN

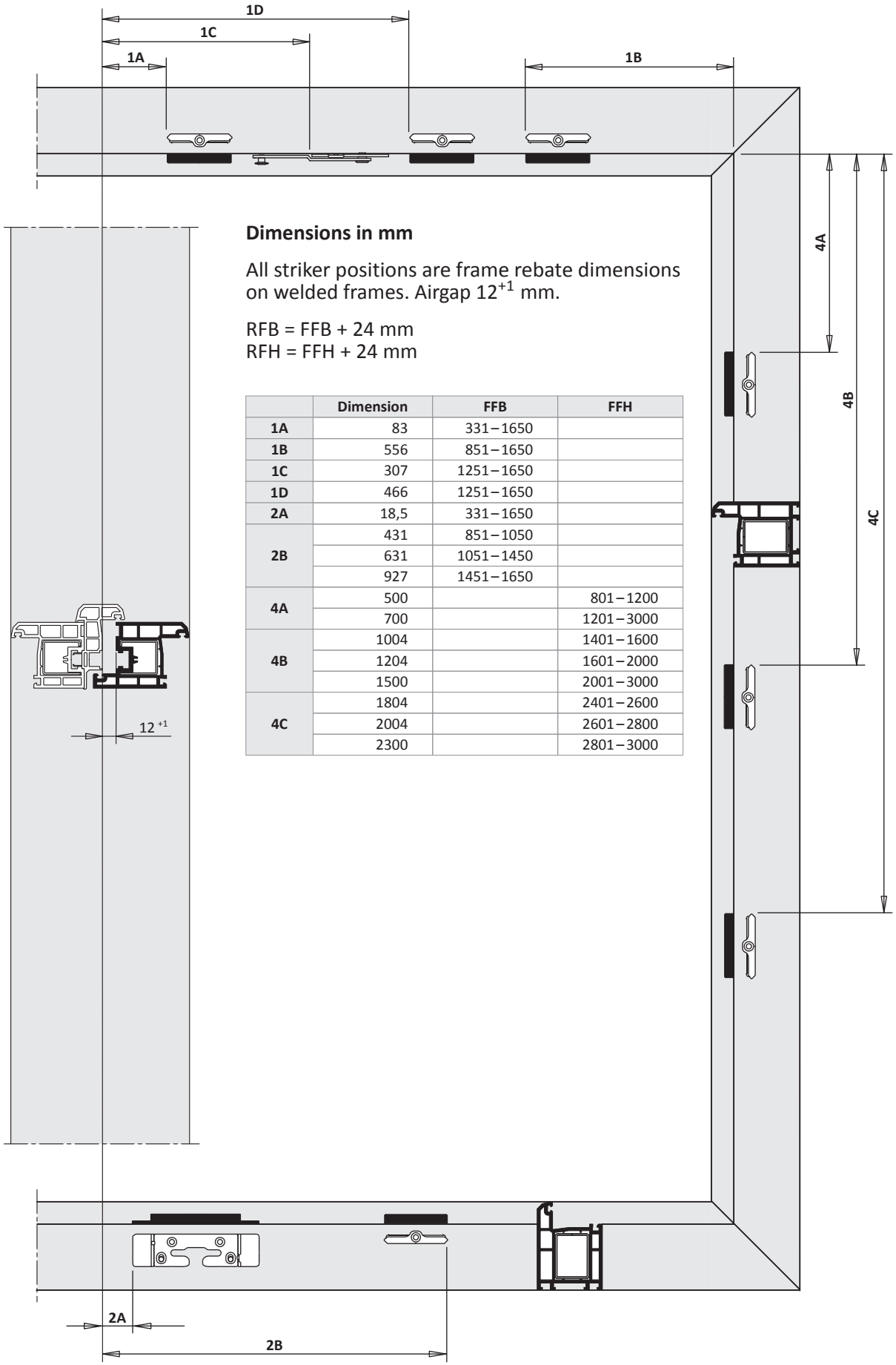


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	331 – 850	
2A	3,5	331 – 850	
3A	88		801 – 1600
	288		1601 – 2000
	400		2001 – 3000
3B	400		1601 – 3000
3C	264		2401 – 2800
	464		2801 – 3000
3D	248		2401 – 2800
	448		2801 – 3000



Dimensions in mm

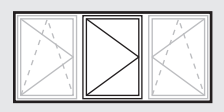
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	331–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





GS

3-sash Centre sash second opening turn

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

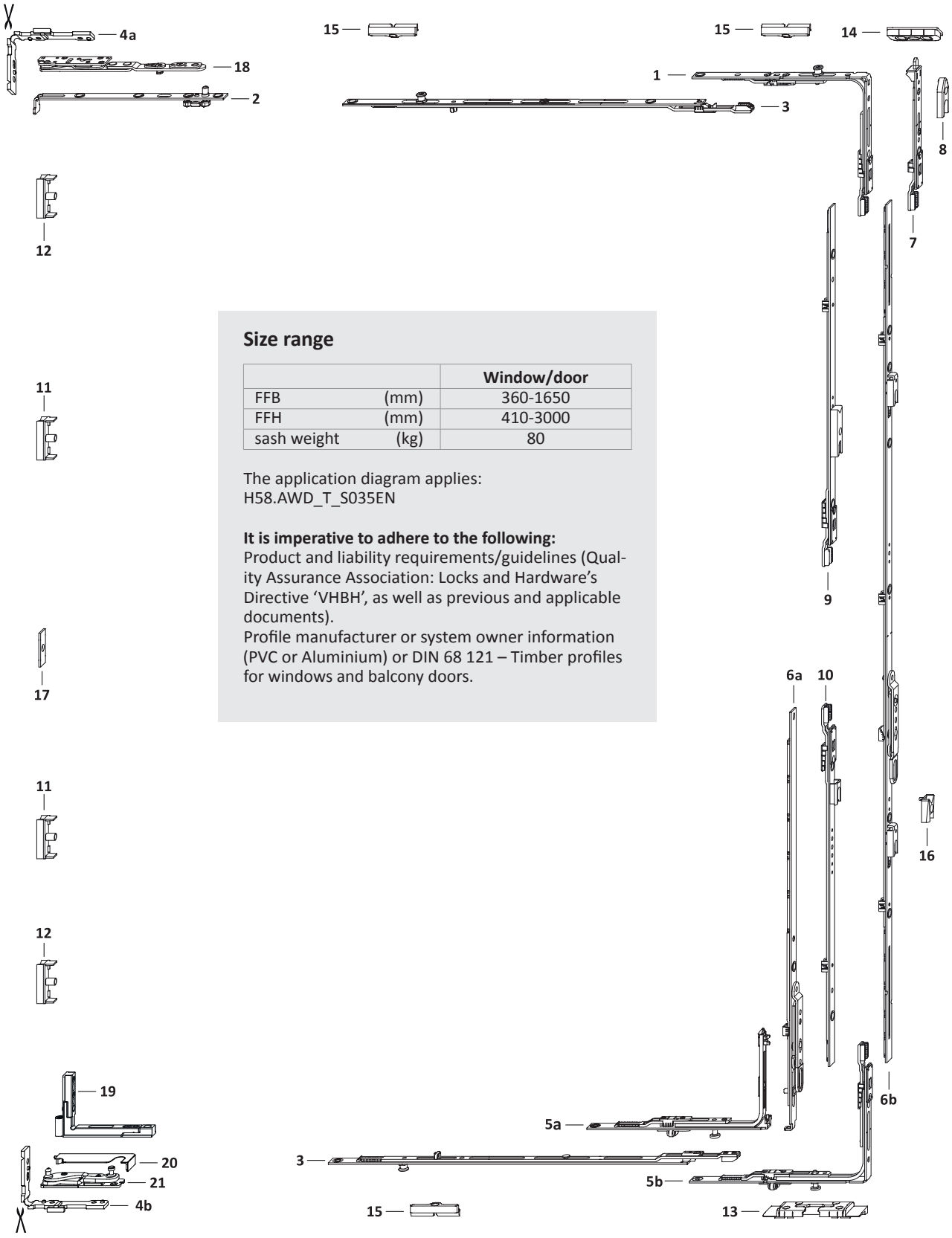
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear

hardware layout

3-sash Centre sash second opening turn
PVC GM Hinge side TITAN

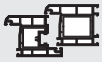
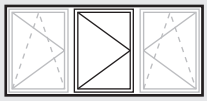


Size range

		Window/door
FFB	(mm)	360-1650
FFH	(mm)	410-3000
sash weight	(kg)	80

The application diagram applies:
H58.AWD_T_S035EN

It is imperative to adhere to the following:
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings

3-sash Centre sash second opening turn
PVC GM Hinge side TITAN

TITAN AF

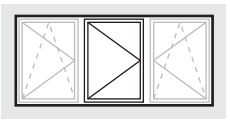
GS

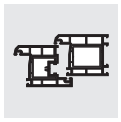
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							13	14	15
1	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	481 – 1650					1
2	stay sash part DF AX	TSSV3020- ...	1	360 – 1650					
3	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851 – 1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450					2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650					2
4	crt. accessories AX	Ref. PDB, TMZV41	1	360 – 1650					
5a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	360 – 1650	410 – 800		1		
5b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	360 – 1650	801 – 3000		1		
6a	sec.sash gear 16 sz 30	TGKS0010- ...	1		410 – 600	205 – 300			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601 – 800	300 – 400			
6b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801 – 1200	400 – 600			
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201 – 1600	600 – 800			
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601 – 2000	800 – 1000			
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001 – 3000	1000 – 1500			
7	locking bolt AF VSO RSA 11	TESC2030- ...	1	360 – 480	410 – 3000			1	
8	striker plate A0767	TRSA0010- ...	1	360 – 480	410 – 3000				
9	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401 – 2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000				
10	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401 – 2800				
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801 – 3000				
11	striker plate 56 A2000	TRSB0030- ...	1		801 – 1200				
	striker plate 56 A2000	TRSB0030- ...			1201 – 1600				
	striker plate 56 A2000	TRSB0030- ...	2		1601 – 2000				
	striker plate 56 A2000	TRSB0030- ...			2001 – 3000				
12	striker plate 56 A2000	TRSB0030- ...	2		2401 – 3000				
13	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
14	striker V	Ref. PDB, FRZV02							
15	striker plate S 56	Ref. PDB, TRSM							
on request									
16	striker snapper AF A0767	TRST0100- ...	1		1601 – 3000				
17	stop 2,2mm	710937	1		601 – 3000				

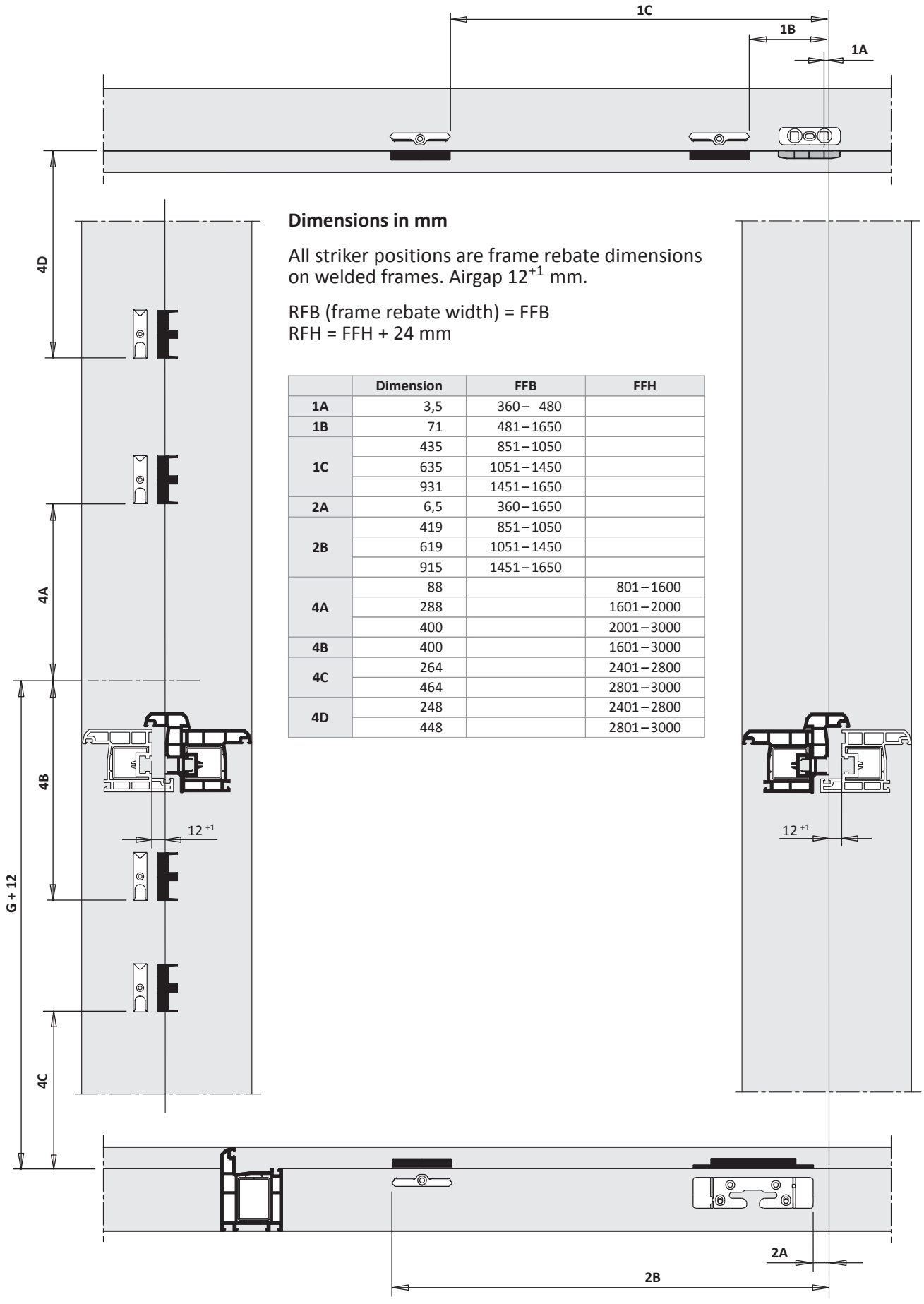
Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	--	80 kg
18	stay arm AX DF/3	Ref. PDB, TSAV47		
19	corner hinge AX	Ref. PDB, TBEB41		
20	cover cap AX EL	Ref. PDB, TKEL41		
21	bottom hinge AX DF/3	Ref. PDB, TBEV43		

Frame dimensions

3-sash Centre sash second opening turn
PVC GM Hinge side TITAN







Dimensions in mm

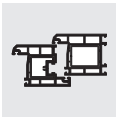
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB (frame rebate width) = FFB
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	360– 480	
1B	71	481–1650	
1C	435	851–1050	
	635	1051–1450	
	931	1451–1650	
2A	6,5	360–1650	
2B	419	851–1050	
	619	1051–1450	
	915	1451–1650	
4A	88		801–1600
	288		1601–2000
	400		2001–3000
4B	400		1601–3000
4C	264		2401–2800
	464		2801–3000
4D	248		2401–2800
	448		2801–3000

TITAN AF

Installation instructions

GS

1-sash square tilt before turn (TBT)

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

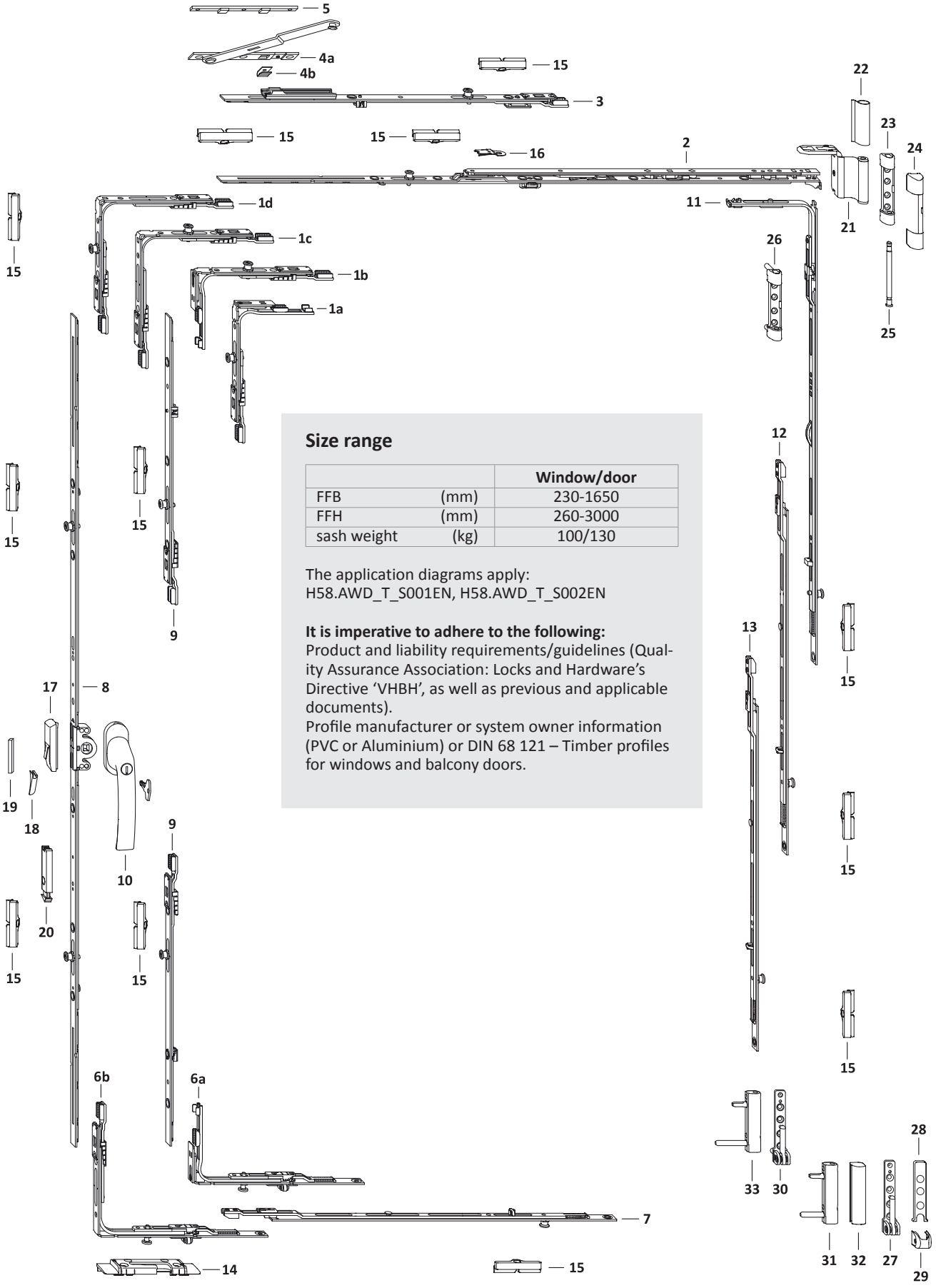
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt before turn (TBT)
PVC GM Hinge side TITAN



Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	260-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

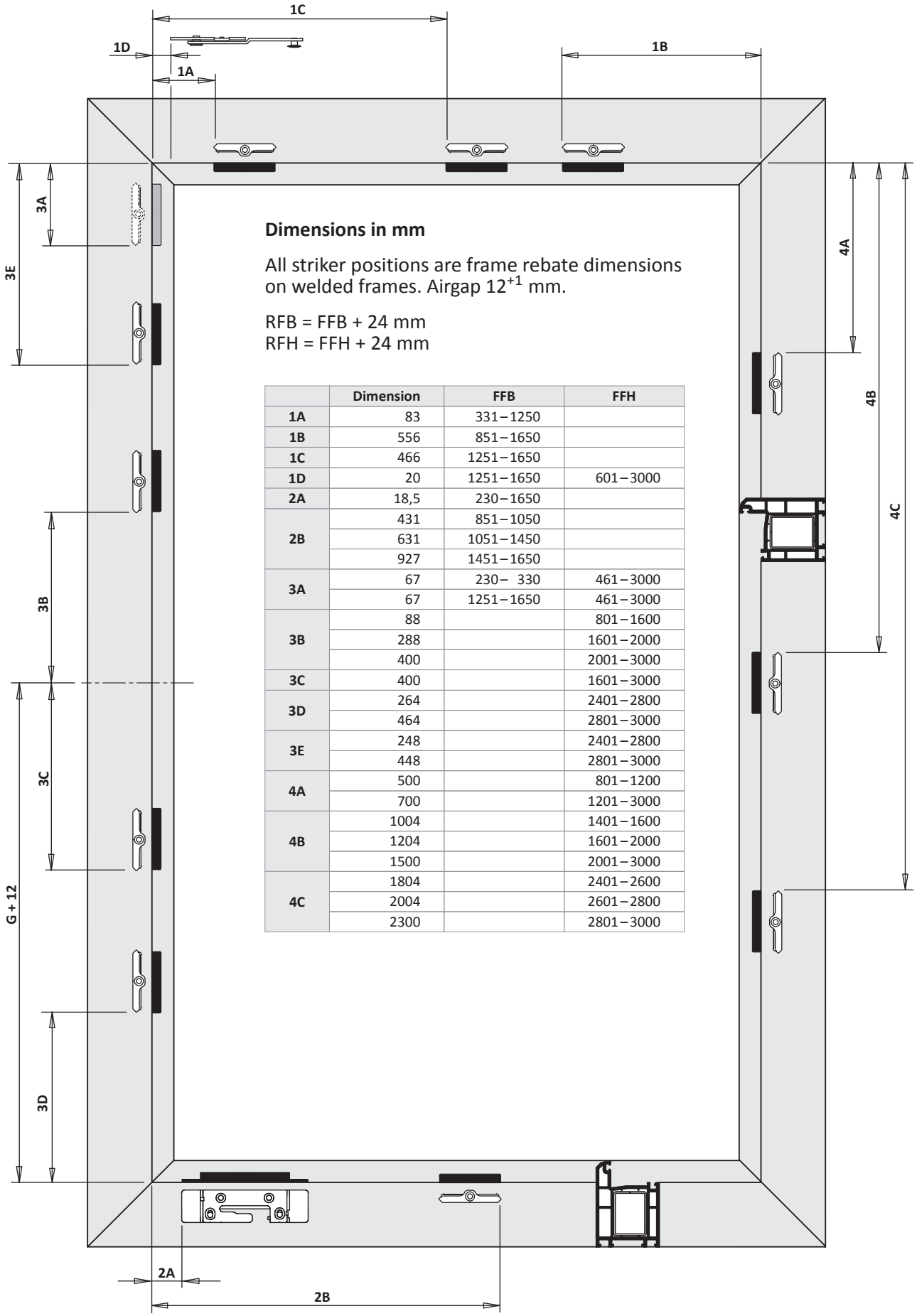
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							14	15
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230– 330	461–3000			1
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	331– 850	260– 460			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331–1250	461–3000			1
1d	corn.drive VSO 1RS	TEUL4010- ...	1	1251–1650	461–3000			1
2	stay AF TBT sz 0	TSKT2000- ...	1	230– 450				
	stay AF TBT sz 1	TSKT2010- ...		451– 680				
	stay AF TBT sz 2 1RS	TSKT2120- ...		681– 850				
	stay AF TBT sz 3 1RS	TSKT2030- ...		851–1050				1
	stay AF TBT sz 4 1RS	TSKT2040- ...		1051–1250				1
	stay AF TBT sz 3 1RS	TSKT2030- ...		1251–1450				1
	stay AF TBT sz 4 1RS	TSKT2040- ...		1451–1650				1
3	linkage add. stay AF TBT RS	TZOT1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	331– 850	260– 460		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230–1650	461–3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
8	gear 15 AF sz 20	TGMK4010- ...	1	331– 850	260– 460	130– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
9	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
10	handle Globe TBT lockable	Ref.access. ZHGT	1		260–3000			
11	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
14	tilt lock bear. S-ES FH TBT	Ref. PDB, FRKB						
15	striker plate S 56	Ref. PDB, TRSM						
on request								
16	tilt restrictor ..	TFKB0010- ...	1		260– 800			
17	mishandling device	TFBS0010- ...	1					
18	pressure piece	Ref. PDB, TFFD	1					
19	stop	Ref. PDB, FRZF01	1					
20	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
21	stay hinge DH	Ref. PDB, TBWB61			1	1
22	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
23	top hinge 100kg	Ref. PDB, TBSL61			1	
24	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
25	top hinge pin Poly	TBSB6020-1 ...			1	1
26	top hinge 130kg	Ref. PDB, TBSL62				1
27	bottom hinge 100kg	Ref. PDB, TBEL01			1	
28	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
29	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
30	bottom hinge 130kg	Ref. PDB, TBEL02				1
31	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
32	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
33	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions

1-sash square tilt before turn (TBT)
PVC GM Hinge side TITAN



Dimensions in mm

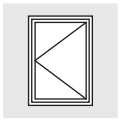
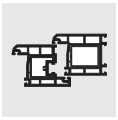
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1250	
1B	556	851–1650	
1C	466	1251–1650	
1D	20	1251–1650	601–3000
2A	18,5	230–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	230– 330	461–3000
	67	1251–1650	461–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions

GS

1-sash square turn

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

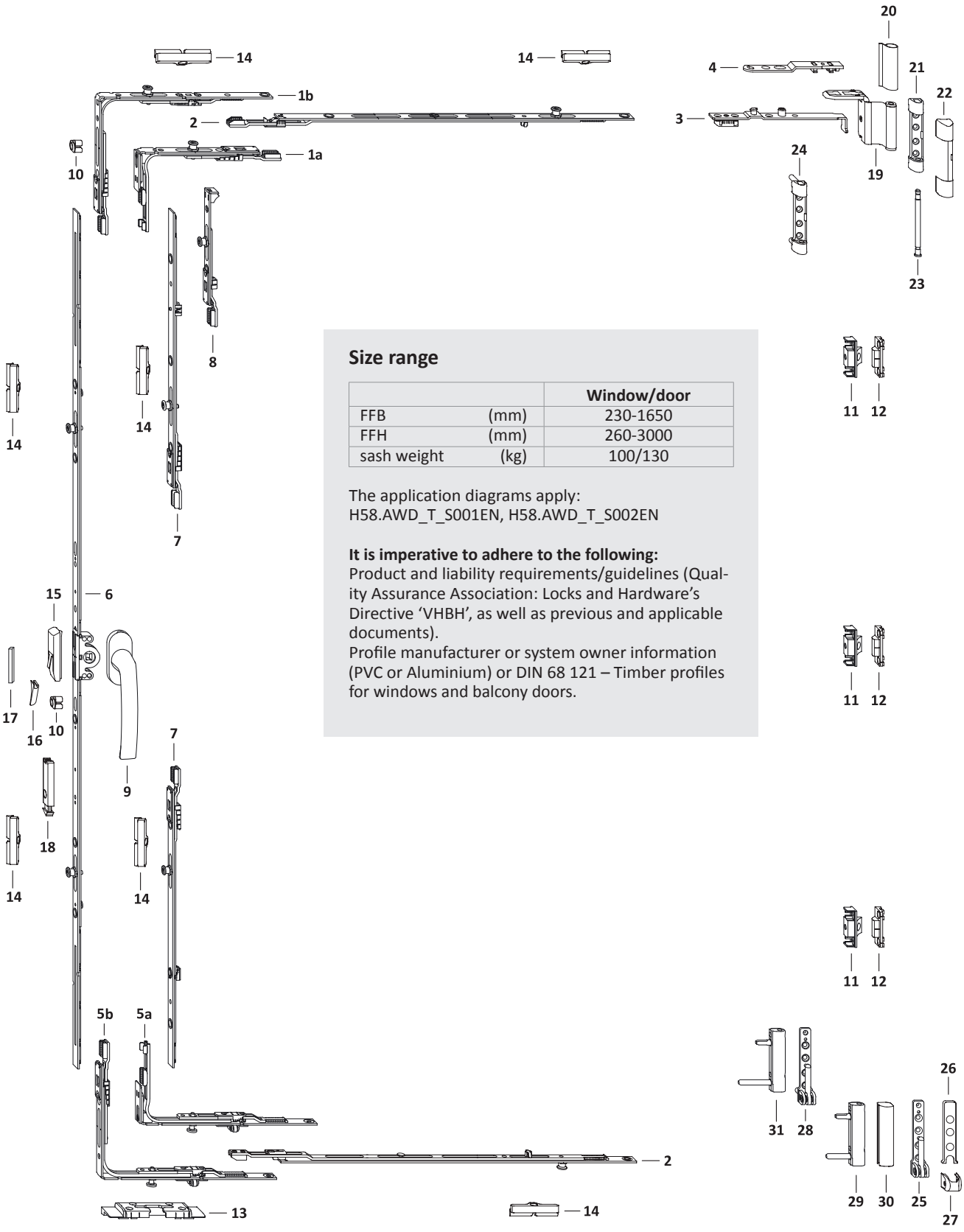
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side turning points	Standard

hardware layout

1-sash square turn
PVC GM Hinge side TITAN



Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	260-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

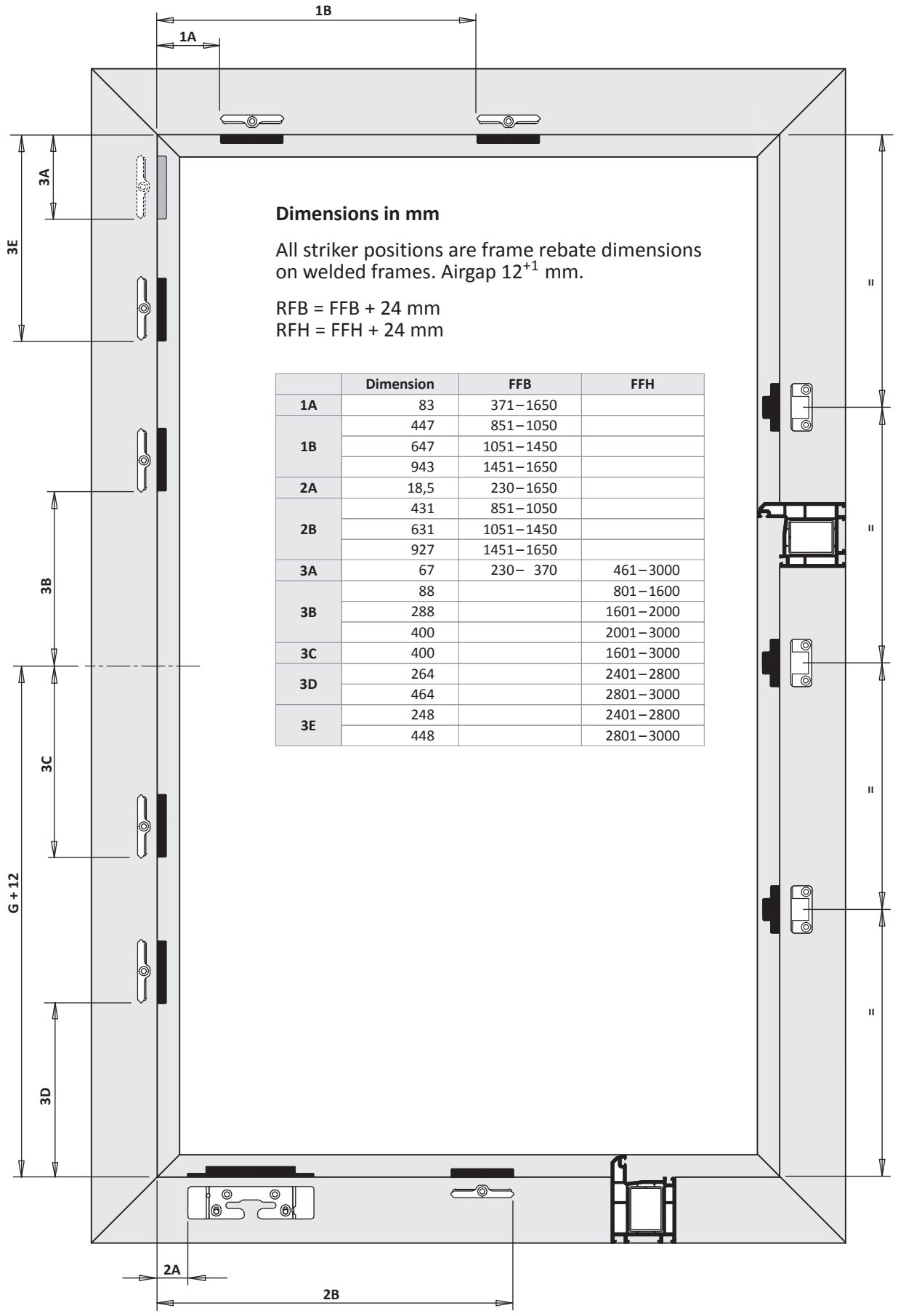
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Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							13	14
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371– 850	260– 460			1
1b	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	371–1650	461–3000			1
2	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050				2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				2
3	stay sash part DF/MN	TSSD0020- ...	1	230–1650				
4	stay arm DF	TSAD0010- ...	1	230–1650				
5a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	371– 850	260– 460		1	
5b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230–1650	461–3000		1	
6	gear 15 AF sz 20	TGMK4010- ...	1	371– 850	260– 460	130– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
7	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
8	locking bolt AF VS 180° 1RS	TESC2020- ...	1	230– 370	461–3000			1
9	handle Globe	Ref.access. ZHGS	1		260–3000			
10	travel restrictor	TFHB0010- ...	1		260–3000			
11	sash part MV	Ref. PDB, ZFMV01	1		801–1600			
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400			
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000			
12	frame part MV	Ref. PDB, ZRZM01	1		801–1600			
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400			
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000			
13	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
14	striker plate S 56	Ref. PDB, TRSM						
on request								
15	mishandling device	TFBS0010- ...	1					
16	pressure piece	Ref. PDB, TFFD	1					
17	stop	Ref. PDB, FRZF01	1					
18	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
19	stay hinge DH	Ref. PDB, TBWB61			1	1
20	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
21	top hinge 100kg	Ref. PDB, TBSL61			1	
22	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
23	top hinge pin Poly	TBSB6020-1 ...			1	1
24	top hinge 130kg	Ref. PDB, TBSL62				1
25	bottom hinge 100kg	Ref. PDB, TBEL01			1	
26	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
27	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
28	bottom hinge 130kg	Ref. PDB, TBEL02				1
29	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
30	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
31	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions

1-sash square turn
PVC GM Hinge side TITAN



Dimensions in mm

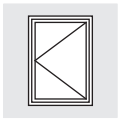
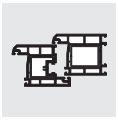
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	371–1650	
1B	447	851–1050	
	647	1051–1450	
	943	1451–1650	
2A	18,5	230–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	230– 370	461–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000

TITAN AF

Installation instructions

GS

1-sash square turn

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

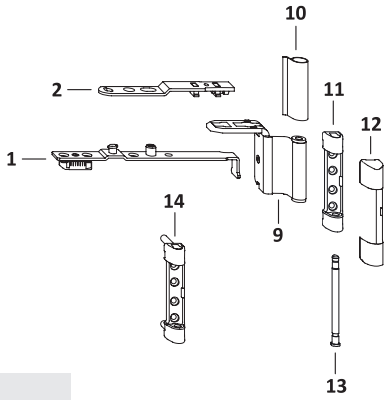
surface TS

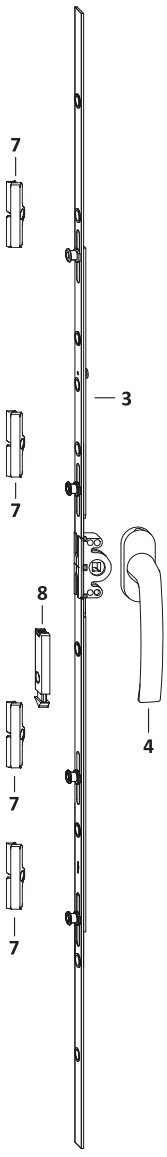
backset 15 mm

Hardware set configuration	
General	Locking-points distance 800; gear DF
Stay side	two-piece stay
Hinge side turning points	Standard

hardware layout

1-sash square turn
PVC GM Hinge side TITAN



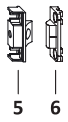


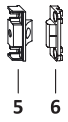
Size range

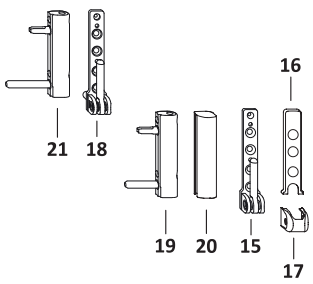
		Window/door
FFB	(mm)	200-800
FFH	(mm)	290-2400
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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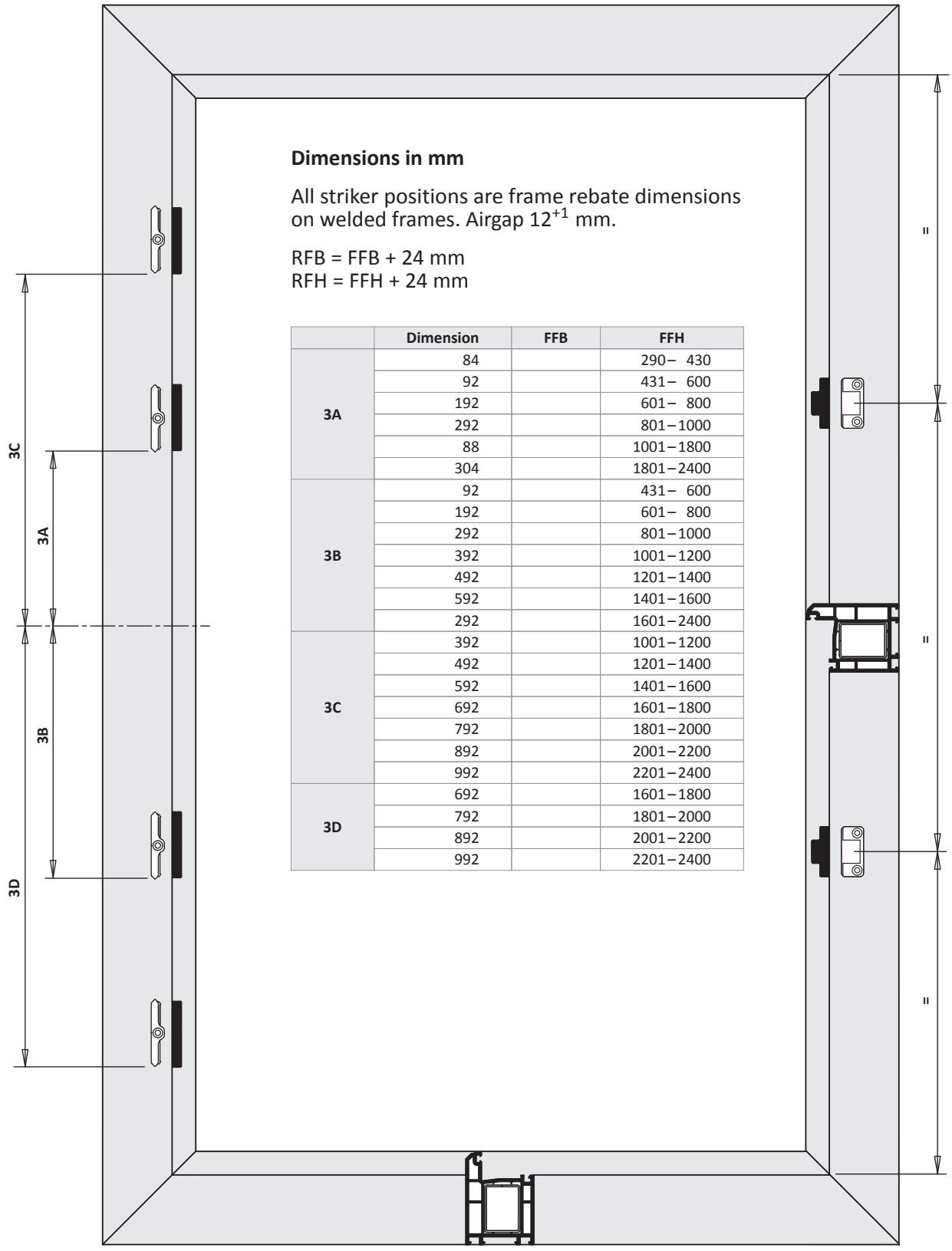


Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							7
1	stay sash part DF/MN	TSSD0020- ...	1	200 – 800			
2	stay arm DF	TSAD0010- ...	1	200 – 800			
3	gear 15 AF/DF sz 20 1RS	TGMD3010- ...	1		290 – 430	145 – 215	1
	gear 15 AF/DF sz 40 2RS	TGMD3020- ...			431 – 600	215 – 300	2
	gear 15 AF/DF sz 60 2RS	TGMD3030- ...			601 – 800	300 – 400	2
	gear 15 AF/DF sz 80 2RS	TGMD3040- ...			801 – 1000	400 – 500	2
	gear 15 AF/DF sz 100 3RS	TGMD3050- ...			1001 – 1200	500 – 600	3
	gear 15 AF/DF sz 120 3RS	TGMD3060- ...			1201 – 1400	600 – 700	3
	gear 15 AF/DF sz 140 3RS	TGMD3070- ...			1401 – 1600	700 – 800	3
	gear 15 AF/DF sz 160 4RS	TGMD3080- ...			1601 – 1800	800 – 900	4
	gear 15 AF/DF sz 180 4RS	TGMD3090- ...			1801 – 2000	900 – 1000	4
	gear 15 AF/DF sz 200 4RS	TGMD3100- ...			2001 – 2200	1000 – 1100	4
	gear 15 AF/DF sz 220 4RS	TGMD3110- ...			2201 – 2400	1100 – 1200	4
4	handle Globe	Ref.access. ZHGS	1		290 – 2400		
5	sash part MV	Ref. PDB, ZFMV01	1		801 – 1600		
	sash part MV	Ref. PDB, ZFMV01	2		1601 – 2400		
6	frame part MV	Ref. PDB, ZRZM01	1		801 – 1600		
	frame part MV	Ref. PDB, ZRZM01	2		1601 – 2400		
7	striker plate S 56	Ref. PDB, TRSM					
on request							
8	snapper rh.	TFST0021- ...	1		1801 – 2400		
	snapper lh.	TFST0022- ...			1801 – 2400		

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
9	stay hinge DH	Ref. PDB, TBWB61			1	1
10	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
11	top hinge 100kg	Ref. PDB, TBSL61			1	
12	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
13	top hinge pin Poly	TBSB6020-1 ...			1	1
14	top hinge 130kg	Ref. PDB, TBSL62				1
15	bottom hinge 100kg	Ref. PDB, TBEL01			1	
16	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
17	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
18	bottom hinge 130kg	Ref. PDB, TBEL02				1
19	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
20	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
21	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions

1-sash square turn
PVC GM Hinge side TITAN



Dimensions in mm

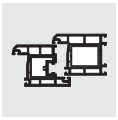
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
3A	84		290– 430
	92		431– 600
	192		601– 800
	292		801–1000
	88		1001–1800
	304		1801–2400
3B	92		431– 600
	192		601– 800
	292		801–1000
	392		1001–1200
	492		1201–1400
	592		1401–1600
	292		1601–2400
3C	392		1001–1200
	492		1201–1400
	592		1401–1600
	692		1601–1800
	792		1801–2000
	892		2001–2200
	992		2201–2400
3D	692		1601–1800
	792		1801–2000
	892		2001–2200
	992		2201–2400

TITAN AF

Installation instructions

GS

1-sash square tilt-turn

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

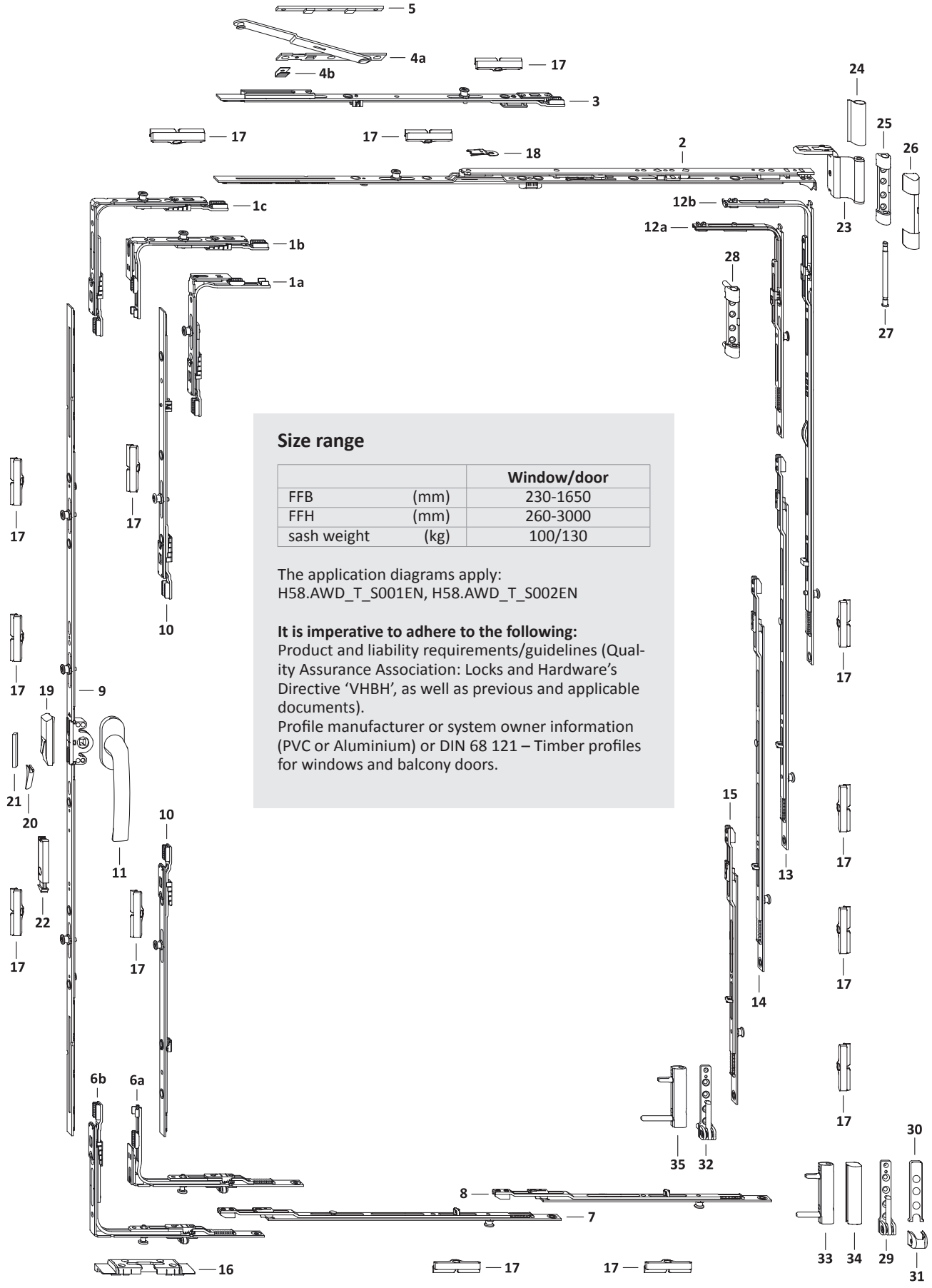
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GM Hinge side TITAN



Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	260-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

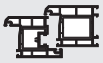
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							16	17
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230– 330	461–3000			1
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	331– 850	260– 460			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331–1650	461–3000			1
2	stay AF sz 0	TSKK2000- ...	1	230– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	331– 850	260– 460		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230–1650	461–3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
9	gear 15 AF sz 20	TGMK4010- ...	1	331– 850	260– 460	130– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350		
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400		1
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800		2
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500		3
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
11	handle Globe	Ref.access. ZHGS	1		260–3000			
12a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
12b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
16	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
17	striker plate S 56	Ref. PDB, TRSM						
on request								
18	tilt restrictor ..	TFKB0010- ...	1		260– 800			
19	mishandling device	TFBS0010- ...	1					
20	pressure piece	Ref. PDB, TFFD	1					
21	stop	Ref. PDB, FRZF01	1					
22	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

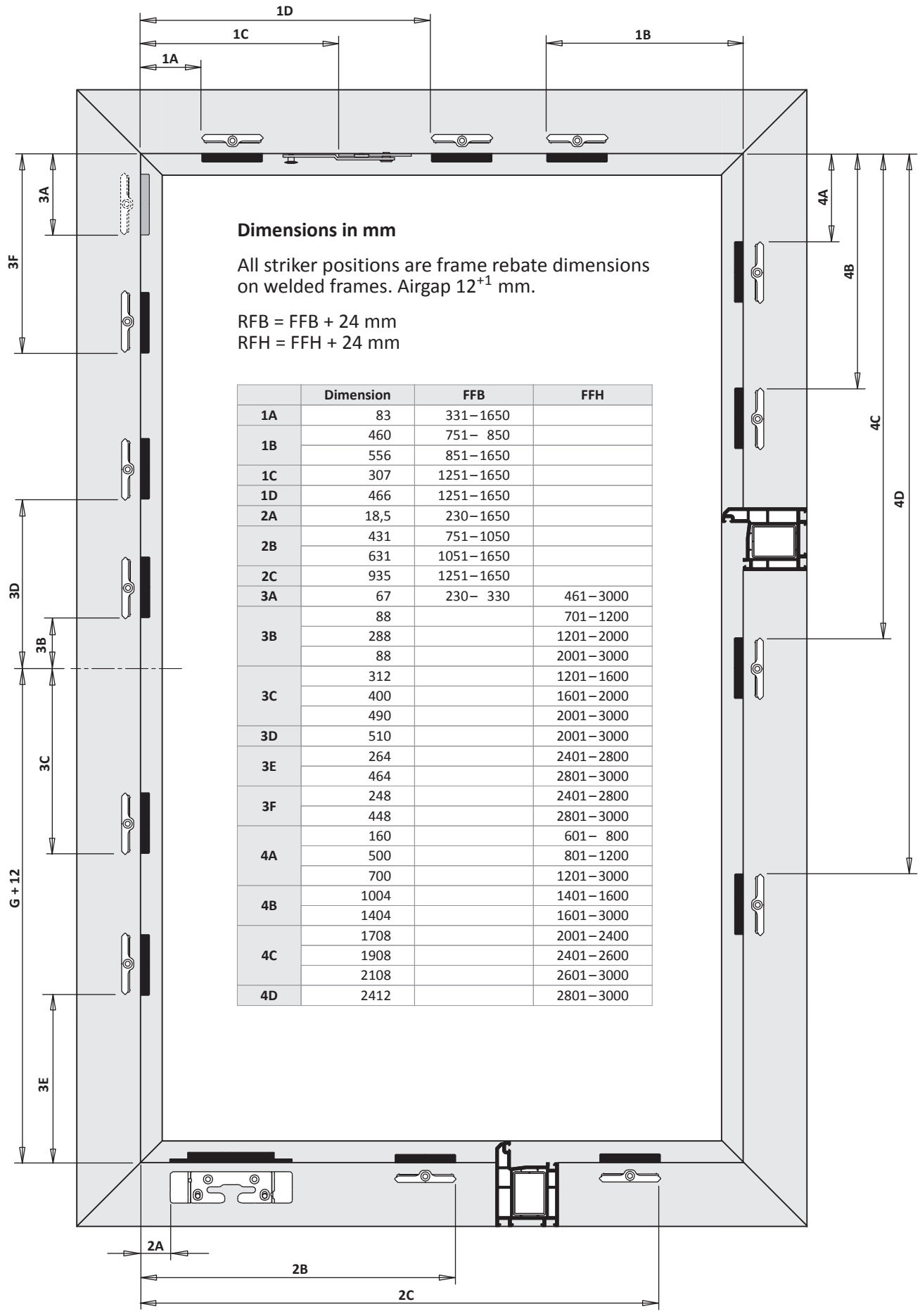
List of fittings

1-sash square tilt-turn
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
23	stay hinge DH	Ref. PDB, TBWB61			1	1
24	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
25	top hinge 100kg	Ref. PDB, TBSL61			1	
26	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
27	top hinge pin Poly	TBSB6020-1 ...			1	1
28	top hinge 130kg	Ref. PDB, TBSL62				1
29	bottom hinge 100kg	Ref. PDB, TBEL01			1	
30	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
31	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
32	bottom hinge 130kg	Ref. PDB, TBEL02				1
33	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
34	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
35	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

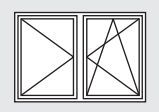
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	230–1650	
2B	431	751–1050	
	631	1051–1650	
2C	935	1251–1650	
3A	67	230– 330	461–3000
3B	88		701–1200
	288		1201–2000
	88		2001–3000
3C	312		1201–1600
	400		1601–2000
	490		2001–3000
3D	510		2001–3000
3E	264		2401–2800
	464		2801–3000
3F	248		2401–2800
	448		2801–3000
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

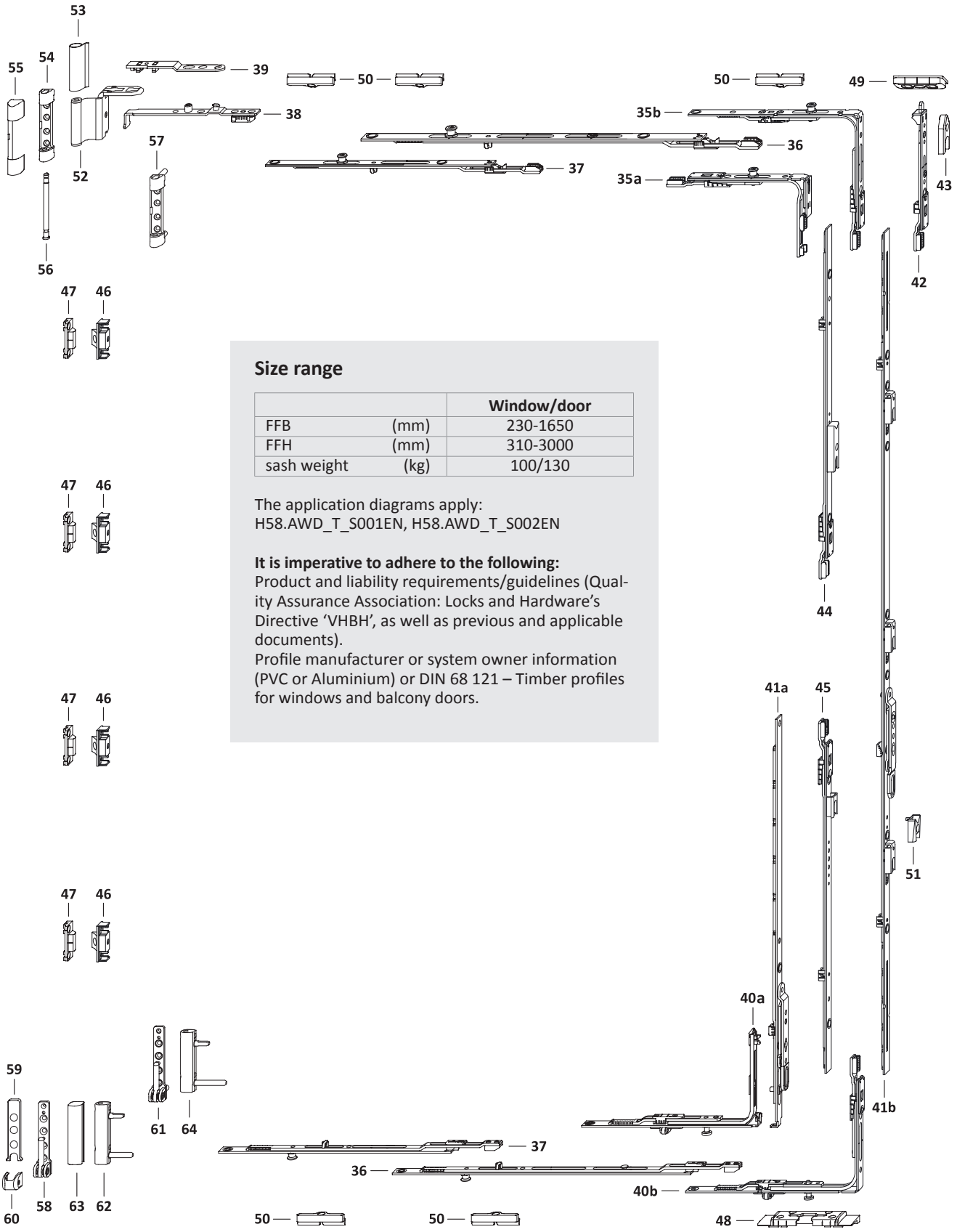
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

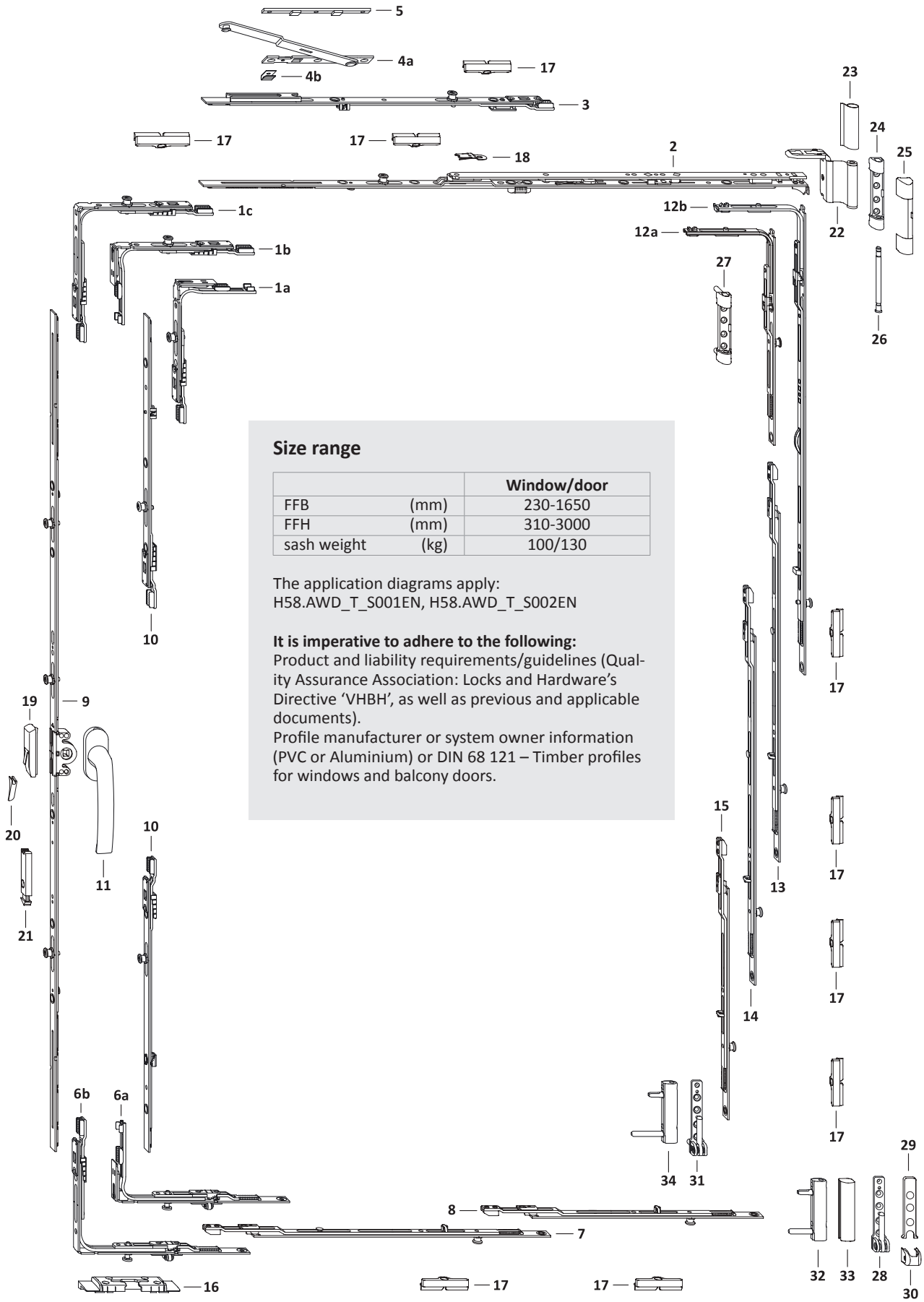


Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
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Size range

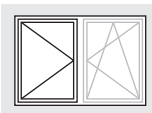
		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

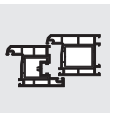
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	48	49	50
35a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371– 750	310– 460				1
35b	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	371–1650	461–3000				1
36	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	751–1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650					2
37	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	1251–1650					2
38	stay sash part DF/MN	TSSD0020- ...	1	230–1650					
39	stay arm DF	TSAD0010- ...	1	230–1650					
40a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	230–1650	461– 700		1		
	locking part VSU/K FH+ 1S	TEVR1400- ...		331– 850	310– 460		1		
40b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230–1650	701–3000		1		
41a	sec.sash gear 16 sz 30	TGKS0010- ...	1	371– 850	310– 460	155– 230			
	sec.sash gear 16 sz 30	TGKS0010- ...			461– 600	230– 300			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300– 350			
41b	sec.sash gear 16 AF sz 70 1SB	TGMS4030- ...	1		701– 800	350– 400			
	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...			801–1200	400– 600			
	sec.sash gear 16 AF 120 2SB 70	TGMS4120- ...			1201–1600	600– 800			
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000			
	sec.sash gear 16 AF 200 3SB 70	TGMS4100- ...			2001–3000	1000–1500			
42	locking bolt AF VSO RSA 11	TESC2030- ...	1	230– 370	461–3000			1	
43	striker plate A0767	TRSA0010- ...	1	230– 330	461–3000				
44	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
45	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800				
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000				
46	sash part MV	Ref. PDB, ZFMV01	1		601–1400				
	sash part MV	Ref. PDB, ZFMV01	2		1401–2100				
	sash part MV	Ref. PDB, ZFMV01	3		2101–2800				
	sash part MV	Ref. PDB, ZFMV01	4		2801–3000				
47	frame part MV	Ref. PDB, ZRZM01	1		601–1400				
	frame part MV	Ref. PDB, ZRZM01	2		1401–2100				
	frame part MV	Ref. PDB, ZRZM01	3		2101–2800				
	frame part MV	Ref. PDB, ZRZM01	4		2801–3000				
48	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
49	striker V	Ref. PDB, FRZV01							
50	striker plate S 56	Ref. PDB, TRSM							
on request									
51	striker snapper AF A0767	TRST0100- ...	1		1601–3000				

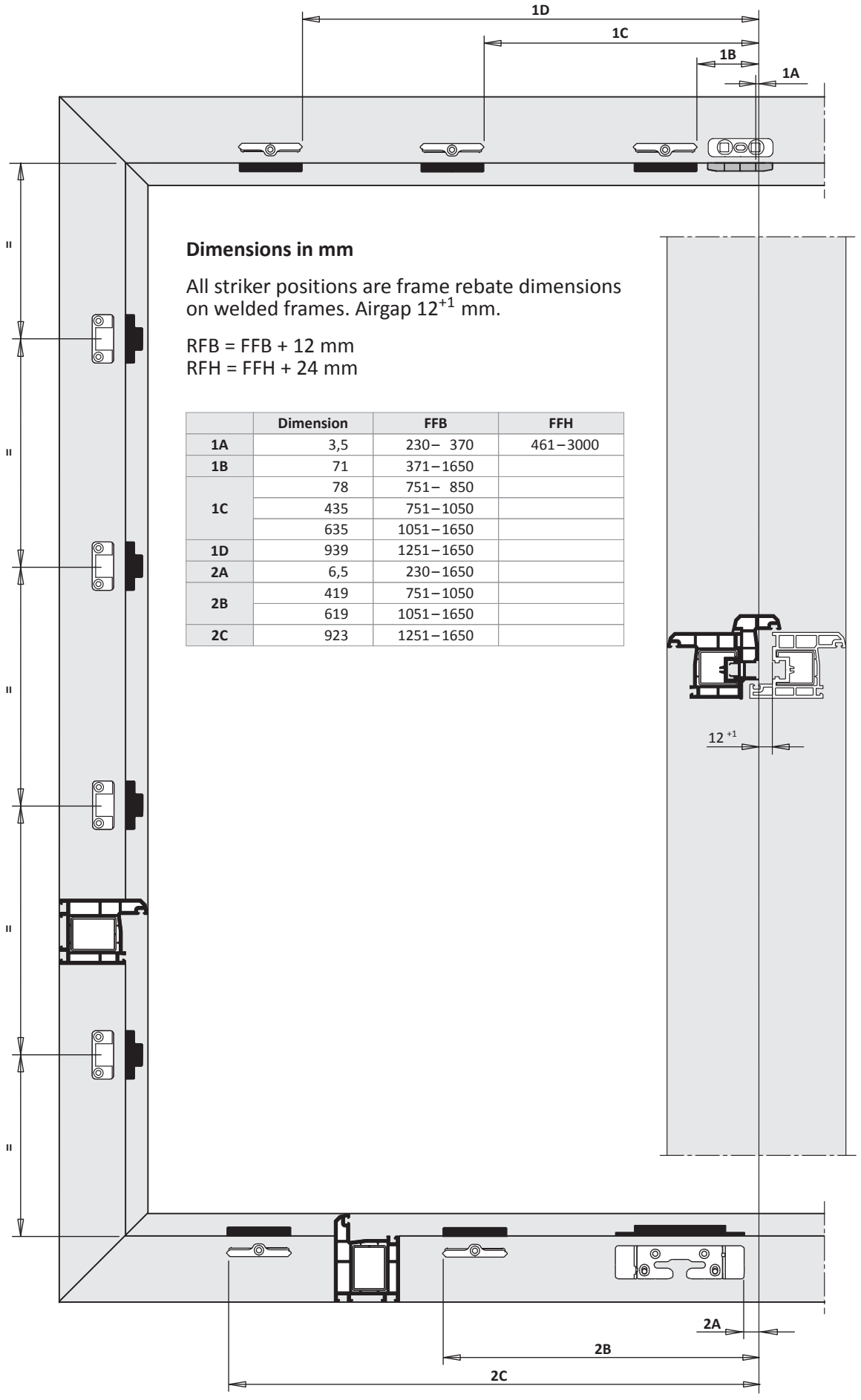
Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
52	stay hinge DH	Ref. PDB, TBWB61			1	1
53	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
54	top hinge 100kg	Ref. PDB, TBSL61			1	
55	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
56	top hinge pin Poly	TBSB6020-1 ...			1	1
57	top hinge 130kg	Ref. PDB, TBSL62				1
58	bottom hinge 100kg	Ref. PDB, TBEL01			1	
59	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
60	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
61	bottom hinge 130kg	Ref. PDB, TBEL02				1
62	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
63	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
64	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							16	17
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230– 330	461–3000			
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	2	371– 850	310– 460			2
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331–1650	461–3000			1
2	stay AF sz 0	TSKK2000- ...	1	230– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
	stay AF sz 2 1RS	TSKK2120- ...	2	751– 850				2
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	371– 850	310– 460		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	230–1650	461–3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
9	gear 15 AF sz 20	TGMK4010- ...	1	371– 850	310– 460	155– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350		
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500		
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
11	handle Globe	Ref.access. ZHGS	1		310–3000			
12a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
12b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
16	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
17	striker plate S 56	Ref. PDB, TRSM						
on request								
18	tilt restrictor ..	TFKB0010- ...	1		310– 800			
19	mishandling device	TFBS0010- ...	1		601–3000			
20	pressure piece	Ref. PDB, TFFD	1		601–3000			
21	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
22	stay hinge DH	Ref. PDB, TBWB61			1	1
23	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
24	top hinge 100kg	Ref. PDB, TBSL61			1	
25	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
26	top hinge pin Poly	TBSB6020-1 ...			1	1
27	top hinge 130kg	Ref. PDB, TBSL62				1
28	bottom hinge 100kg	Ref. PDB, TBEL01			1	
29	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
30	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
31	bottom hinge 130kg	Ref. PDB, TBEL02				1
32	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
33	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
34	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

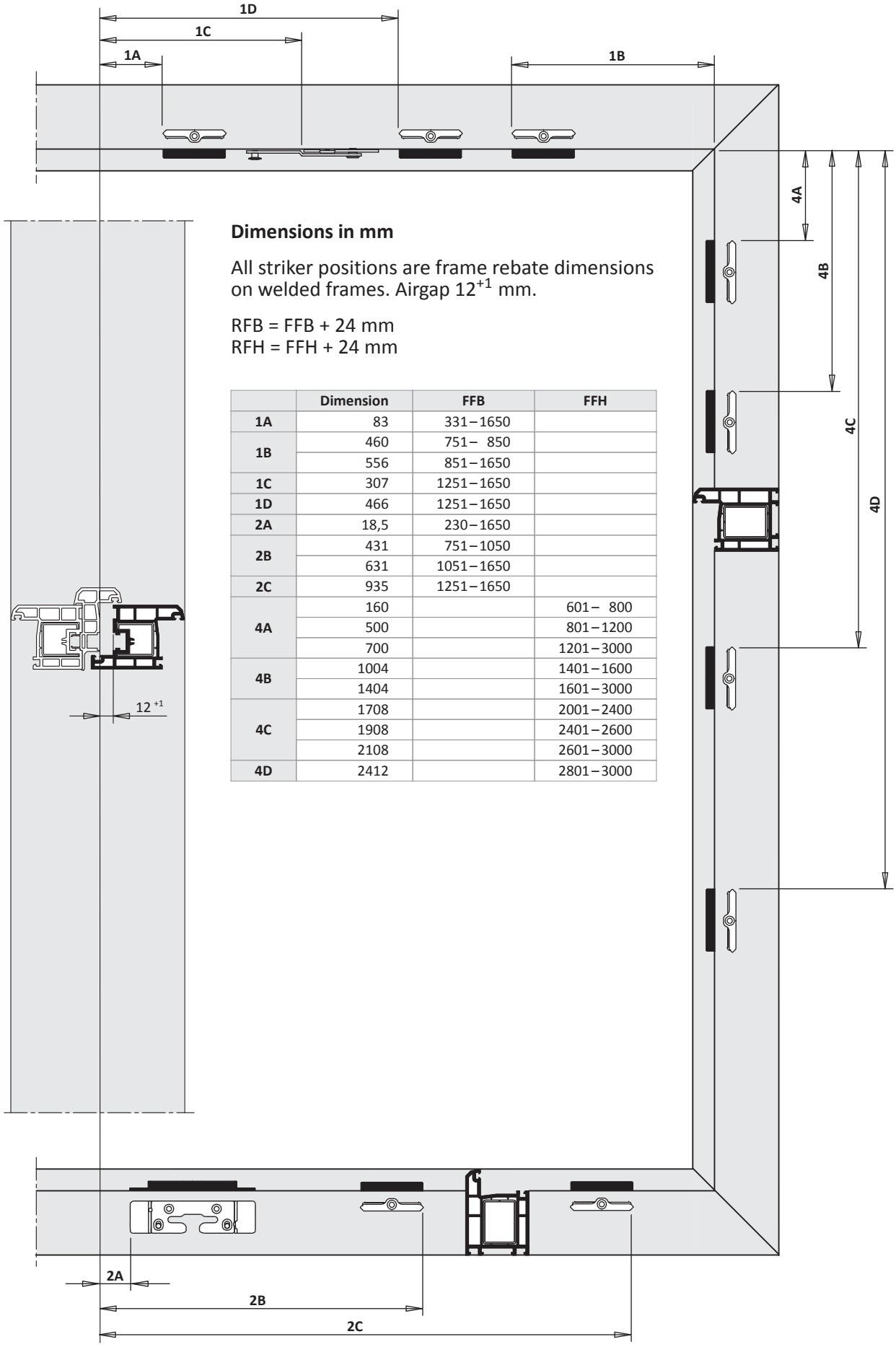


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	230– 370	461–3000
1B	71	371–1650	
1C	78	751– 850	
	435	751–1050	
	635	1051–1650	
1D	939	1251–1650	
2A	6,5	230–1650	
2B	419	751–1050	
	619	1051–1650	
2C	923	1251–1650	



Dimensions in mm

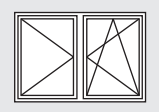
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	230–1650	
2B	431	751–1050	
	631	1051–1650	
2C	935	1251–1650	
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

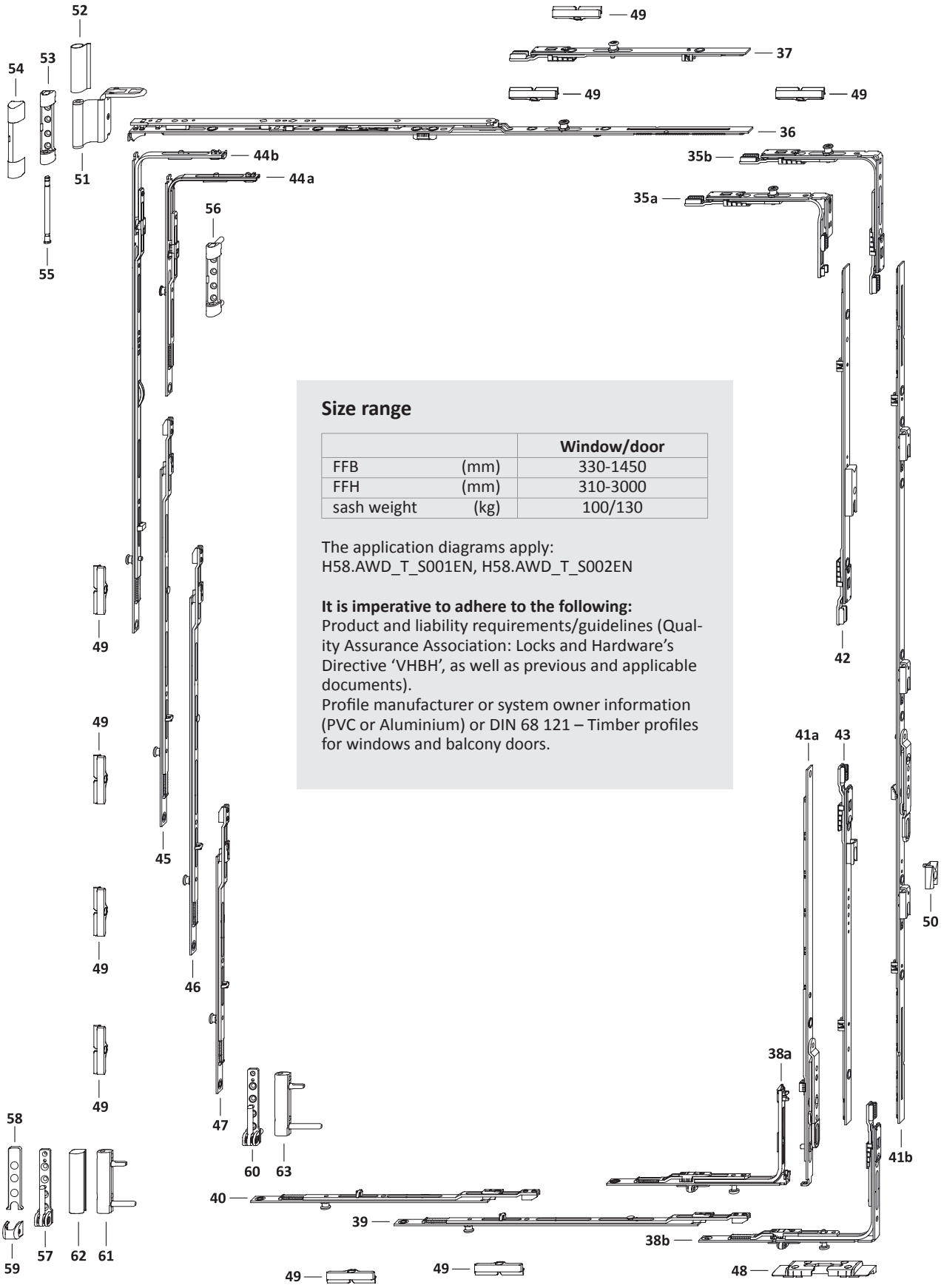
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700; secondary sash with DK-stay
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

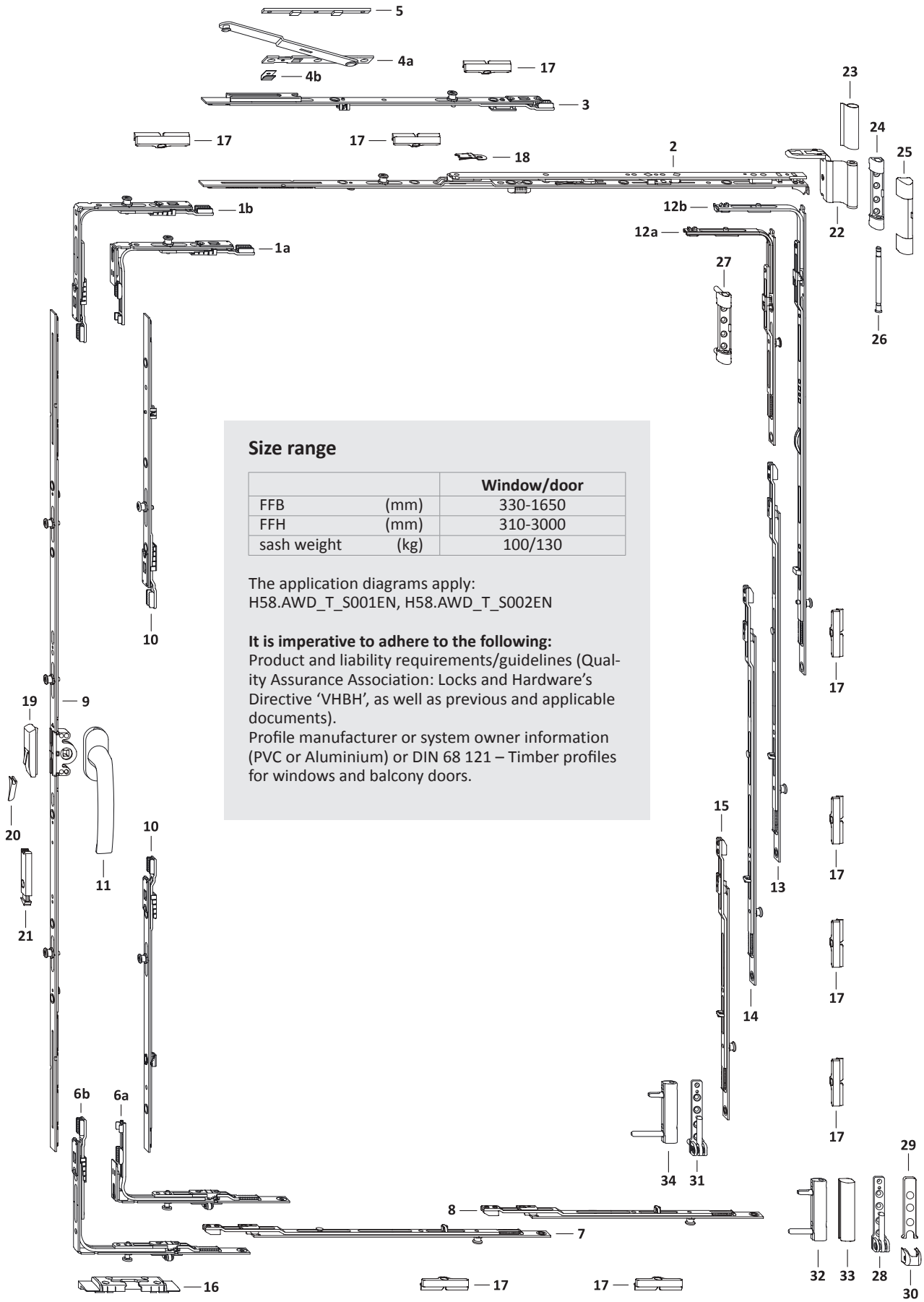


Size range

		Window/door
FFB	(mm)	330-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

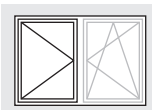
		Window/door
FFB	(mm)	330-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

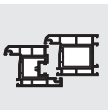
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	48	49
35a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	330– 850	310– 460			1
35b	corn.drive VSO 1RS	TEUL4010- ...	1	330–1450	461–3000			1
36	stay AF sz 0	TSKK2000- ...	1	330– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1
37	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
38a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	330–1450	461– 800		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		330– 850	310– 460		1	
38b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	330–1450	801–3000		1	
39	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
40	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1450				1
41a	sec.sash gear 16 sz 30	TGKS0010- ...	1	330– 850	310– 460	155– 230		
	sec.sash gear 16 sz 30	TGKS0010- ...			461– 600	230– 300		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300– 350		
41b	sec.sash gear 16 AF sz 70 1SB	TGMS4030- ...	1		701– 800	350– 400		
	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...			801–1200	400– 600		
	sec.sash gear 16 AF 120 2SB 70	TGMS4120- ...			1201–1600	600– 800		
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000		
	sec.sash gear 16 AF 200 3SB 70	TGMS4100- ...			2001–3000	1000–1500		
42	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
43	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800			
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000			
44a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
44b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
45	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
46	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
47	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
48	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
49	striker plate S 56	Ref. PDB, TRSM						
on request								
50	striker snapper AF A0767	TRST0100- ...	1		1601–3000			

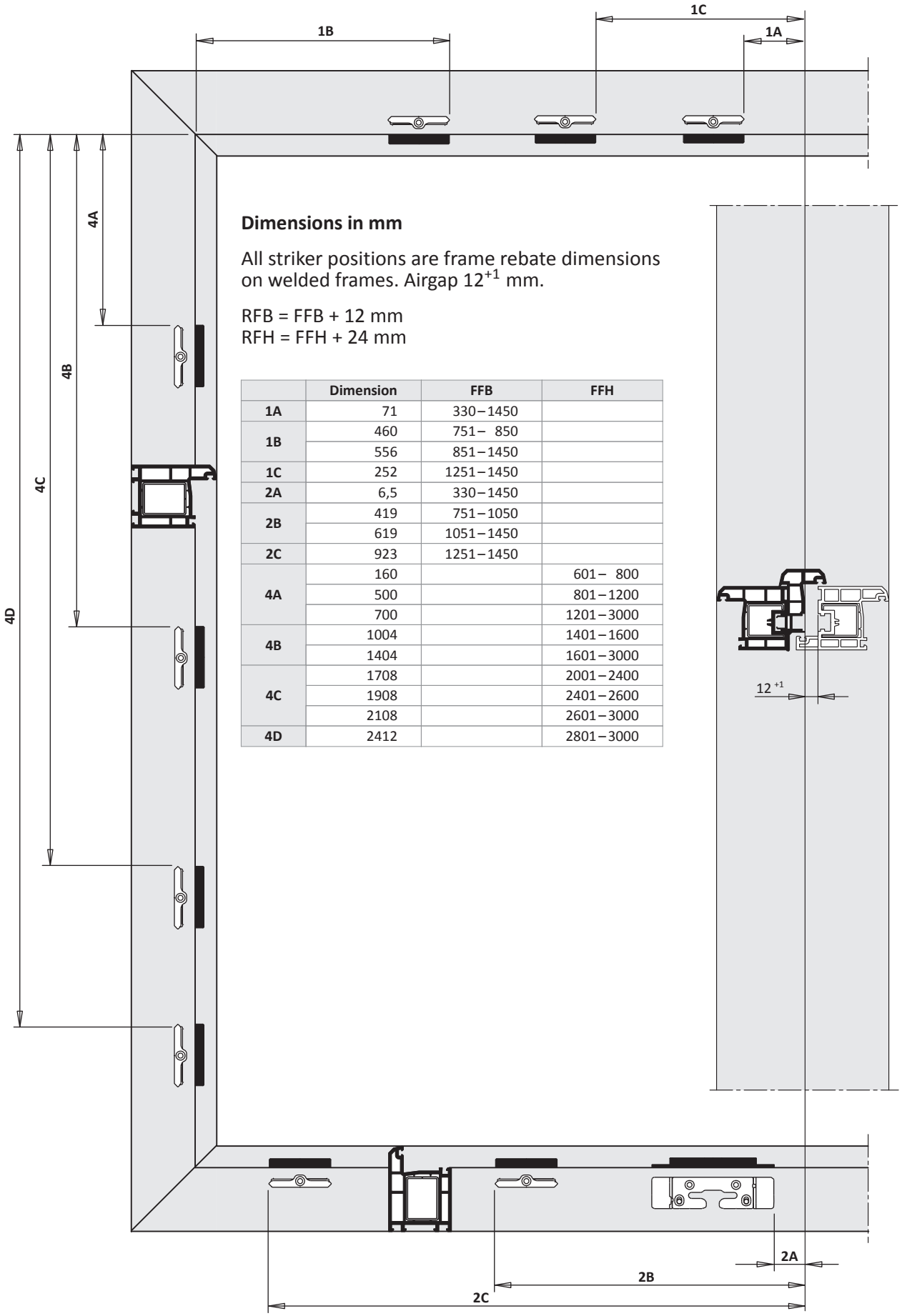
Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
51	stay hinge DH	Ref. PDB, TBWB61			1	1
52	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
53	top hinge 100kg	Ref. PDB, TBSL61			1	
54	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
55	top hinge pin Poly	TBSB6020-1 ...			1	1
56	top hinge 130kg	Ref. PDB, TBSL62				1
57	bottom hinge 100kg	Ref. PDB, TBEL01			1	
58	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
59	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
60	bottom hinge 130kg	Ref. PDB, TBEL02				1
61	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
62	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
63	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							16	17
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	330– 850	310– 460			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	330–1650	461–3000			1
2	stay AF sz 0	TSKK2000- ...	1	330– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
	stay AF sz 2 1RS	TSKK2120- ...	2	751– 850				2
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	330– 850	310– 460		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	330–1650	461–3000		1	
7	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
9	gear 15 AF sz 20	TGMK4010- ...	1	330– 850	310– 460	155– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350		
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500		
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
11	handle Globe	Ref.access. ZHGS	1		310–3000			
12a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
12b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
16	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
17	striker plate S 56	Ref. PDB, TRSM						
on request								
18	tilt restrictor ..	TFKB0010- ...	1		310– 800			
19	mishandling device	TFBS0010- ...	1					
20	pressure piece	Ref. PDB, TFFD	1					
21	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
22	stay hinge DH	Ref. PDB, TBWB61			1	1
23	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
24	top hinge 100kg	Ref. PDB, TBSL61			1	
25	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
26	top hinge pin Poly	TBSB6020-1 ...			1	1
27	top hinge 130kg	Ref. PDB, TBSL62				1
28	bottom hinge 100kg	Ref. PDB, TBEL01			1	
29	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
30	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
31	bottom hinge 130kg	Ref. PDB, TBEL02				1
32	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
33	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
34	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

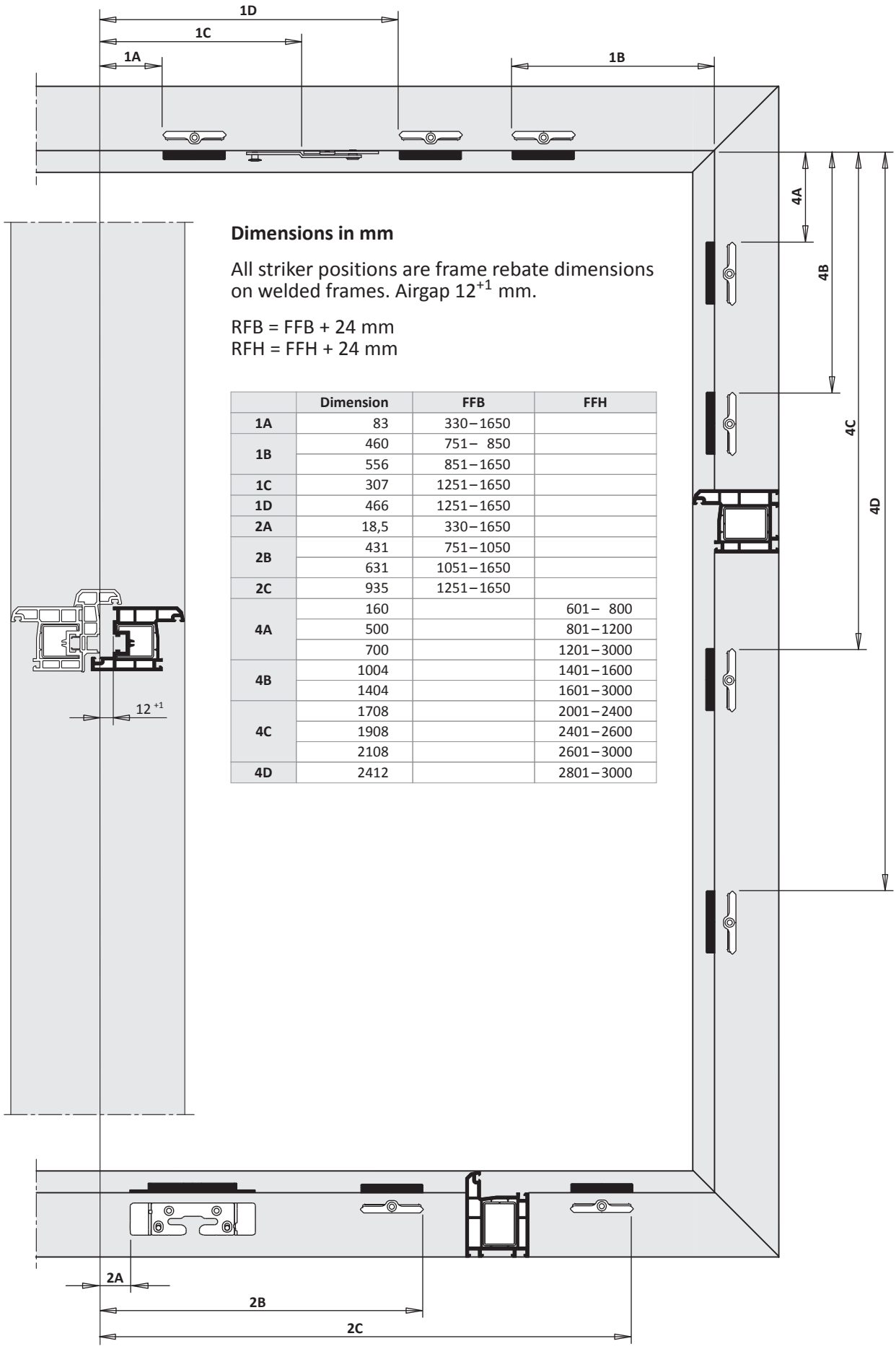


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	330–1450	
1B	460	751– 850	
	556	851–1450	
1C	252	1251–1450	
2A	6,5	330–1450	
2B	419	751–1050	
	619	1051–1450	
2C	923	1251–1450	
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000



Dimensions in mm

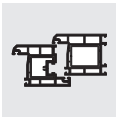
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	330–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	330–1650	
2B	431	751–1050	
	631	1051–1650	
2C	935	1251–1650	
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

TITAN AF

Installation instructions

GS

1-sash square tilt-turn

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

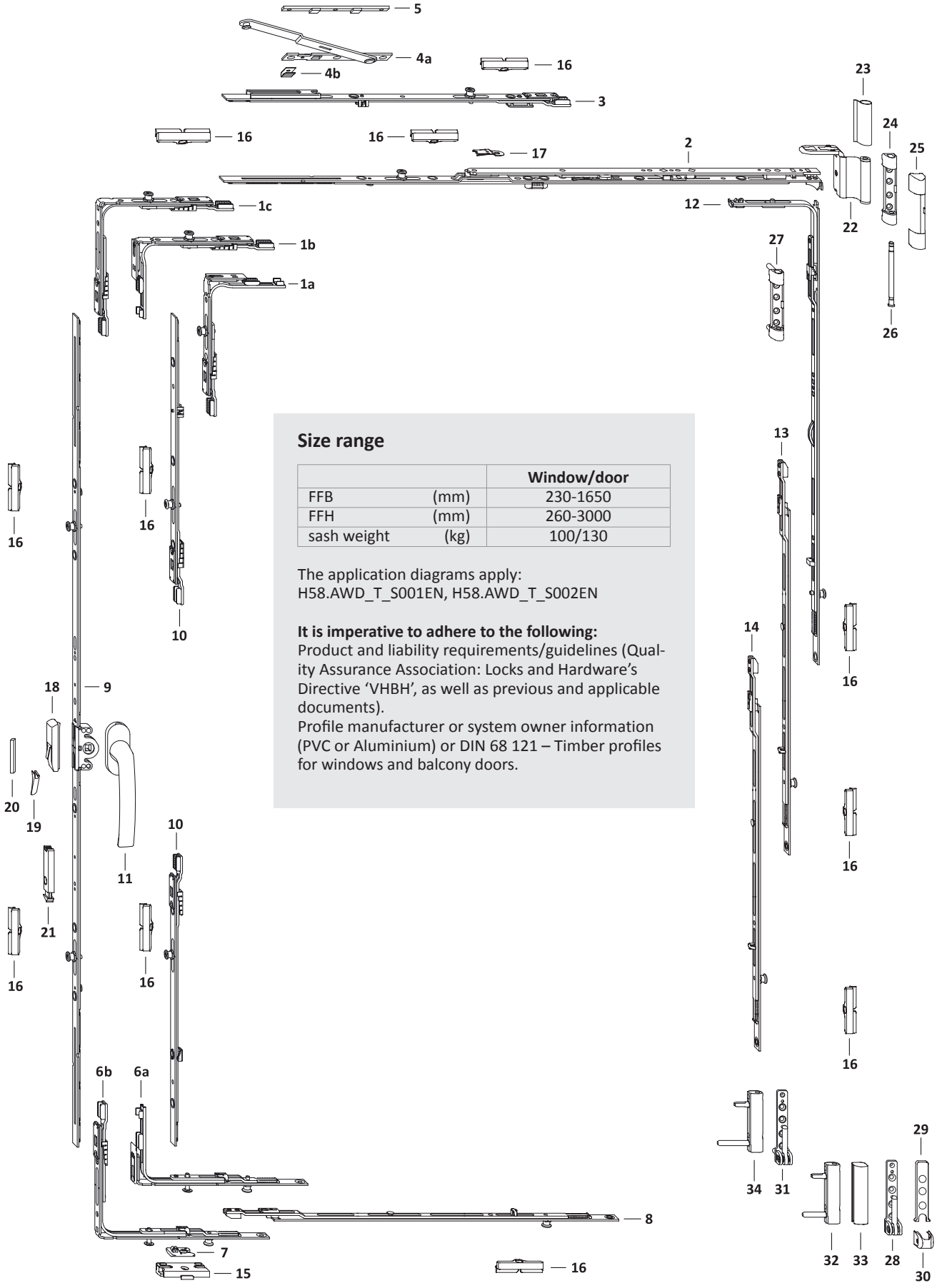
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GM Hinge side TITAN



Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	260-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

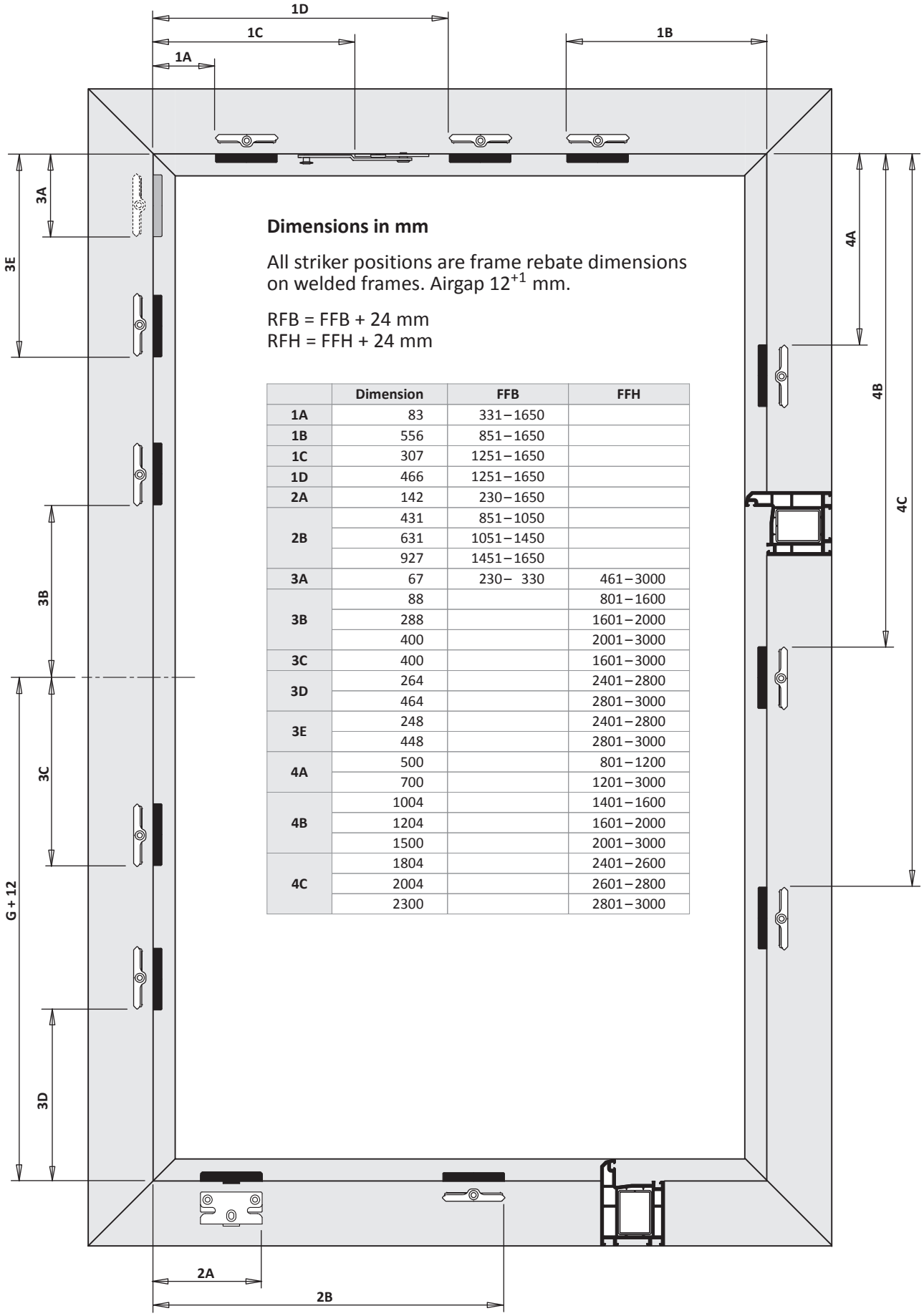
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Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							15	16
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230– 330	461–3000			1
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	331– 850	260– 460			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331–1650	461–3000			1
2	stay AF sz 0	TSKK2000- ...	1	230– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AFVSU/K56+nar.1S1RS	TEUL5100- ...	1	331– 850	260– 460		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	230–1650	461–3000		1	
7	run up block AF 13 mm 13	TFFH0080- ...	1	230–1650				
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
9	gear 15 AF sz 20	TGMK4010- ...	1	331– 850	260– 460	130– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
11	handle Globe	Ref.access. ZHGS	1		260–3000			
12	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
15	striker plate S-RS	Ref. PDB, TRSK						
16	striker plate S 56	Ref. PDB, TRSM						
on request								
17	tilt restrictor ..	TFKB0010- ...	1		260– 800			
18	mishandling device	TFBS0010- ...	1					
19	pressure piece	Ref. PDB, TFFD	1					
20	stop	Ref. PDB, FRZF01	1					
21	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
22	stay hinge DH	Ref. PDB, TBWB61			1	1
23	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
24	top hinge 100kg	Ref. PDB, TBSL61			1	
25	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
26	top hinge pin Poly	TBSB6020-1 ...			1	1
27	top hinge 130kg	Ref. PDB, TBSL62				1
28	bottom hinge 100kg	Ref. PDB, TBEL01			1	
29	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
30	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
31	bottom hinge 130kg	Ref. PDB, TBEL02				1
32	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
33	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
34	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions

1-sash square tilt-turn
PVC GM Hinge side TITAN



Dimensions in mm

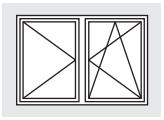
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	230–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	230– 330	461–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

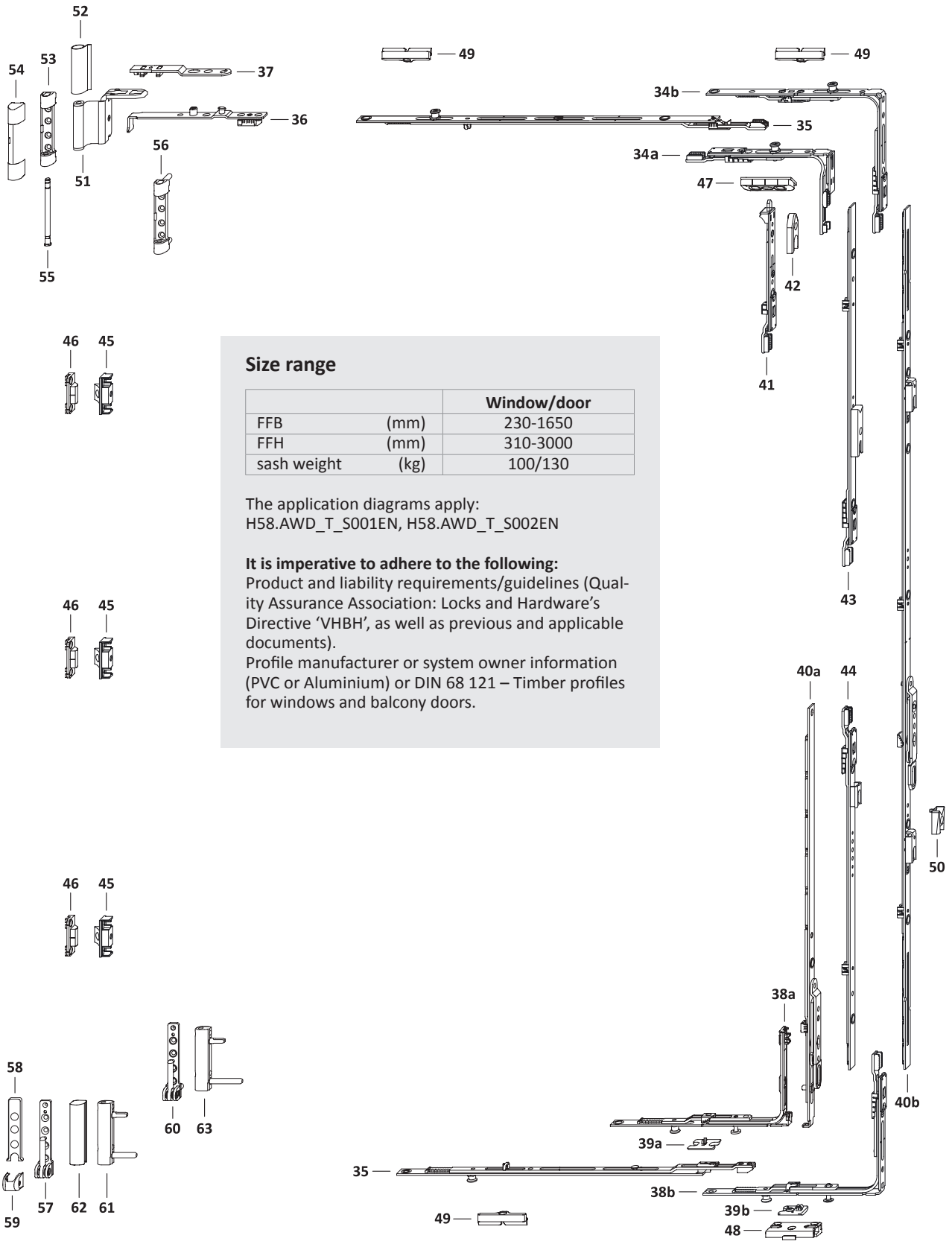
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

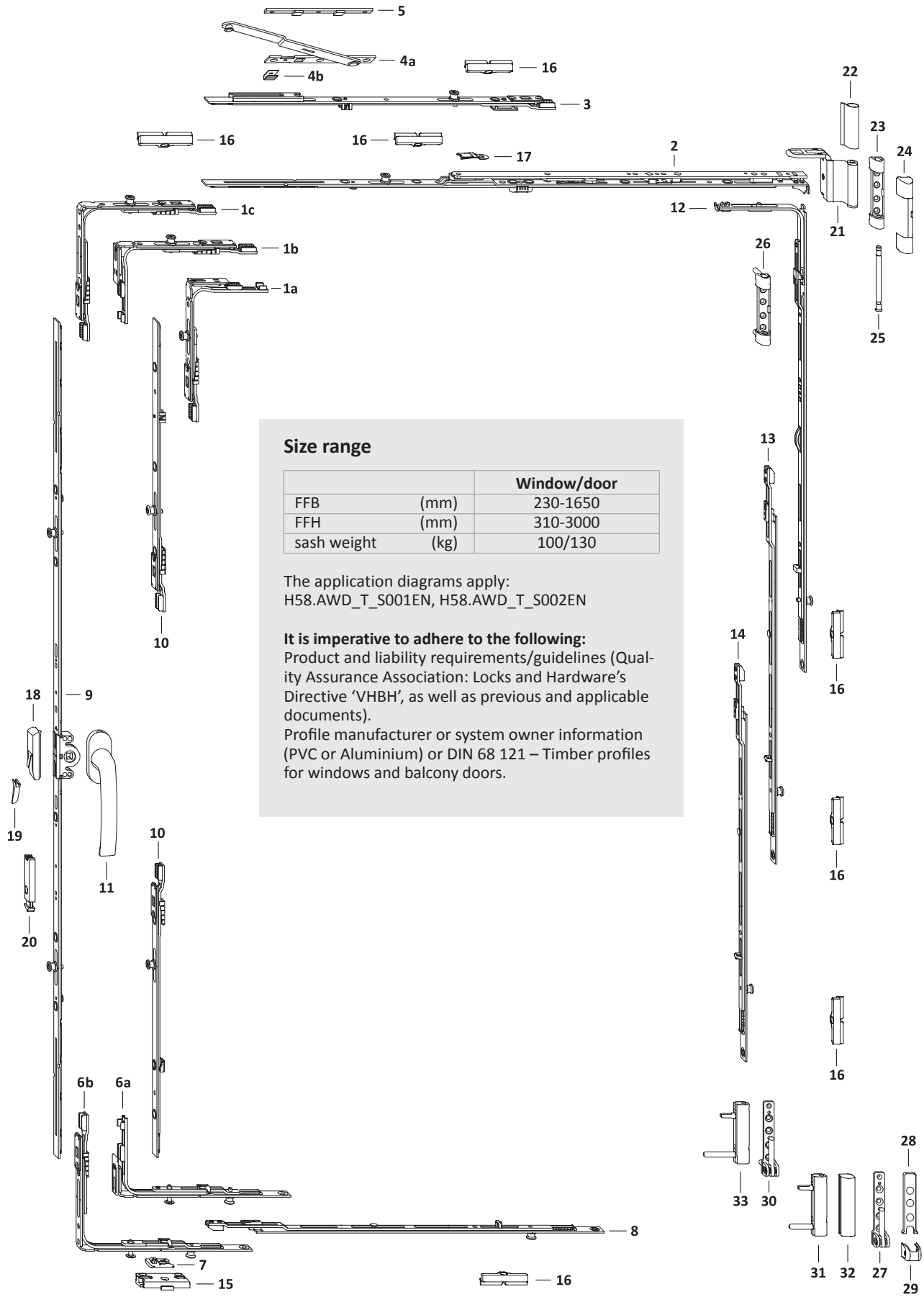


Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
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Size range

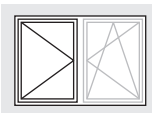
		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

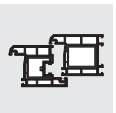
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	47	48	49
34a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371– 850	310– 460				1
34b	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	371–1650	461–3000				1
35	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					2
36	stay sash part DF/MN	TSSD0020- ...	1	230–1650					
37	stay arm DF	TSAD0010- ...	1	230–1650					
38a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	230–1650	461– 800			1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		331– 850	310– 460			1	
38b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	230–1650	801–3000			1	
39a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	230–1650	461– 800				
	run-up plate FH KRL56	Ref. PDB, TRAL01		331– 850	310– 460				
39b	run up block AF 13 mm 13	TFFH0080- ...	1	230–1650	801–3000				
40a	sec.sash gear 16 sz 30	TGKS0010- ...	1	371– 850	310– 460	155– 230			
	sec.sash gear 16 sz 30	TGKS0010- ...			461– 600	230– 300			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300– 400			
40b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801–1200	400– 600			
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201–1600	600– 800			
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000			
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001–3000	1000–1500			
41	locking bolt AF VSO RSA 11	TESC2030- ...	1	230– 370	461–3000		1		
42	striker plate A0767	TRSA0010- ...	1	230– 330	461–3000				
43	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
44	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800				
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000				
45	sash part MV	Ref. PDB, ZFMV01	1		801–1600				
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400				
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000				
46	frame part MV	Ref. PDB, ZRZM01	1		801–1600				
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400				
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000				
47	striker V	Ref. PDB, FRZV01							
48	striker plate S-RS	Ref. PDB, TRSK							
49	striker plate S 56	Ref. PDB, TRSM							
on request									
50	striker snapper AF A0767	TRST0100- ...	1		1601–3000				

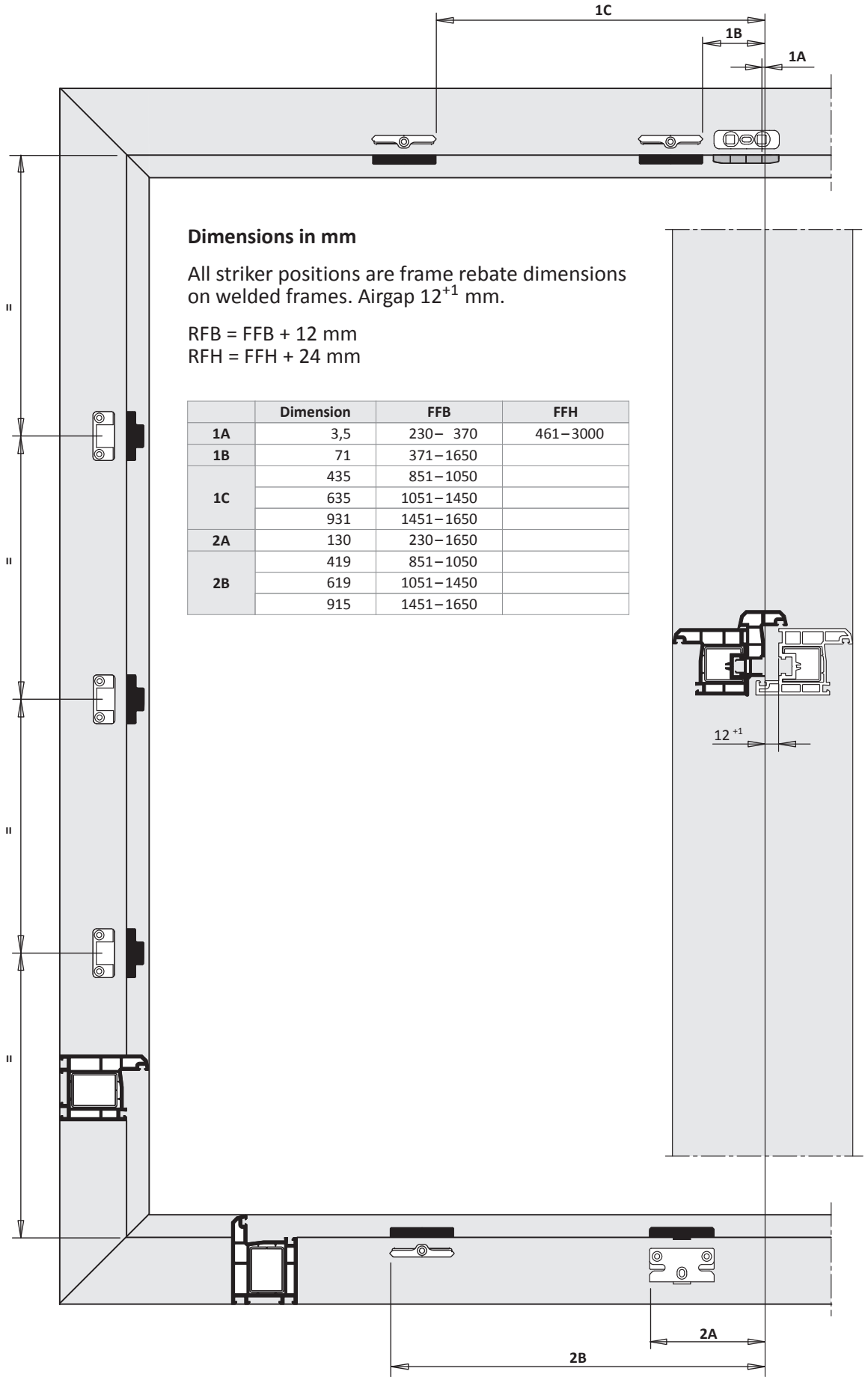
Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
51	stay hinge DH	Ref. PDB, TBWB61			1	1
52	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
53	top hinge 100kg	Ref. PDB, TBSL61			1	
54	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
55	top hinge pin Poly	TBSB6020-1 ...			1	1
56	top hinge 130kg	Ref. PDB, TBSL62				1
57	bottom hinge 100kg	Ref. PDB, TBEL01			1	
58	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
59	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
60	bottom hinge 130kg	Ref. PDB, TBEL02				1
61	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
62	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
63	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							15	16
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230 – 330	461 – 3000			
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	2	371 – 850	310 – 460			2
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331 – 1650	461 – 3000			1
2	stay AF sz 0	TSKK2000- ...	1	230 – 450				
	stay AF sz 1	TSKK2010- ...		451 – 680				
	stay AF sz 2	TSKK2020- ...		681 – 850				
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251 – 1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451 – 1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650				1
4	additional stay	Ref. PDB, TSZS	1	1251 – 1650				
5	packer Z	Ref. PDB, FRUP01	1	1251 – 1650				
6a	corn.drive AFVSU/K56+nar.1S1RS	TEUL5100- ...	1	371 – 850	310 – 460		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	230 – 1650	461 – 3000		1	
7	run up block AF 13 mm 13	TFFH0080- ...	1	230 – 1650				
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650				1
9	gear 15 AF sz 20	TGMK4010- ...	1	371 – 850	310 – 460	155 – 230		
	gear 15 AF sz 20	TGMK4010- ...			461 – 600	230 – 300		
	gear 15 AF sz 60	TGMK4020- ...			601 – 800	300 – 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801 – 1200	400 – 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201 – 1600	600 – 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601 – 2000	800 – 1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001 – 3000	1000 – 1500		
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401 – 2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000			
11	handle Globe	Ref.access. ZHGS	1		310 – 3000			
12	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801 – 1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201 – 3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000			1
15	striker plate S-RS	Ref. PDB, TRSK						
16	striker plate S 56	Ref. PDB, TRSM						
on request								
17	tilt restrictor ..	TFKB0010- ...	1		310 – 800			
18	mishandling device	TFBS0010- ...	1		601 – 3000			
19	pressure piece	Ref. PDB, TFFD	1		601 – 3000			
20	snapper rh.	TFST0021- ...	1		1601 – 3000			
	snapper lh.	TFST0022- ...			1601 – 3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
21	stay hinge DH	Ref. PDB, TBWB61			1	1
22	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
23	top hinge 100kg	Ref. PDB, TBSL61			1	
24	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
25	top hinge pin Poly	TBSB6020-1 ...			1	1
26	top hinge 130kg	Ref. PDB, TBSL62				1
27	bottom hinge 100kg	Ref. PDB, TBEL01			1	
28	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
29	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
30	bottom hinge 130kg	Ref. PDB, TBEL02				1
31	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
32	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
33	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

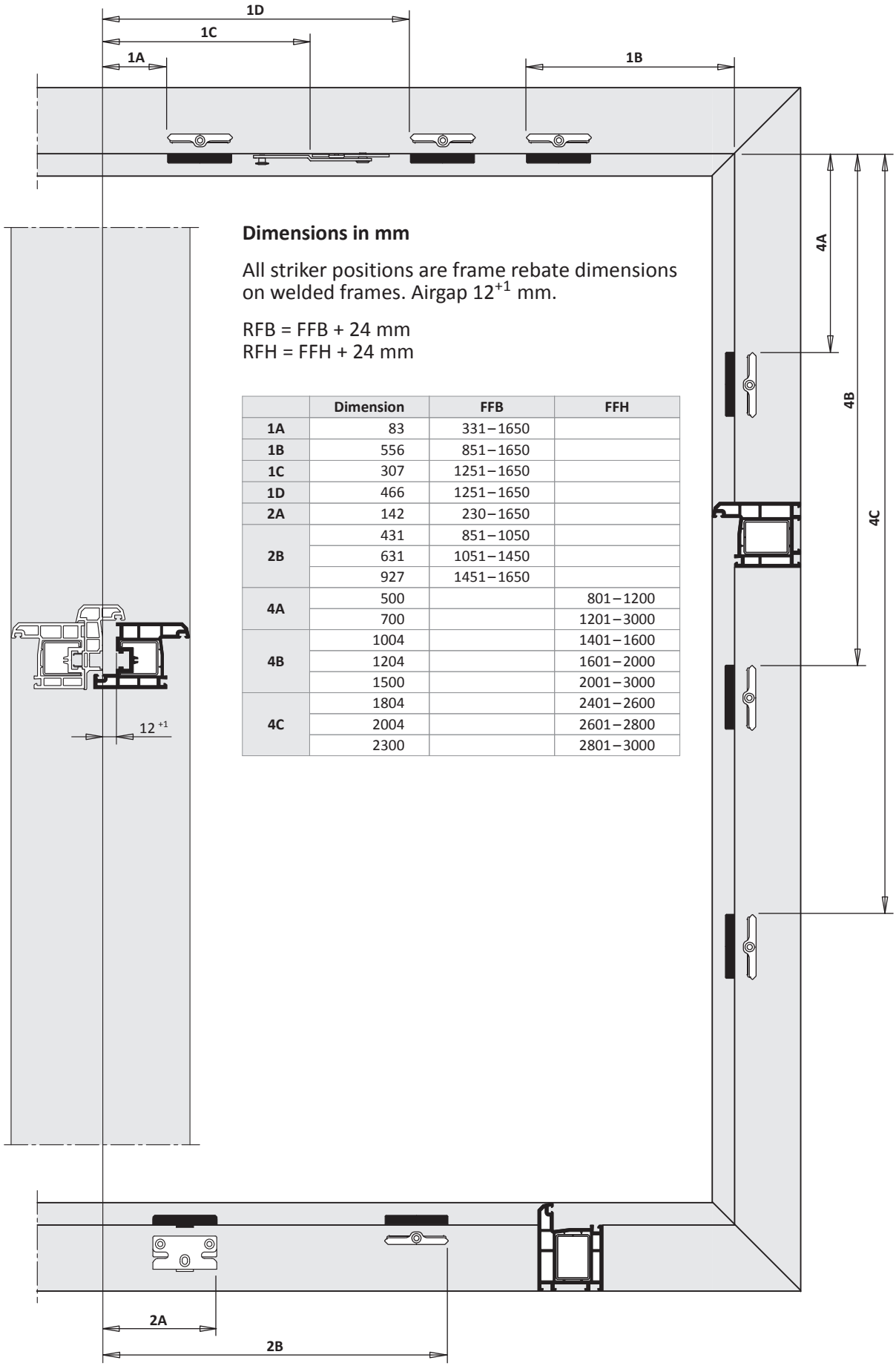


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	230– 370	461–3000
1B	71	371–1650	
1C	435	851–1050	
	635	1051–1450	
	931	1451–1650	
2A	130	230–1650	
2B	419	851–1050	
	619	1051–1450	
	915	1451–1650	



Dimensions in mm

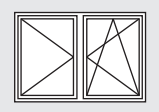
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	230–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

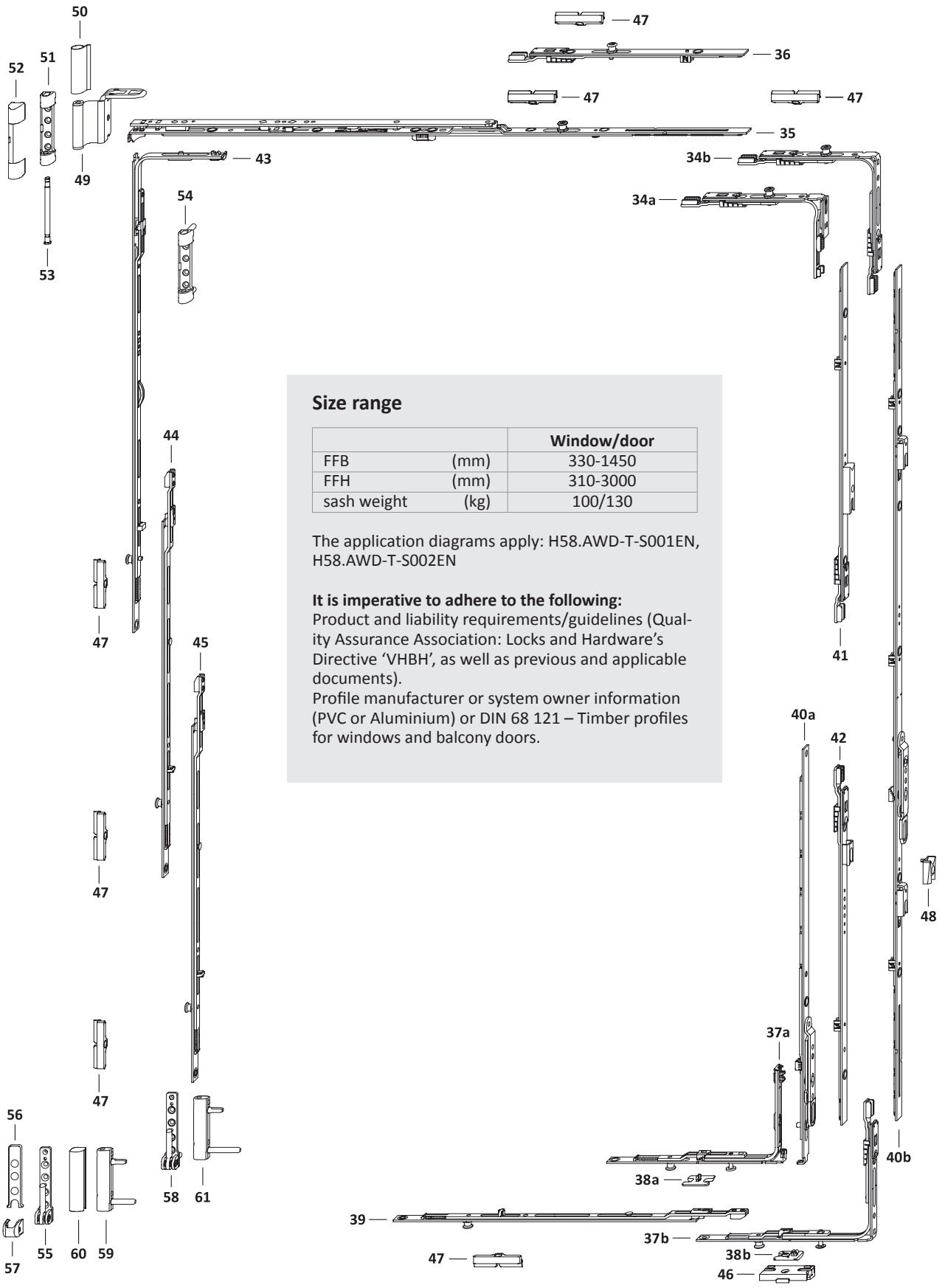
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800; secondary sash with DK-stay
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

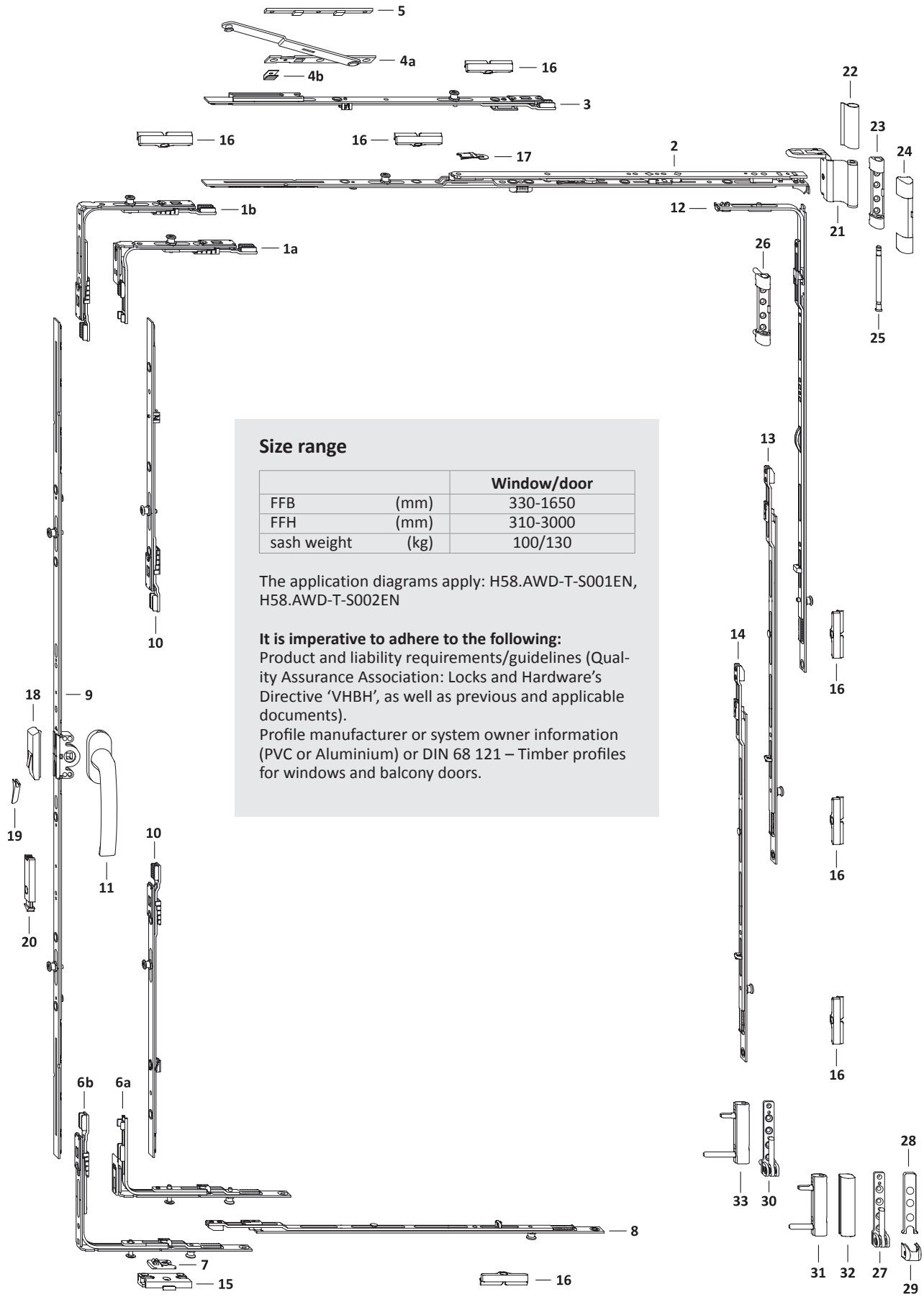


Size range

		Window/door
FFB	(mm)	330-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply: H58.AWD-T-S001EN, H58.AWD-T-S002EN

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Size range

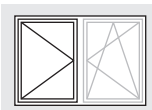
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FFB	(mm)	330-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

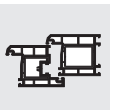
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List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	46	47
34a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	330 – 850	310 – 460			1
34b	corn.drive VSO 1RS	TEUL4010- ...	1	330 – 1450	461 – 3000			1
35	stay AF sz 0	TSKK2000- ...	1	330 – 450				
	stay AF sz 1	TSKK2010- ...		451 – 680				
	stay AF sz 2	TSKK2020- ...		681 – 850				
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1450				1
36	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251 – 1450				1
37a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	330 – 1450	461 – 800		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		330 – 850	310 – 460		1	
37b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	330 – 1450	801 – 3000		1	
38a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	330 – 1450	461 – 800			
	run-up plate FH KRL56	Ref. PDB, TRAL01		330 – 850	310 – 460			
38b	run up plate AF 13 mm 13	TFFH0080- ...	1	330 – 1450	801 – 3000			
39	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450				1
40a	sec.sash gear 16 sz 30	TGKS0010- ...	1	330 – 850	310 – 460	155 – 230		
	sec.sash gear 16 sz 30	TGKS0010- ...			461 – 600	230 – 300		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601 – 800	300 – 400		
40b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801 – 1200	400 – 600		
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201 – 1600	600 – 800		
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601 – 2000	800 – 1000		
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001 – 3000	1000 – 1500		
41	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401 – 2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000			
42	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401 – 2800			
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801 – 3000			
43	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801 – 1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201 – 3000			1
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000			1
45	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000			1
46	striker plate S-RS	Ref. PDB, TRSK						
47	striker plate S 56	Ref. PDB, TRSM						
on request								
48	striker snapper AF A0767	TRST0100- ...	1		1601 – 3000			

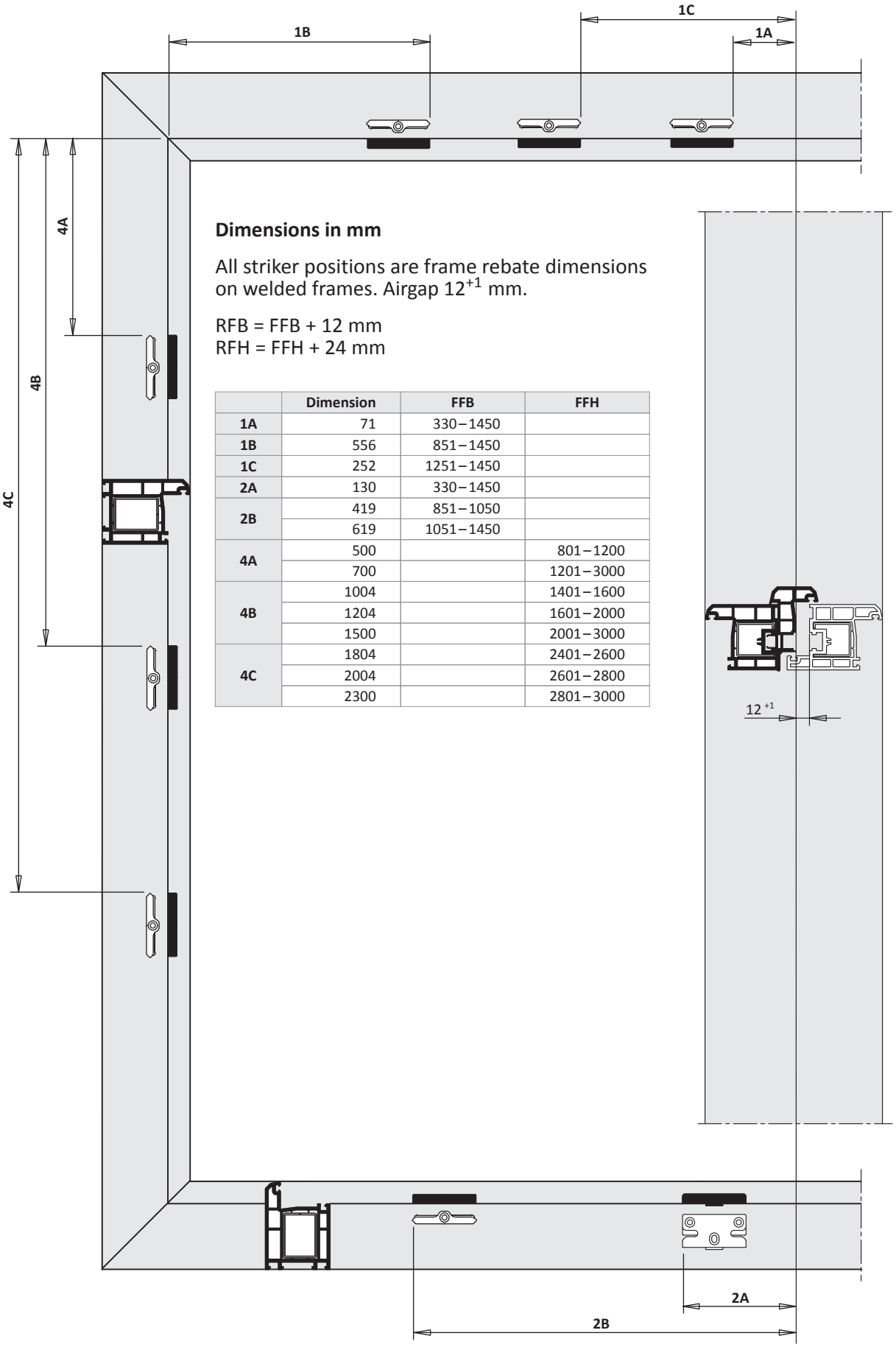
Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
49	stay hinge DH	Ref. PDB, TBWB61			1	1
50	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
51	top hinge 100kg	Ref. PDB, TBSL61			1	
52	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
53	top hinge pin Poly	TBSB6020-1 ...			1	1
54	top hinge 130kg	Ref. PDB, TBSL62				1
55	bottom hinge 100kg	Ref. PDB, TBEL01			1	
56	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
57	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
58	bottom hinge 130kg	Ref. PDB, TBEL02				1
59	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
60	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
61	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							15	16
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	330– 850	310– 460			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	330–1650	461–3000			1
2	stay AF sz 0	TSKK2000- ...	1	330– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AFVSU/K56+nar.1S1RS	TEUL5100- ...	1	330– 850	310– 460		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	330–1650	461–3000		1	
7	run up plate AF 13 mm 13	TFFH0080- ...	1	330–1650				
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
9	gear 15 AF sz 20	TGMK4010- ...	1	330– 850	310– 460	155– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
11	handle Globe	Ref.access. ZHGS	1		310–3000			
12	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
15	striker plate S-RS	Ref. PDB, TRSK						
16	striker plate S 56	Ref. PDB, TRSM						
on request								
17	tilt restrictor ..	TFKB0010- ...	1		310– 800			
18	mishandling device	TFBS0010- ...	1		601–3000			
19	pressure piece	Ref. PDB, TFFD	1		601–3000			
20	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
21	stay hinge DH	Ref. PDB, TBWB61			1	1
22	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
23	top hinge 100kg	Ref. PDB, TBSL61			1	
24	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
25	top hinge pin Poly	TBSB6020-1 ...			1	1
26	top hinge 130kg	Ref. PDB, TBSL62				1
27	bottom hinge 100kg	Ref. PDB, TBEL01			1	
28	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
29	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
30	bottom hinge 130kg	Ref. PDB, TBEL02				1
31	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
32	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
33	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

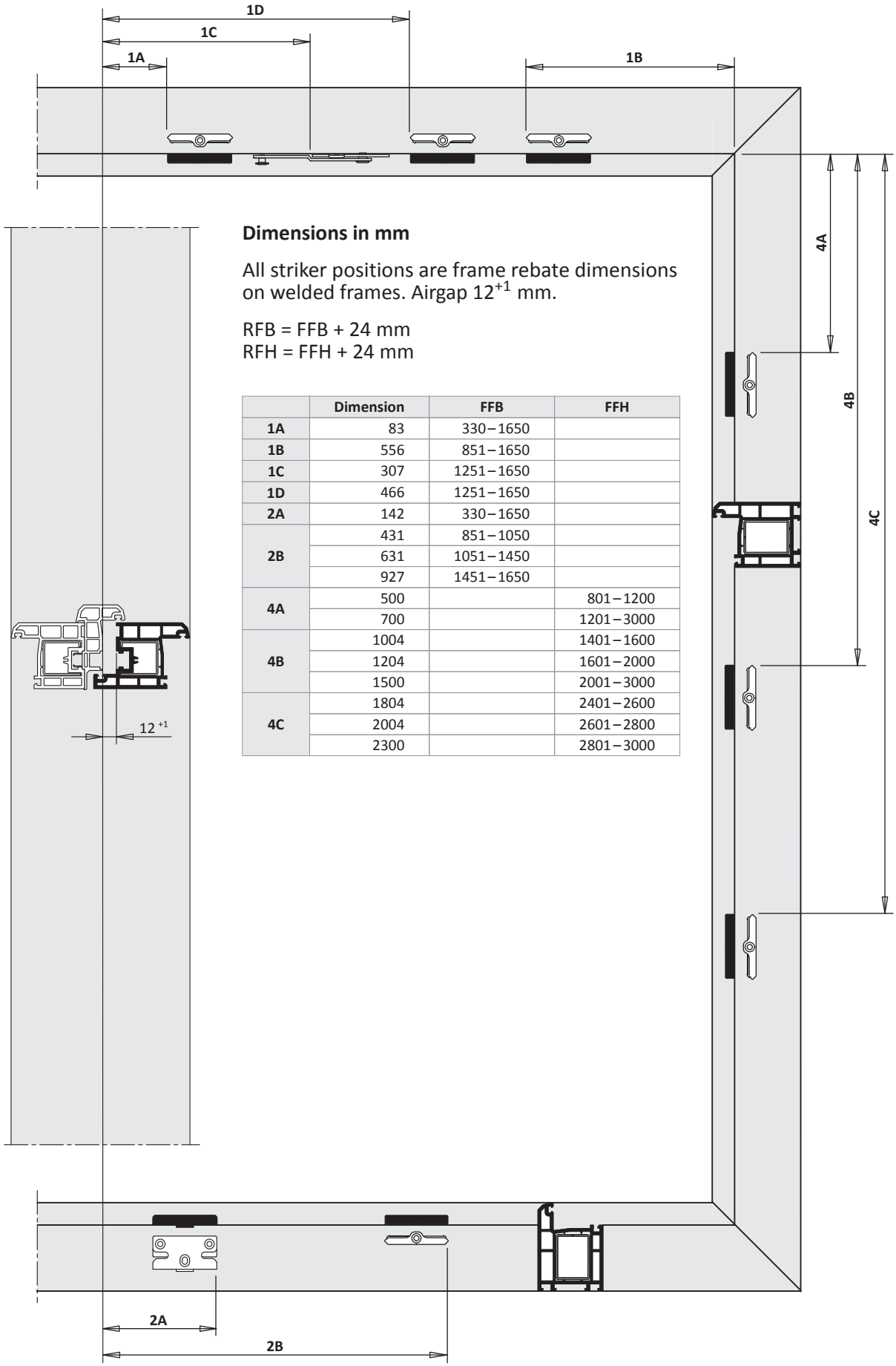


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	330–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	130	330–1450	
2B	419	851–1050	
	619	1051–1450	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

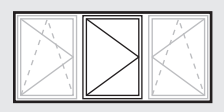
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	330–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	330–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





GS

3-sash Centre sash second opening turn

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

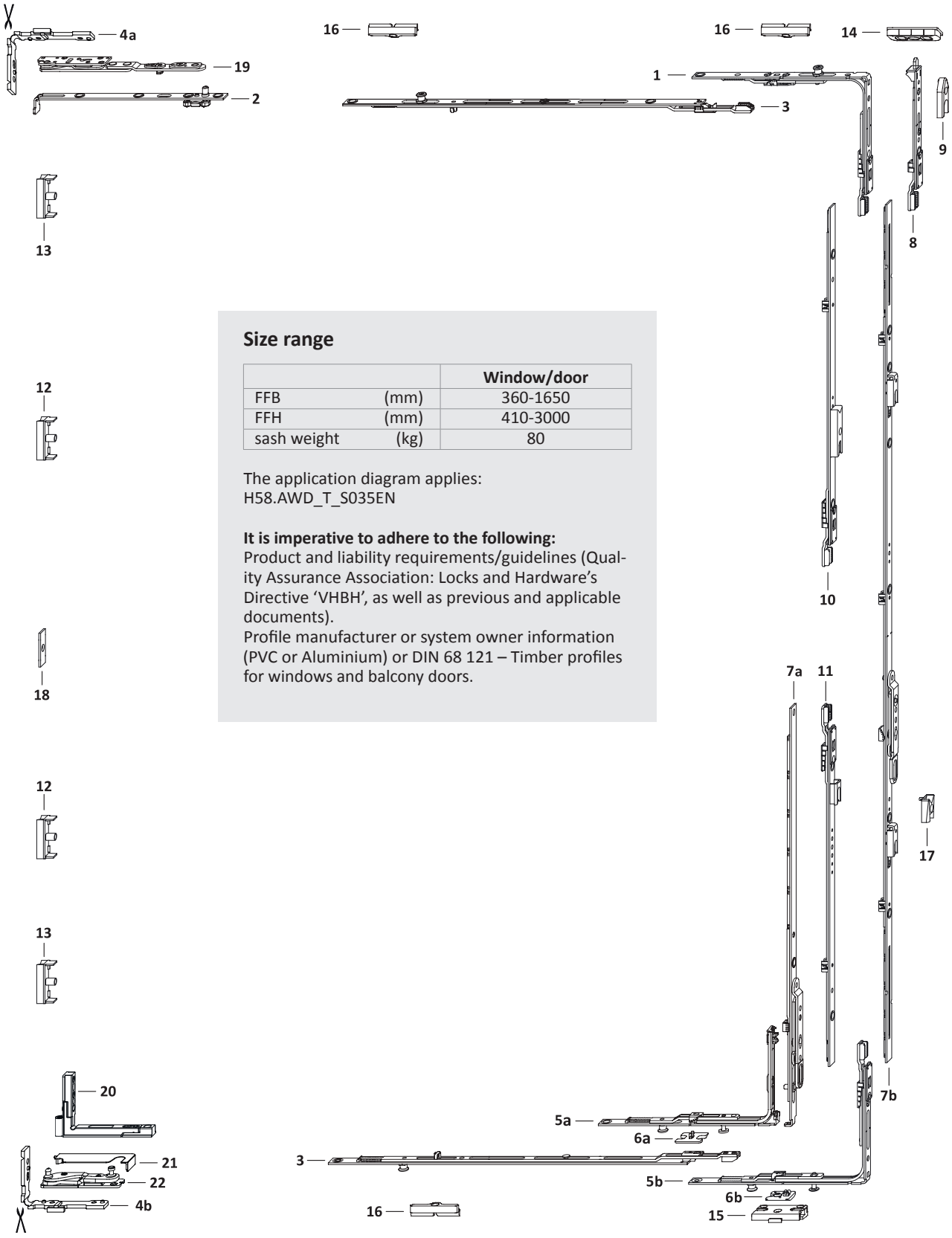
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear

hardware layout

3-sash Centre sash second opening turn
PVC GM Hinge side TITAN

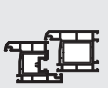
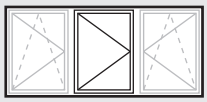


Size range

		Window/door
FFB	(mm)	360-1650
FFH	(mm)	410-3000
sash weight	(kg)	80

The application diagram applies:
H58.AWD_T_S035EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings

3-sash Centre sash second opening turn
PVC GM Hinge side TITAN

TITAN AF

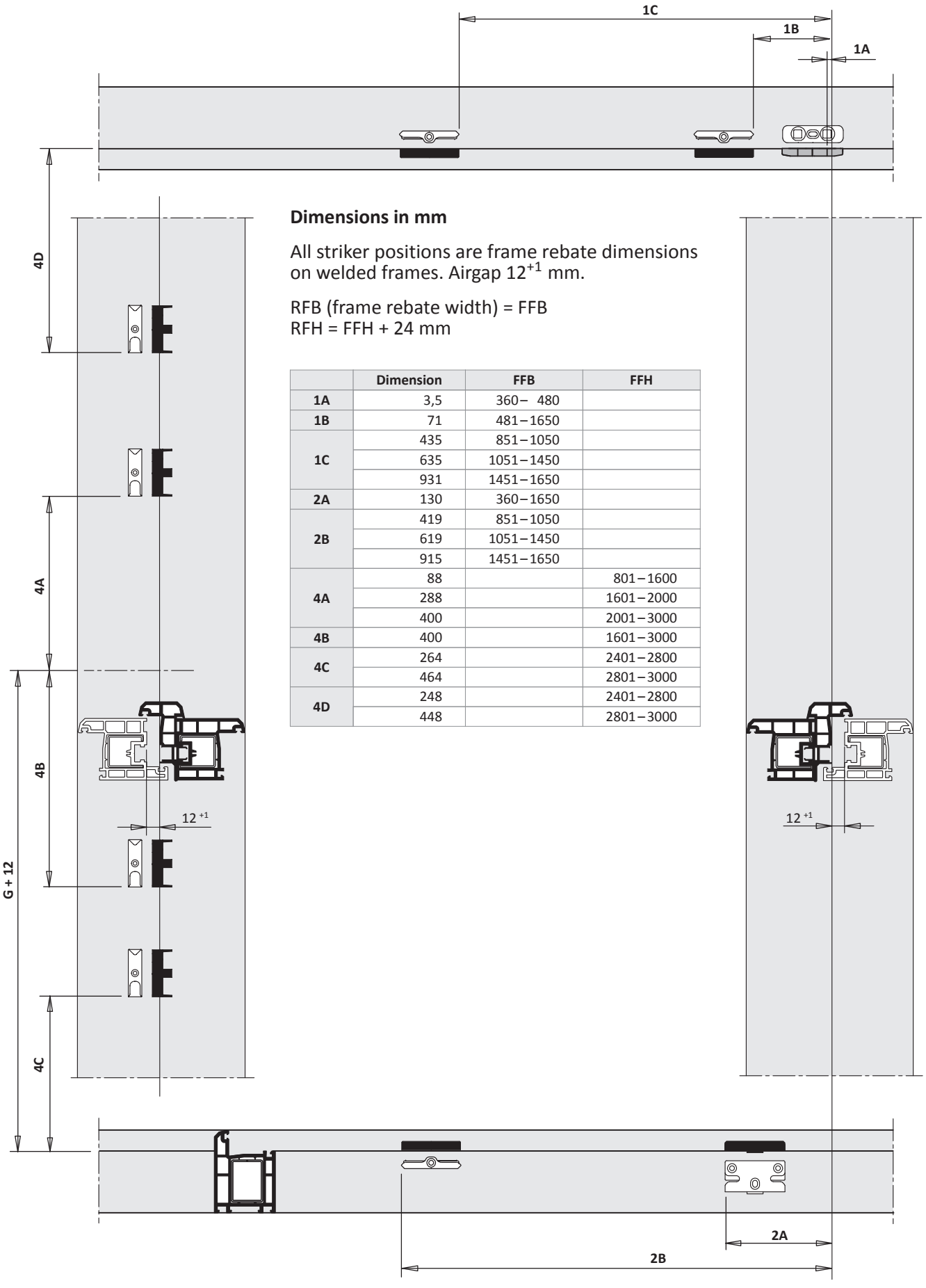
GS

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							14	15	16
1	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	481 – 1650					1
2	stay sash part DF AX	TSSV3020- ...	1	360 – 1650					
3	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851 – 1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450					2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650					2
4	crt. accessories AX	Ref. PDB, TMZV41	1	360 – 1650					
5a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	360 – 1650	410 – 800			1	
5b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	360 – 1650	801 – 3000			1	
6a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	360 – 1650	410 – 800				
6b	run up block AF 13 mm 13	TFFH0080- ...	1	360 – 1650	801 – 3000				
7a	sec.sash gear 16 sz 30	TGKS0010- ...	1		410 – 600	205 – 300			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601 – 800	300 – 400			
7b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801 – 1200	400 – 600			
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201 – 1600	600 – 800			
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601 – 2000	800 – 1000			
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001 – 3000	1000 – 1500			
8	locking bolt AF VSO RSA 11	TESC2030- ...	1	360 – 480	410 – 3000		1		
9	striker plate A0767	TRSA0010- ...	1	360 – 480	410 – 3000				
10	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401 – 2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000				
11	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401 – 2800				
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801 – 3000				
12	striker plate 56 A2000	TRSB0030- ...	1		801 – 1200				
	striker plate 56 A2000	TRSB0030- ...			1201 – 1600				
	striker plate 56 A2000	TRSB0030- ...	2		1601 – 2000				
	striker plate 56 A2000	TRSB0030- ...			2001 – 3000				
13	striker plate 56 A2000	TRSB0030- ...	2		2401 – 3000				
14	striker V	Ref. PDB, FRZV02							
15	striker plate S-RS	Ref. PDB, TRSK							
16	striker plate S 56	Ref. PDB, TRSM							
on request									
17	striker snapper AF A0767	TRST0100- ...	1		1601 – 3000				
18	stop 2,2mm	710937	1		601 – 3000				

Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	--	80 kg
19	stay arm AX DF/3	Ref. PDB, TSAV47		
20	corner hinge AX	Ref. PDB, TBEB41		
21	cover cap AX EL	Ref. PDB, TKEL41		
22	bottom hinge AX DF/3	Ref. PDB, TBEV43		

Frame dimensions

3-sash Centre sash second opening turn
PVC GM Hinge side TITAN



Dimensions in mm

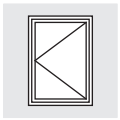
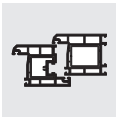
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB (frame rebate width) = FFB
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	360– 480	
1B	71	481–1650	
1C	435	851–1050	
	635	1051–1450	
	931	1451–1650	
2A	130	360–1650	
2B	419	851–1050	
	619	1051–1450	
	915	1451–1650	
4A	88		801–1600
	288		1601–2000
	400		2001–3000
4B	400		1601–3000
4C	264		2401–2800
	464		2801–3000
4D	248		2401–2800
	448		2801–3000

TITAN AF

Installation instructions



GS

1-sash square turn

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

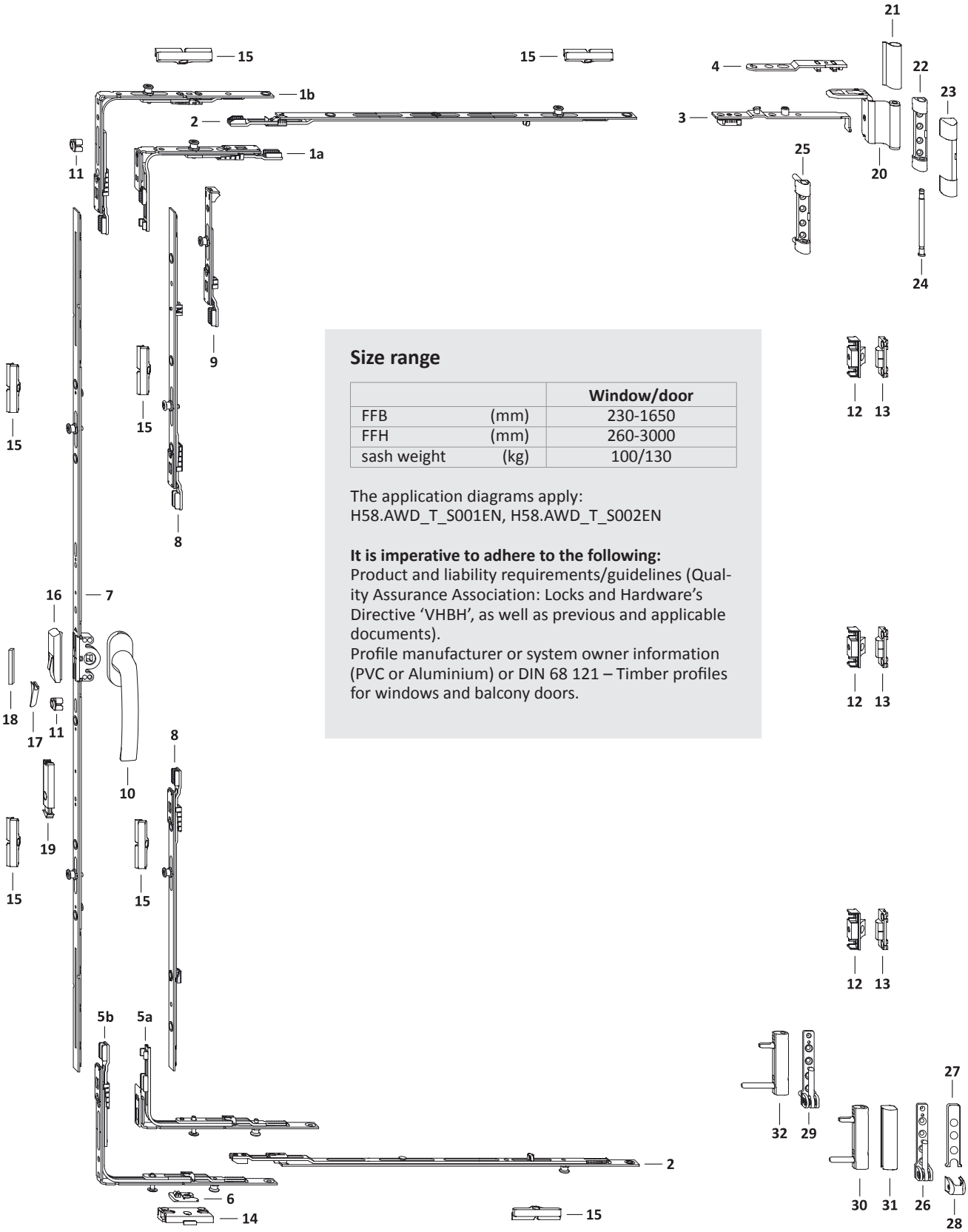
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side turning points	Standard

hardware layout

1-sash square turn
PVC GM Hinge side TITAN



Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	260-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

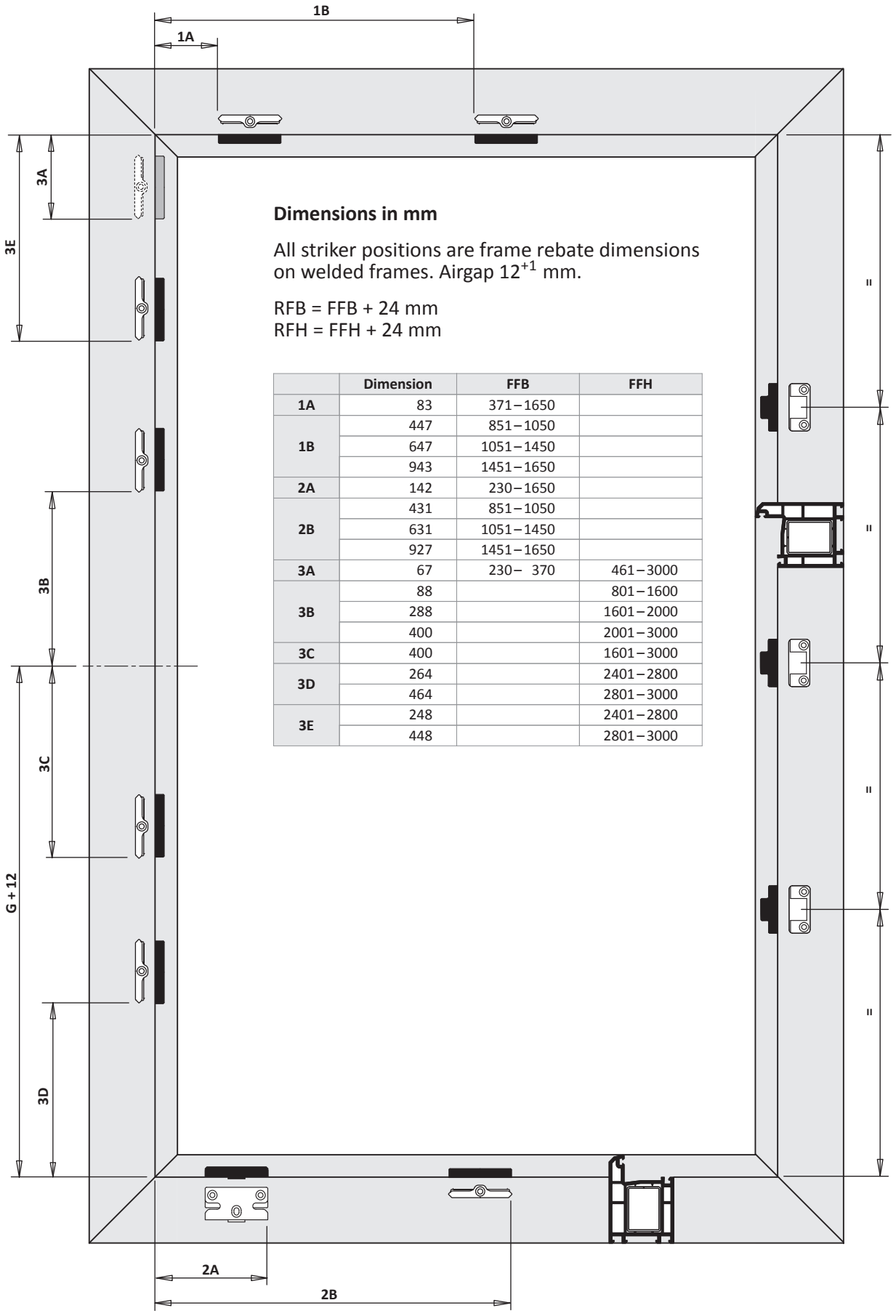
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							14	15
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371– 850	260– 460			1
1b	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	371–1650	461–3000			1
2	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050				2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				2
3	stay sash part DF/MN	TSSD0020- ...	1	230–1650				
4	stay arm DF	TSAD0010- ...	1	230–1650				
5a	corn.drive AFVSU/K56+nar.1S1RS	TEUL5100- ...	1	331– 850	260– 460		1	
5b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	230–1650	461–3000		1	
6	run up block AF 13 mm 13	TFFH0080- ...	1	230–1650				
7	gear 15 AF sz 20	TGMK4010- ...	1	371– 850	260– 460	130– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
8	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
9	locking bolt AF VS 180° 1RS	TESC2020- ...	1	230– 370	461–3000			1
10	handle Globe	Ref.access. ZHGS	1		260–3000			
11	travel restrictor	TFHB0010- ...	1		260–3000			
12	sash part MV	Ref. PDB, ZFMV01	1		801–1600			
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400			
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000			
13	frame part MV	Ref. PDB, ZRZM01	1		801–1600			
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400			
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000			
14	striker plate S-RS	Ref. PDB, TRSK						
15	striker plate S 56	Ref. PDB, TRSM						
on request								
16	mishandling device	TFBS0010- ...	1					
17	pressure piece	Ref. PDB, TFFD	1					
18	stop	Ref. PDB, FRZF01	1					
19	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
20	stay hinge DH	Ref. PDB, TBWB61			1	1
21	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
22	top hinge 100kg	Ref. PDB, TBSL61			1	
23	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
24	top hinge pin Poly	TBSB6020-1 ...			1	1
25	top hinge 130kg	Ref. PDB, TBSL62				1
26	bottom hinge 100kg	Ref. PDB, TBEL01			1	
27	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
28	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
29	bottom hinge 130kg	Ref. PDB, TBEL02				1
30	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
31	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
32	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions

1-sash square turn
PVC GM Hinge side TITAN



Dimensions in mm

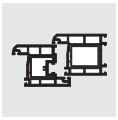
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	371–1650	
1B	447	851–1050	
	647	1051–1450	
	943	1451–1650	
2A	142	230–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	230– 370	461–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000

TITAN AF

Installation instructions

GS

1-sash square tilt-turn

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

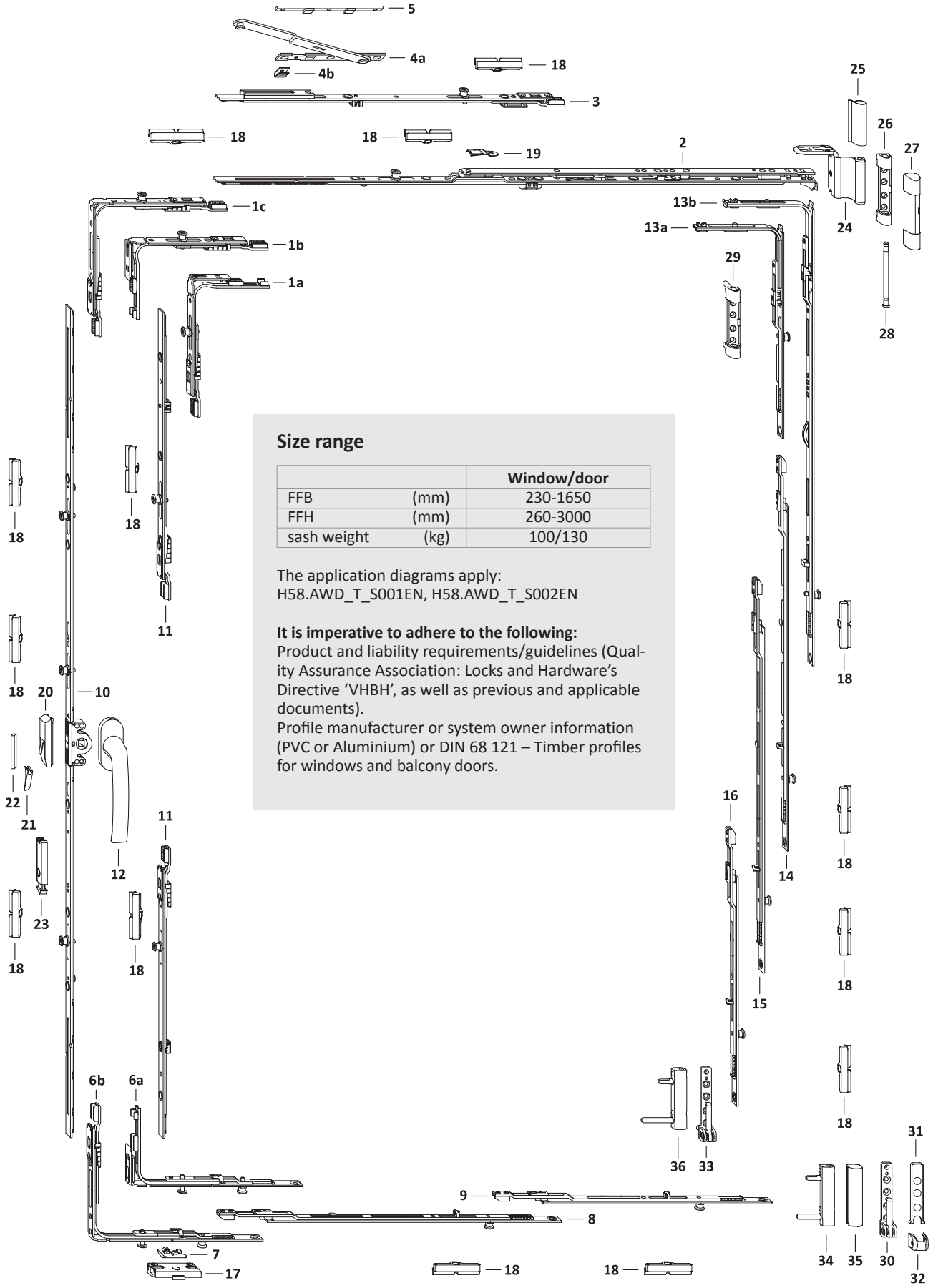
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GM Hinge side TITAN



Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	260-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

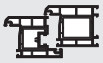
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							17	18
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230– 330	461–3000			1
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	331– 850	260– 460			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331–1650	461–3000			1
2	stay AF sz 0	TSKK2000- ...	1	230– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AFVSU/K56+nar.1S1RS	TEUL5100- ...	1	331– 850	260– 460		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	230–1650	461–3000		1	
7	run up block AF 13 mm 13	TFFH0080- ...	1	230–1650				
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
10	gear 15 AF sz 20	TGMK4010- ...	1	331– 850	260– 460	130– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350		
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400		1
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800		2
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500		3
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
12	handle Globe	Ref.access. ZHGS	1		260–3000			
13a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
13b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
17	striker plate S-RS	Ref. PDB, TRSK						
18	striker plate S 56	Ref. PDB, TRSM						
on request								
19	tilt restrictor ..	TFKB0010- ...	1		260– 800			
20	mishandling device	TFBS0010- ...	1					
21	pressure piece	Ref. PDB, TFFD	1					
22	stop	Ref. PDB, FRZF01	1					
23	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

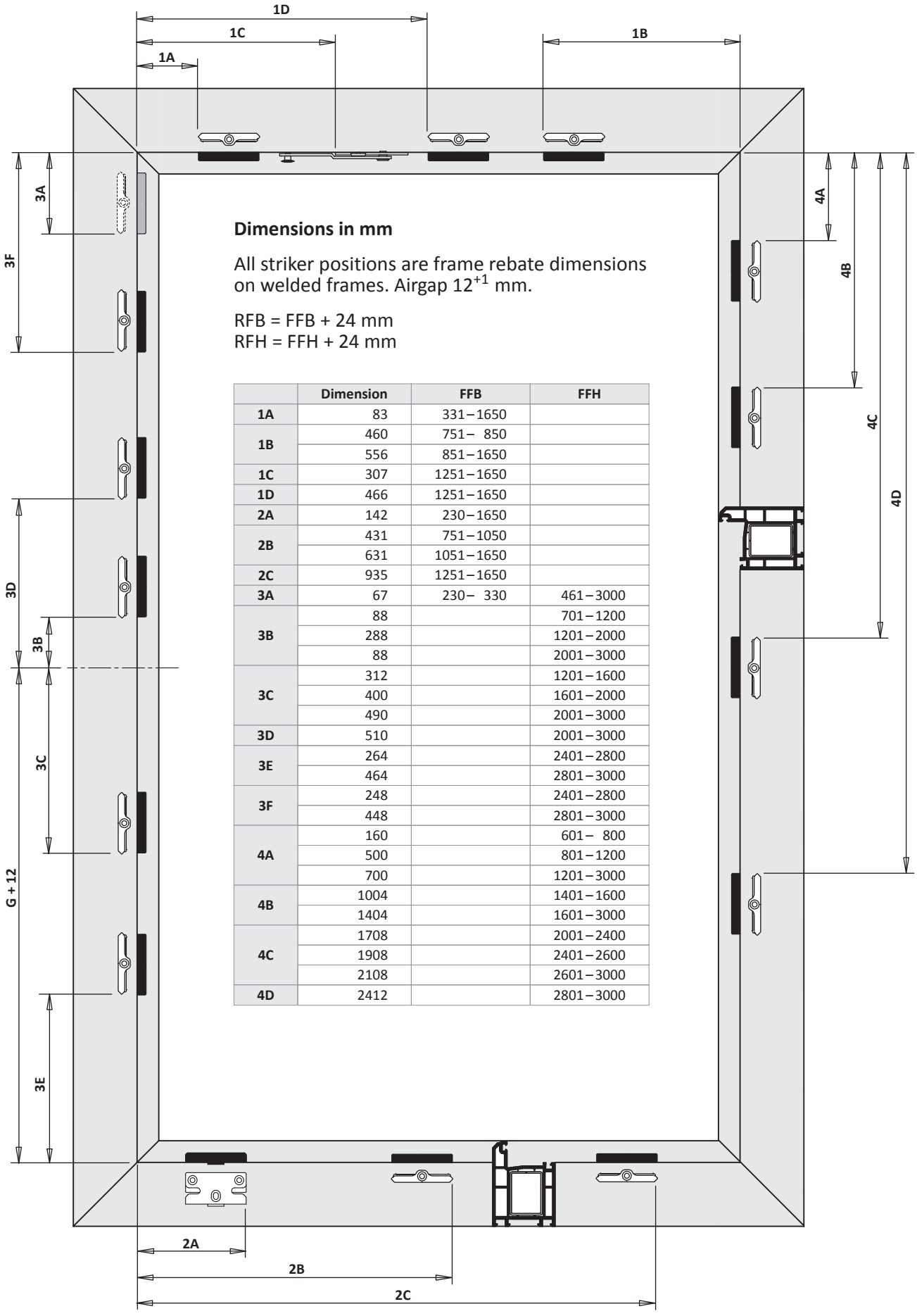
List of fittings

1-sash square tilt-turn
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
24	stay hinge DH	Ref. PDB, TBWB61			1	1
25	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
26	top hinge 100kg	Ref. PDB, TBSL61			1	
27	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
28	top hinge pin Poly	TBSB6020-1 ...			1	1
29	top hinge 130kg	Ref. PDB, TBSL62				1
30	bottom hinge 100kg	Ref. PDB, TBEL01			1	
31	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
32	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
33	bottom hinge 130kg	Ref. PDB, TBEL02				1
34	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
35	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
36	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

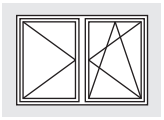
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	230–1650	
2B	431	751–1050	
	631	1051–1650	
2C	935	1251–1650	
3A	67	230– 330	461–3000
3B	88		701–1200
	288		1201–2000
	88		2001–3000
3C	312		1201–1600
	400		1601–2000
	490		2001–3000
3D	510		2001–3000
3E	264		2401–2800
	464		2801–3000
3F	248		2401–2800
	448		2801–3000
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

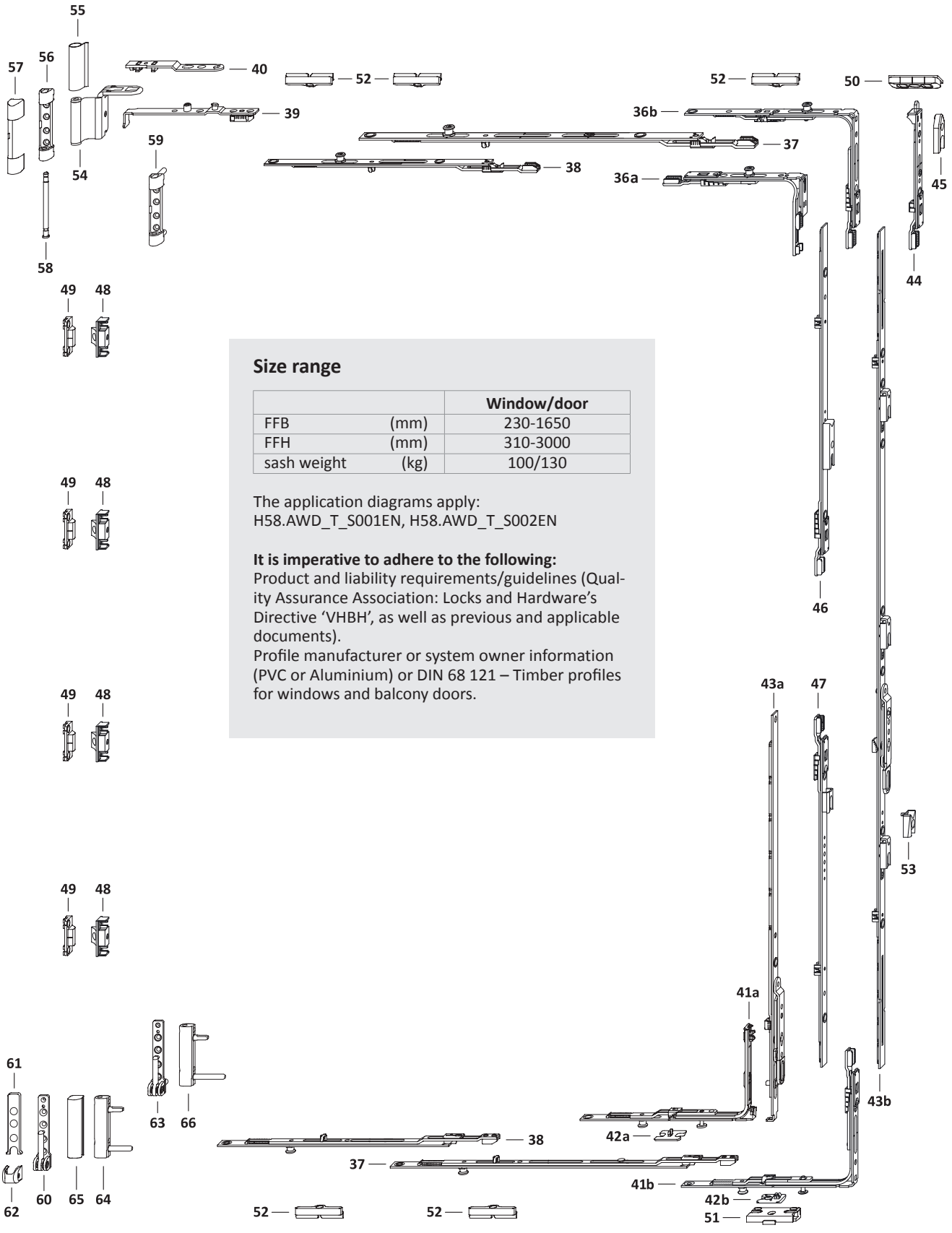
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

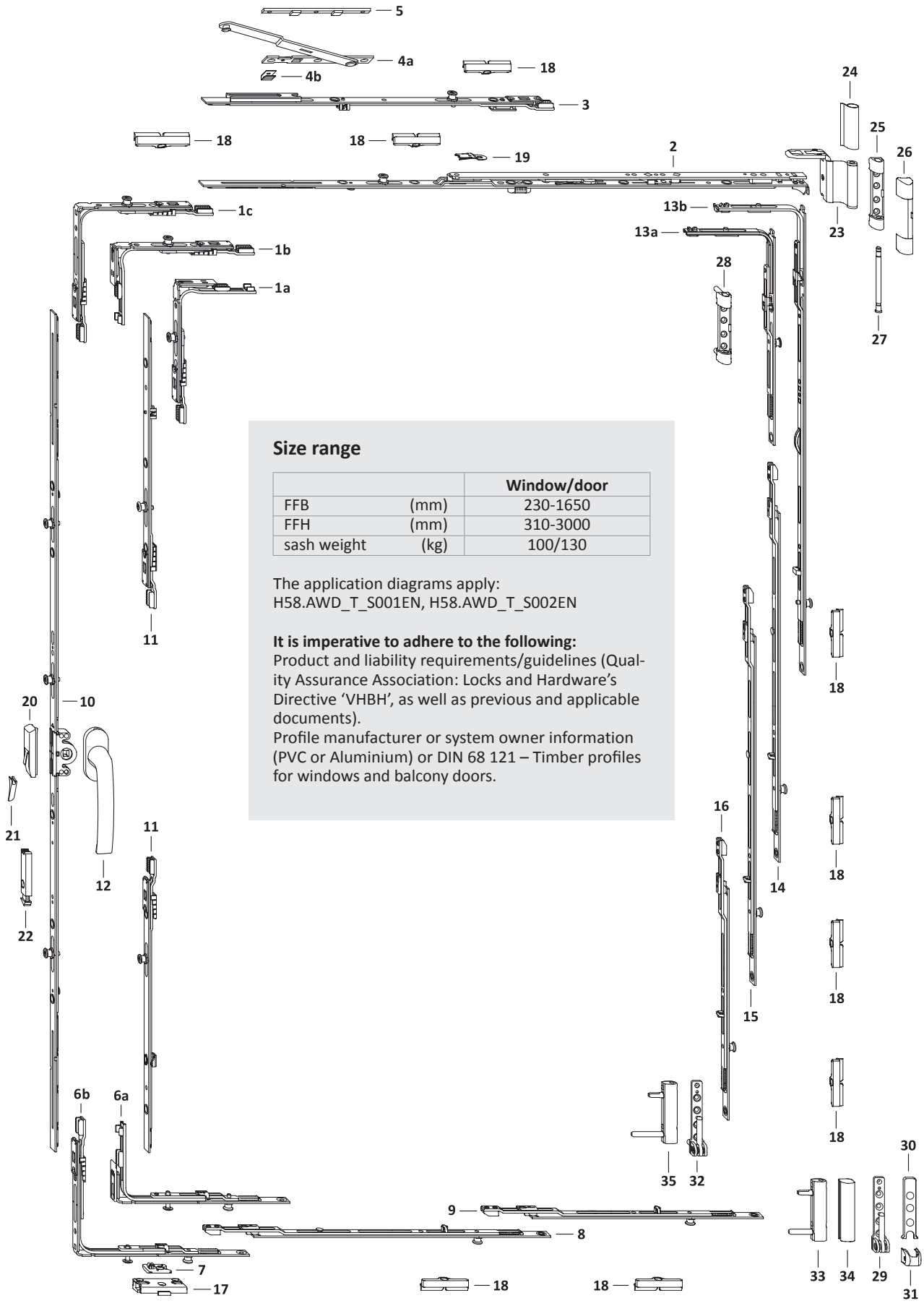


Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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Size range

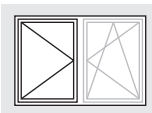
		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

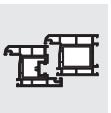
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

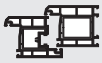
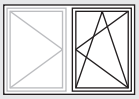
2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	50	51	52
36a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	371– 750	310– 460				1
36b	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	371–1650	461–3000				1
37	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	751–1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650					2
38	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	1251–1650					2
39	stay sash part DF/MN	TSSD0020- ...	1	230–1650					
40	stay arm DF	TSAD0010- ...	1	230–1650					
41a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	230–1650	461– 700			1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		331– 850	310– 460			1	
41b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	230–1650	701–3000			1	
42a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	230–1650	461– 700				
	run-up plate FH KRL56	Ref. PDB, TRAL01		331– 850	310– 460				
42b	run up block AF 13 mm 13	TFFH0080- ...	1	230–1650	701–3000				
43a	sec.sash gear 16 sz 30	TGKS0010- ...	1	371– 850	310– 460	155– 230			
	sec.sash gear 16 sz 30	TGKS0010- ...			461– 600	230– 300			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300– 350			
43b	sec.sash gear 16 AF sz 70 1SB	TGMS4030- ...	1		701– 800	350– 400			
	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...			801–1200	400– 600			
	sec.sash gear 16 AF 120 2SB 70	TGMS4120- ...			1201–1600	600– 800			
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000			
	sec.sash gear 16 AF 200 3SB 70	TGMS4100- ...			2001–3000	1000–1500			
44	locking bolt AF VSO RSA 11	TESC2030- ...	1	230– 370	461–3000		1		
45	striker plate A0767	TRSA0010- ...	1	230– 330	461–3000				
46	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
47	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800				
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000				
48	sash part MV	Ref. PDB, ZFMV01	1		601–1400				
	sash part MV	Ref. PDB, ZFMV01	2		1401–2100				
	sash part MV	Ref. PDB, ZFMV01	3		2101–2800				
	sash part MV	Ref. PDB, ZFMV01	4		2801–3000				
49	frame part MV	Ref. PDB, ZRZM01	1		601–1400				
	frame part MV	Ref. PDB, ZRZM01	2		1401–2100				
	frame part MV	Ref. PDB, ZRZM01	3		2101–2800				
	frame part MV	Ref. PDB, ZRZM01	4		2801–3000				
50	striker V	Ref. PDB, FRZV01							
51	striker plate S-RS	Ref. PDB, TRSK							
52	striker plate S 56	Ref. PDB, TRSM							
				on request					
53	striker snapper AF A0767	TRST0100- ...	1		1601–3000				

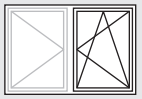
Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
54	stay hinge DH	Ref. PDB, TBWB61			1	1
55	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
56	top hinge 100kg	Ref. PDB, TBSL61			1	
57	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
58	top hinge pin Poly	TBSB6020-1 ...			1	1
59	top hinge 130kg	Ref. PDB, TBSL62				1
60	bottom hinge 100kg	Ref. PDB, TBEL01			1	
61	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
62	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
63	bottom hinge 130kg	Ref. PDB, TBEL02				1
64	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
65	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
66	corner hinge PVC130kg	Ref. PDB, TBEB63				1

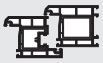



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							17	18
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230– 330	461–3000			
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	2	371– 850	310– 460			2
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331–1650	461–3000			1
2	stay AF sz 0	TSKK2000- ...	1	230– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
	stay AF sz 2 1RS	TSKK2120- ...	2	751– 850				2
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AFVSU/K56+nar.1S1RS	TEUL5100- ...	1	371– 850	310– 460		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	230–1650	461–3000		1	
7	run up block AF 13 mm 13	TFFH0080- ...	1	230–1650				
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
10	gear 15 AF sz 20	TGMK4010- ...	1	371– 850	310– 460	155– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350		
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500		
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
12	handle Globe	Ref.access. ZHGS	1		310–3000			
13a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
13b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
17	striker plate S-RS	Ref. PDB, TRSK						
18	striker plate S 56	Ref. PDB, TRSM						
on request								
19	tilt restrictor ..	TFKB0010- ...	1		310– 800			
20	mishandling device	TFBS0010- ...	1		601–3000			
21	pressure piece	Ref. PDB, TFFD	1		601–3000			
22	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

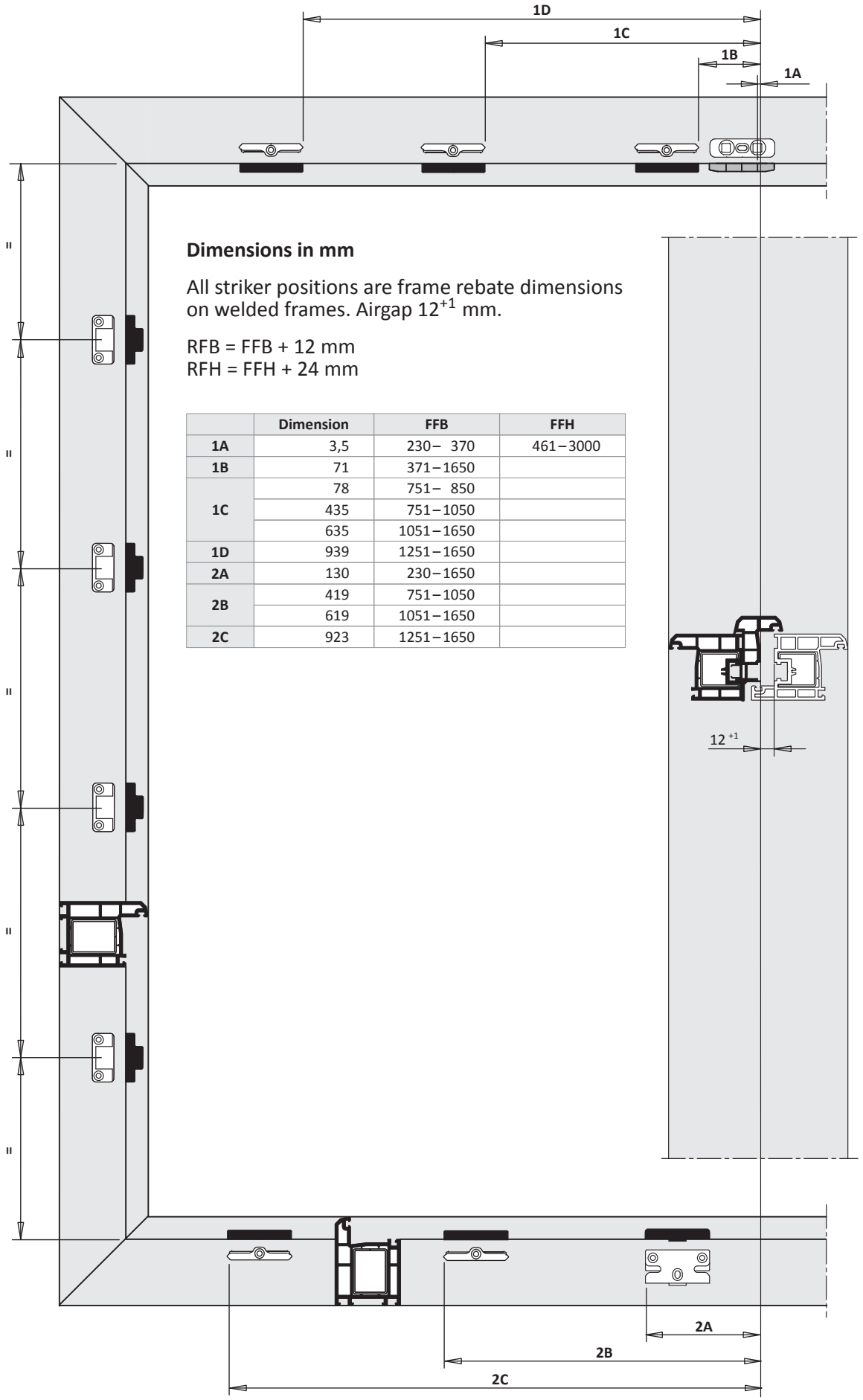
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
23	stay hinge DH	Ref. PDB, TBWB61			1	1
24	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
25	top hinge 100kg	Ref. PDB, TBSL61			1	
26	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
27	top hinge pin Poly	TBSB6020-1 ...			1	1
28	top hinge 130kg	Ref. PDB, TBSL62				1
29	bottom hinge 100kg	Ref. PDB, TBEL01			1	
30	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
31	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
32	bottom hinge 130kg	Ref. PDB, TBEL02				1
33	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
34	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
35	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

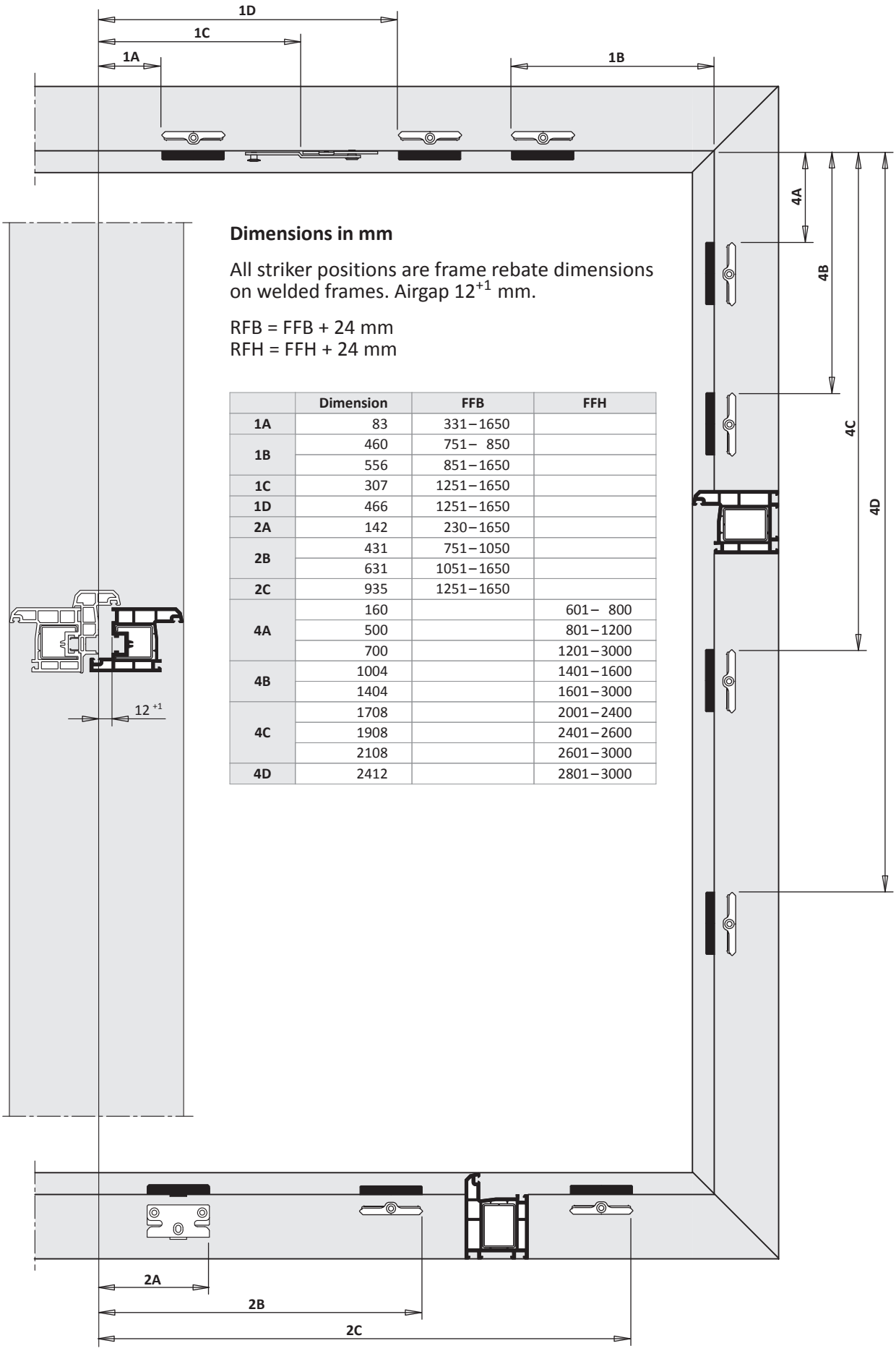
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	230– 370	461–3000
1B	71	371–1650	
1C	78	751– 850	
	435	751–1050	
	635	1051–1650	
1D	939	1251–1650	
2A	130	230–1650	
2B	419	751–1050	
	619	1051–1650	
2C	923	1251–1650	

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN



Dimensions in mm

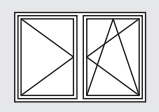
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	230–1650	
2B	431	751–1050	
	631	1051–1650	
2C	935	1251–1650	
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

centre handle pos. (variable)

Hinge side TITAN

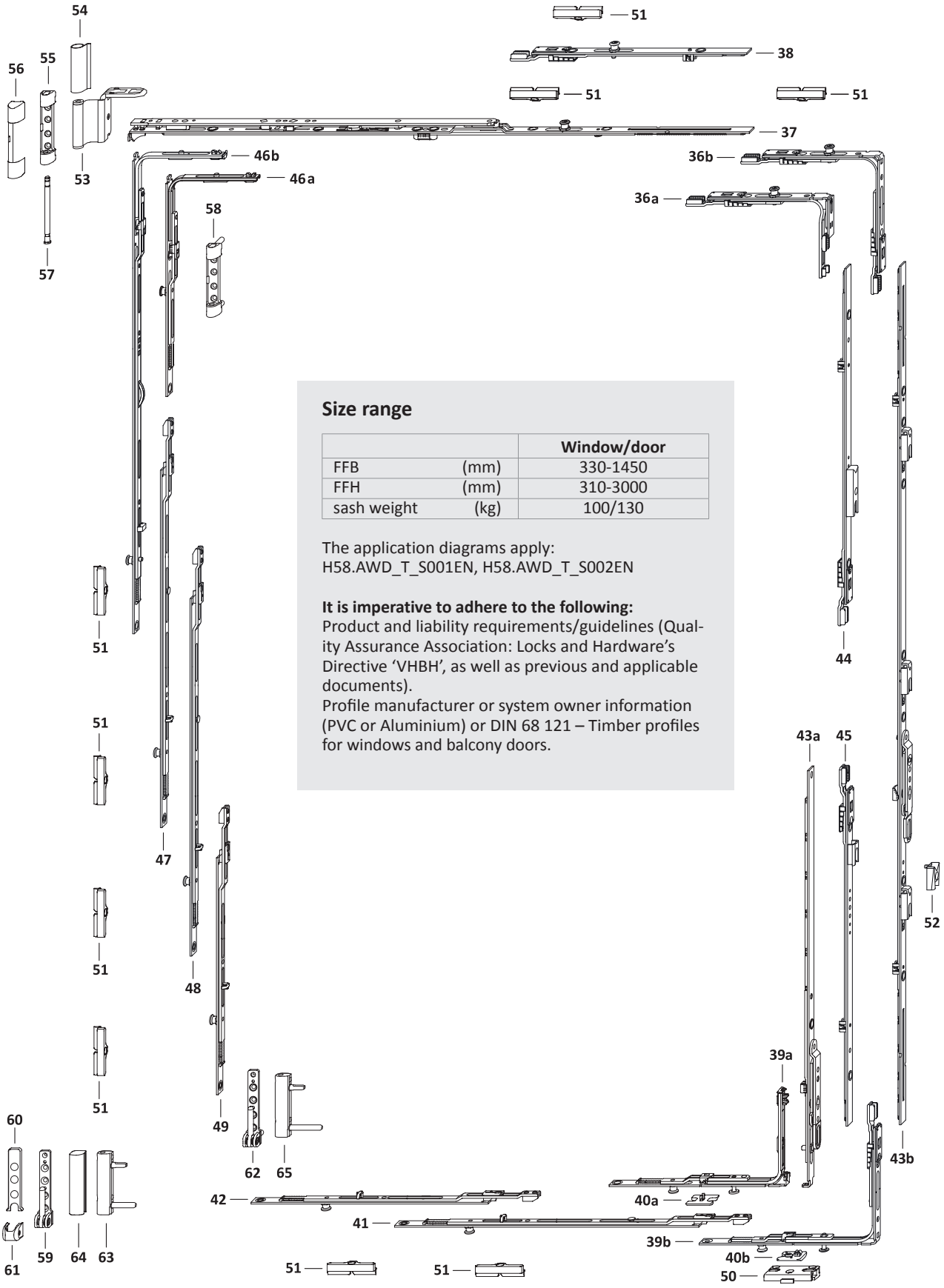
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700; secondary sash with DK-stay
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

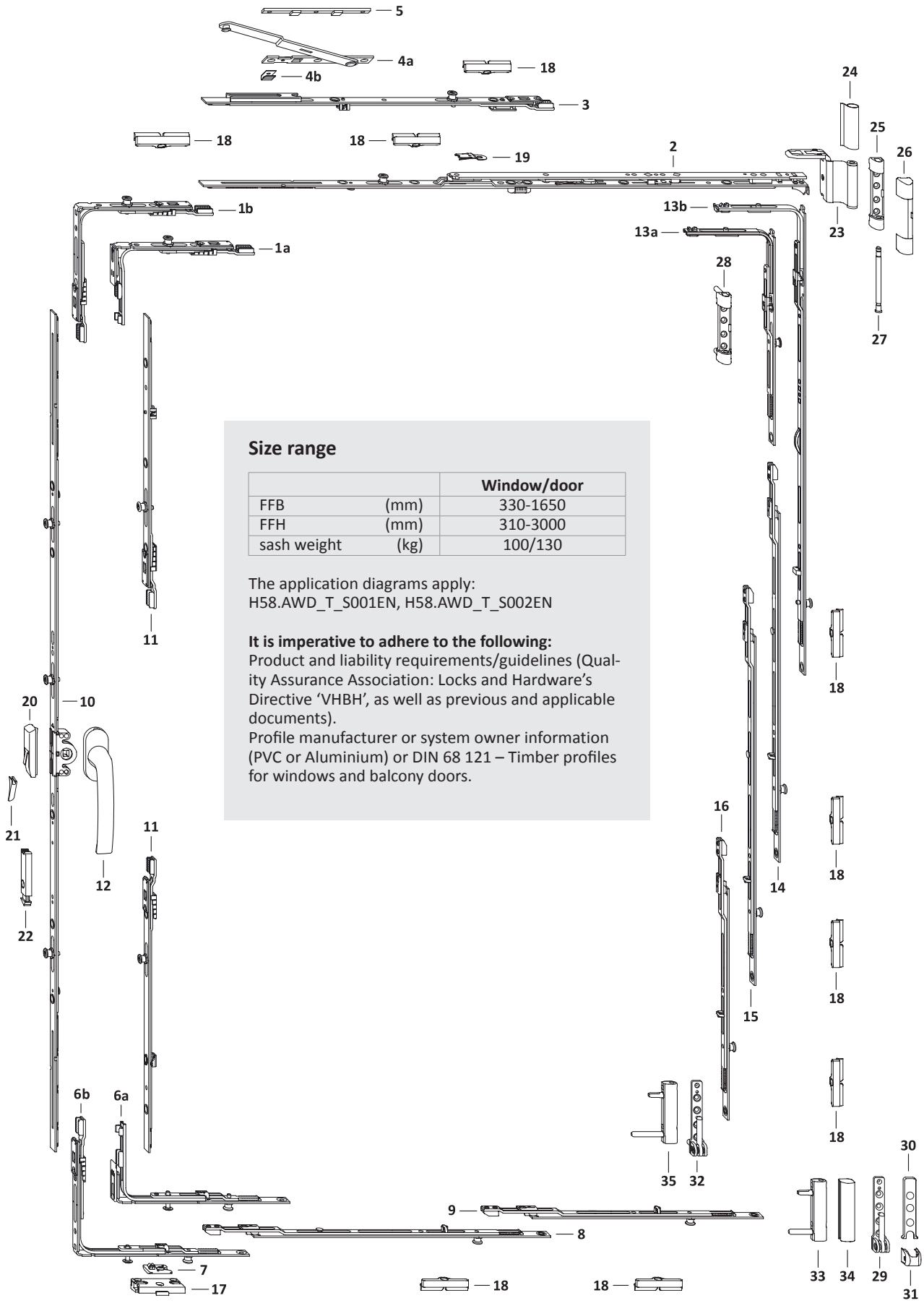


Size range

		Window/door
FFB	(mm)	330-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

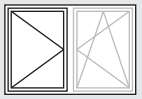
		Window/door
FFB	(mm)	330-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

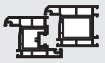
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	50	51
36a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	330– 850	310– 460			1
36b	corn.drive VSO 1RS	TEUL4010- ...	1	330–1450	461–3000			1
37	stay AF sz 0	TSKK2000- ...	1	330– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1
38	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
39a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	330–1450	461– 800		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		330– 850	310– 460		1	
39b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	330–1450	801–3000		1	
40a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	330–1450	461– 800			
	run-up plate FH KRL56	Ref. PDB, TRAL01		330– 850	310– 460			
40b	run up block AF 13 mm 13	TFFH0080- ...	1	330–1450	801–3000			
41	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1450				1
43a	sec.sash gear 16 sz 30	TGKS0010- ...	1	330– 850	310– 460	155– 230		
	sec.sash gear 16 sz 30	TGKS0010- ...			461– 600	230– 300		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300– 350		
43b	sec.sash gear 16 AF sz 70 1SB	TGMS4030- ...	1		701– 800	350– 400		
	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...			801–1200	400– 600		
	sec.sash gear 16 AF 120 2SB 70	TGMS4120- ...			1201–1600	600– 800		
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000		
	sec.sash gear 16 AF 200 3SB 70	TGMS4100- ...			2001–3000	1000–1500		
44	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
45	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800			
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000			
46a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
46b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
47	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
48	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
49	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
50	striker plate S-RS	Ref. PDB, TRSK						
51	striker plate S 56	Ref. PDB, TRSM						
on request								
52	striker snapper AF A0767	TRST0100- ...	1		1601–3000			

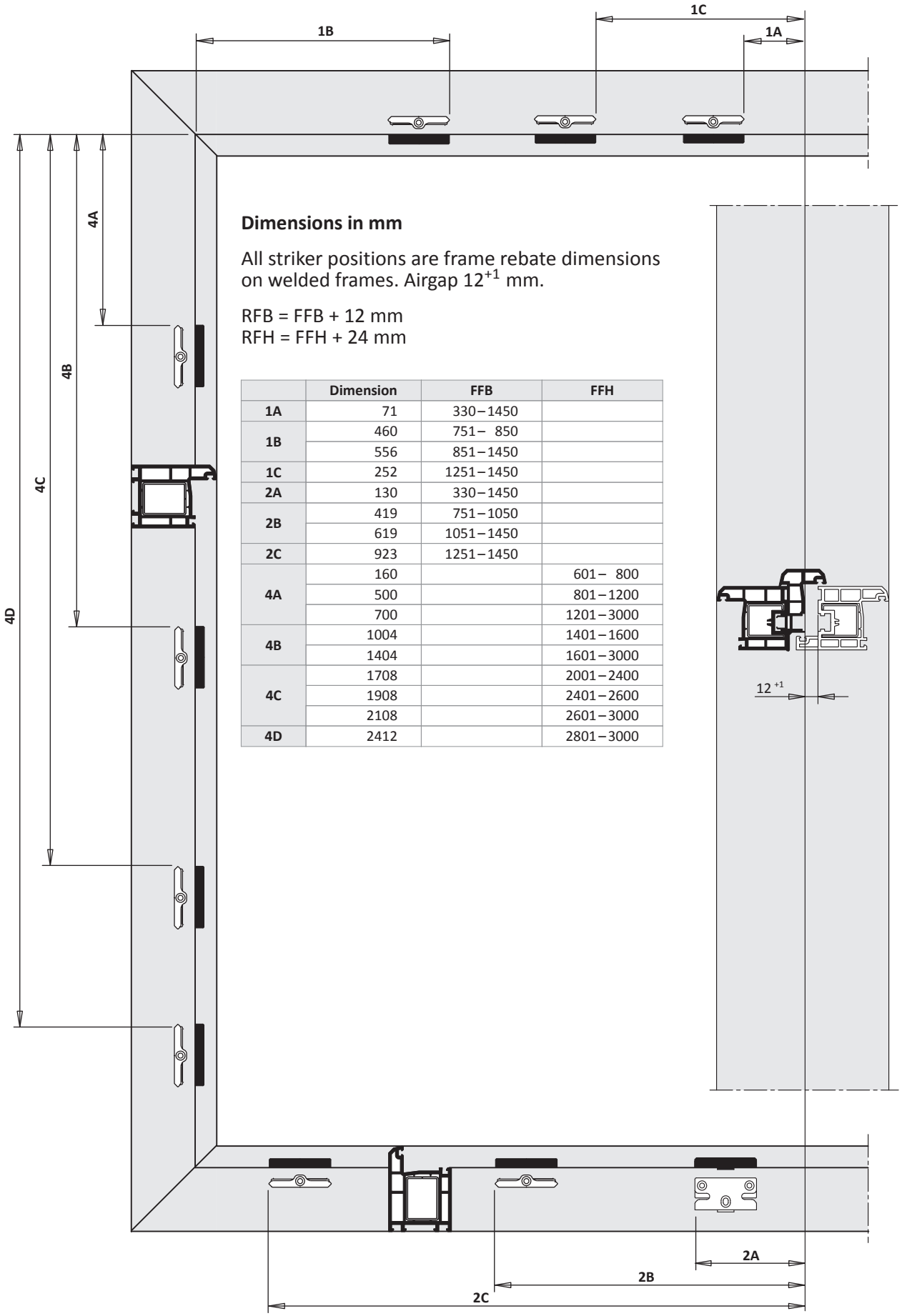
Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
53	stay hinge DH	Ref. PDB, TBWB61			1	1
54	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
55	top hinge 100kg	Ref. PDB, TBSL61			1	
56	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
57	top hinge pin Poly	TBSB6020-1 ...			1	1
58	top hinge 130kg	Ref. PDB, TBSL62				1
59	bottom hinge 100kg	Ref. PDB, TBEL01			1	
60	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
61	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
62	bottom hinge 130kg	Ref. PDB, TBEL02				1
63	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
64	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
65	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							17	18
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	330– 850	310– 460			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	330–1650	461–3000			1
2	stay AF sz 0	TSKK2000- ...	1	330– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
	stay AF sz 2 1RS	TSKK2120- ...	2	751– 850				2
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AFVSU/K56+nar.1S1RS	TEUL5100- ...	1	330– 850	310– 460		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	330–1650	461–3000		1	
7	run up block AF 13 mm 13	TFFH0080- ...	1	330–1650				
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
10	gear 15 AF sz 20	TGMK4010- ...	1	330– 850	310– 460	155– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350		
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500		
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
12	handle Globe	Ref.access. ZHGS	1		310–3000			
13a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
13b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
17	striker plate S-RS	Ref. PDB, TRSK						
18	striker plate S 56	Ref. PDB, TRSM						
			on request					
19	tilt restrictor ..	TFKB0010- ...	1		310– 800			
20	mishandling device	TFBS0010- ...	1					
21	pressure piece	Ref. PDB, TFFD	1					
22	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
23	stay hinge DH	Ref. PDB, TBWB61			1	1
24	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
25	top hinge 100kg	Ref. PDB, TBSL61			1	
26	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
27	top hinge pin Poly	TBSB6020-1 ...			1	1
28	top hinge 130kg	Ref. PDB, TBSL62				1
29	bottom hinge 100kg	Ref. PDB, TBEL01			1	
30	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
31	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
32	bottom hinge 130kg	Ref. PDB, TBEL02				1
33	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
34	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
35	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

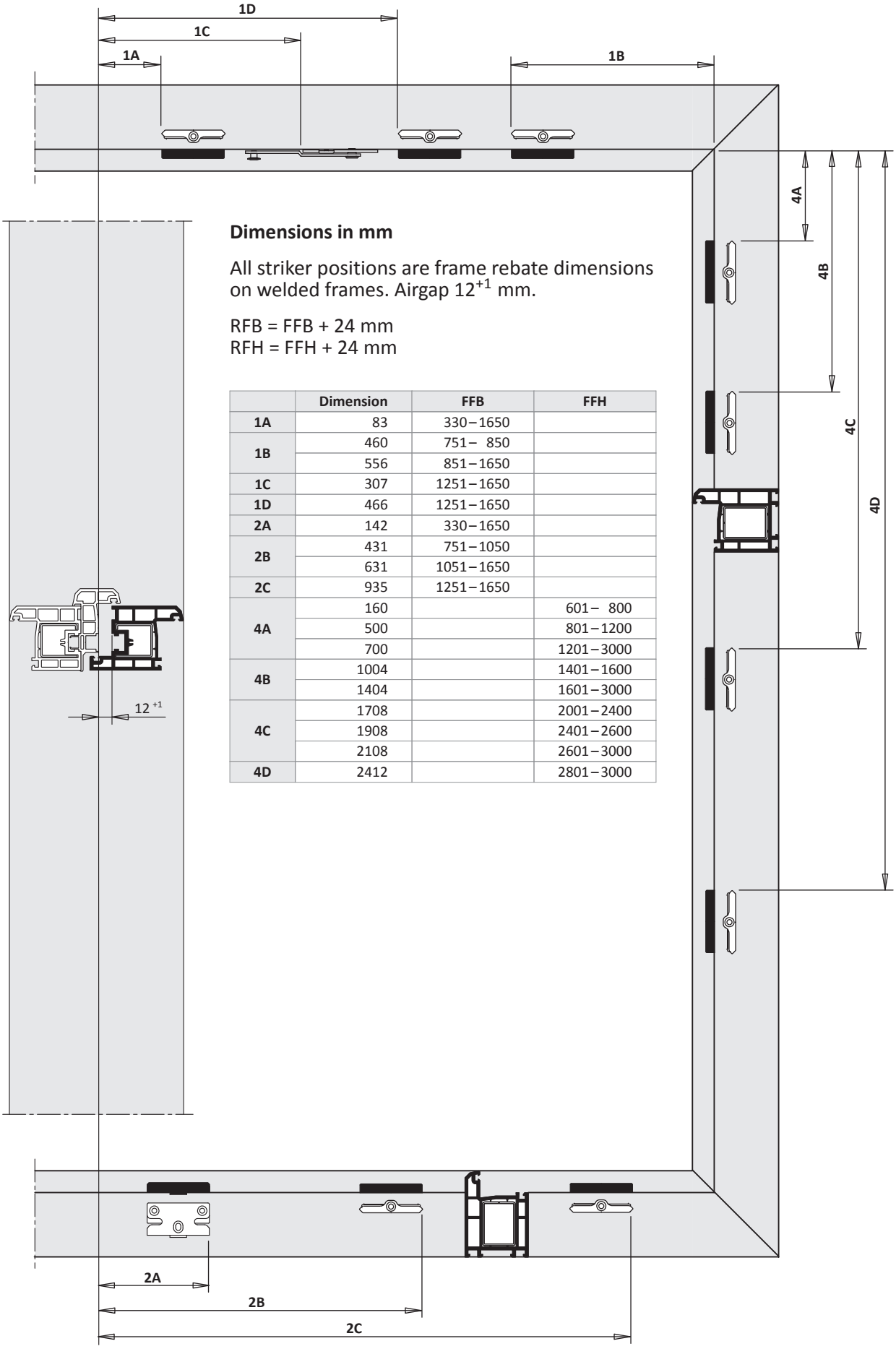


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	330–1450	
1B	460	751– 850	
	556	851–1450	
1C	252	1251–1450	
2A	130	330–1450	
2B	419	751–1050	
	619	1051–1450	
2C	923	1251–1450	
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	330–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	330–1650	
2B	431	751–1050	
	631	1051–1650	
2C	935	1251–1650	
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

Bottom: Inliner

1-sash square tilt-turn	H48.TAFKFK1S001EN	4 - 3
2-sash square tilt-turn/turn DS 16	H48.TAFKFK1S002EN	4 - 9
2-sash square tilt-turn/turn DS BAN	H48.TAFKFK1S016EN	4 - 19
Tilt before turn (TBT)		
1-sash square tilt before turn (TBT)	H48.TAFKFK1S005EN	4 - 29
Locking-points distance 700		
1-sash square tilt-turn	H48.TAFKFK1S301EN	4 - 35
2-sash square tilt-turn/turn DS 16	H48.TAFKFK1S302EN	4 - 41

Bottom: Double cam SB R-RS

1-sash square tilt-turn	H48.TAFKFK1S401EN	4 - 51
2-sash square tilt-turn/turn DS 16	H48.TAFKFK1S402EN	4 - 57
Locking-points distance 700		
1-sash square tilt-turn	H48.TAFKFK1S305EN	4 - 67
2-sash square tilt-turn/turn DS 16	H48.TAFKFK1S306EN	4 - 73

TITAN AF

Installation instructions




RC1

1-sash square tilt-turn

PVC

RC1

fixed handle position

Hinge side TITAN

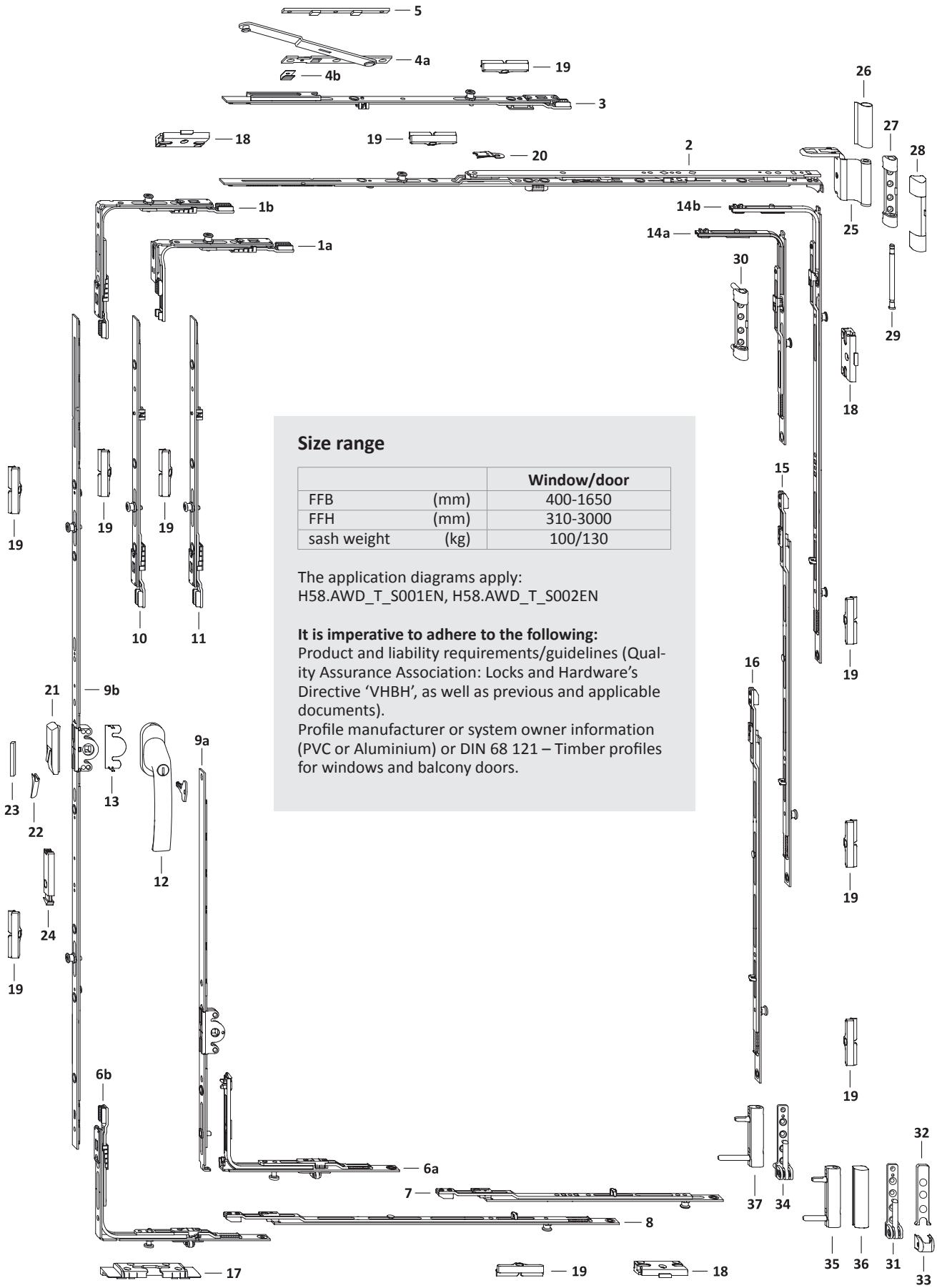
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GK Hinge side TITAN

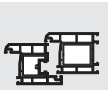


Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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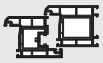



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							17	18	19
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	411–3000			1	
2	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 850					
	stay AF sz 3 1RS	TSKK2030- ...		851–1050					1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250					1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450					1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650					1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650					1
4	additional stay	Ref. PDB, TSZS	1	1251–1650					
5	packer Z	Ref. PDB, FRUP01	1	1251–1650					
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	411– 600		1		
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 410		1		
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	601–3000		1		
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1	
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					1
9a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180			
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180			
9b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300			
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400			1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500			1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600			1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700			1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700			2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000			2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000			2
10	linkage AF sz 1	TZZS0150- ...	1		2201–2400				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600				1
	linkage AF sz 1	TZZS0150- ...			2601–2800				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				1
11	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800				1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				1
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000				
13	anti-drill guard E	TGBS0010- ...	1		310–3000				
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1	
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
17	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
18	striker plate S-RS	Ref. PDB, TRSK							
19	striker plate S 56	Ref. PDB, TRSM							
on request									
20	tilt restrictor ..	TFKB0010- ...	1		310– 800				
21	mishandling device	TFBS0010- ...	1						
22	pressure piece	Ref. PDB, TFFD	1						
23	stop	Ref. PDB, FRZF01	1						
24	snapper rh.	TFST0021- ...	1		1801–3000				
	snapper lh.	TFST0022- ...			1801–3000				

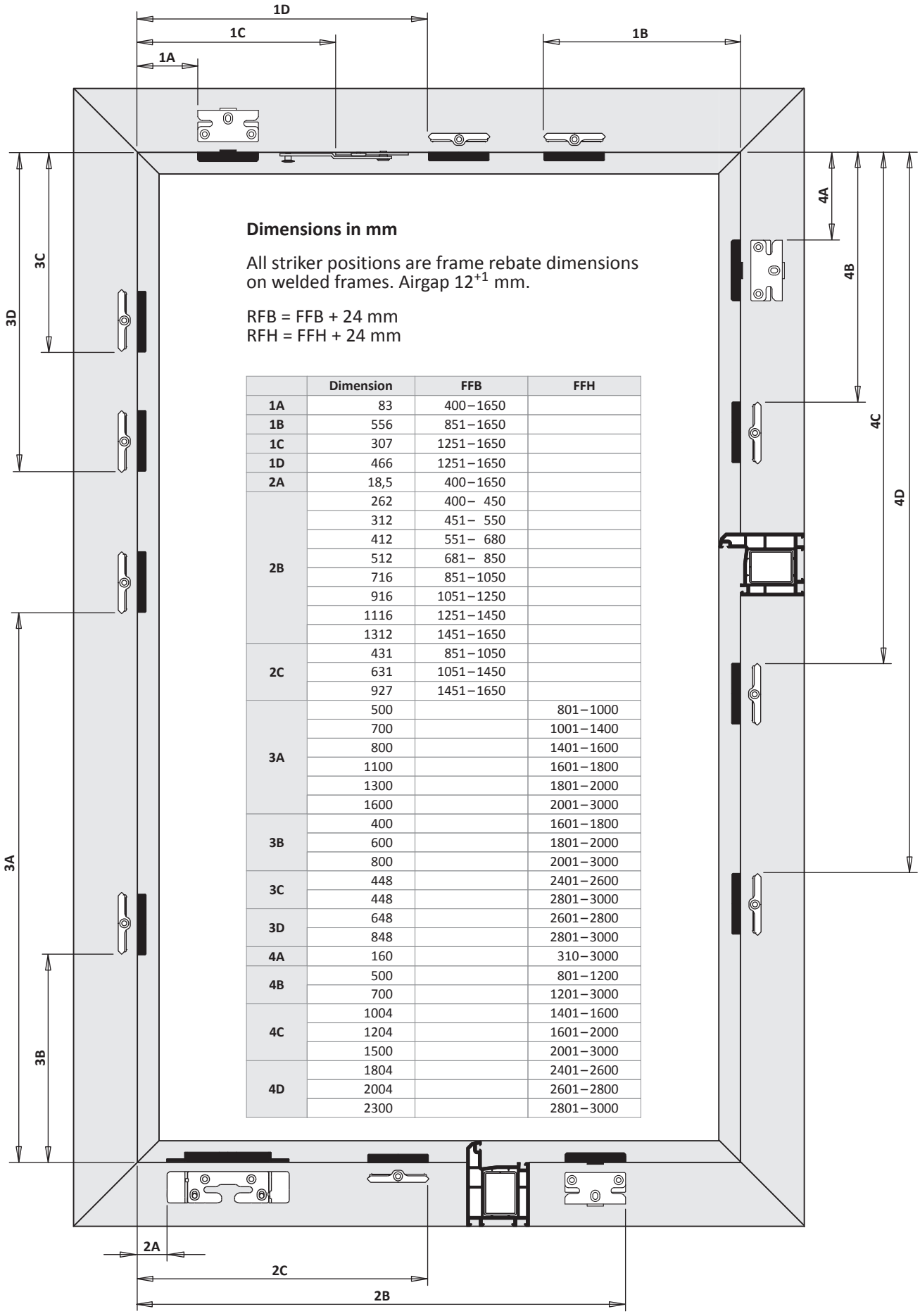
List of fittings

1-sash square tilt-turn
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
25	stay hinge DH	Ref. PDB, TBWB61			1	1
26	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
27	top hinge 100kg	Ref. PDB, TBSL61			1	
28	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
29	top hinge pin Poly	TBSB6020-1 ...			1	1
30	top hinge 130kg	Ref. PDB, TBSL62				1
31	bottom hinge 100kg	Ref. PDB, TBEL01			1	
32	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
33	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
34	bottom hinge 130kg	Ref. PDB, TBEL02				1
35	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
36	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
37	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

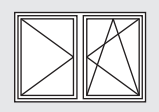
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3B	400		1601–1800
	600		1801–2000
	800		2001–3000
3C	448		2401–2600
	448		2801–3000
3D	648		2601–2800
	848		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





RC1

2-sash square tilt-turn/turn DS 16

PVC

RC1

fixed handle position

Hinge side TITAN

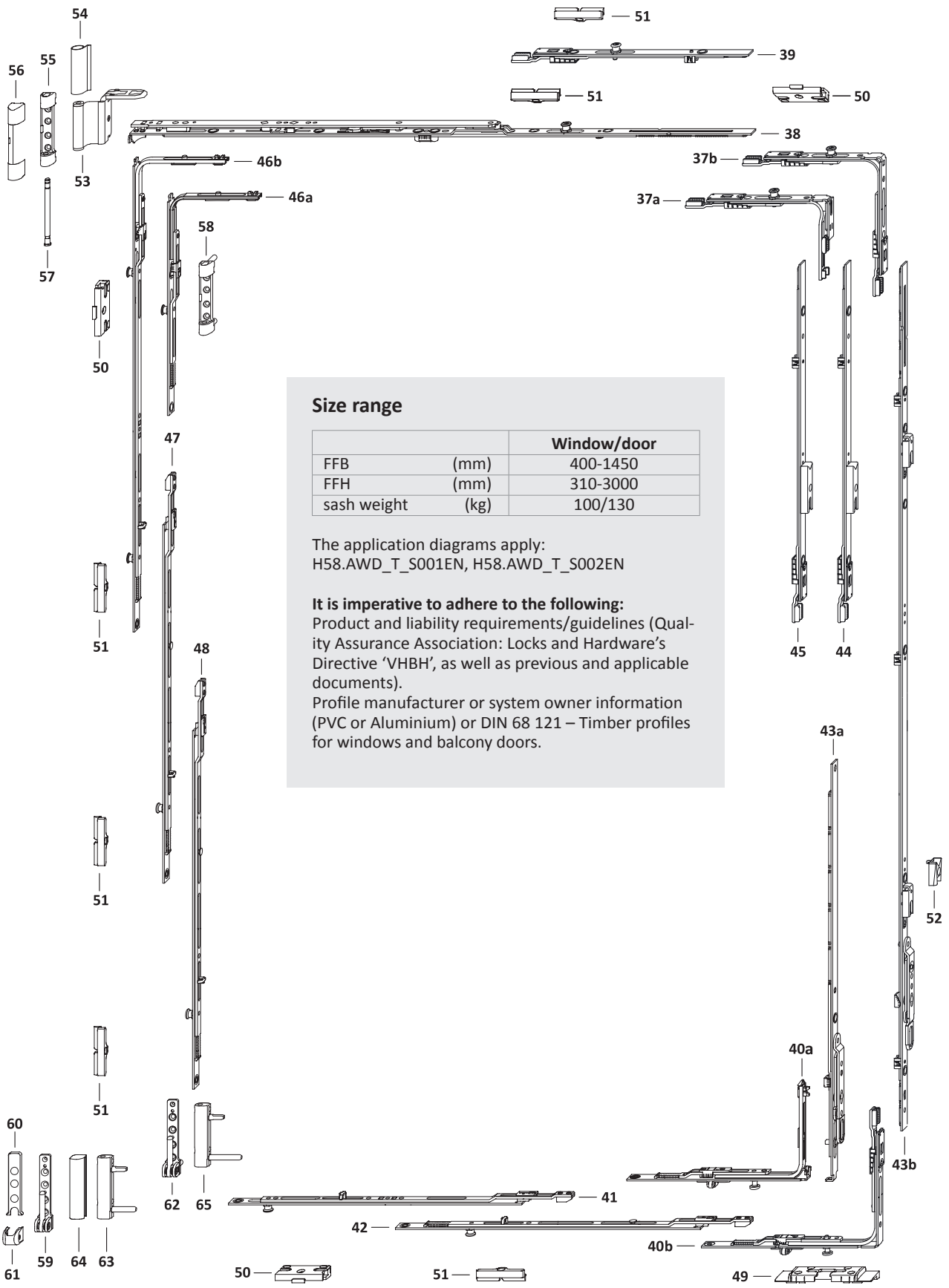
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

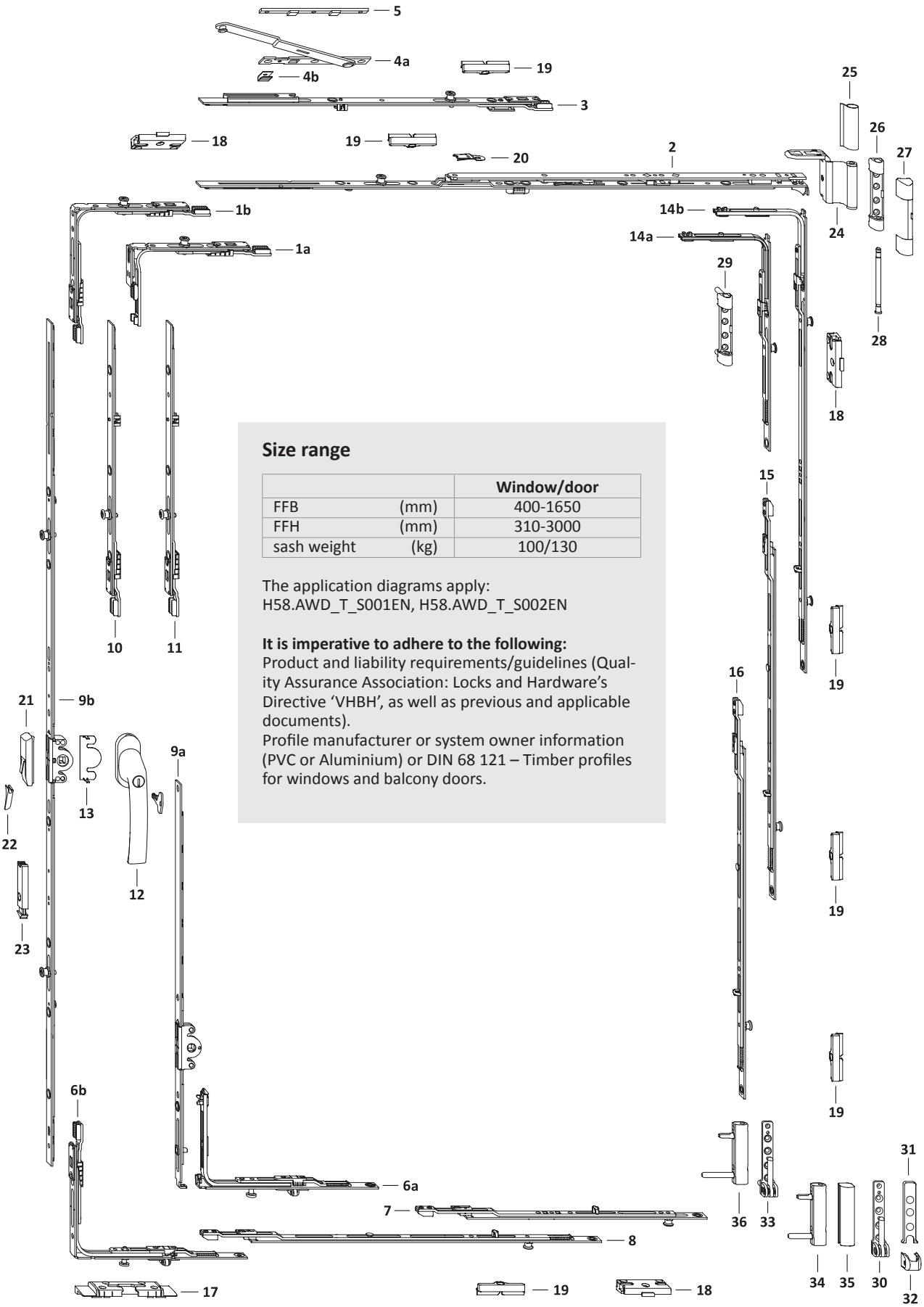


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

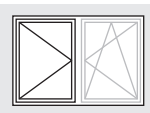
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

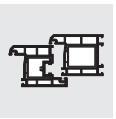
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



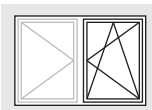


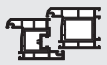
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	49	50	51
37a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1	
37b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1450	411–3000			1	
38	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 850					
	stay AF sz 3 1RS	TSKK2030- ...		851–1050					1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450					1
39	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450					1
40a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1450	411– 800		1		
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 410		1		
40b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1450	801–3000		1		
41	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1	
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
43a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400– 850	310– 410	180			
	sec.sash gear 16 sz 30	TGKS0010- ...		400–1250	411– 600	180			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300			
43b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400			
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500			
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600			
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700			
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700			
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000			
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000			
44	linkage AF sz 1	TZZS0150- ...	1		2201–2400				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600				
	linkage AF sz 1	TZZS0150- ...			2601–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
45	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
46a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1	
46b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
47	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
48	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
49	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
50	striker plate S-RS	Ref. PDB, TRSK							
51	striker plate S 56	Ref. PDB, TRSM							
on request									
52	striker snapper AF A0767	TRST0100- ...	1		1801–3000				

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
53	stay hinge DH	Ref. PDB, TBWB61			1	1
54	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
55	top hinge 100kg	Ref. PDB, TBSL61			1	
56	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
57	top hinge pin Poly	TBSB6020-1 ...			1	1
58	top hinge 130kg	Ref. PDB, TBSL62				1
59	bottom hinge 100kg	Ref. PDB, TBEL01			1	
60	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
61	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
62	bottom hinge 130kg	Ref. PDB, TBEL02				1
63	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
64	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
65	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



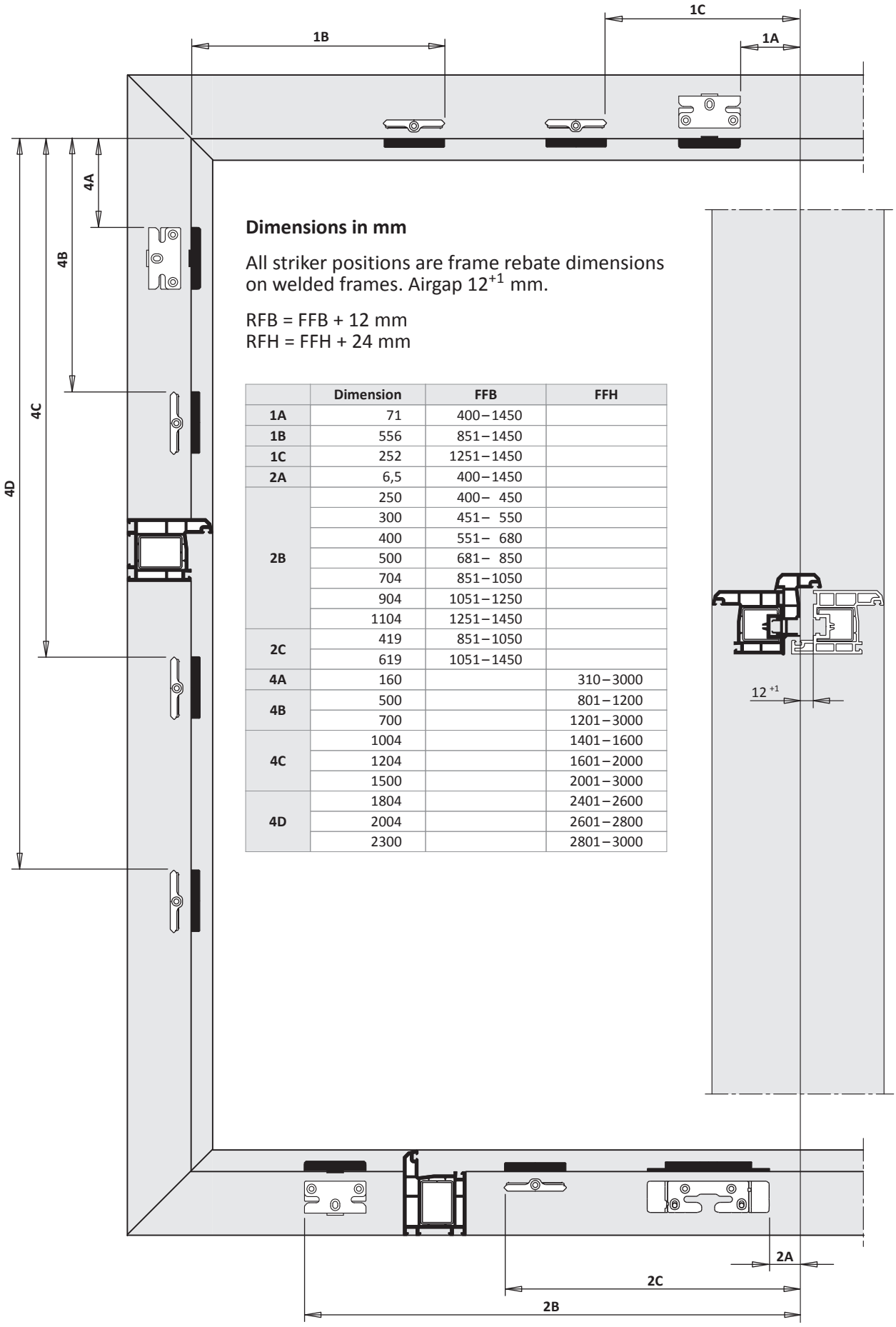


Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							17	18	19
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	411–3000			1	
2	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 850					
	stay AF sz 3 1RS	TSKK2030- ...		851–1050					1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250					1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450					1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650					1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650					1
4	additional stay	Ref. PDB, TSZS	1	1251–1650					
5	packer Z	Ref. PDB, FRUP01	1	1251–1650					
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	411– 600		1		
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 410		1		
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	601–3000		1		
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1	
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					1
9a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180			
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180			
9b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300			
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400			
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500			
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600			
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700			
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700			
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000			
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000			
10	linkage AF sz 1	TZZS0150- ...	1		2201–2400				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600				
	linkage AF sz 1	TZZS0150- ...			2601–2800				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				
11	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000				
13	anti-drill guard E	TGBS0010- ...	1		310–3000				
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1	
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
17	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
18	striker plate S-RS	Ref. PDB, TRSK							
19	striker plate S 56	Ref. PDB, TRSM							
on request									
20	tilt restrictor ..	TFKB0010- ...	1		310– 800				
21	mishandling device	TFBS0010- ...	1		601–3000				
22	pressure piece	Ref. PDB, TFFD	1		601–3000				
23	snapper rh.	TFST0021- ...	1		1801–3000				
	snapper lh.	TFST0022- ...			1801–3000				

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
24	stay hinge DH	Ref. PDB, TBWB61			1	1
25	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
26	top hinge 100kg	Ref. PDB, TBSL61			1	
27	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
28	top hinge pin Poly	TBSB6020-1 ...			1	1
29	top hinge 130kg	Ref. PDB, TBSL62				1
30	bottom hinge 100kg	Ref. PDB, TBEL01			1	
31	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
32	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
33	bottom hinge 130kg	Ref. PDB, TBEL02				1
34	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
35	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
36	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

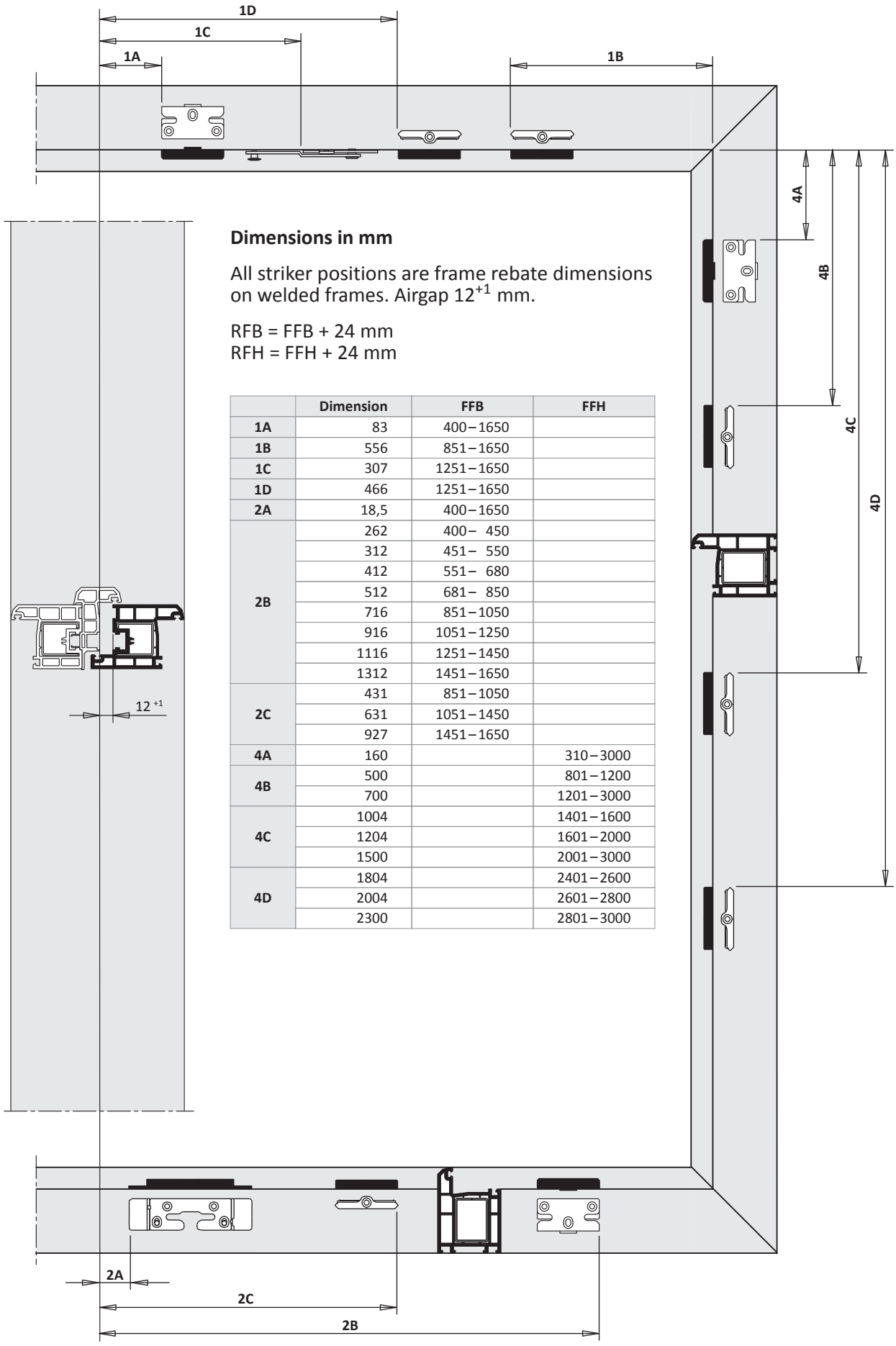


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	6,5	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1104	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

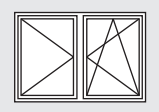
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





RC1

2-sash square tilt-turn/turn DS 16 fitting groove

PVC

RC1

fixed handle position

Hinge side TITAN

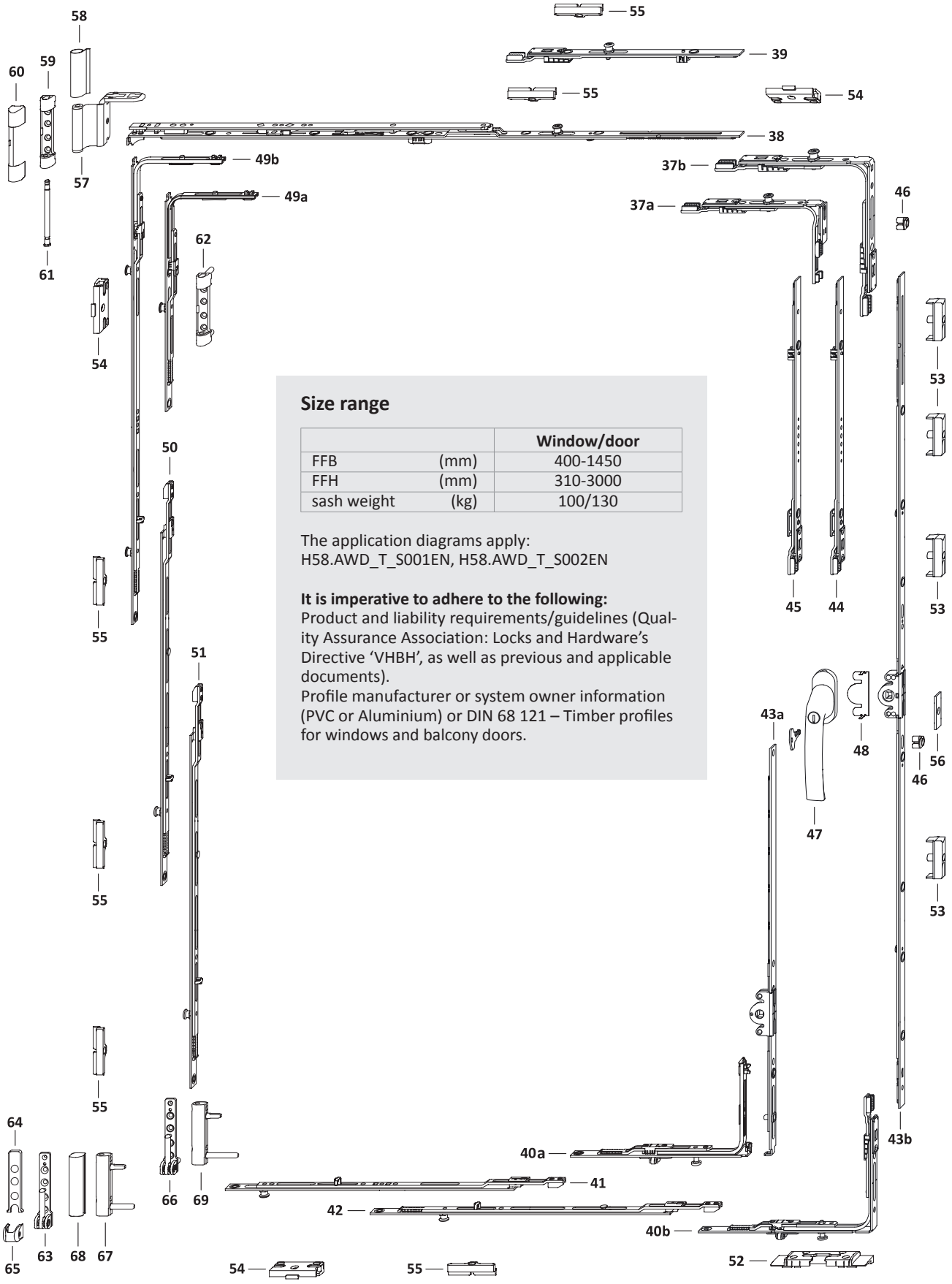
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GK Hinge side TITAN

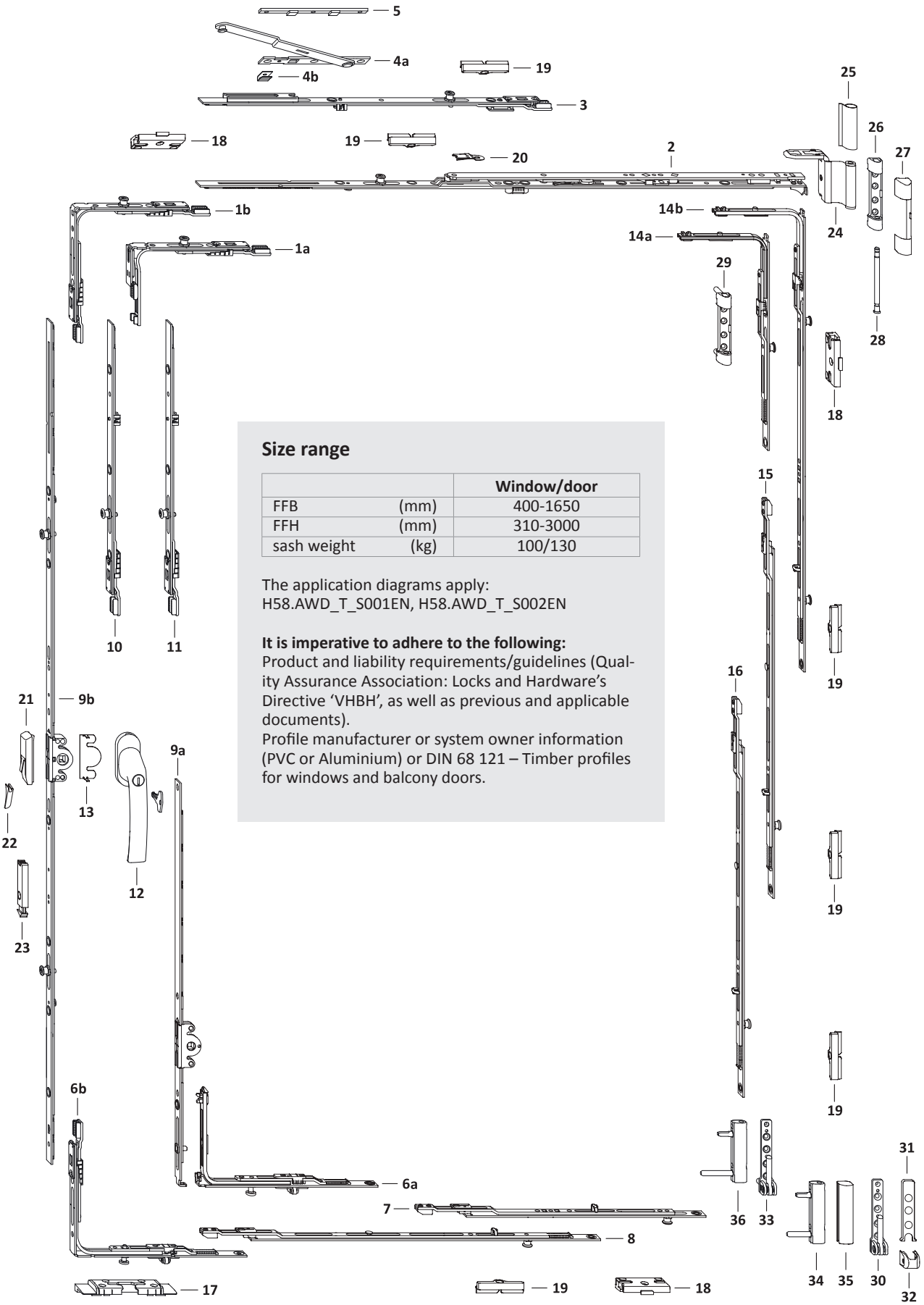


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

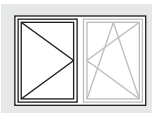
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

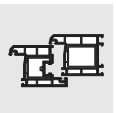
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
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List of fittings slave sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GK Hinge side TITAN



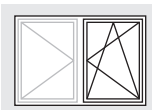


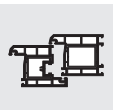
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.			
						In the main sash	52	53	54	55
37a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410				1	
37b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1450	411–3000				1	
38	stay AF sz 0	TSKK2000- ...	1	400– 450						
	stay AF sz 1	TSKK2010- ...		451– 680						
	stay AF sz 2	TSKK2020- ...		681– 850						
	stay AF sz 3 1RS	TSKK2030- ...		851–1050						1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450						1
39	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450						1
40a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	411– 600		1			
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 410		1			
40b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1450	601–3000		1			
41	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450					1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550					1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680					1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850					1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250					1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450					1	
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050						1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450						1
43a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180				
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180				
43b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300				
	gear 15 AF OZ sz 80/G400	TGKK9100- ...			801–1000	400		1		
	gear 15 AF OZ sz 100/G500	TGKK9110- ...			1001–1200	500		1		
	gear 15 AF OZ sz 120/G600	TGKK9120- ...			1201–1400	600		1		
	gear 15 AF OZ sz 140/G700	TGKK9130- ...			1401–1600	700		1		
	gear 15 AF OZ sz 160/G700	TGKK9170- ...			1601–1800	700		1		
	gear 15 AF OZ sz 180/G1000	TGKK9180- ...			1801–2000	1000		1		
	gear 15 AF OZ sz 200/G1000	TGKK9160- ...			2001–3000	1000		1		
44	linkage AF sz 1	TZZS0150- ...	1		2201–2400					
	linkage AF sz 2 A0767	TZKS1050- ...			2401–2600			1		
	linkage AF sz 1	TZZS0150- ...			2601–2800					
	linkage AF sz 2 A0767	TZKS1050- ...			2801–3000			1		
45	linkage AF sz 2 A0767	TZKS1050- ...	1		2601–2800			1		
	linkage AF sz 2 A0767	TZKS1050- ...			2801–3000			1		
46	travel restrictor	TFHB0010- ...	1		310–3000					
47	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000					
48	anti-drill guard E	TGBS0010- ...	1		310–3000					
49a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800				1	
49b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200				1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000				1	1
50	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000					1
51	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000					1
52	tilt lock bear. S-ES FH	Ref. PDB, FRKA								
53	striker plate 56 A2000	TRSB0030- ...								
54	striker plate S-RS	Ref. PDB, TRSK								
55	striker plate S 56	Ref. PDB, TRSM								
on request										
56	stop 2,2mm	710937	1		601–3000					

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
57	stay hinge DH	Ref. PDB, TBWB61			1	1
58	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
59	top hinge 100kg	Ref. PDB, TBSL61			1	
60	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
61	top hinge pin Poly	TBSB6020-1 ...			1	1
62	top hinge 130kg	Ref. PDB, TBSL62				1
63	bottom hinge 100kg	Ref. PDB, TBEL01			1	
64	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
65	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
66	bottom hinge 130kg	Ref. PDB, TBEL02				1
67	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
68	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
69	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GK Hinge side TITAN



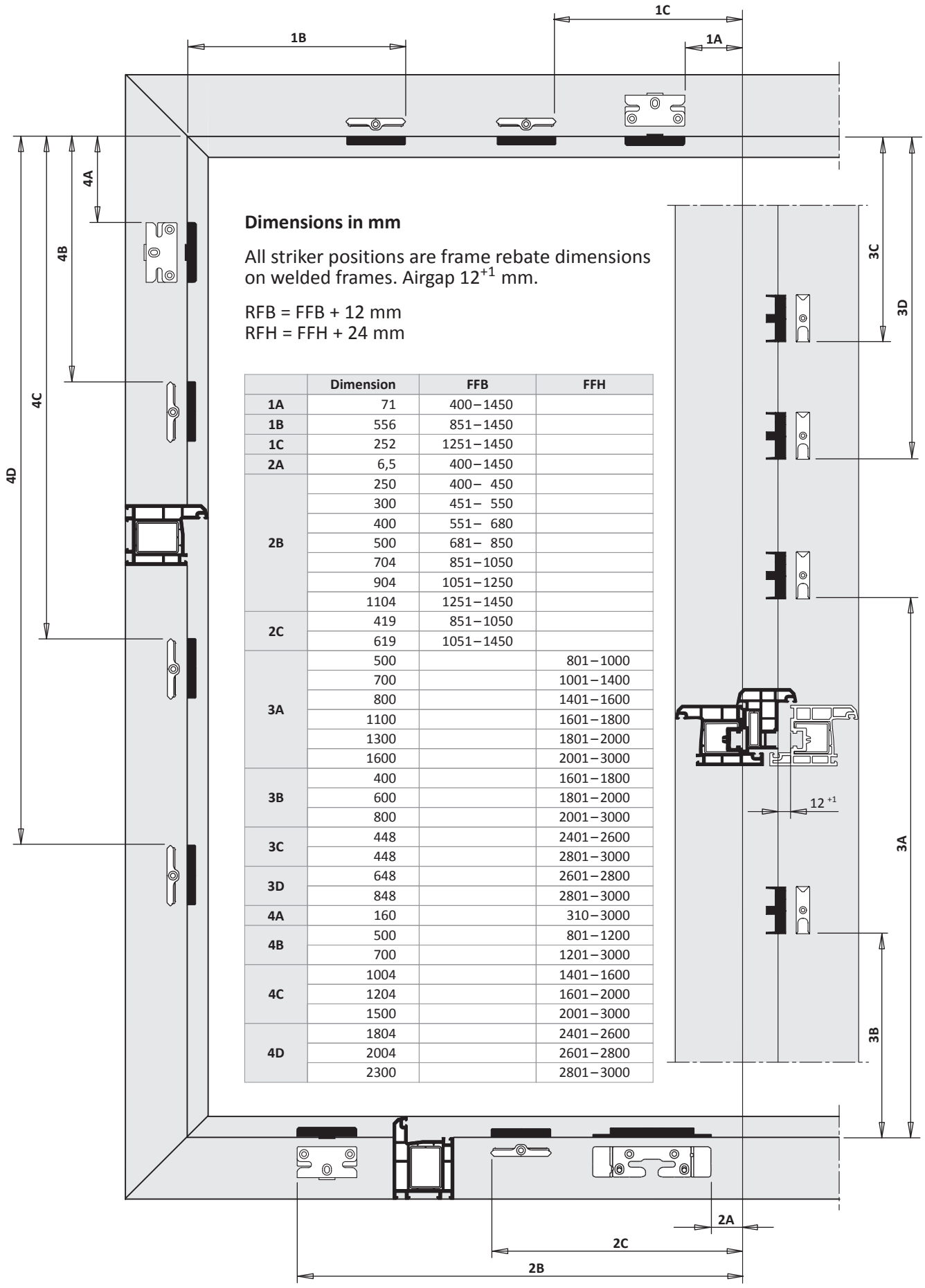


Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							17	18	19
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	411–3000			1	
2	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 850					
	stay AF sz 3 1RS	TSKK2030- ...		851–1050					1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250					1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450					1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650					1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650					1
4	additional stay	Ref. PDB, TSZS	1	1251–1650					
5	packer Z	Ref. PDB, FRUP01	1	1251–1650					
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	411– 600		1		
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 410		1		
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	601–3000		1		
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1	
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					1
9a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180			
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180			
9b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300			
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400			
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500			
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600			
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700			
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700			
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000			
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000			
10	linkage AF sz 1	TZZS0150- ...	1		2201–2400				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600				
	linkage AF sz 1	TZZS0150- ...			2601–2800				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				
11	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000				
13	anti-drill guard E	TGBS0010- ...	1		310–3000				
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1	
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
17	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
18	striker plate S-RS	Ref. PDB, TRSK							
19	striker plate S 56	Ref. PDB, TRSM							
on request									
20	tilt restrictor ..	TFKB0010- ...	1		310– 800				
21	mishandling device	TFBS0010- ...	1		601–3000				
22	pressure piece	Ref. PDB, TFFD	1		601–3000				
23	snapper rh.	TFST0021- ...	1		1801–3000				
	snapper lh.	TFST0022- ...			1801–3000				

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
24	stay hinge DH	Ref. PDB, TBWB61			1	1
25	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
26	top hinge 100kg	Ref. PDB, TBSL61			1	
27	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
28	top hinge pin Poly	TBSB6020-1 ...			1	1
29	top hinge 130kg	Ref. PDB, TBSL62				1
30	bottom hinge 100kg	Ref. PDB, TBEL01			1	
31	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
32	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
33	bottom hinge 130kg	Ref. PDB, TBEL02				1
34	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
35	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
36	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GK Hinge side TITAN

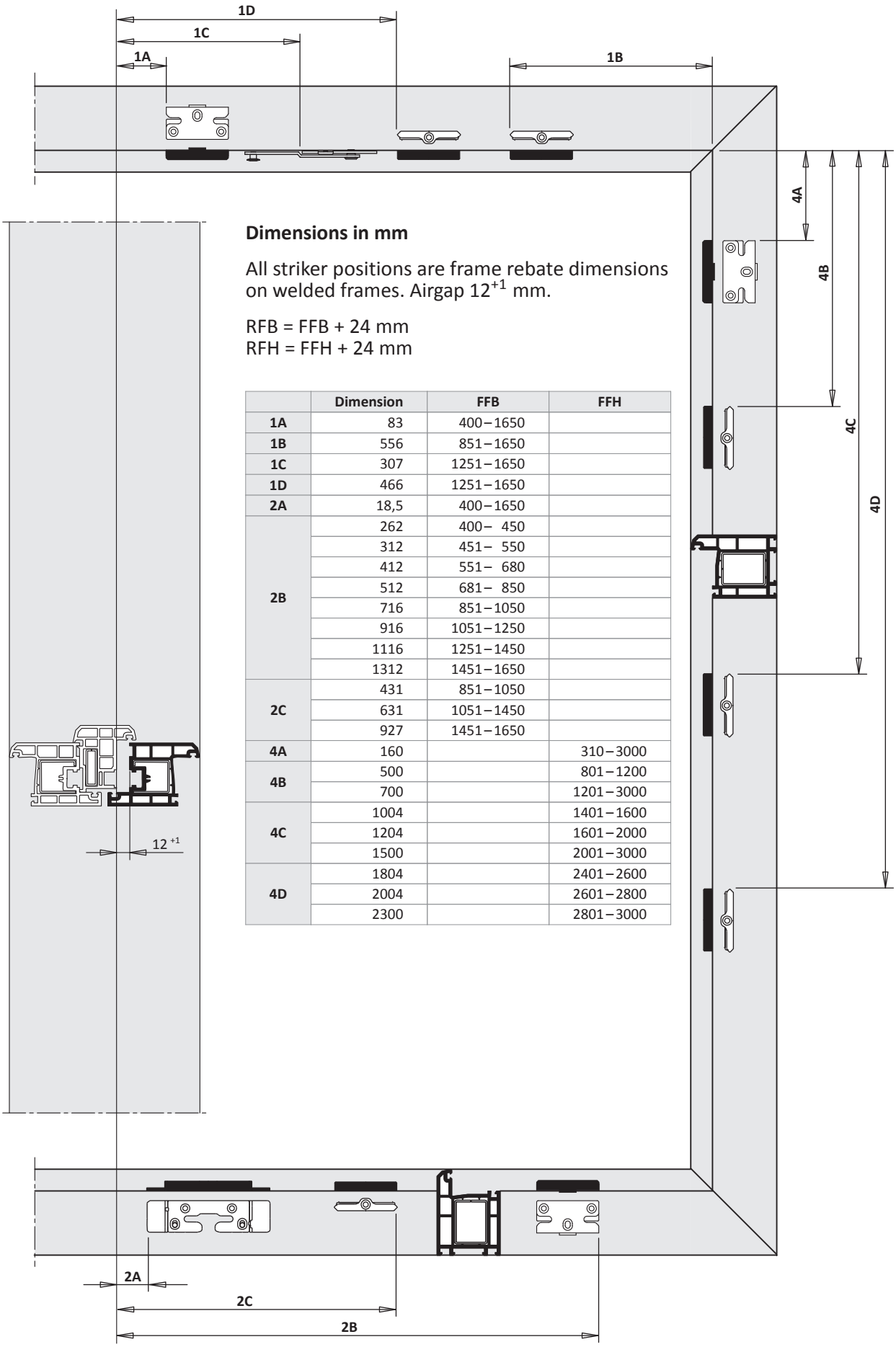


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	6,5	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1104	1251–1450	
2C	419	851–1050	
	619	1051–1450	
3A	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3B	400		1601–1800
	600		1801–2000
	800		2001–3000
3C	448		2401–2600
	448		2801–3000
3D	648		2601–2800
	848		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions




RC1

1-sash square tilt before turn (TBT)

PVC

RC1

fixed handle position

Hinge side TITAN

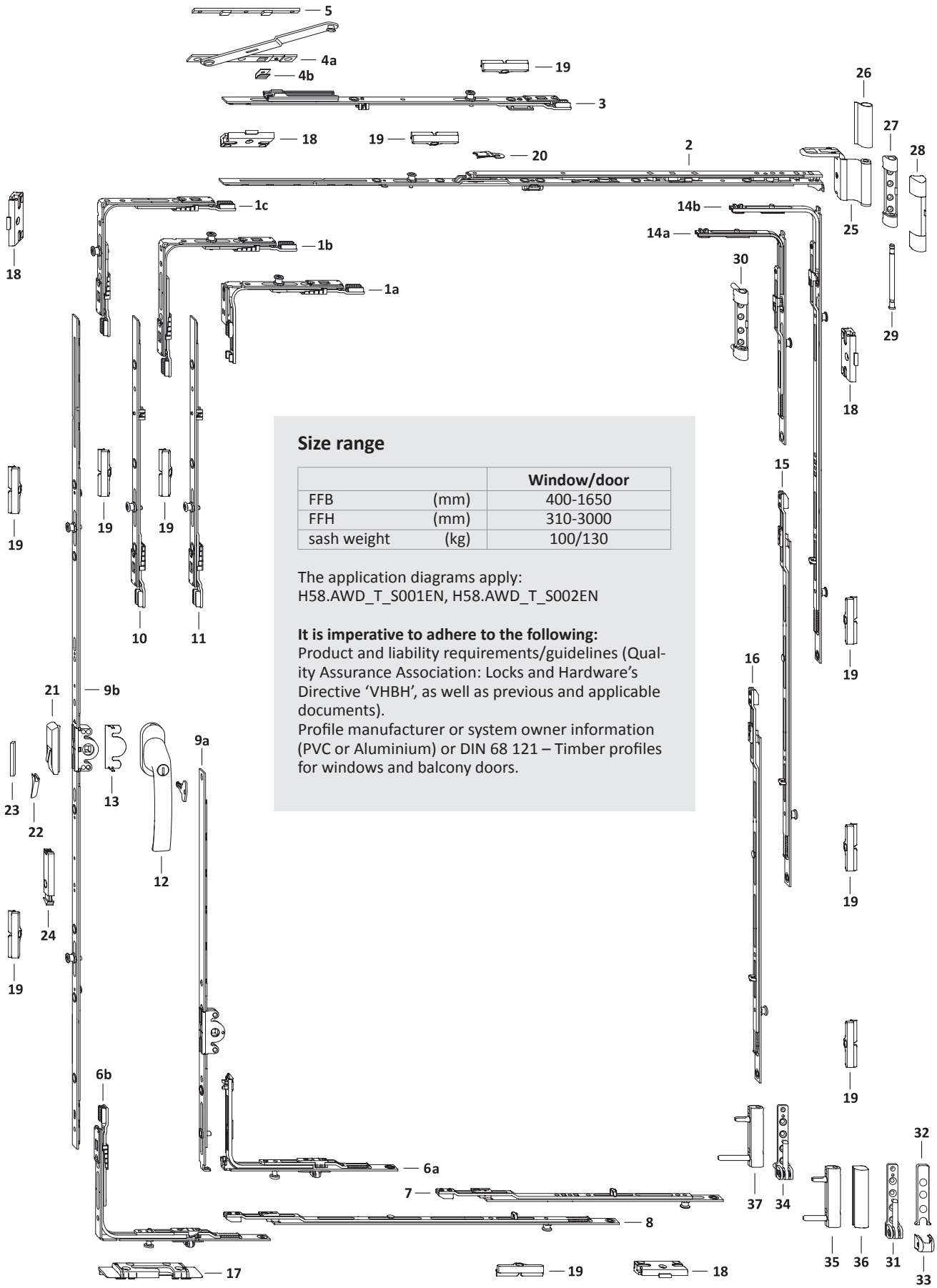
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt before turn (TBT)
PVC GK Hinge side TITAN

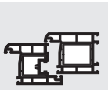


Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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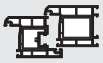



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							17	18	19
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1250	411–3000			1	
1c	corn.drive VSO 1RS	TEUL4010- ...	1	1251–1650	411–3000			1	
2	stay AF TBT sz 0	TSKT2000- ...	1	400– 450					
	stay AF TBT sz 1	TSKT2010- ...		451– 680					
	stay AF TBT sz 2 1RS	TSKT2120- ...		681– 850					
	stay AF TBT sz 3 1RS	TSKT2030- ...		851–1050					1
	stay AF TBT sz 4 1RS	TSKT2040- ...		1051–1250					1
	stay AF TBT sz 3 1RS	TSKT2030- ...		1251–1450					1
	stay AF TBT sz 4 1RS	TSKT2040- ...		1451–1650					1
3	linkage add. stay AF TBT RS	TZOT1010- ...	1	1251–1650					1
4	additional stay	Ref. PDB, TSZS	1	1251–1650					
5	packer Z	Ref. PDB, FRUP01	1	1251–1650					
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	411– 600		1		
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 410		1		
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	601–3000		1		
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1	
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					1
9a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180			
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180			
9b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300			
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400			1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500			1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600			1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700			1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700			2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000			2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000			2
10	linkage AF sz 1	TZZS0150- ...	1		2201–2400				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600				1
	linkage AF sz 1	TZZS0150- ...			2601–2800				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				1
11	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800				1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				1
12	handle Globe TBT lockable	Ref.access. ZHGT	1		310–3000				
13	anti-drill guard E	TGBS0010- ...	1		310–3000				
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1	
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
17	tilt lock bear. S-ES FH TBT	Ref. PDB, FRKB							
18	striker plate S-RS	Ref. PDB, TRSK							
19	striker plate S 56	Ref. PDB, TRSM							
on request									
20	tilt restrictor ..	TFKB0010- ...	1		310– 800				
21	mishandling device	TFBS0010- ...	1						
22	pressure piece	Ref. PDB, TFFD	1						
23	stop	Ref. PDB, FRZF01	1						
24	snapper rh.	TFST0021- ...	1		1801–3000				
	snapper lh.	TFST0022- ...			1801–3000				

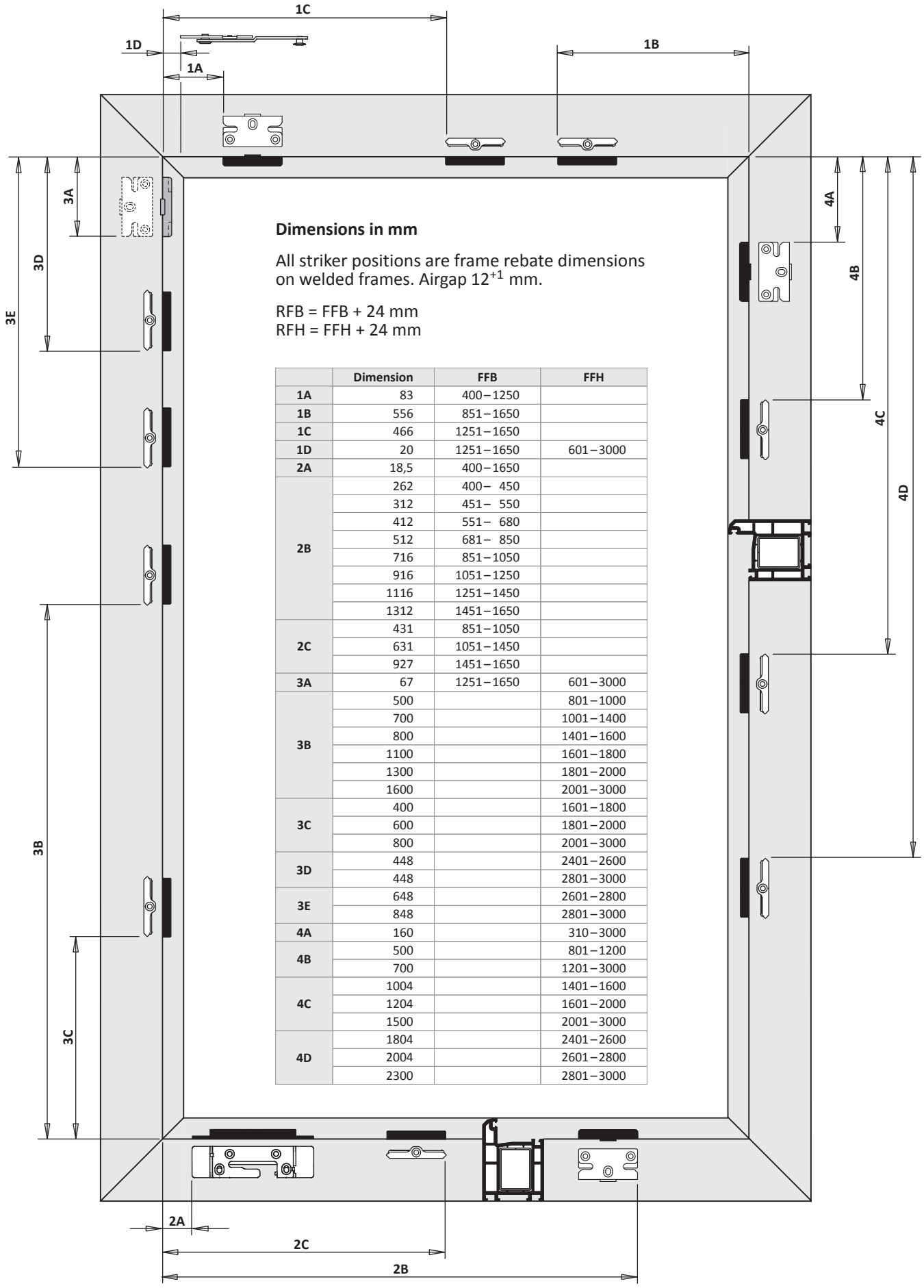
List of fittings

1-sash square tilt before turn (TBT)
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
25	stay hinge DH	Ref. PDB, TBWB61			1	1
26	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
27	top hinge 100kg	Ref. PDB, TBSL61			1	
28	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
29	top hinge pin Poly	TBSB6020-1 ...			1	1
30	top hinge 130kg	Ref. PDB, TBSL62				1
31	bottom hinge 100kg	Ref. PDB, TBEL01			1	
32	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
33	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
34	bottom hinge 130kg	Ref. PDB, TBEL02				1
35	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
36	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
37	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1250	
1B	556	851–1650	
1C	466	1251–1650	
1D	20	1251–1650	601–3000
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	1251–1650	601–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions




RC1

1-sash square tilt-turn

PVC

RC1

fixed handle position

Hinge side TITAN

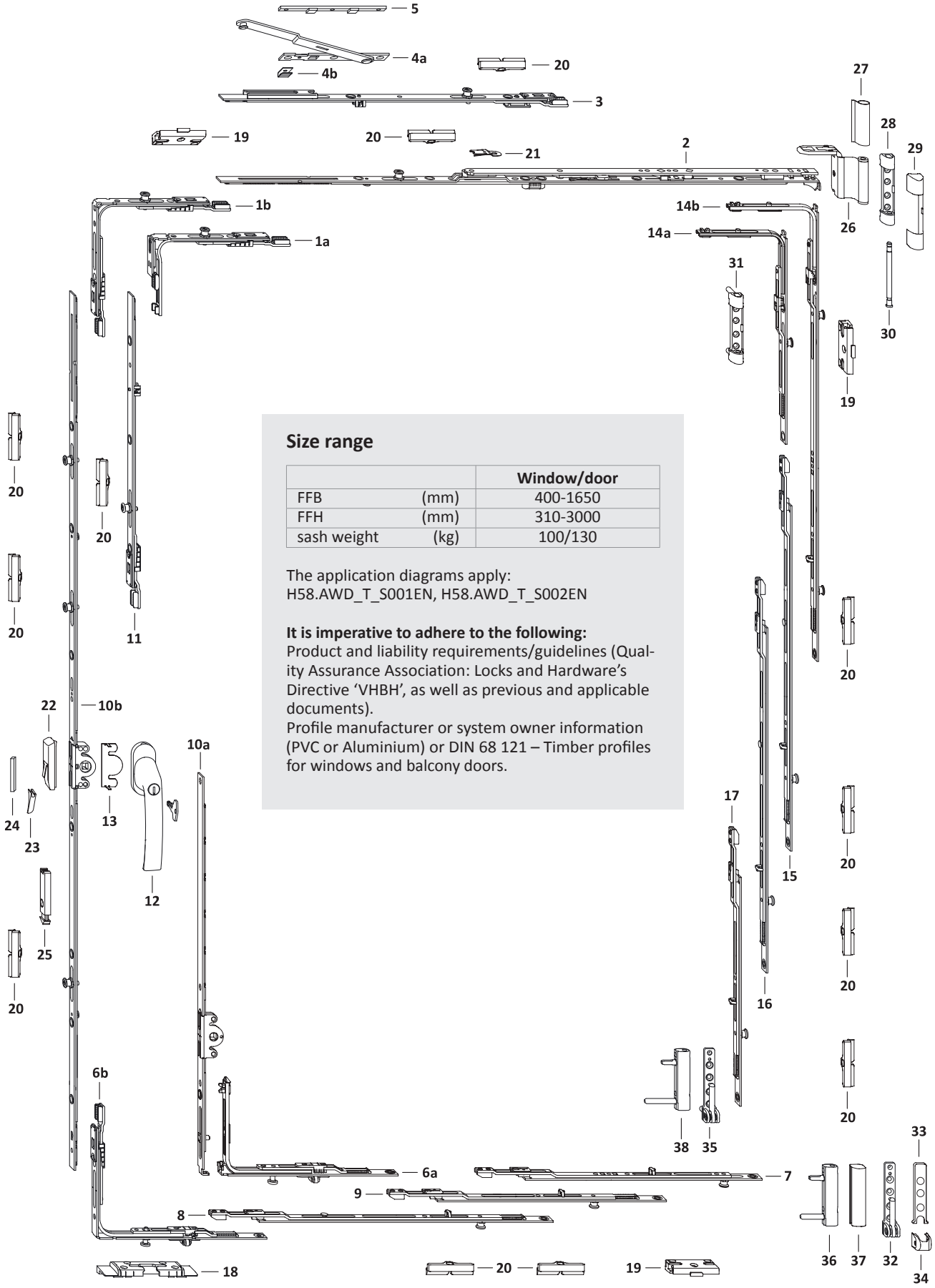
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GK Hinge side TITAN



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

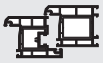
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							18	19	20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	411–3000			1	
2	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 750					
	stay AF sz 2 1RS	TSKK2120- ...		751– 850					1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050					1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250					1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450					1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650					1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650					1
4	additional stay	Ref. PDB, TSZS	1	1251–1650					
5	packer Z	Ref. PDB, FRUP01	1	1251–1650					
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	411– 600		1		
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 410		1		
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	601–3000		1		
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450				1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1	
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650					1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650					1
10a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180			
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180			
10b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300			
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300			1
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400			1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500			1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600			1
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700			2
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700			2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000			2
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000			3
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000			3
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600				1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800				1
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000				1
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000				
13	anti-drill guard E	TGBS0010- ...	1		310–3000				
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1	
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000				1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600				1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000				1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000				1
18	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
19	striker plate S-RS	Ref. PDB, TRSK							
20	striker plate S 56	Ref. PDB, TRSM							
on request									
21	tilt restrictor ..	TFKB0010- ...	1		310– 800				
22	mishandling device	TFBS0010- ...	1						
23	pressure piece	Ref. PDB, TFFD	1						
24	stop	Ref. PDB, FRZF01	1						
25	snapper rh.	TFST0021- ...	1		1801–3000				
	snapper lh.	TFST0022- ...			1801–3000				

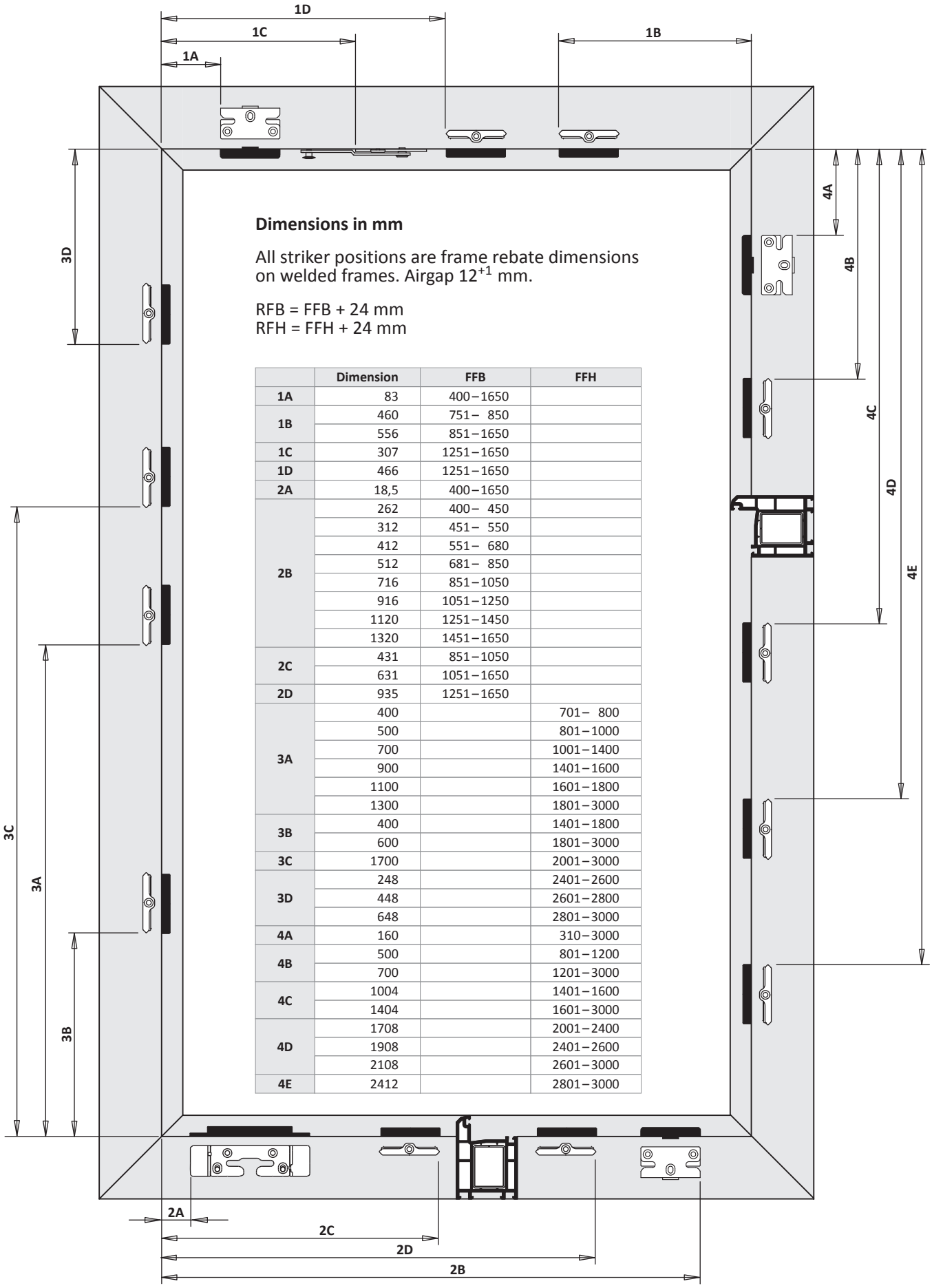
List of fittings

1-sash square tilt-turn
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
26	stay hinge DH	Ref. PDB, TBWB61			1	1
27	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
28	top hinge 100kg	Ref. PDB, TBSL61			1	
29	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
30	top hinge pin Poly	TBSB6020-1 ...			1	1
31	top hinge 130kg	Ref. PDB, TBSL62				1
32	bottom hinge 100kg	Ref. PDB, TBEL01			1	
33	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
34	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
35	bottom hinge 130kg	Ref. PDB, TBEL02				1



Dimensions in mm

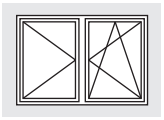
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
3A	400		701– 800
	500		801–1000
	700		1001–1400
	900		1401–1600
	1100		1601–1800
	1300		1801–3000
3B	400		1401–1800
	600		1801–3000
3C	1700		2001–3000
3D	248		2401–2600
	448		2601–2800
	648		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

TITAN AF

Installation instructions





RC1

2-sash square tilt-turn/turn DS 16

PVC

RC1

fixed handle position

Hinge side TITAN

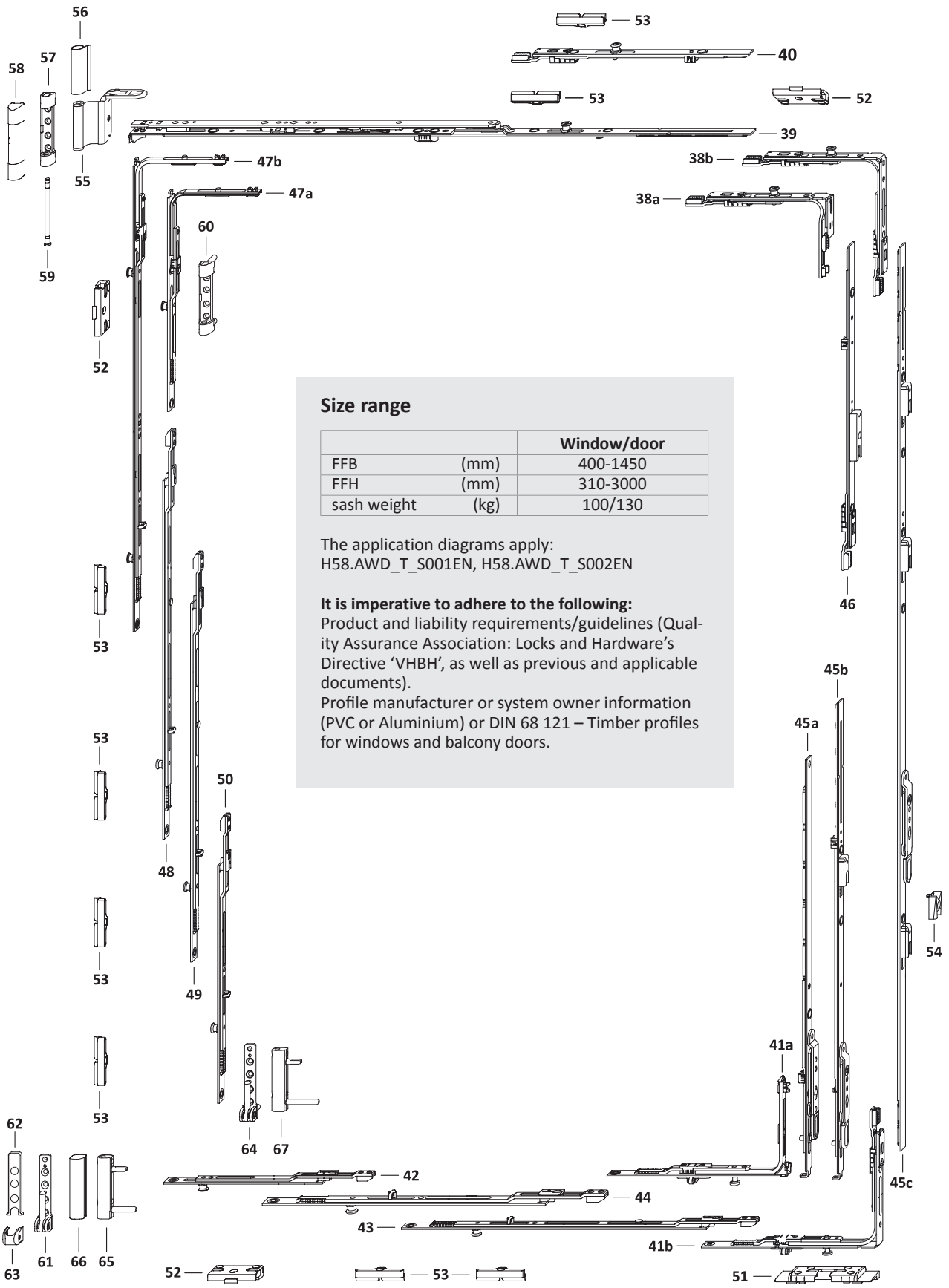
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

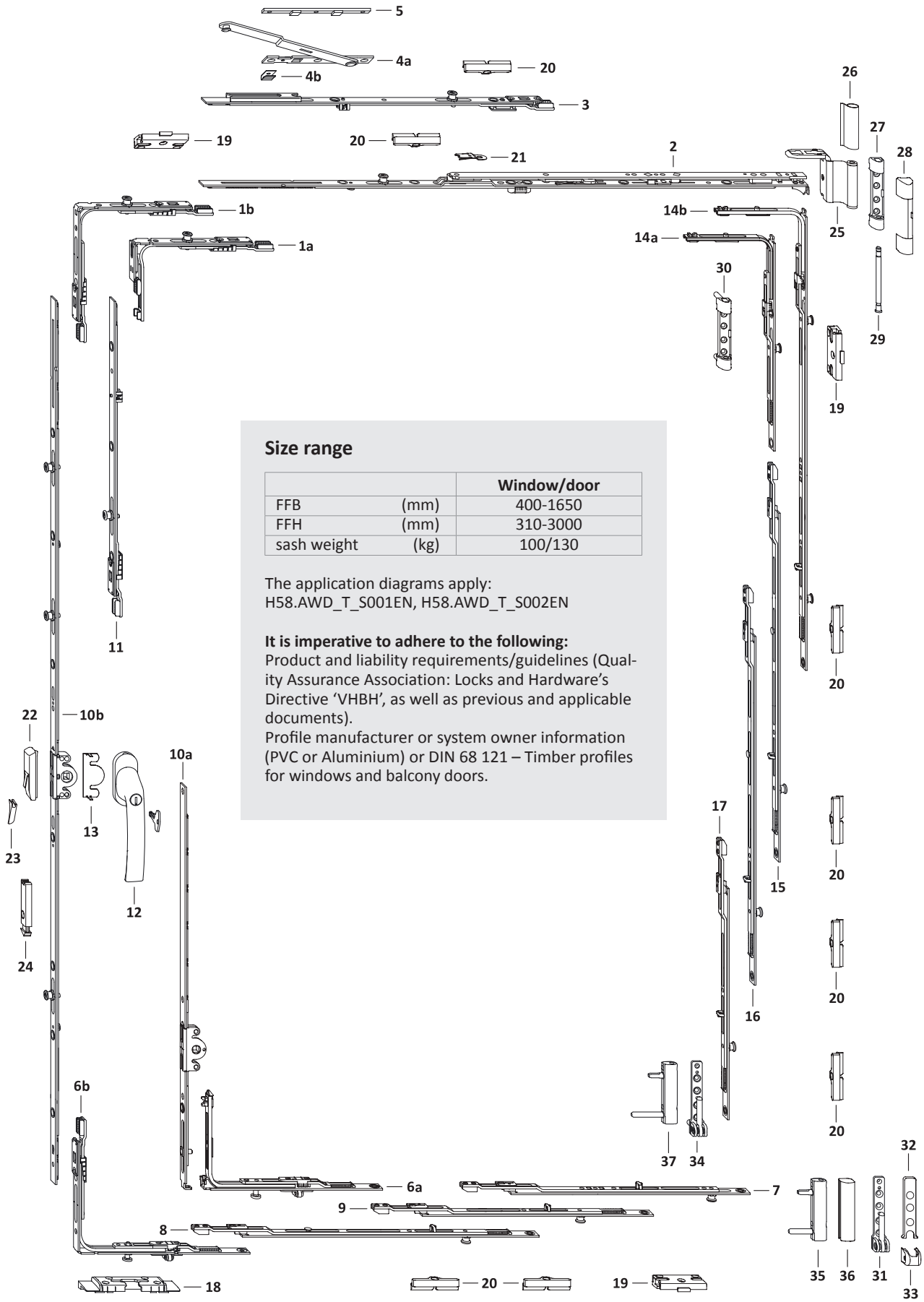


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

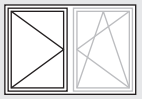
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



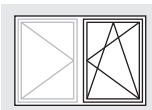


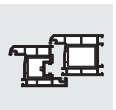
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	51	52	53
38a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1	
38b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1450	411–3000			1	
39	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 750					
	stay AF sz 2 1RS	TSKK2120- ...		751– 850					1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050					1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450					1
40	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450					1
41a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1450	411– 800		1		
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 410		1		
41b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1450	801–3000		1		
42	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450				1	
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1450					1
45a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400– 850	310– 410	180			
	sec.sash gear 16 sz 30	TGKS0010- ...		400–1250	411– 600	180			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300			
45b	sec.sash gear 16 AF70/G300 1SB	TGKS4040- ...	1		701– 800	300			
45c	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400			
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500			
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600			
	sec.sash gear 16 AF140/G700 2S 70	TGKS4290- ...			1401–1600	700			
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700			
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000			
	sec.sash gear 16 AF200/G1000 3 70	TGKS4280- ...			2001–2200	1000			
	sec.sash gear 16 AF220/G1000 3 70	TGKS4320- ...			2201–3000	1000			
46	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2600				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2601–2800				
	linkage AF sz 3 1SB-RS	TZKS1080- ...			2801–3000				
47a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1	
47b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
48	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000				1
49	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600				1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000				1
50	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000				1
51	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
52	striker plate S-RS	Ref. PDB, TRSK							
53	striker plate S 56	Ref. PDB, TRSM							
on request									
54	striker snapper AF A0767	TRST0100- ...	1		1801–3000				

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
55	stay hinge DH	Ref. PDB, TBWB61			1	1
56	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
57	top hinge 100kg	Ref. PDB, TBSL61			1	
58	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
59	top hinge pin Poly	TBSB6020-1 ...			1	1
60	top hinge 130kg	Ref. PDB, TBSL62				1
61	bottom hinge 100kg	Ref. PDB, TBEL01			1	
62	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
63	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
64	bottom hinge 130kg	Ref. PDB, TBEL02				1
65	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
66	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
67	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



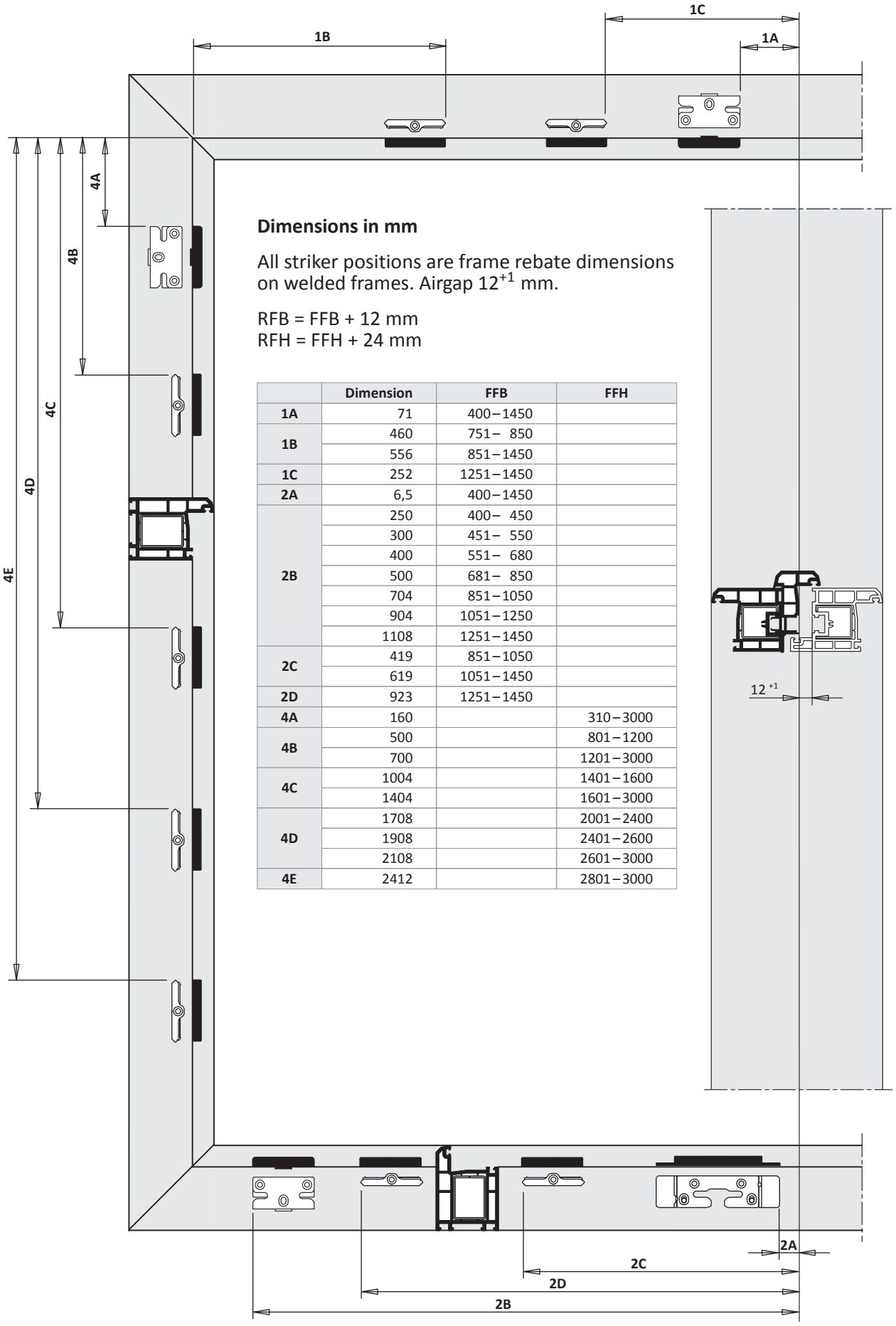


Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							18	19	20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	411–3000			1	
2	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 750					
	stay AF sz 2 1RS	TSKK2120- ...		751– 850					1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050					1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250					1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450					1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650					1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650					1
4	additional stay	Ref. PDB, TSZS	1	1251–1650					
5	packer Z	Ref. PDB, FRUP01	1	1251–1650					
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	411– 600		1		
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 410		1		
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	601–3000		1		
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450				1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1	
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650					1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650					1
10a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180			
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180			
10b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300			
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300			
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400			
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500			
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600			
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700			
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700			
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000			
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000			
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000			
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800				
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000				
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000				
13	anti-drill guard E	TGBS0010- ...	1		310–3000				
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1	
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000				1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600				1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000				1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000				1
18	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
19	striker plate S-RS	Ref. PDB, TRSK							
20	striker plate S 56	Ref. PDB, TRSM							
on request									
21	tilt restrictor ..	TFKB0010- ...	1		310– 800				
22	mishandling device	TFBS0010- ...	1		601–3000				
23	pressure piece	Ref. PDB, TFFD	1		601–3000				
24	snapper rh.	TFST0021- ...	1		1801–3000				
	snapper lh.	TFST0022- ...			1801–3000				

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
25	stay hinge DH	Ref. PDB, TBWB61			1	1
26	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
27	top hinge 100kg	Ref. PDB, TBSL61			1	
28	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
29	top hinge pin Poly	TBSB6020-1 ...			1	1
30	top hinge 130kg	Ref. PDB, TBSL62				1
31	bottom hinge 100kg	Ref. PDB, TBEL01			1	
32	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
33	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
34	bottom hinge 130kg	Ref. PDB, TBEL02				1
35	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
36	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
37	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

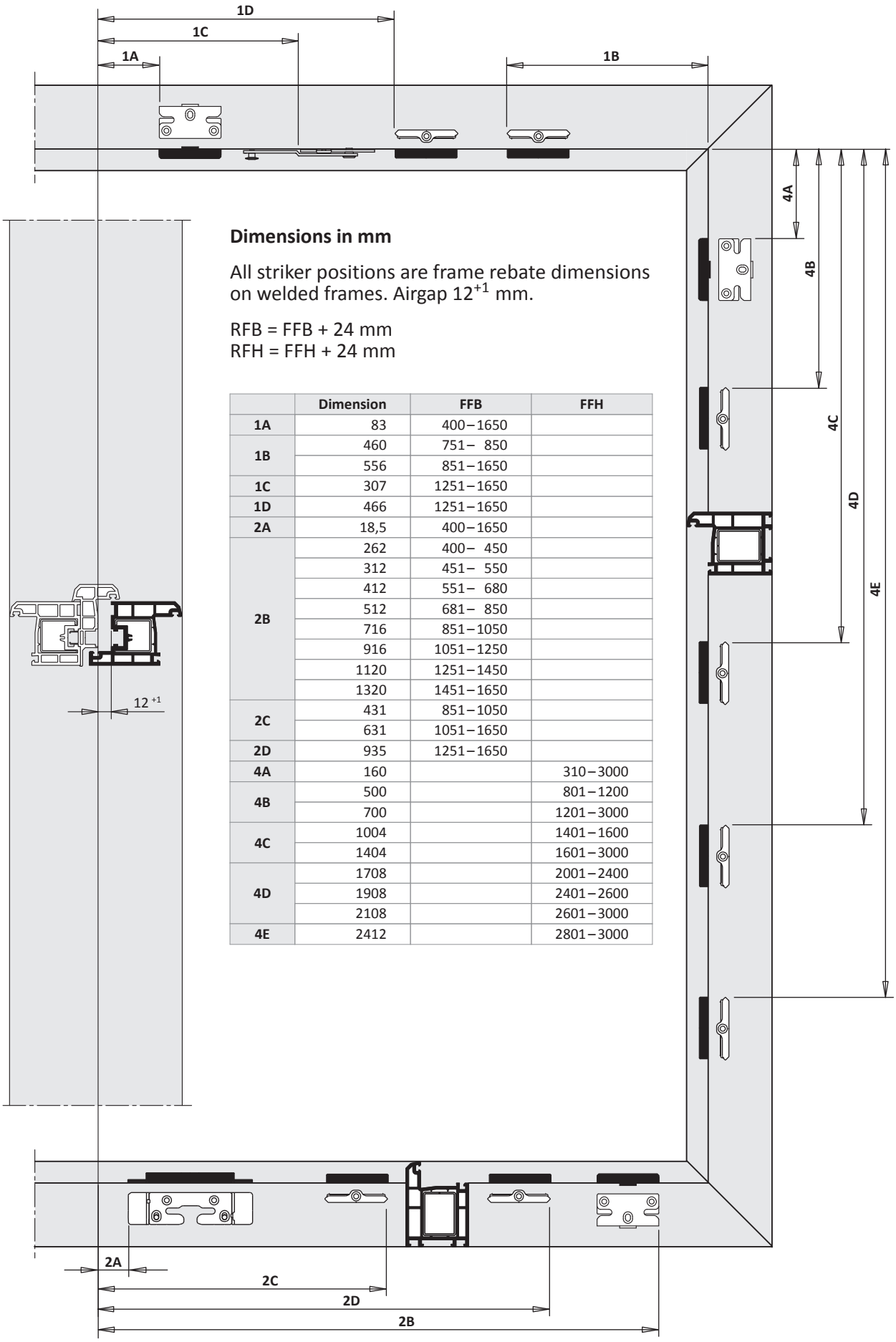


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	460	751– 850	
	556	851–1450	
1C	252	1251–1450	
2A	6,5	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1108	1251–1450	
2C	419	851–1050	
	619	1051–1450	
2D	923	1251–1450	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000



Dimensions in mm

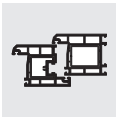
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

TITAN AF

Installation instructions

RC1

1-sash square tilt-turn

PVC

RC1

fixed handle position

Hinge side TITAN

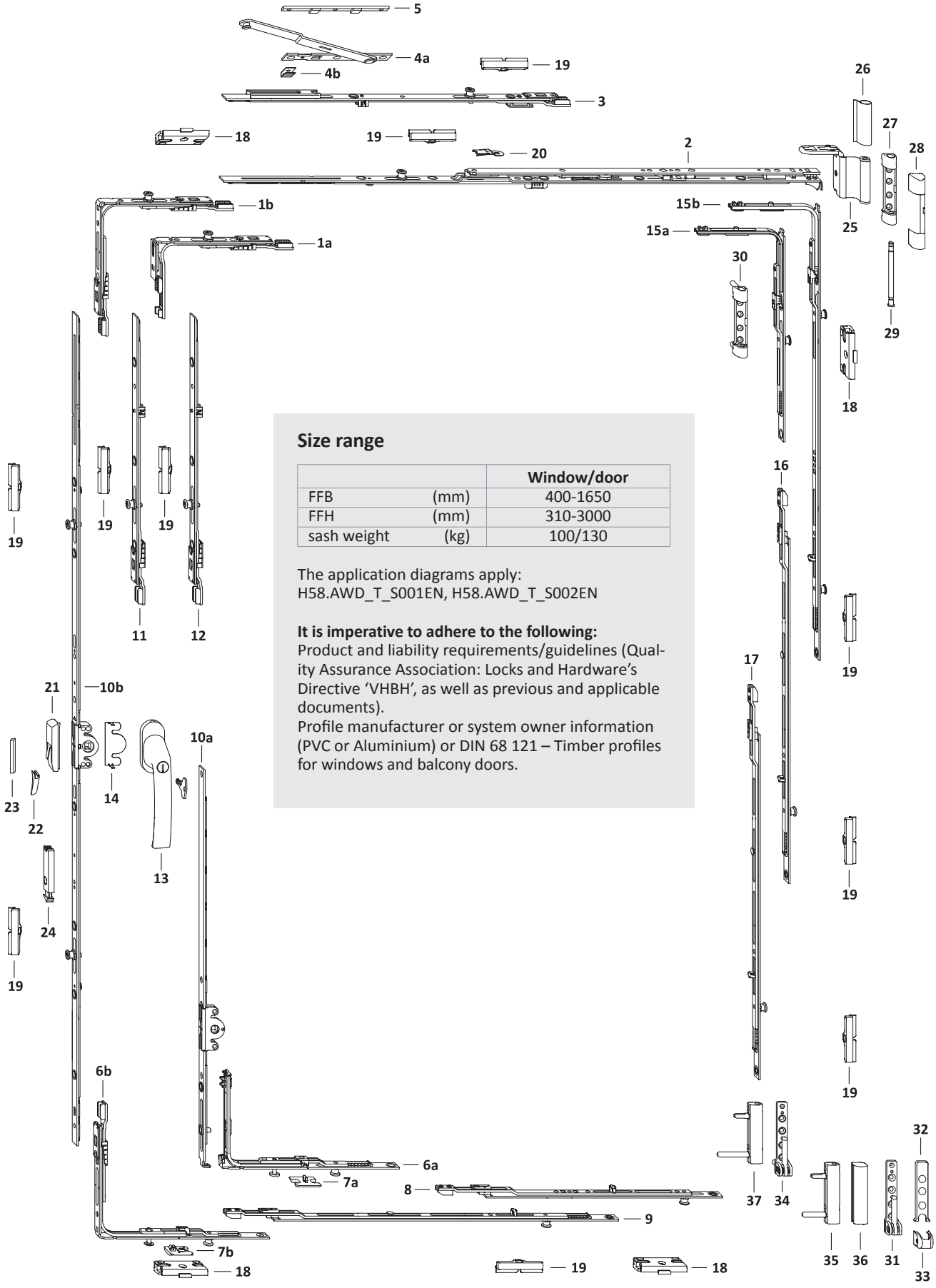
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GK Hinge side TITAN



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

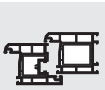
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							18	19
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410		1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	411–3000		1	
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400–1250	411– 600		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		400– 850	310– 410		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1650	601–3000		1	
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400–1250	411– 600			
	run-up plate FH KRL56	Ref. PDB, TRAL01		400– 850	310– 410			
7b	run up block AF 13 mm 13	TFFH0080- ...	1	400–1650	601–3000			
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450			1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1	
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
10a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180		
10b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		2
11	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			1
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
12	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
13	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000			
14	anti-drill guard E	TGBS0010- ...	1		310–3000			
15a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800		1	
15b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
18	striker plate S-RS	Ref. PDB, TRSK						
19	striker plate S 56	Ref. PDB, TRSM						
on request								
20	tilt restrictor ..	TFKB0010- ...	1		310– 800			
21	mishandling device	TFBS0010- ...	1					
22	pressure piece	Ref. PDB, TFFD	1					
23	stop	Ref. PDB, FRZF01	1					

List of fittings

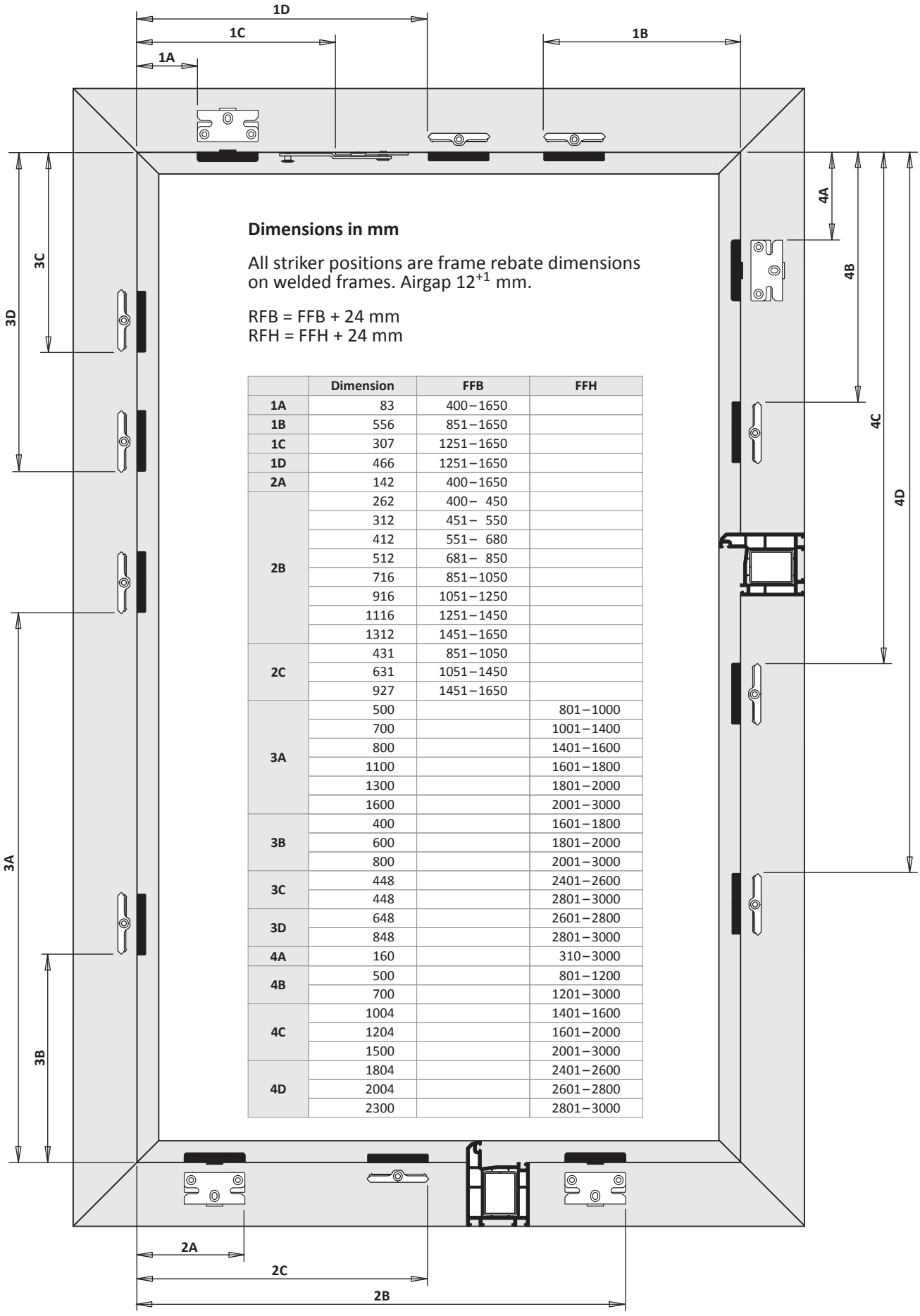
1-sash square tilt-turn
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							18	19
24	snapper rh.	TFST0021- ...	1		1801 – 3000			
	snapper lh.	TFST0022- ...			1801 – 3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
25	stay hinge DH	Ref. PDB, TBWB61			1	1
26	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
27	top hinge 100kg	Ref. PDB, TBSL61			1	
28	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
29	top hinge pin Poly	TBSB6020-1 ...			1	1
30	top hinge 130kg	Ref. PDB, TBSL62				1
31	bottom hinge 100kg	Ref. PDB, TBEL01			1	
32	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
33	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
34	bottom hinge 130kg	Ref. PDB, TBEL02				1
35	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
36	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
37	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

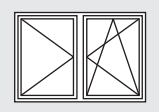
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3B	400		1601–1800
	600		1801–2000
	800		2001–3000
3C	448		2401–2600
	448		2801–3000
3D	648		2601–2800
	848		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



RC1

2-sash square tilt-turn/turn DS 16

PVC

RC1

fixed handle position

Hinge side TITAN

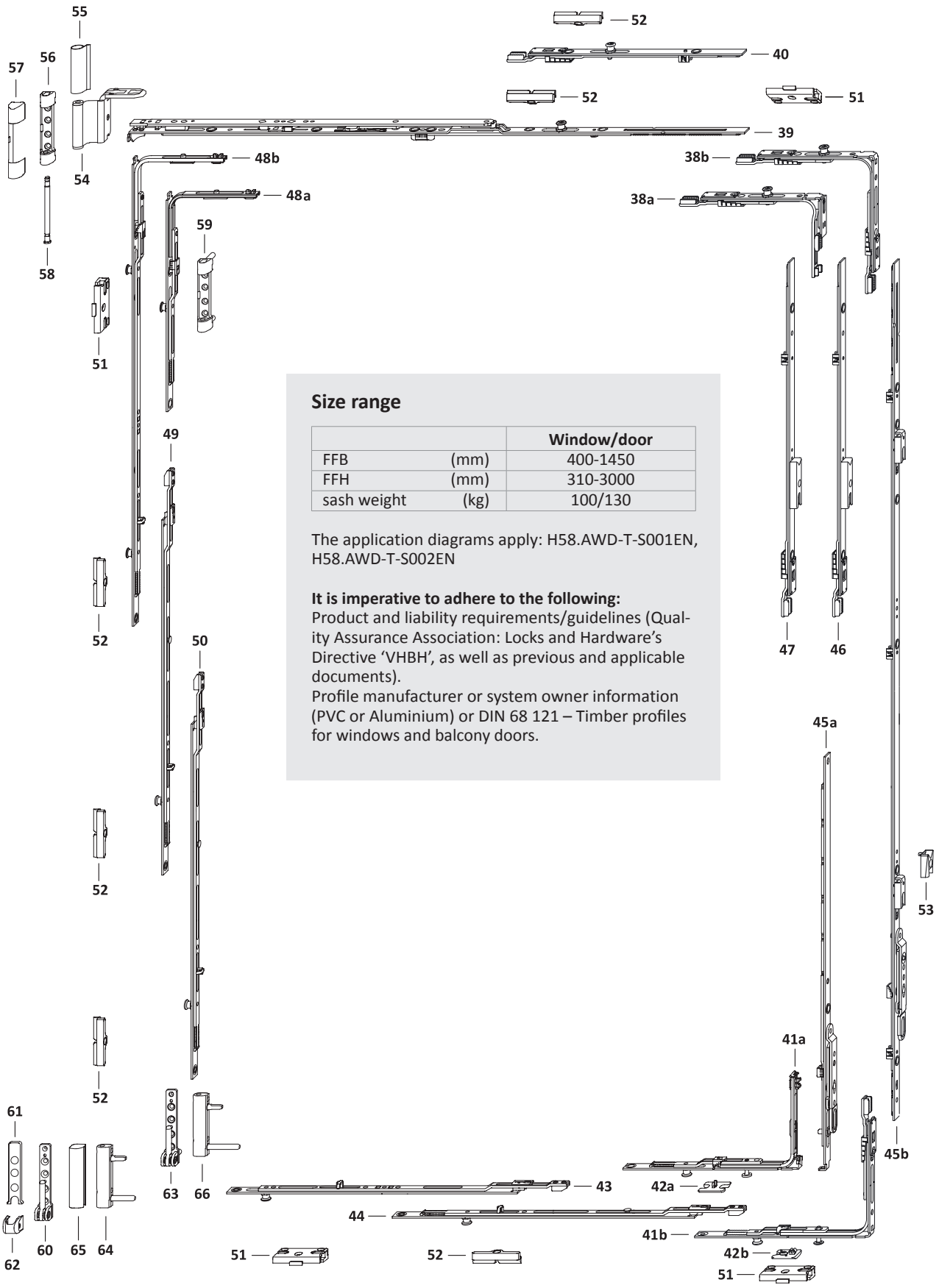
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

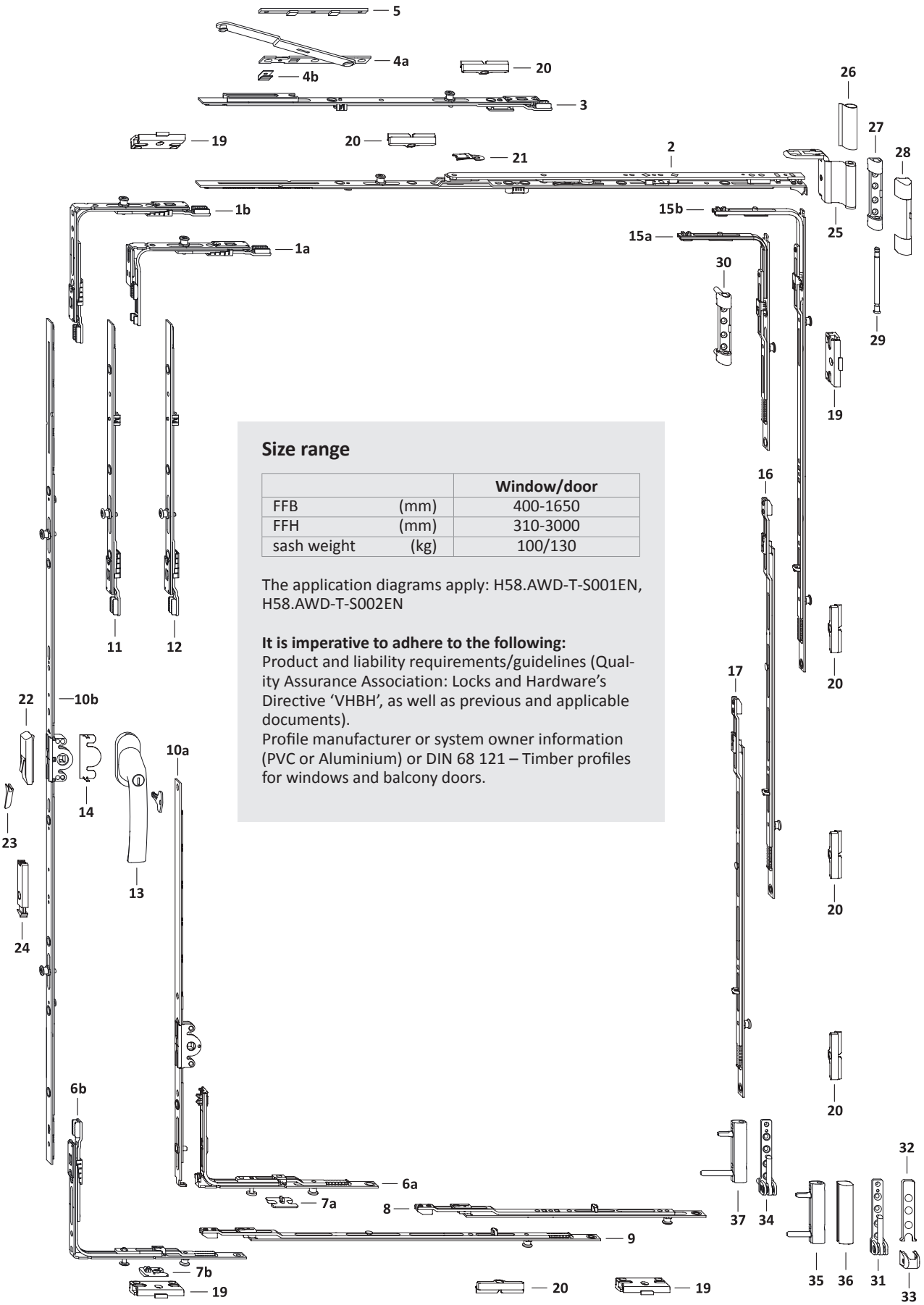


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply: H58.AWD-T-S001EN, H58.AWD-T-S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

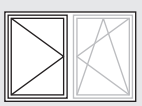
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

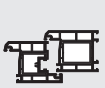
The application diagrams apply: H58.AWD-T-S001EN, H58.AWD-T-S002EN

It is imperative to adhere to the following:
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



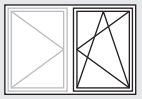


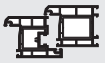
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	51	52
38a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400 – 850	310 – 410		1	
38b	corn.drive VSO 1RS	TEUL4010- ...	1	400 – 1450	411 – 3000		1	
39	stay AF sz 0	TSKK2000- ...	1	400 – 450				
	stay AF sz 1	TSKK2010- ...		451 – 680				
	stay AF sz 2	TSKK2020- ...		681 – 850				
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1450				1
40	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251 – 1450				1
41a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400 – 1450	411 – 800		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		400 – 850	310 – 410		1	
41b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400 – 1450	801 – 3000		1	
42a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400 – 1450	411 – 800			
	run-up plate FH KRL56	Ref. PDB, TRAL01		400 – 850	310 – 410			
42b	run up plate AF 13 mm 13	TFFH0080- ...	1	400 – 1450	801 – 3000			
43	extension sz 1+ 1RS	TVSO0200- ...	1	400 – 450			1	
	extension sz 2+ 1RS	TVSL0320- ...		451 – 550			1	
	extension sz 3+ 1RS	TVSL0330- ...		551 – 680			1	
	extension sz 4+ 1RS	TVSL0340- ...		681 – 850			1	
	extension sz 3+ 1RS	TVSL0330- ...		851 – 1250			1	
	extension sz 5+ 1RS	TVSL0350- ...		1251 – 1450			1	
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450				1
45a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400 – 850	310 – 410	180		
	sec.sash gear 16 sz 30	TGKS0010- ...		400 – 1250	411 – 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601 – 800	300		
45b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801 – 1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001 – 1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201 – 1400	600		
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401 – 1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601 – 1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801 – 2000	1000		
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001 – 3000	1000		
46	linkage AF sz 1	TZZS0150- ...	1		2201 – 2400			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401 – 2600			
	linkage AF sz 1	TZZS0150- ...			2601 – 2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000			
47	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601 – 2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000			
48a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310 – 800		1	
48b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		1	1
49	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000			1
50	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000			1
51	striker plate S-RS	Ref. PDB, TRSK						
52	striker plate S 56	Ref. PDB, TRSM						
on request								
53	striker snapper AF A0767	TRST0100- ...	1		1801 – 3000			

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
54	stay hinge DH	Ref. PDB, TBWB61			1	1
55	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
56	top hinge 100kg	Ref. PDB, TBSL61			1	
57	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
58	top hinge pin Poly	TBSB6020-1 ...			1	1
59	top hinge 130kg	Ref. PDB, TBSL62				1
60	bottom hinge 100kg	Ref. PDB, TBEL01			1	
61	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
62	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
63	bottom hinge 130kg	Ref. PDB, TBEL02				1
64	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
65	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
66	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





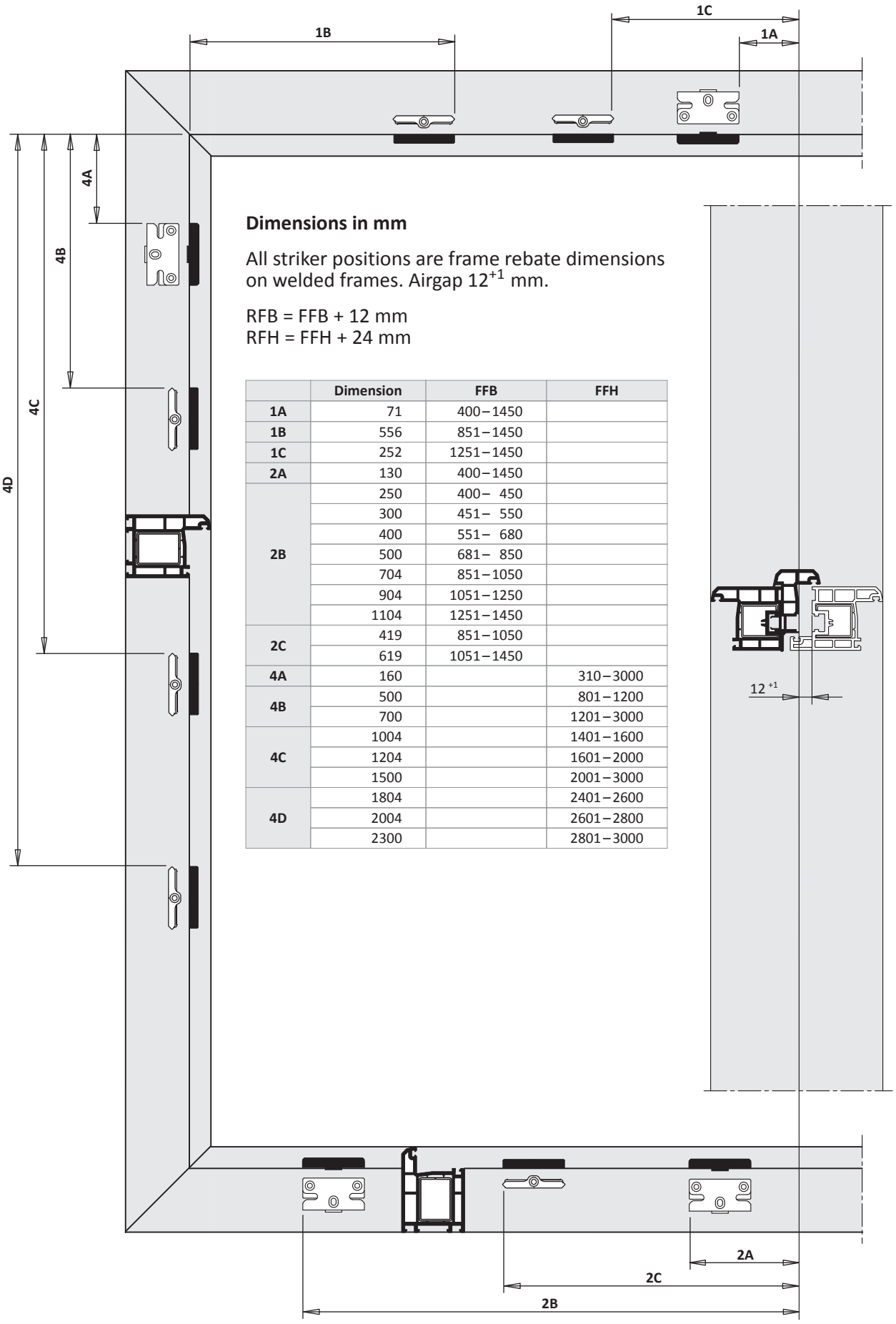
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							18	19	20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	411–3000			1	
2	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 850					
	stay AF sz 3 1RS	TSKK2030- ...		851–1050					1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250					1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450					1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650					1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650					1
4	additional stay	Ref. PDB, TSZS	1	1251–1650					
5	packer Z	Ref. PDB, FRUP01	1	1251–1650					
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400–1250	411– 600			1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		400– 850	310– 410		1		
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1650	601–3000		1		
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400–1250	411– 600				
	run-up plate FH KRL56	Ref. PDB, TRAL01		400– 850	310– 410				
7b	run up plate AF 13 mm 13	TFFH0080- ...	1	400–1650	601–3000				
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1	
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					1
10a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180			
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180			
10b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300			
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400			
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500			
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600			
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700			
	gear 15 AF sz 160/G700 2RS 70	TGKK4280- ...			1601–1800	700			
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000			
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000			
11	linkage AF sz 1	TZZS0150- ...	1		2201–2400				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600				
	linkage AF sz 1	TZZS0150- ...			2601–2800				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				
12	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				
13	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000				
14	anti-drill guard E	TGBS0010- ...	1		310–3000				
15a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1	
15b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
18	tilt lock bear. 56 S-RS	Ref. PDB, TRKF							
19	striker plate S-RS	Ref. PDB, TRSK							
20	striker plate S 56	Ref. PDB, TRSM							
on request									
21	tilt restrictor ..	TFKB0010- ...	1		310– 800				
22	mishandling device	TFBS0010- ...	1		601–3000				
23	pressure piece	Ref. PDB, TFFD	1		601–3000				

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							18	19	20
24	snapper rh.	TFST0021- ...	1		1801 – 3000				
	snapper lh.	TFST0022- ...			1801 – 3000				

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
25	stay hinge DH	Ref. PDB, TBWB61			1	1
26	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
27	top hinge 100kg	Ref. PDB, TBSL61			1	
28	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
29	top hinge pin Poly	TBSB6020-1 ...			1	1
30	top hinge 130kg	Ref. PDB, TBSL62				1
31	bottom hinge 100kg	Ref. PDB, TBEL01			1	
32	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
33	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
34	bottom hinge 130kg	Ref. PDB, TBEL02				1
35	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
36	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
37	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

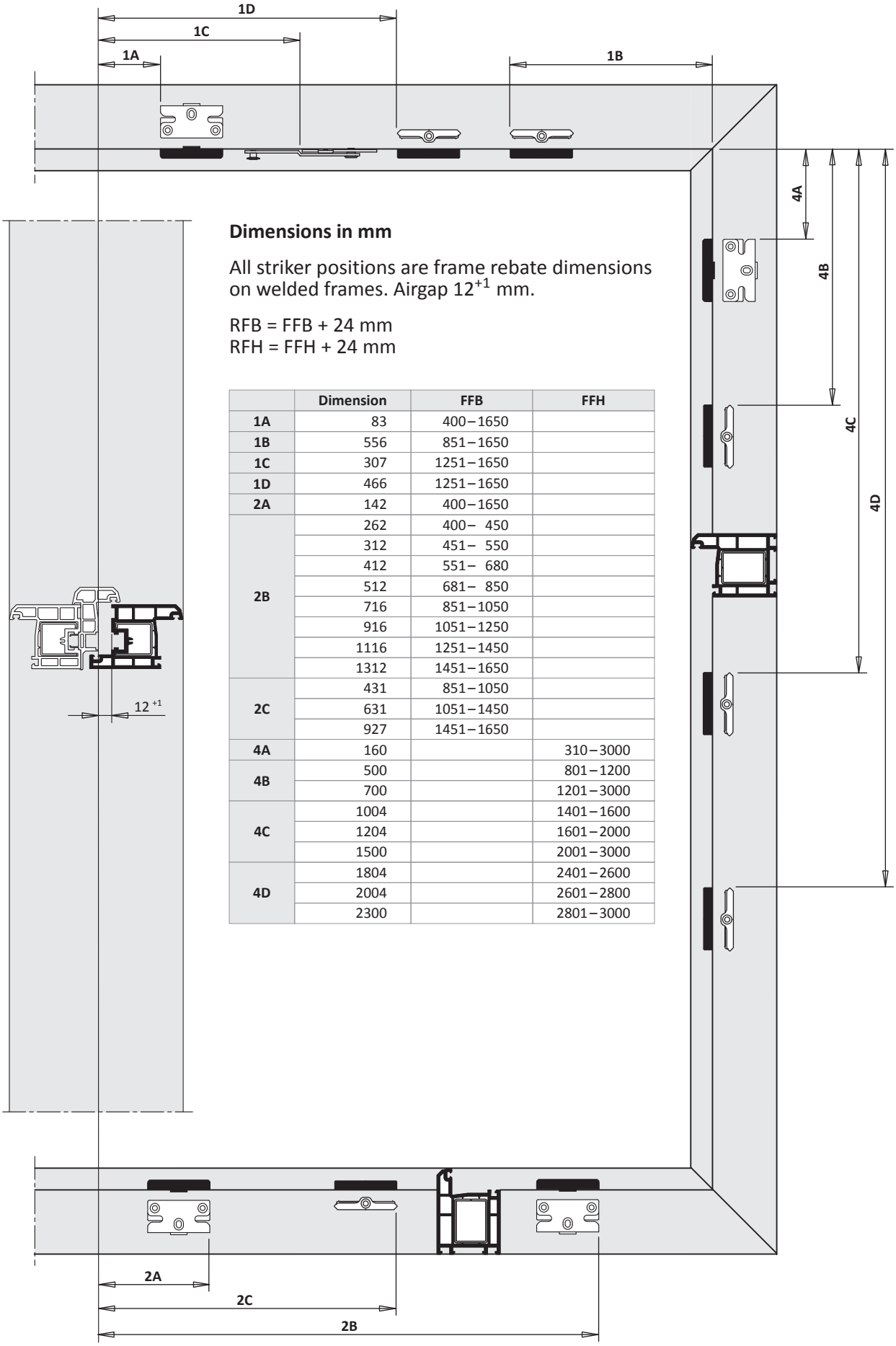


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	130	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1104	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

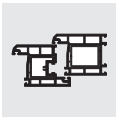
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions

RC1

1-sash square tilt-turn

PVC

RC1

fixed handle position

Hinge side TITAN

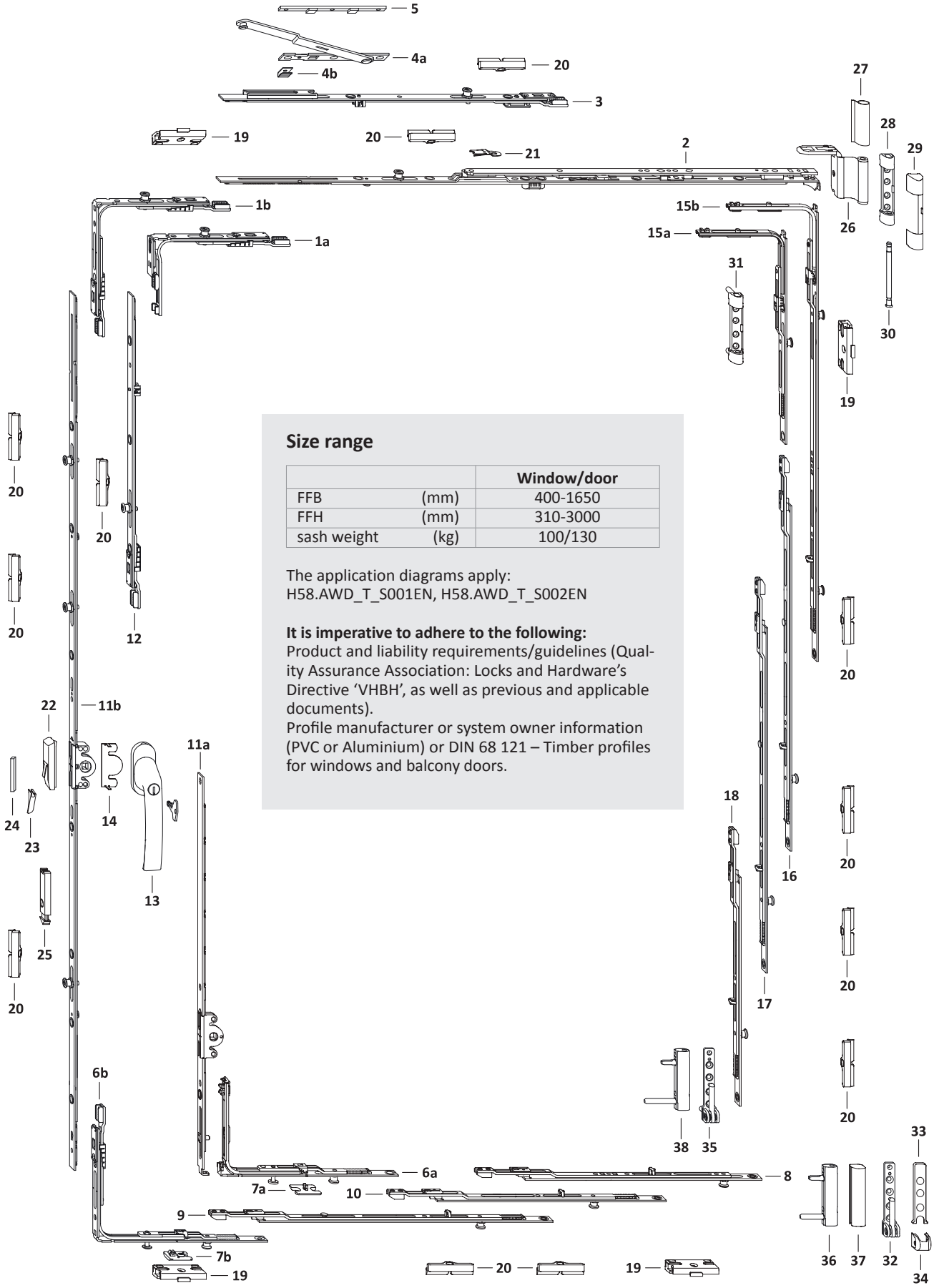
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GK Hinge side TITAN

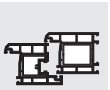


Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
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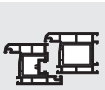



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							19	20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410		1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	411–3000		1	
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400–1250	411– 600		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		400– 850	310– 410		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1650	601–3000		1	
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400–1250	411– 600			
	run-up plate FH KRL56	Ref. PDB, TRAL01		400– 850	310– 410			
7b	run up block AF 13 mm 13	TFFH0080- ...	1	400–1650	601–3000			
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1	
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450			1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1	
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
10	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
11a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180		
11b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300		
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300		1
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700		2
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000		3
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000		3
12	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800			1
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000			1
13	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000			
14	anti-drill guard E	TGBS0010- ...	1		310–3000			
15a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800		1	
15b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
19	striker plate S-RS	Ref. PDB, TRSK						
20	striker plate S 56	Ref. PDB, TRSM						
on request								
21	tilt restrictor ..	TFKB0010- ...	1		310– 800			
22	mishandling device	TFBS0010- ...	1					
23	pressure piece	Ref. PDB, TFFD	1					
24	stop	Ref. PDB, FRZF01	1					

List of fittings

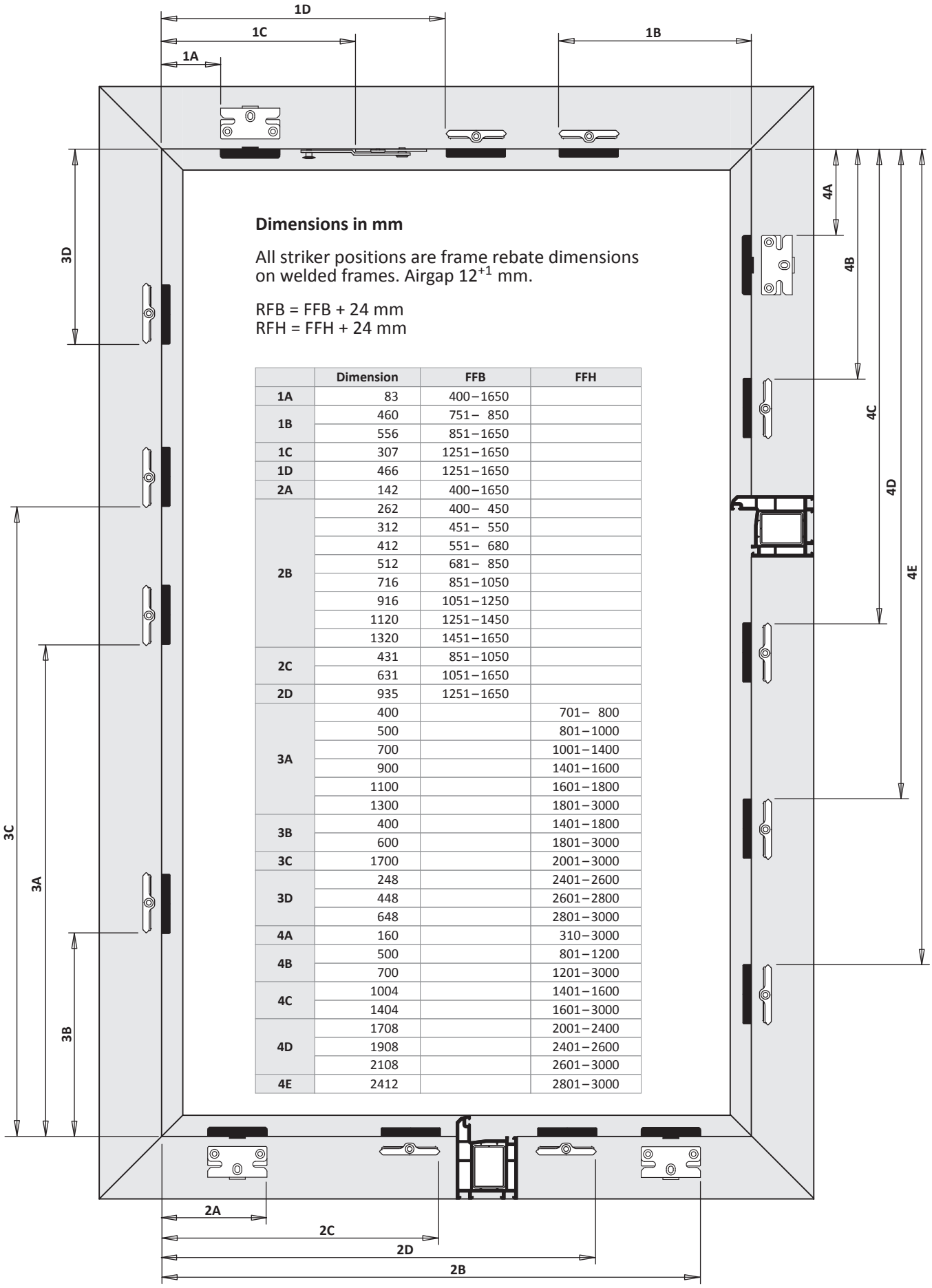
1-sash square tilt-turn
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							19	20
25	snapper rh.	TFST0021- ...	1		1801 – 3000			
	snapper lh.	TFST0022- ...			1801 – 3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
26	stay hinge DH	Ref. PDB, TBWB61			1	1
27	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
28	top hinge 100kg	Ref. PDB, TBSL61			1	
29	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
30	top hinge pin Poly	TBSB6020-1 ...			1	1
31	top hinge 130kg	Ref. PDB, TBSL62				1
32	bottom hinge 100kg	Ref. PDB, TBEL01			1	
33	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
34	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
35	bottom hinge 130kg	Ref. PDB, TBEL02				1
36	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
37	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
38	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

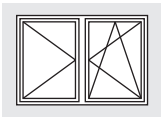
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
3A	400		701– 800
	500		801–1000
	700		1001–1400
	900		1401–1600
	1100		1601–1800
	1300		1801–3000
3B	400		1401–1800
	600		1801–3000
3C	1700		2001–3000
3D	248		2401–2600
	448		2601–2800
	648		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

TITAN AF

Installation instructions





RC1

2-sash square tilt-turn/turn DS 16

PVC

RC1

fixed handle position

Hinge side TITAN

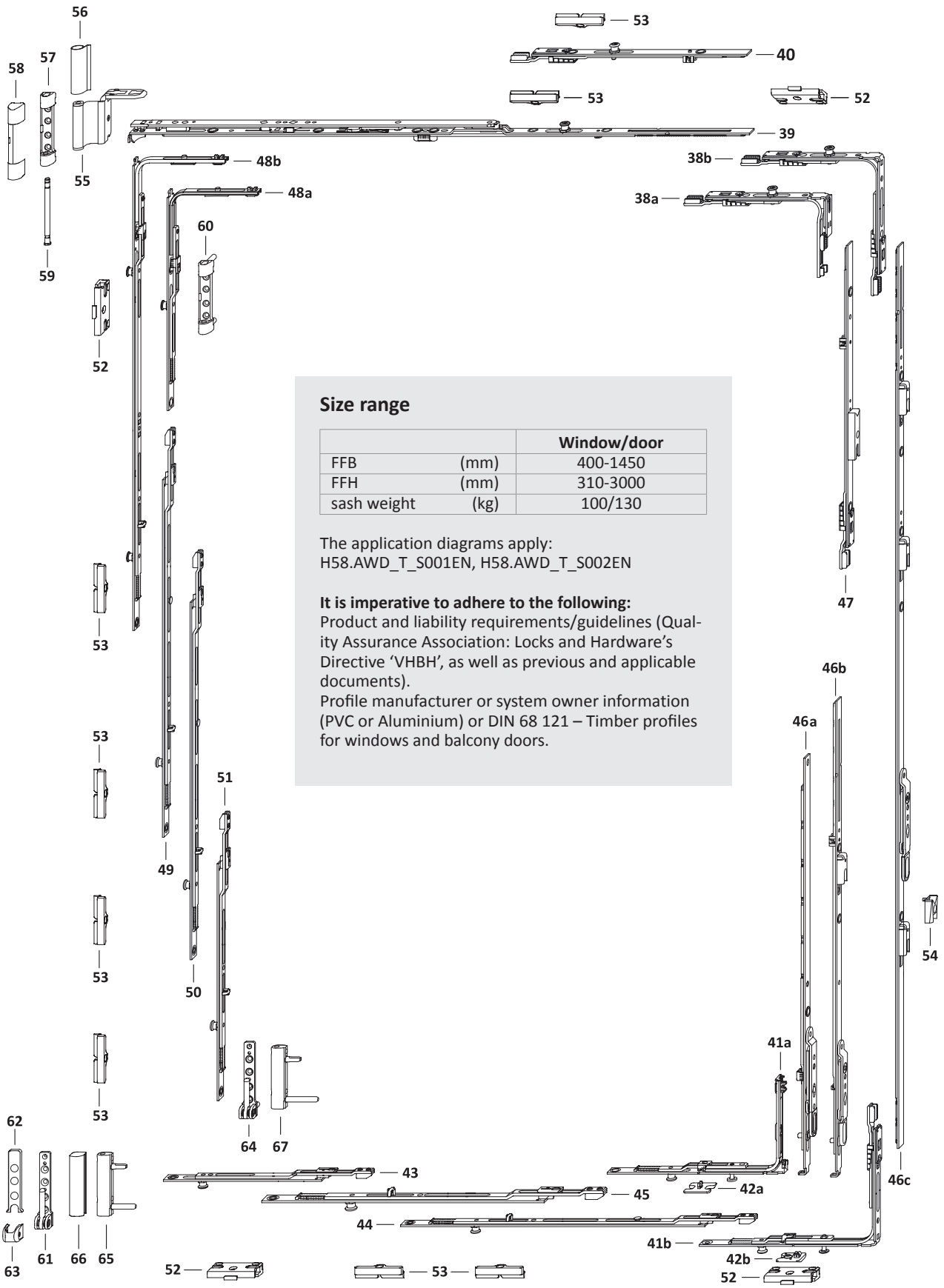
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

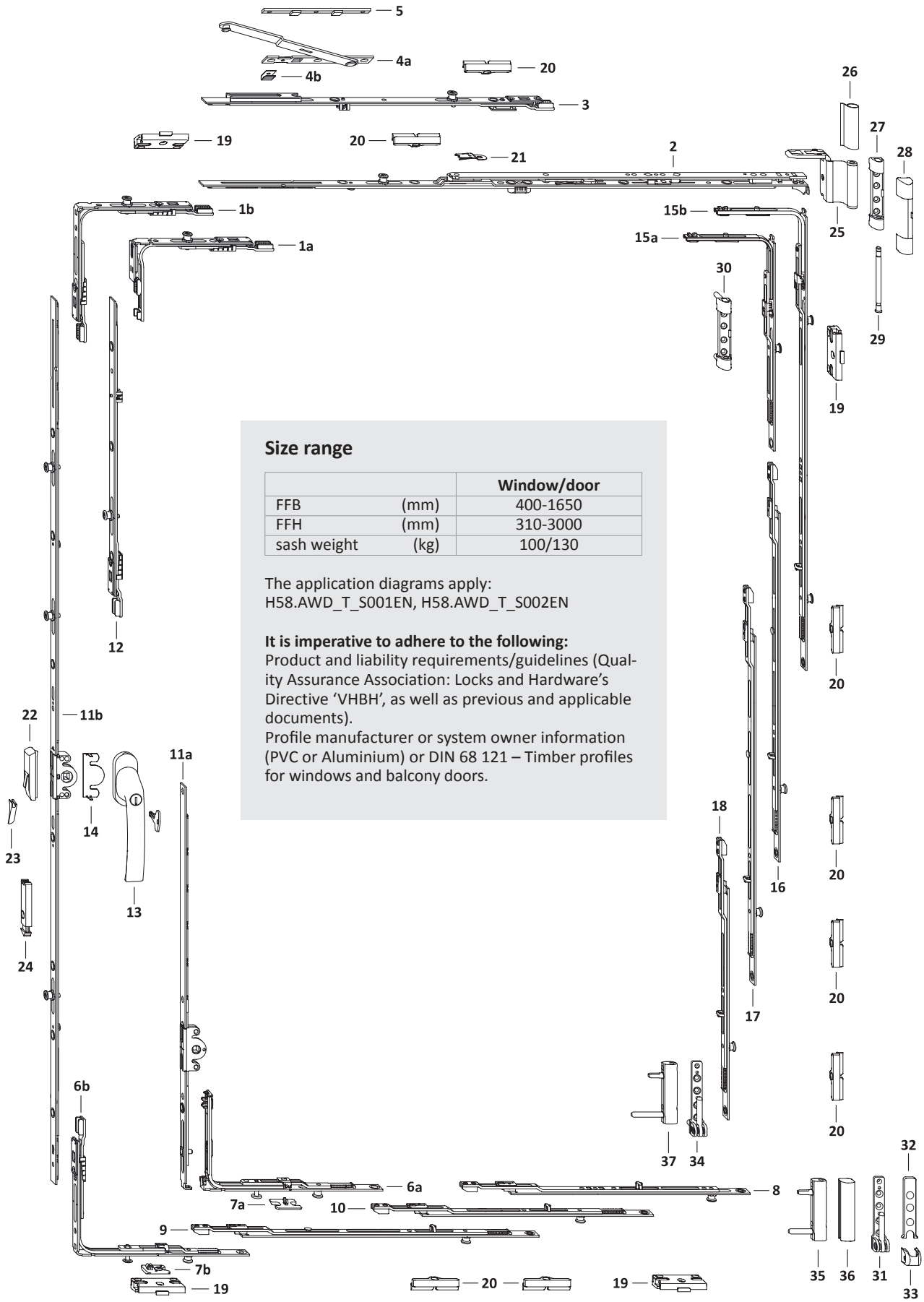


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

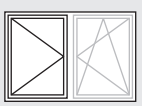
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

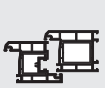
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
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List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



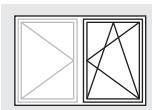


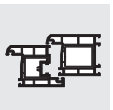
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	52	53
38a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410		1	
38b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1450	411–3000		1	
39	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1
40	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
41a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400–1450	411– 800		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		400– 850	310– 410		1	
41b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1450	801–3000		1	
42a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400–1450	411– 800			
	run-up plate FH KRL56	Ref. PDB, TRAL01		400– 850	310– 410			
42b	run up block AF 13 mm 13	TFFH0080- ...	1	400–1450	801–3000			
43	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1	
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450			1	
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
45	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1450				1
46a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400– 850	310– 410	180		
	sec.sash gear 16 sz 30	TGKS0010- ...		400–1250	411– 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300		
46b	sec.sash gear 16 AF70/G300 1SB	TGKS4040- ...	1		701– 800	300		
46c	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600		
	sec.sash gear 16 AF140/G700 2S 70	TGKS4290- ...			1401–1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000		
	sec.sash gear 16 AF200/G1000 3 70	TGKS4280- ...			2001–2200	1000		
	sec.sash gear 16 AF220/G1000 3 70	TGKS4320- ...			2201–3000	1000		
47	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2600			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2601–2800			
	linkage AF sz 3 1SB-RS	TZKS1080- ...			2801–3000			
48a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800		1	
48b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
49	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
50	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
51	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
52	striker plate S-RS	Ref. PDB, TRSK						
53	striker plate S 56	Ref. PDB, TRSM						
on request								
54	striker snapper AF A0767	TRST0100- ...	1		1801–3000			

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
55	stay hinge DH	Ref. PDB, TBWB61			1	1
56	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
57	top hinge 100kg	Ref. PDB, TBSL61			1	
58	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
59	top hinge pin Poly	TBSB6020-1 ...			1	1
60	top hinge 130kg	Ref. PDB, TBSL62				1
61	bottom hinge 100kg	Ref. PDB, TBEL01			1	
62	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
63	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
64	bottom hinge 130kg	Ref. PDB, TBEL02				1
65	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
66	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
67	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



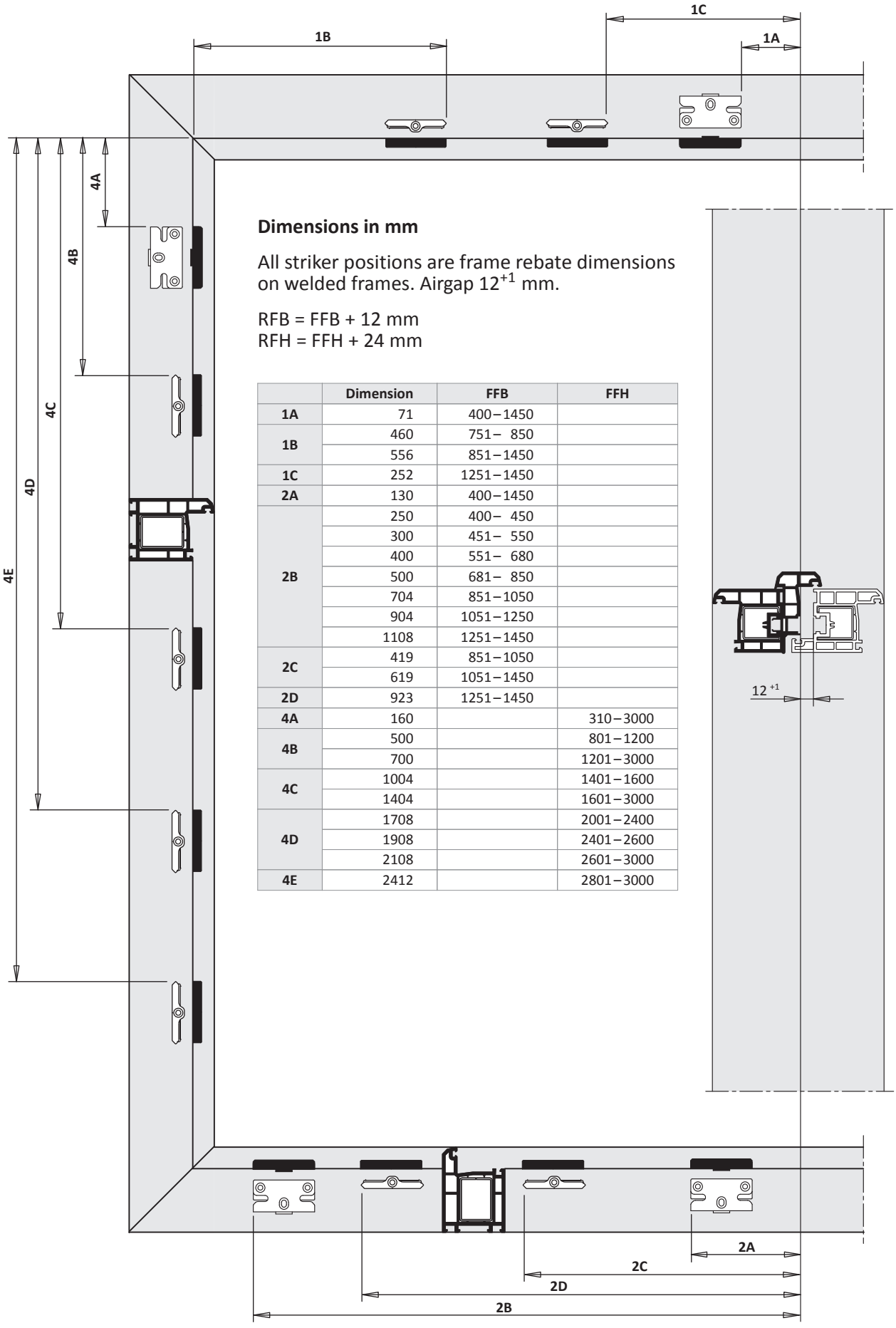


Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							19	20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410		1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	411–3000		1	
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400–1250	411– 600		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		400– 850	310– 410		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1650	601–3000		1	
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400–1250	411– 600			
	run-up plate FH KRL56	Ref. PDB, TRAL01		400– 850	310– 410			
7b	run up block AF 13 mm 13	TFFH0080- ...	1	400–1650	601–3000			
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1	
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450			1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1	
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
10	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
11a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180		
11b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300		
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000		
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000		
12	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800			
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000			
13	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000			
14	anti-drill guard E	TGBS0010- ...	1		310–3000			
15a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800		1	
15b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
19	striker plate S-RS	Ref. PDB, TRSK						
20	striker plate S 56	Ref. PDB, TRSM						
on request								
21	tilt restrictor ..	TFKB0010- ...	1		310– 800			
22	mishandling device	TFBS0010- ...	1		601–3000			
23	pressure piece	Ref. PDB, TFFD	1		601–3000			
24	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
25	stay hinge DH	Ref. PDB, TBWB61			1	1
26	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
27	top hinge 100kg	Ref. PDB, TBSL61			1	
28	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
29	top hinge pin Poly	TBSB6020-1 ...			1	1
30	top hinge 130kg	Ref. PDB, TBSL62				1
31	bottom hinge 100kg	Ref. PDB, TBEL01			1	
32	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
33	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
34	bottom hinge 130kg	Ref. PDB, TBEL02				1
35	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
36	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
37	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

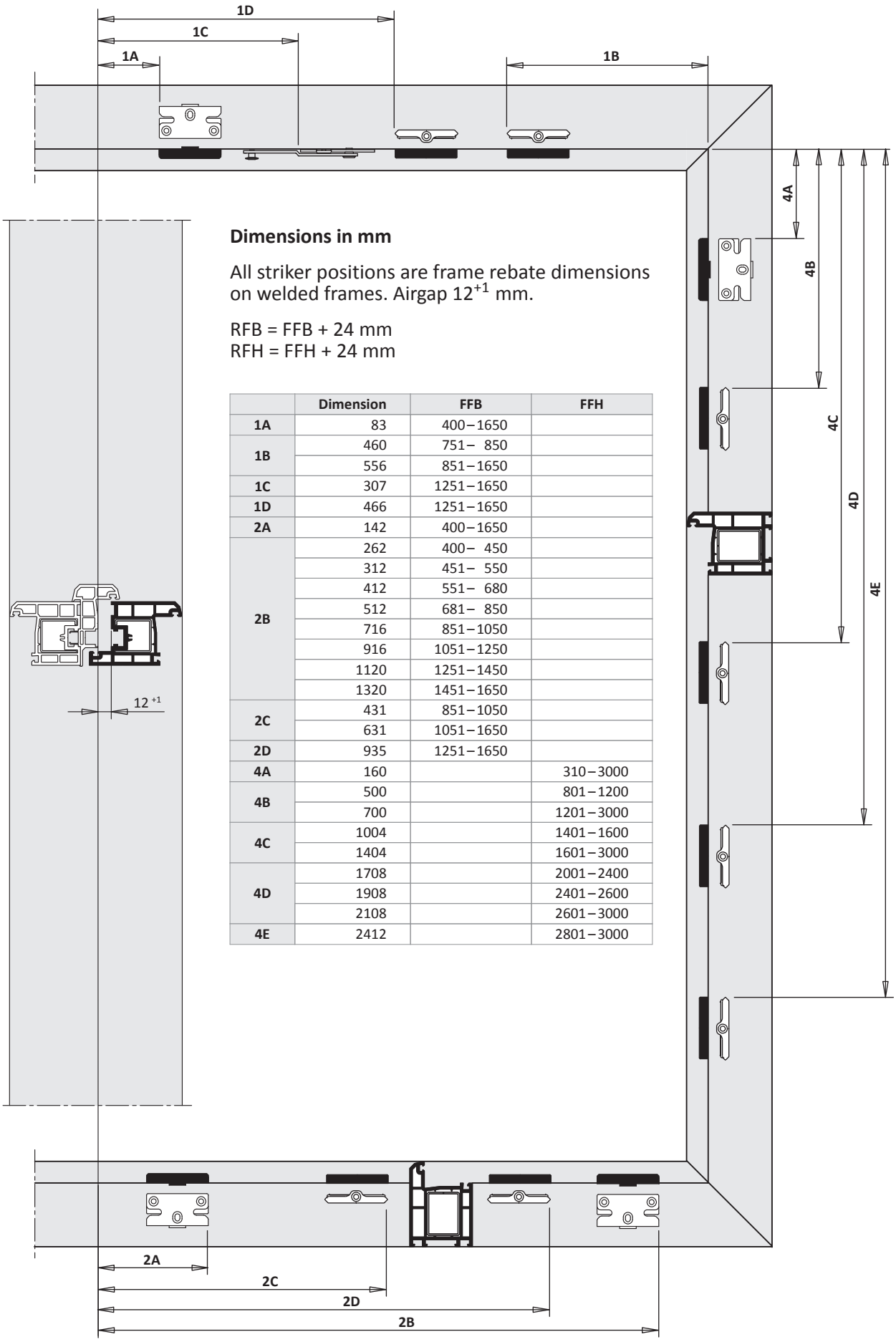


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	460	751– 850	
	556	851–1450	
1C	252	1251–1450	
2A	130	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1108	1251–1450	
2C	419	851–1050	
	619	1051–1450	
2D	923	1251–1450	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

Bottom: Inliner

1-sash square tilt-turn	H48.TAFKFM1S001EN	5 - 3
2-sash square tilt-turn/turn DS 16	H48.TAFKFM1S002EN	5 - 9
2-sash square tilt-turn/turn DS BAN	H48.TAFKFM1S016EN	5 - 17
Tilt before turn (TBT)		
1-sash square tilt before turn (TBT)	H48.TAFKFM1S005EN	5 - 25
Locking-points distance 700		
1-sash square tilt-turn	H48.TAFKFM1S301EN	5 - 31
2-sash square tilt-turn/turn DS 16	H48.TAFKFM1S302EN	5 - 37

Bottom: Double cam SB R-RS

1-sash square tilt-turn	H48.TAFKFM1S401EN	5 - 47
2-sash square tilt-turn/turn DS 16	H48.TAFKFM1S402EN	5 - 53
Locking-points distance 700		
1-sash square tilt-turn	H48.TAFKFM1S305EN	5 - 61
2-sash square tilt-turn/turn DS 16	H48.TAFKFM1S306EN	5 - 67

TITAN AF

Installation instructions




RC1

1-sash square tilt-turn

PVC

RC1

centre handle pos. (variable)

Hinge side TITAN

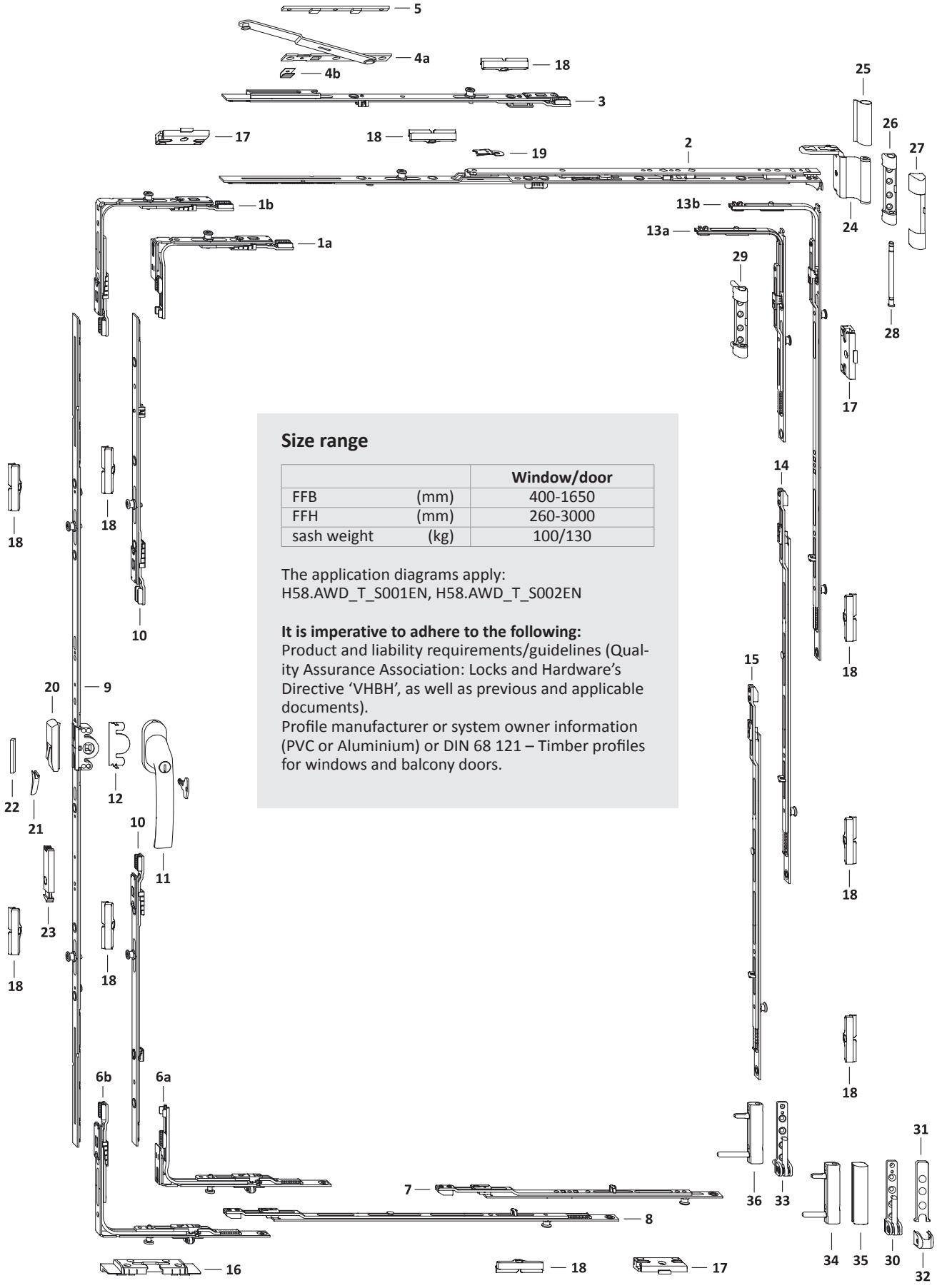
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GM Hinge side TITAN

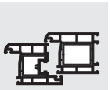
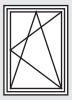


Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	260-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings
1-sash square tilt-turn
PVC GM Hinge side TITAN

TITAN AF

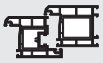
RC1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							16	17	18
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	260– 460			1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	461–3000			1	
2	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 850					
	stay AF sz 3 1RS	TSKK2030- ...		851–1050					1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250					1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450					1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650					1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650					1
4	additional stay	Ref. PDB, TSZS	1	1251–1650					
5	packer Z	Ref. PDB, FRUP01	1	1251–1650					
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	400– 850	260– 460		1		
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	461–3000		1		
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1	
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					1
9	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	260– 460	130– 230			
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300			
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400			
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600			1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800			1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000			2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500			2
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800				2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				2
11	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		260–3000				
12	anti-drill guard E	TGBS0010- ...	1		260–3000				
13a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		260– 800			1	
13b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
16	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
17	striker plate S-RS	Ref. PDB, TRSK							
18	striker plate S 56	Ref. PDB, TRSM							
on request									
19	tilt restrictor ..	TFKB0010- ...	1		260– 800				
20	mishandling device	TFBS0010- ...	1						
21	pressure piece	Ref. PDB, TFFD	1						
22	stop	Ref. PDB, FRZF01	1						
23	snapper rh.	TFST0021- ...	1		1601–3000				
	snapper lh.	TFST0022- ...			1601–3000				

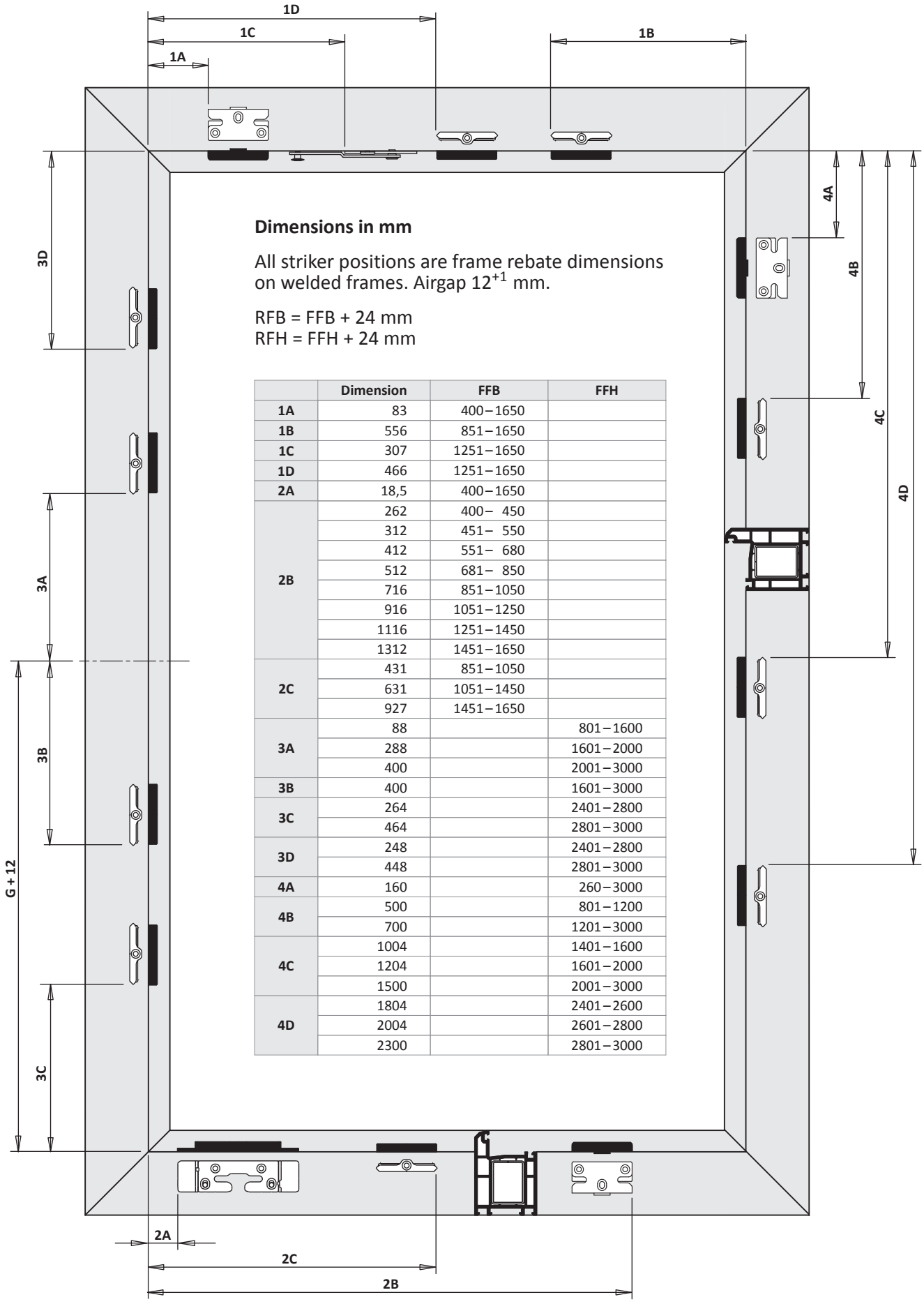
List of fittings

1-sash square tilt-turn
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
24	stay hinge DH	Ref. PDB, TBWB61			1	1
25	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
26	top hinge 100kg	Ref. PDB, TBSL61			1	
27	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
28	top hinge pin Poly	TBSB6020-1 ...			1	1
29	top hinge 130kg	Ref. PDB, TBSL62				1
30	bottom hinge 100kg	Ref. PDB, TBEL01			1	
31	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
32	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
33	bottom hinge 130kg	Ref. PDB, TBEL02				1
34	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
35	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
36	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

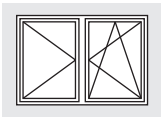
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

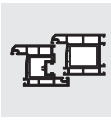
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	88		801–1600
	288		1601–2000
	400		2001–3000
3B	400		1601–3000
3C	264		2401–2800
	464		2801–3000
3D	248		2401–2800
	448		2801–3000
4A	160		260–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





RC1

2-sash square tilt-turn/turn DS 16

PVC

RC1

centre handle pos. (variable)

Hinge side TITAN

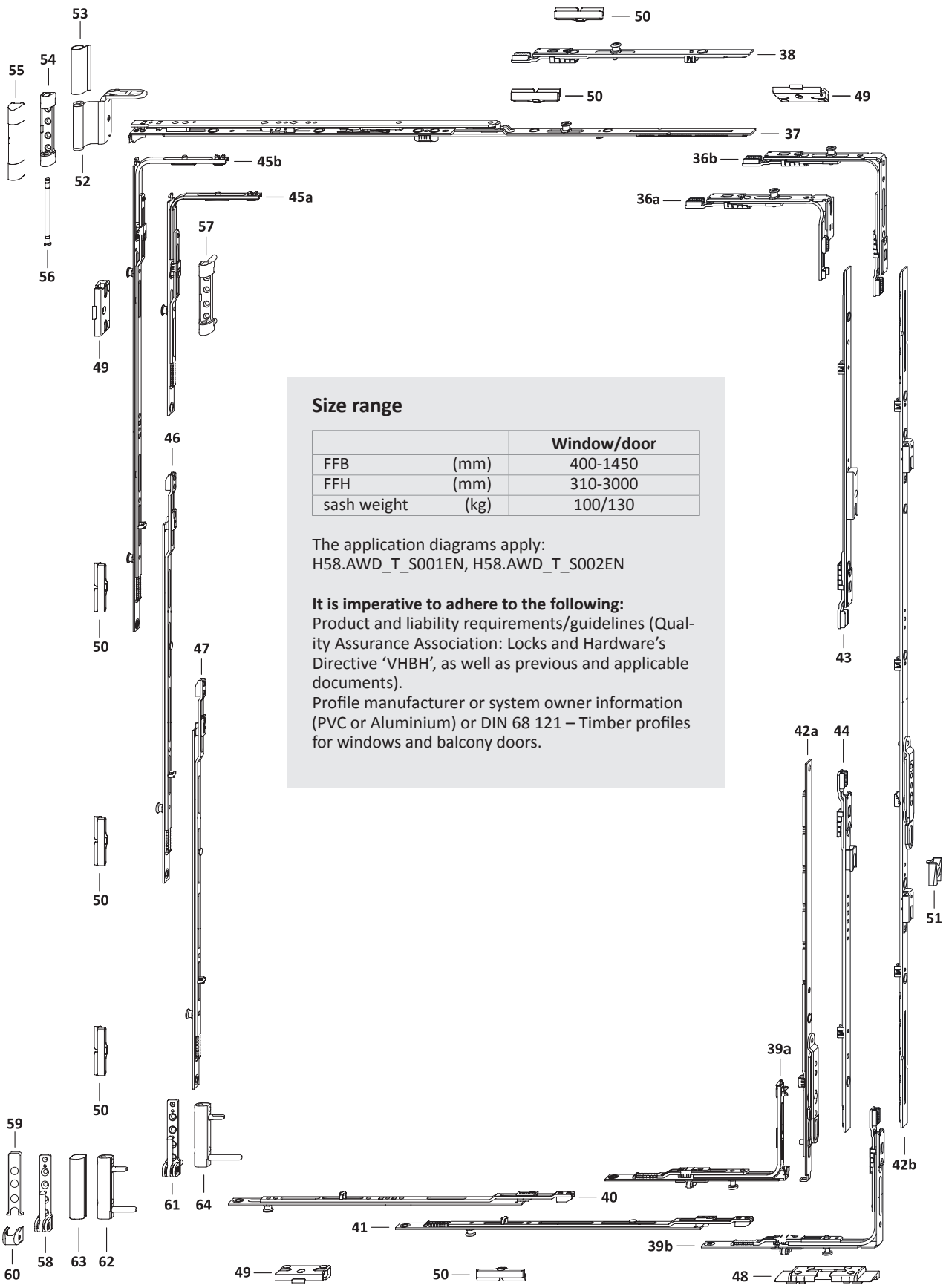
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

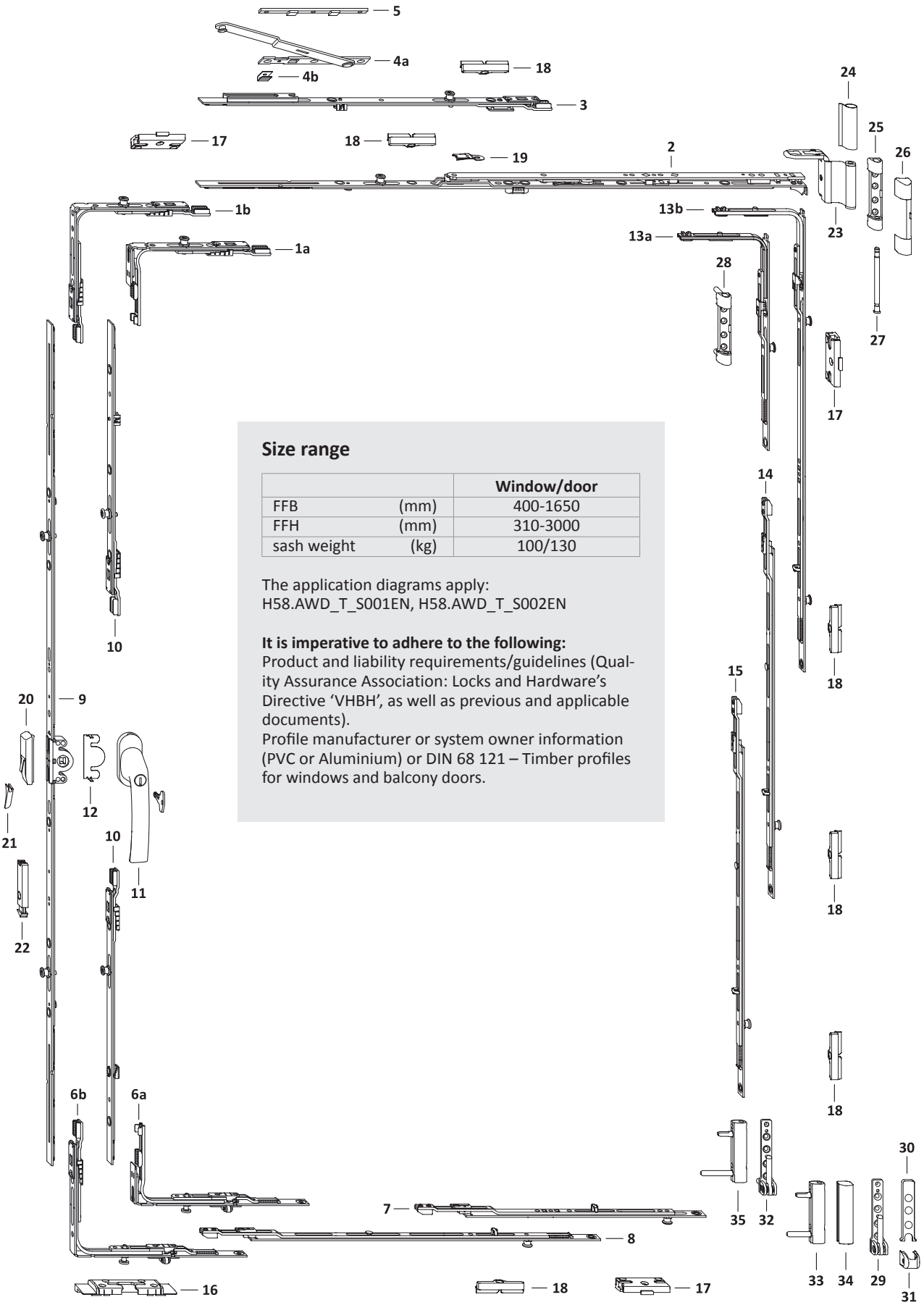


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
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Size range

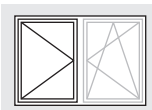
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

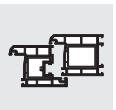
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

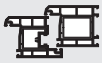
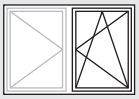
2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	48	49	50
36a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460			1	
36b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1450	461–3000			1	
37	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 850					
	stay AF sz 3 1RS	TSKK2030- ...		851–1050					1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450					1
38	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450					1
39a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1450	461– 800		1		
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 460		1		
39b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1450	801–3000		1		
40	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1	
41	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
42a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400– 850	310– 460	155– 230			
	sec.sash gear 16 sz 30	TGKS0010- ...			461– 600	230– 300			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300– 400			
42b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801–1200	400– 600			
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201–1600	600– 800			
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000			
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001–3000	1000–1500			
43	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
44	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800				
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000				
45a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1	
45b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
46	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
47	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
48	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
49	striker plate S-RS	Ref. PDB, TRSK							
50	striker plate S 56	Ref. PDB, TRSM							
on request									
51	striker snapper AF A0767	TRST0100- ...	1		1601–3000				

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
52	stay hinge DH	Ref. PDB, TBWB61			1	1
53	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
54	top hinge 100kg	Ref. PDB, TBSL61			1	
55	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
56	top hinge pin Poly	TBSB6020-1 ...			1	1
57	top hinge 130kg	Ref. PDB, TBSL62				1
58	bottom hinge 100kg	Ref. PDB, TBEL01			1	
59	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
60	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
61	bottom hinge 130kg	Ref. PDB, TBEL02				1
62	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
63	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
64	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

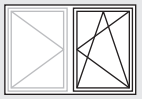
TITAN AF

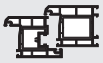
RC1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							16	17	18
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460			1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	461–3000			1	
2	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 850					
	stay AF sz 3 1RS	TSKK2030- ...		851–1050					1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250					1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450					1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650					1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650					1
4	additional stay	Ref. PDB, TSZS	1	1251–1650					
5	packer Z	Ref. PDB, FRUP01	1	1251–1650					
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	400– 850	310– 460		1		
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	461–3000		1		
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1	
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					1
9	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	310– 460	155– 230			
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300			
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400			
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600			
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800			
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000			
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500			
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				
11	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000				
12	anti-drill guard E	TGBS0010- ...	1		310–3000				
13a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1	
13b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
16	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
17	striker plate S-RS	Ref. PDB, TRSK							
18	striker plate S 56	Ref. PDB, TRSM							
on request									
19	tilt restrictor ..	TFKB0010- ...	1		310– 800				
20	mishandling device	TFBS0010- ...	1		601–3000				
21	pressure piece	Ref. PDB, TFFD	1		601–3000				
22	snapper rh.	TFST0021- ...	1		1601–3000				
	snapper lh.	TFST0022- ...			1601–3000				

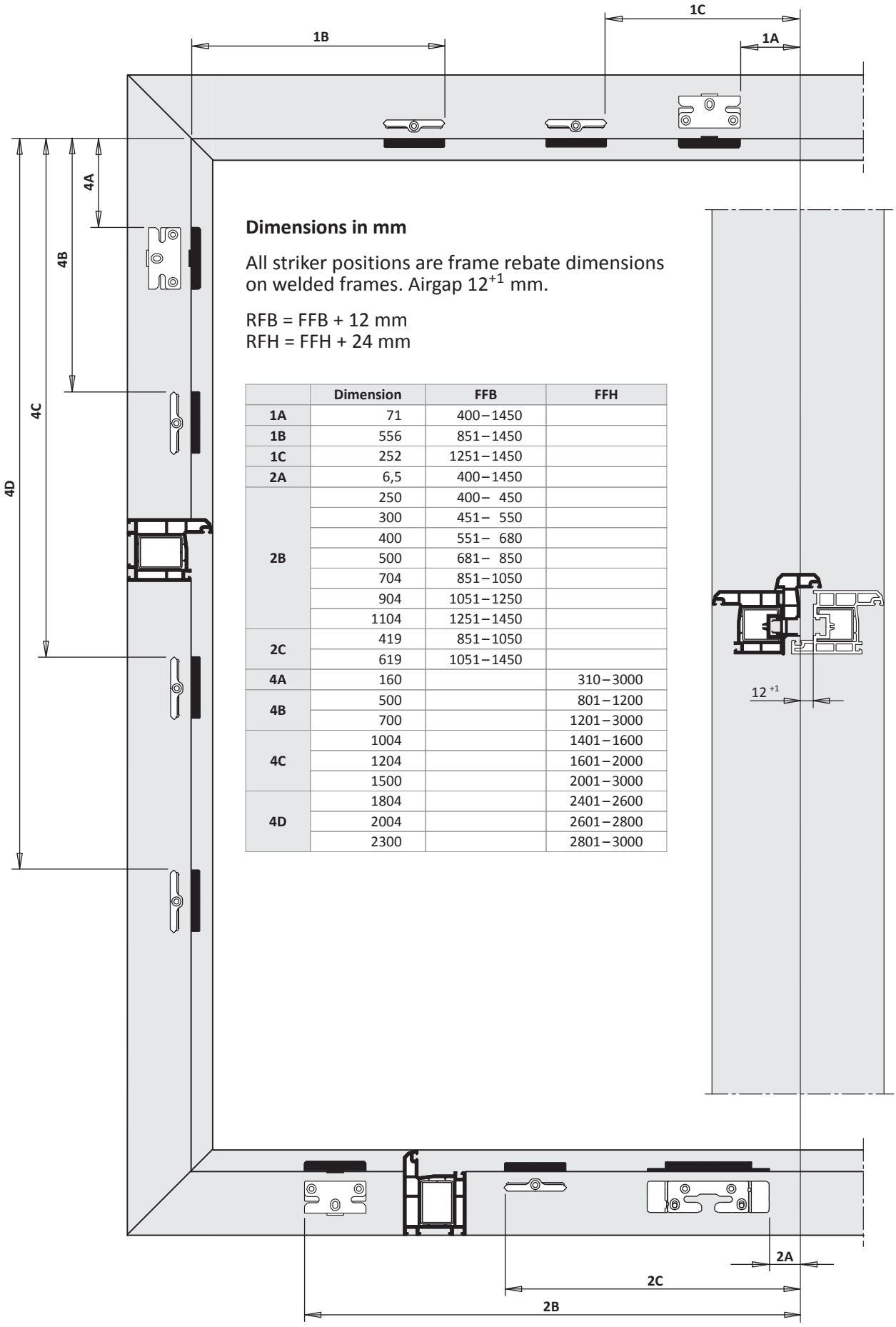
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
23	stay hinge DH	Ref. PDB, TBWB61			1	1
24	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
25	top hinge 100kg	Ref. PDB, TBSL61			1	
26	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
27	top hinge pin Poly	TBSB6020-1 ...			1	1
28	top hinge 130kg	Ref. PDB, TBSL62				1
29	bottom hinge 100kg	Ref. PDB, TBEL01			1	
30	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
31	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
32	bottom hinge 130kg	Ref. PDB, TBEL02				1
33	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
34	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
35	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

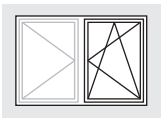
RFB = FFB + 12 mm
RFH = FFH + 24 mm

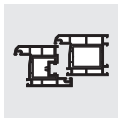
	Dimension	FFB	FFH
1A	71	400–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	6,5	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1104	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

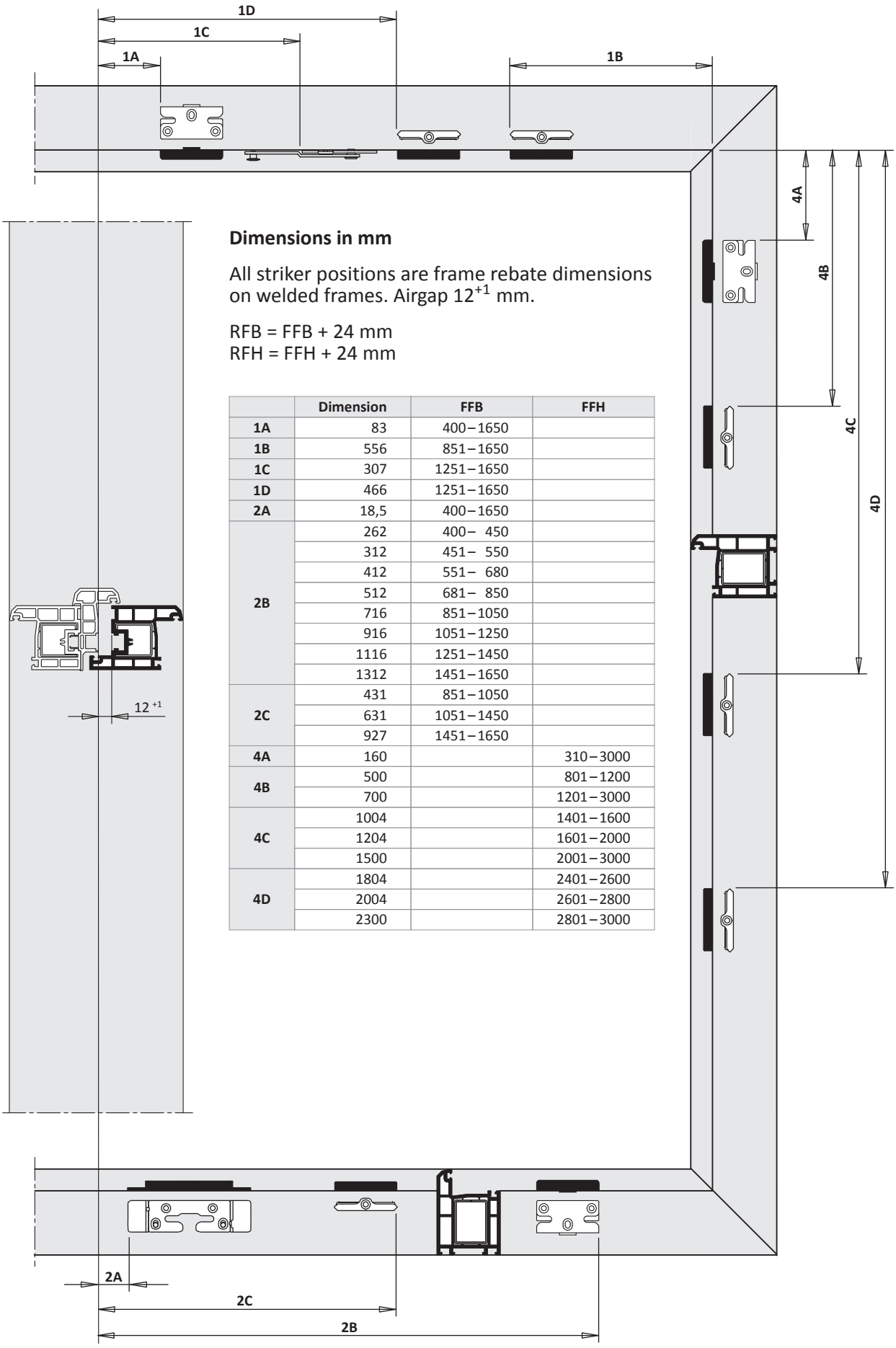
5

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN







Dimensions in mm

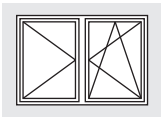
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

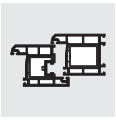
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





RC1

2-sash square tilt-turn/turn DS 16 fitting groove

PVC

RC1

centre handle pos. (variable)

Hinge side TITAN

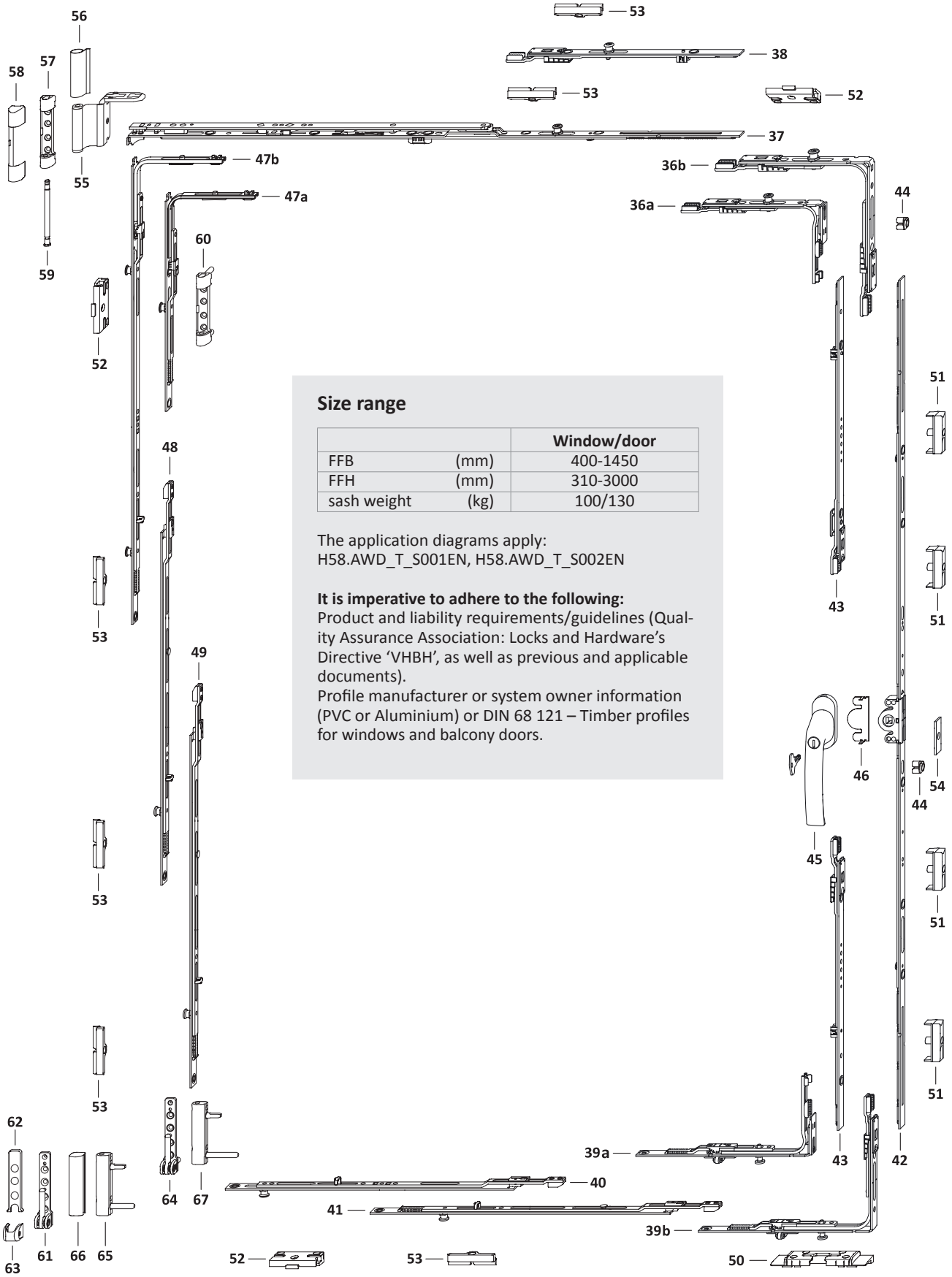
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN

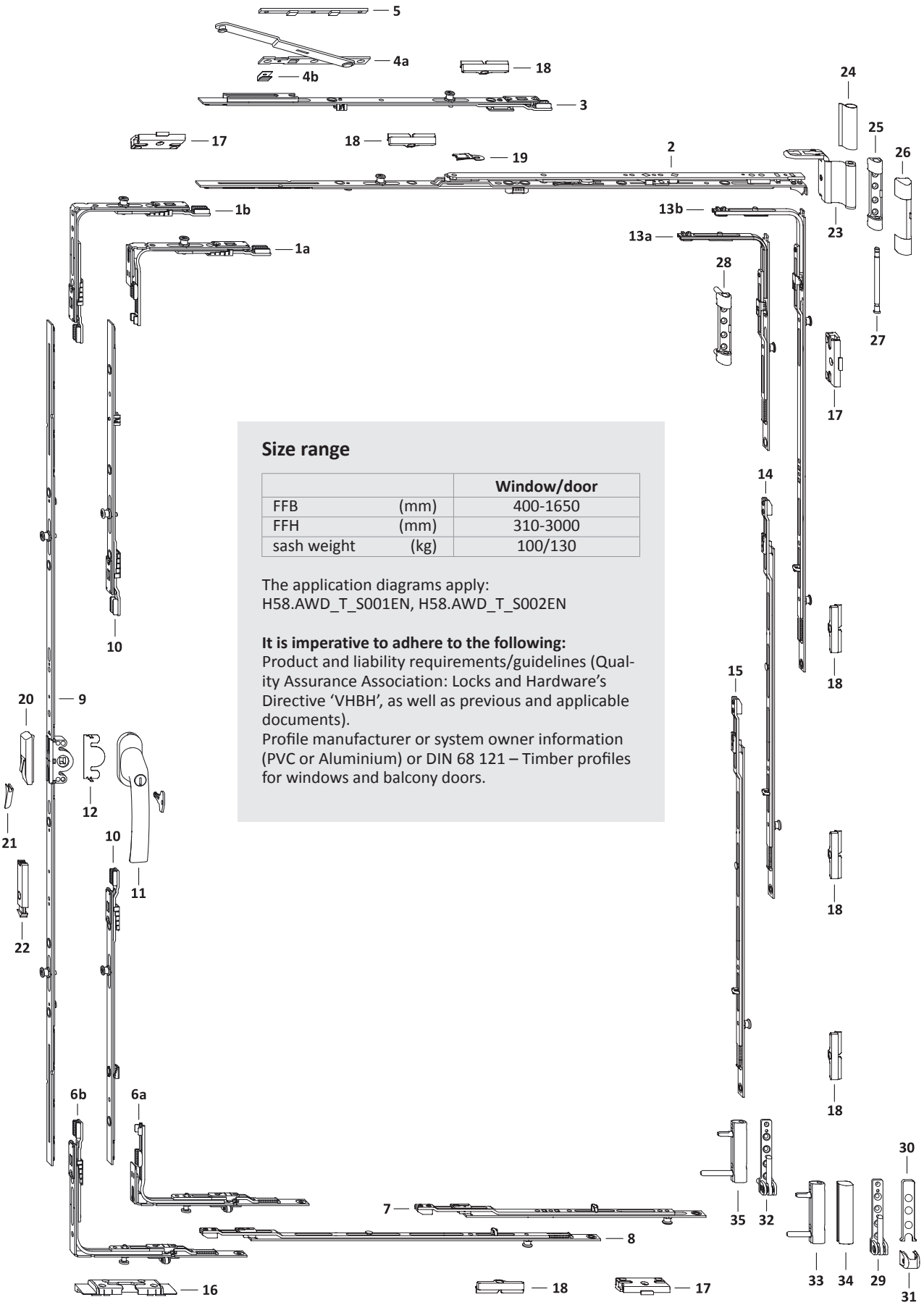


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

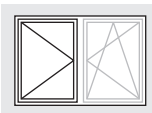
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

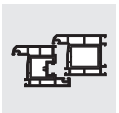
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

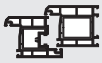
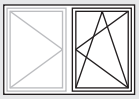
2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.			
						In the main sash	50	51	52	53
36a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400 – 850	310 – 460				1	
36b	corn.drive VSO 1RS	TEUL4010- ...	1	400 – 1450	461 – 3000				1	
37	stay AF sz 0	TSKK2000- ...	1	400 – 450						
	stay AF sz 1	TSKK2010- ...		451 – 680						
	stay AF sz 2	TSKK2020- ...		681 – 850						
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050						1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1450						1
38	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251 – 1450						1
39a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	400 – 850	310 – 460		1			
39b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400 – 1450	461 – 3000		1			
40	extension sz 1+ 1RS	TVSO0200- ...	1	400 – 450					1	
	extension sz 2+ 1RS	TVSL0320- ...		451 – 550					1	
	extension sz 3+ 1RS	TVSL0330- ...		551 – 680					1	
	extension sz 4+ 1RS	TVSL0340- ...		681 – 850					1	
	extension sz 3+ 1RS	TVSL0330- ...		851 – 1250					1	
	extension sz 5+ 1RS	TVSL0350- ...		1251 – 1450					1	
41	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050						1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450						1
42	gear 15 AF sz 20	TGMK4010- ...	1	400 – 850	310 – 460	155 – 230				
	gear 15 AF sz 20	TGMK4010- ...			461 – 600	230 – 300				
	gear 15 AF sz 60	TGMK4020- ...			601 – 1000	300 – 500				
	gear 15 AF sz 80 1RS	TGMK9080- ...			1001 – 1200	500 – 600		1		
	gear 15 AF sz 120 1RS	TGMK9090- ...			1201 – 1600	600 – 800		1		
	gear 15 AF sz 160 2RS 70	TGMK9120- ...			1601 – 2000	800 – 1000		2		
	gear 15 AF sz 200 2RS	TGMK9110- ...			2001 – 3000	1000 – 1500		2		
43	linkage KK/AF sz 1 1RS	TZKS1040- ...	2		2401 – 2800			2		
	linkage KK/AF sz 2 1RS	TZKS1050- ...			2801 – 3000			2		
44	travel restrictor	TFHB0010- ...	1		310 – 3000					
45	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310 – 3000					
46	anti-drill guard E	TGBS0010- ...	1		310 – 3000					
47a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310 – 800				1	
47b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200				1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000				1	1
48	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000					1
49	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000					1
50	tilt lock bear. S-ES FH	Ref. PDB, FRKA								
51	striker plate 56 A2000	TRSB0030- ...								
52	striker plate S-RS	Ref. PDB, TRSK								
53	striker plate S 56	Ref. PDB, TRSM								
on request										
54	stop 2,2mm	710937	1		601 – 3000					

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
55	stay hinge DH	Ref. PDB, TBWB61			1	1
56	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
57	top hinge 100kg	Ref. PDB, TBSL61			1	
58	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
59	top hinge pin Poly	TBSB6020-1 ...			1	1
60	top hinge 130kg	Ref. PDB, TBSL62				1
61	bottom hinge 100kg	Ref. PDB, TBEL01			1	
62	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
63	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
64	bottom hinge 130kg	Ref. PDB, TBEL02				1
65	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
66	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
67	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN

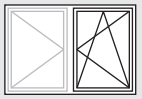
TITAN AF

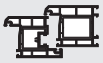
RC1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							16	17	18
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460			1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	461–3000			1	
2	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 850					
	stay AF sz 3 1RS	TSKK2030- ...		851–1050					1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250					1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450					1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650					1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650					1
4	additional stay	Ref. PDB, TSZS	1	1251–1650					
5	packer Z	Ref. PDB, FRUP01	1	1251–1650					
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	400– 850	310– 460		1		
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	461–3000		1		
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1	
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					1
9	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	310– 460	155– 230			
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300			
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400			
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600			
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800			
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000			
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500			
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				
11	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000				
12	anti-drill guard E	TGBS0010- ...	1		310–3000				
13a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1	
13b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
16	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
17	striker plate S-RS	Ref. PDB, TRSK							
18	striker plate S 56	Ref. PDB, TRSM							
on request									
19	tilt restrictor ..	TFKB0010- ...	1		310– 800				
20	mishandling device	TFBS0010- ...	1		601–3000				
21	pressure piece	Ref. PDB, TFFD	1		601–3000				
22	snapper rh.	TFST0021- ...	1		1601–3000				
	snapper lh.	TFST0022- ...			1601–3000				

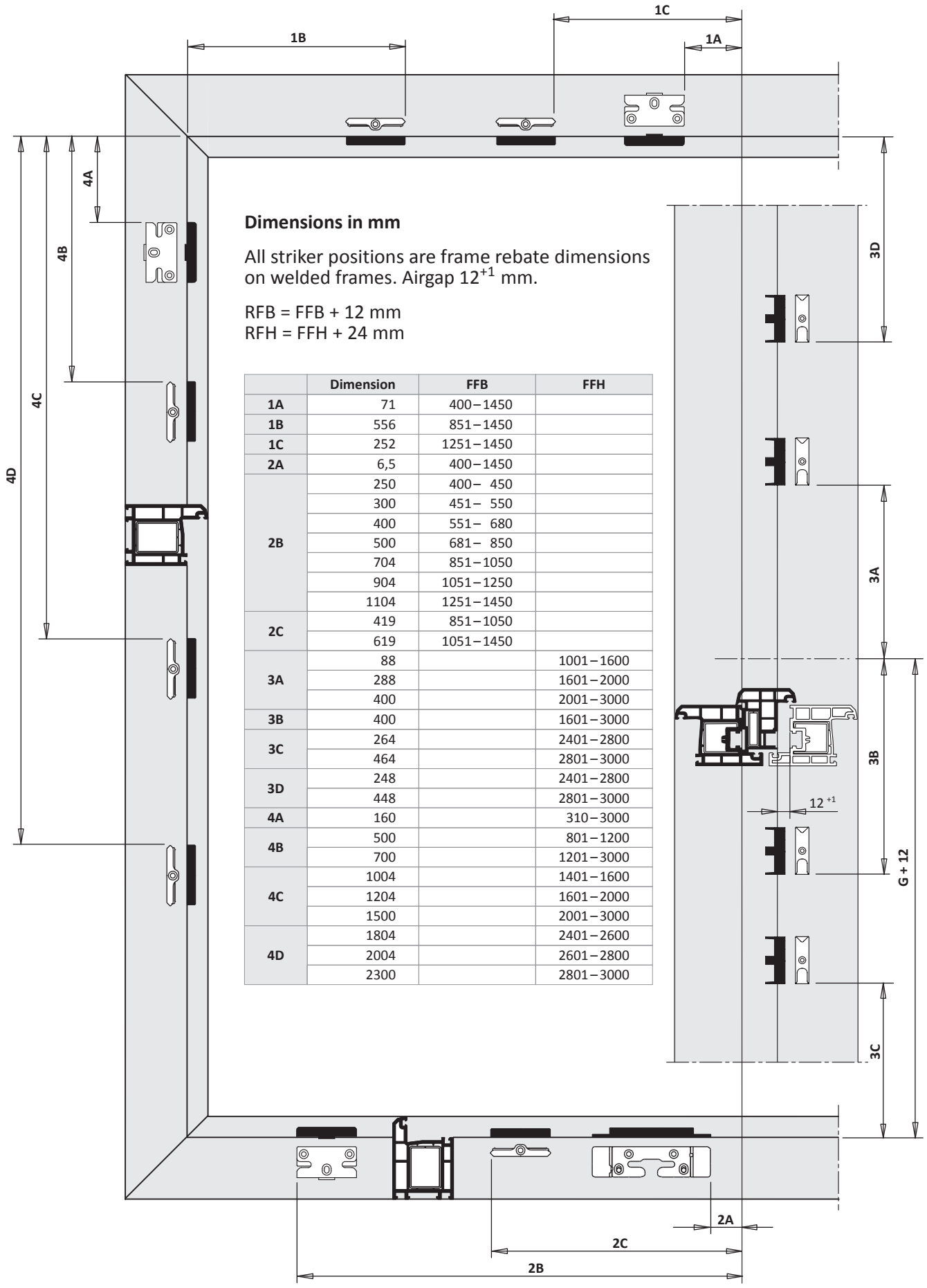
List of fittings main sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
23	stay hinge DH	Ref. PDB, TBWB61			1	1
24	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
25	top hinge 100kg	Ref. PDB, TBSL61			1	
26	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
27	top hinge pin Poly	TBSB6020-1 ...			1	1
28	top hinge 130kg	Ref. PDB, TBSL62				1
29	bottom hinge 100kg	Ref. PDB, TBEL01			1	
30	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
31	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
32	bottom hinge 130kg	Ref. PDB, TBEL02				1
33	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
34	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
35	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

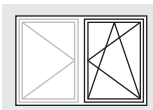
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

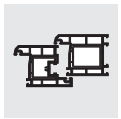
RFB = FFB + 12 mm
RFH = FFH + 24 mm

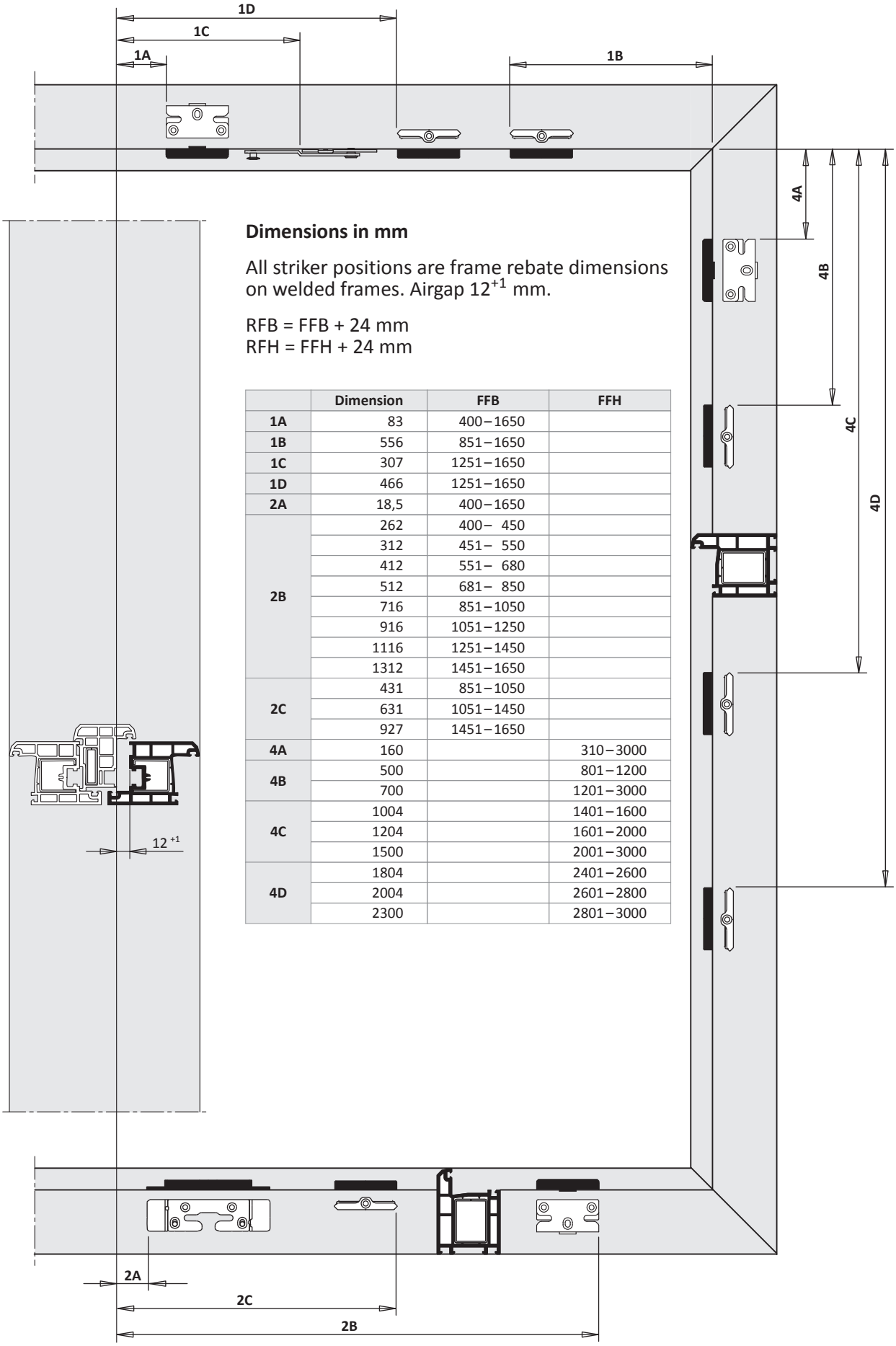
	Dimension	FFB	FFH
1A	71	400–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	6,5	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1104	1251–1450	
2C	419	851–1050	
	619	1051–1450	
3A	88		1001–1600
	288		1601–2000
	400		2001–3000
3B	400		1601–3000
3C	264		2401–2800
	464		2801–3000
3D	248		2401–2800
	448		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN







Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions




RC1

1-sash square tilt before turn (TBT)

PVC

RC1

centre handle pos. (variable)

Hinge side TITAN

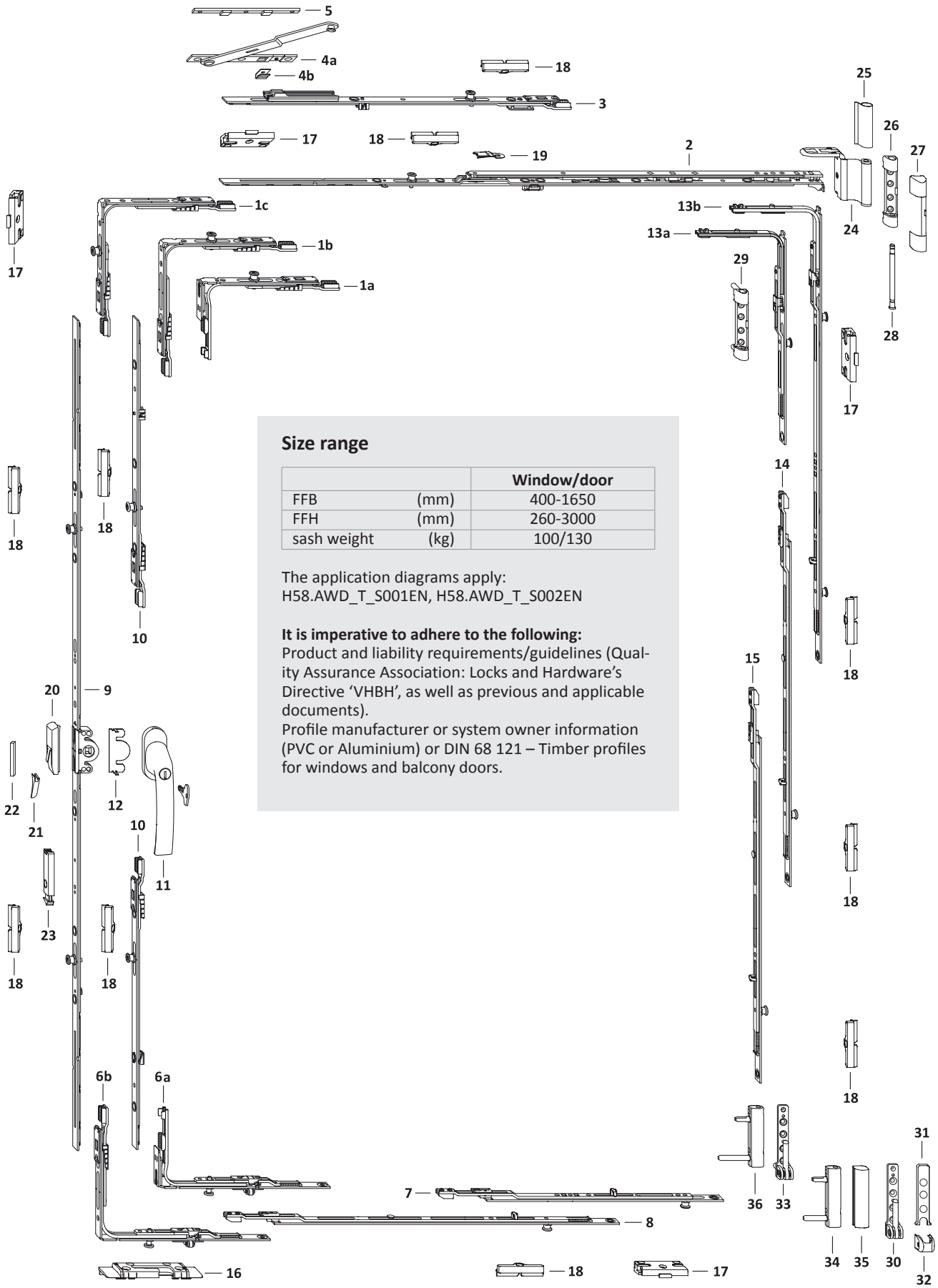
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt before turn (TBT)
PVC GM Hinge side TITAN

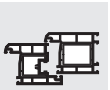
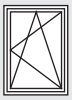


Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	260-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

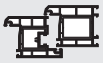



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							16	17	18
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	260– 460			1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1250	461–3000			1	
1c	corn.drive VSO 1RS	TEUL4010- ...	1	1251–1650	461–3000			1	
2	stay AF TBT sz 0	TSKT2000- ...	1	400– 450					
	stay AF TBT sz 1	TSKT2010- ...		451– 680					
	stay AF TBT sz 2 1RS	TSKT2120- ...		681– 850					
	stay AF TBT sz 3 1RS	TSKT2030- ...		851–1050					1
	stay AF TBT sz 4 1RS	TSKT2040- ...		1051–1250					1
	stay AF TBT sz 3 1RS	TSKT2030- ...		1251–1450					1
	stay AF TBT sz 4 1RS	TSKT2040- ...		1451–1650					1
3	linkage add. stay AF TBT RS	TZOT1010- ...	1	1251–1650					1
4	additional stay	Ref. PDB, TSZS	1	1251–1650					
5	packer Z	Ref. PDB, FRUP01	1	1251–1650					
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	400– 850	260– 460		1		
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	461–3000		1		
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1	
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					1
9	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	260– 460	130– 230			
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300			
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400			
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600			1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800			1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000			2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500			2
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800				2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				2
11	handle Globe TBT lockable	Ref.access. ZHGT	1		260–3000				
12	anti-drill guard E	TGBS0010- ...	1		260–3000				
13a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		260– 800			1	
13b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
16	tilt lock bear. S-ES FH TBT	Ref. PDB, FRKB							
17	striker plate S-RS	Ref. PDB, TRSK							
18	striker plate S 56	Ref. PDB, TRSM							
on request									
19	tilt restrictor ..	TFKB0010- ...	1		260– 800				
20	mishandling device	TFBS0010- ...	1						
21	pressure piece	Ref. PDB, TFFD	1						
22	stop	Ref. PDB, FRZF01	1						
23	snapper rh.	TFST0021- ...	1		1601–3000				
	snapper lh.	TFST0022- ...			1601–3000				

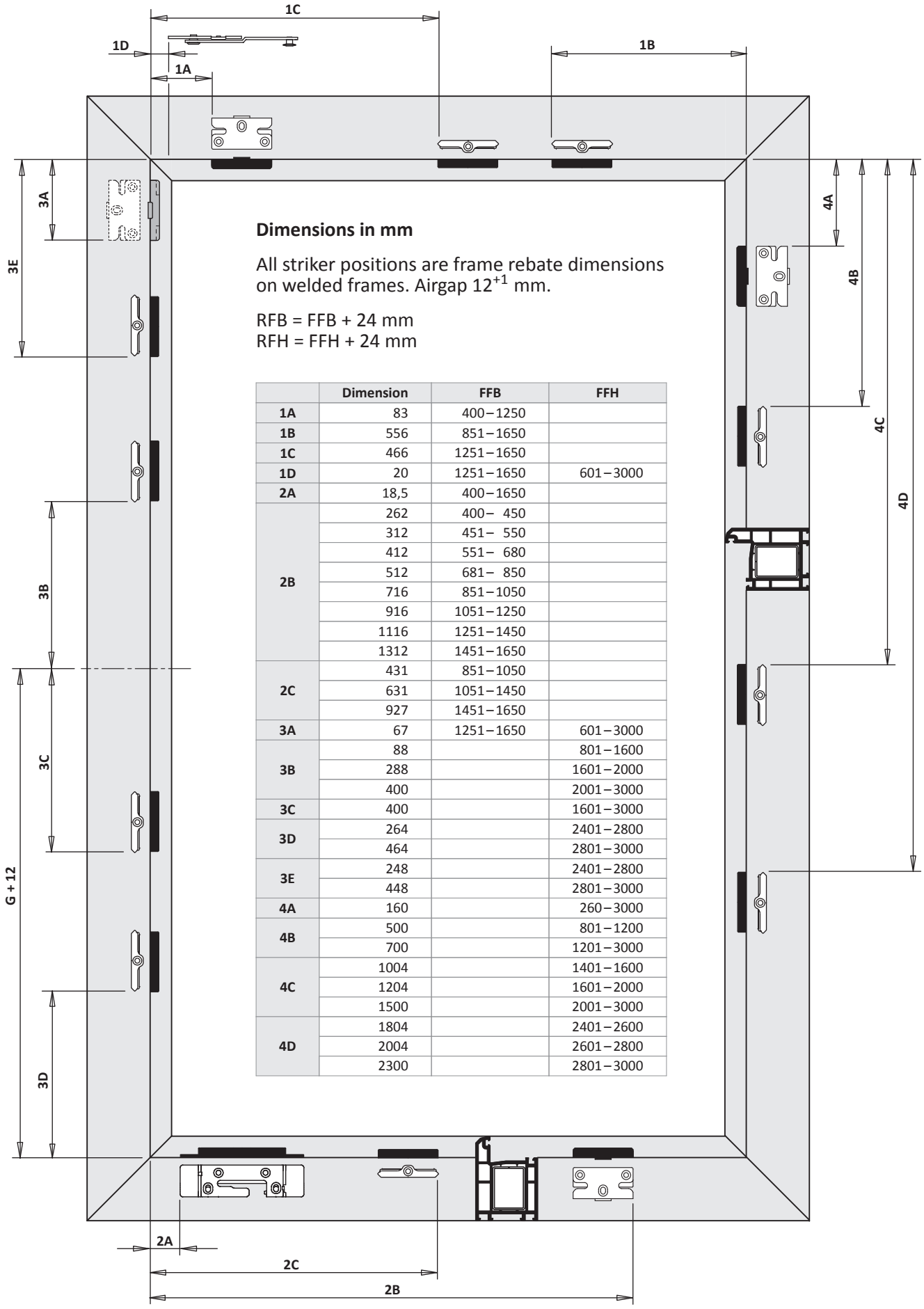
List of fittings

1-sash square tilt before turn (TBT)
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
24	stay hinge DH	Ref. PDB, TBWB61			1	1
25	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
26	top hinge 100kg	Ref. PDB, TBSL61			1	
27	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
28	top hinge pin Poly	TBSB6020-1 ...			1	1
29	top hinge 130kg	Ref. PDB, TBSL62				1
30	bottom hinge 100kg	Ref. PDB, TBEL01			1	
31	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
32	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
33	bottom hinge 130kg	Ref. PDB, TBEL02				1
34	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
35	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
36	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

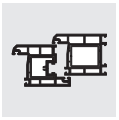
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1250	
1B	556	851–1650	
1C	466	1251–1650	
1D	20	1251–1650	601–3000
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	1251–1650	601–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	160		260–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



RC1

1-sash square tilt-turn

PVC

RC1

centre handle pos. (variable)

Hinge side TITAN

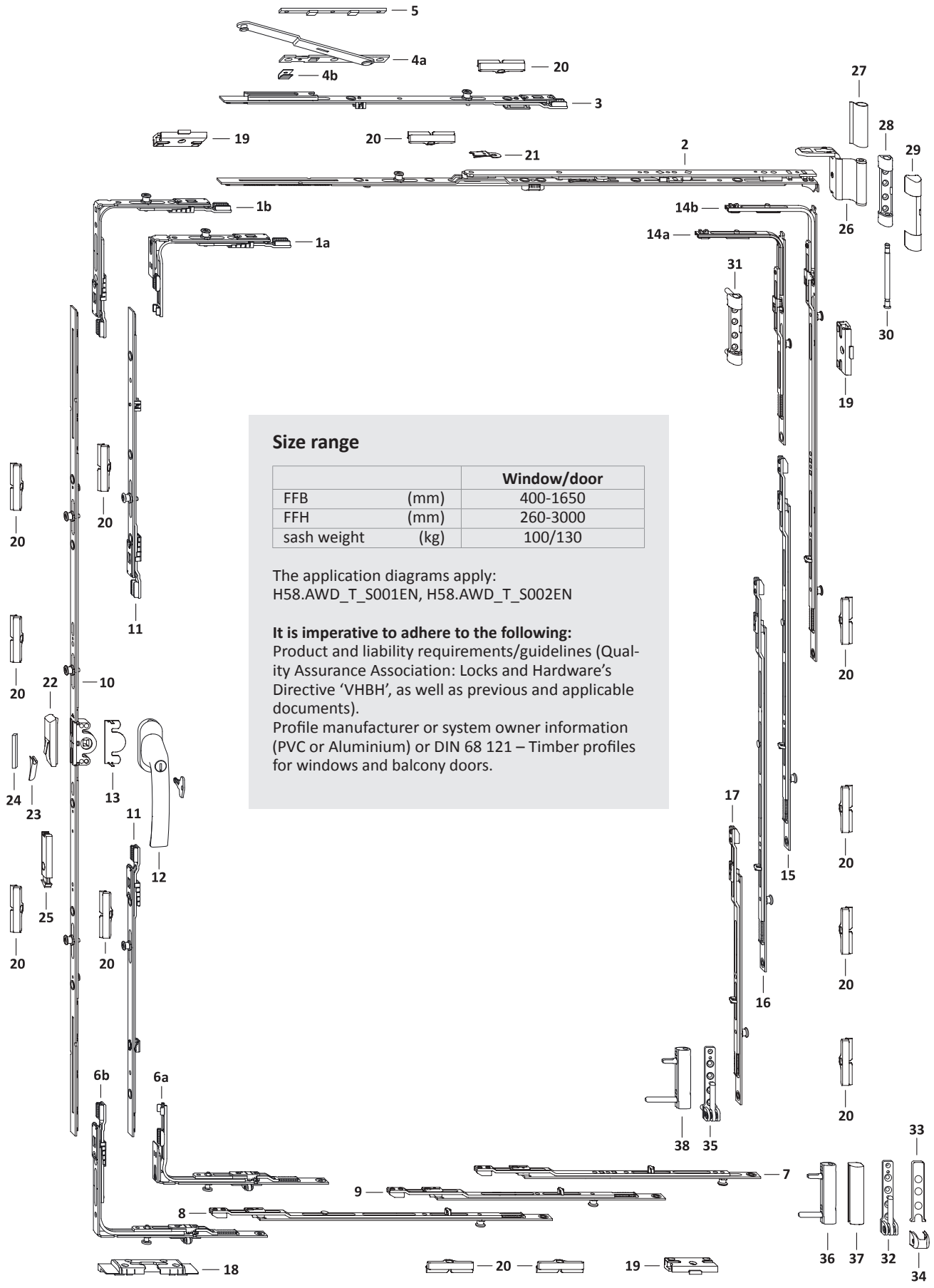
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GM Hinge side TITAN

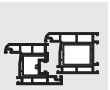
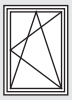


Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	260-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
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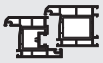



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							18	19	20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	260– 460			1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	461–3000			1	
2	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 750					
	stay AF sz 2 1RS	TSKK2120- ...		751– 850					1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050					1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250					1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450					1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650					1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650					1
4	additional stay	Ref. PDB, TSZS	1	1251–1650					
5	packer Z	Ref. PDB, FRUP01	1	1251–1650					
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	400– 850	260– 460		1		
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	461–3000		1		
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450				1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1	
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650					1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650					1
10	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	260– 460	130– 230			
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300			
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350			
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400			1
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600			1
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800			2
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000			2
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500			3
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800				2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				2
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		260–3000				
13	anti-drill guard E	TGBS0010- ...	1		260–3000				
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		260– 800			1	
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000				1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600				1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000				1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000				1
18	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
19	striker plate S-RS	Ref. PDB, TRSK							
20	striker plate S 56	Ref. PDB, TRSM							
on request									
21	tilt restrictor ..	TFKB0010- ...	1		260– 800				
22	mishandling device	TFBS0010- ...	1						
23	pressure piece	Ref. PDB, TFFD	1						
24	stop	Ref. PDB, FRZF01	1						
25	snapper rh.	TFST0021- ...	1		1601–3000				
	snapper lh.	TFST0022- ...			1601–3000				

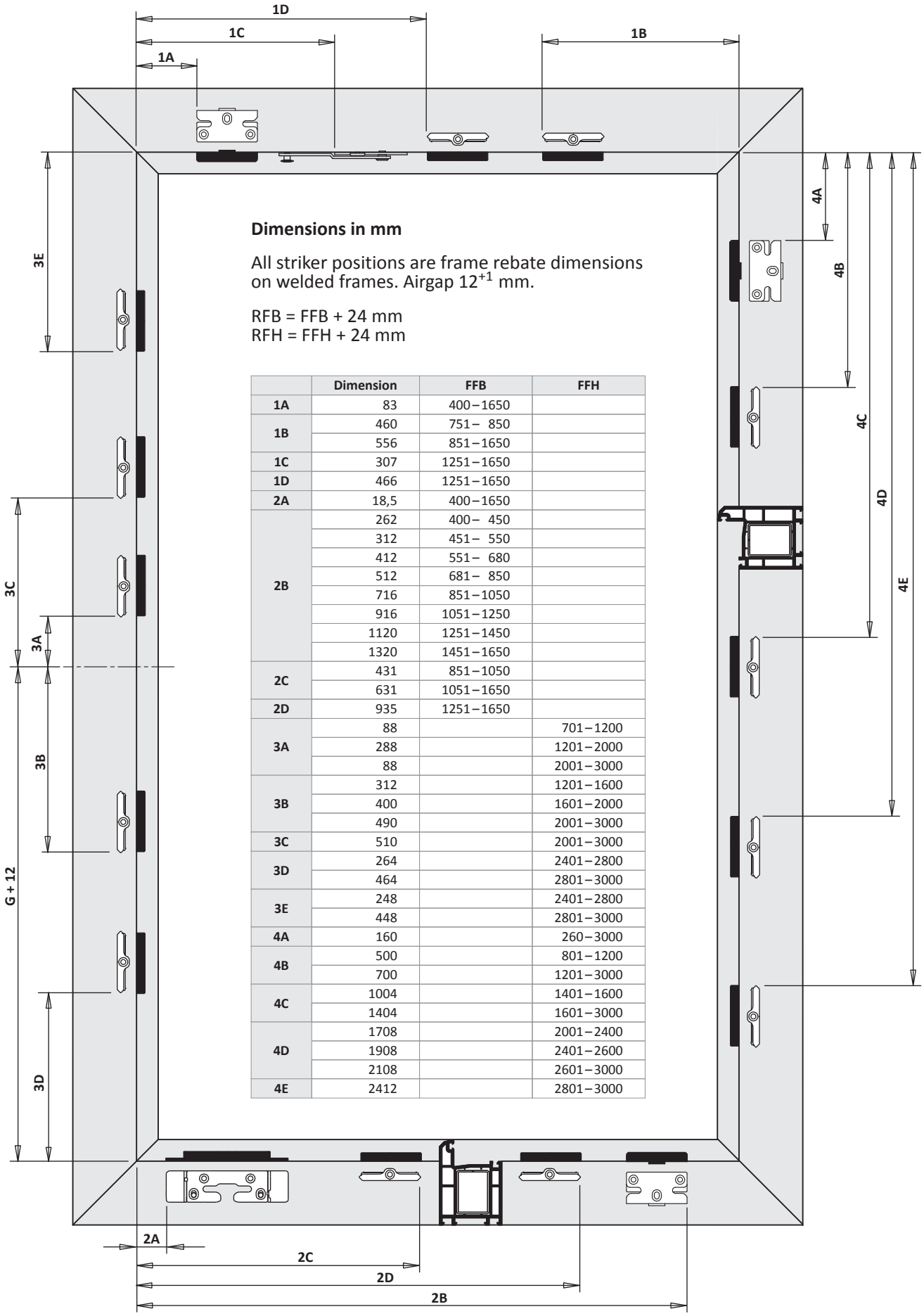
List of fittings

1-sash square tilt-turn
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
26	stay hinge DH	Ref. PDB, TBWB61			1	1
27	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
28	top hinge 100kg	Ref. PDB, TBSL61			1	
29	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
30	top hinge pin Poly	TBSB6020-1 ...			1	1
31	top hinge 130kg	Ref. PDB, TBSL62				1
32	bottom hinge 100kg	Ref. PDB, TBEL01			1	
33	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
34	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
35	bottom hinge 130kg	Ref. PDB, TBEL02				1
36	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
37	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
38	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

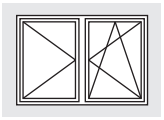
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

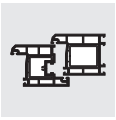
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
3A	88		701–1200
	288		1201–2000
	88		2001–3000
3B	312		1201–1600
	400		1601–2000
	490		2001–3000
3C	510		2001–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	160		260–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

TITAN AF

Installation instructions





RC1

2-sash square tilt-turn/turn DS 16

PVC

RC1

centre handle pos. (variable)

Hinge side TITAN

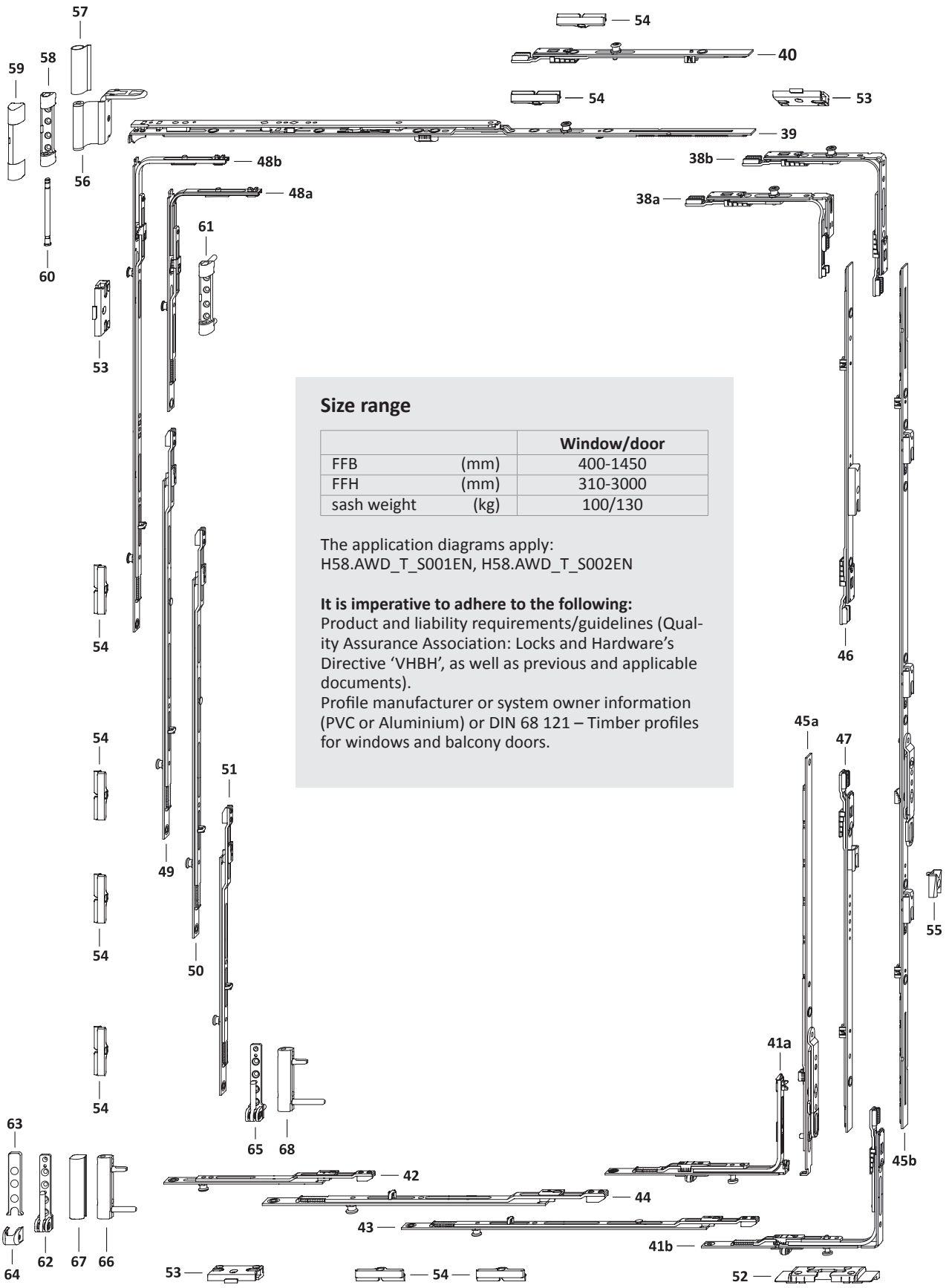
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

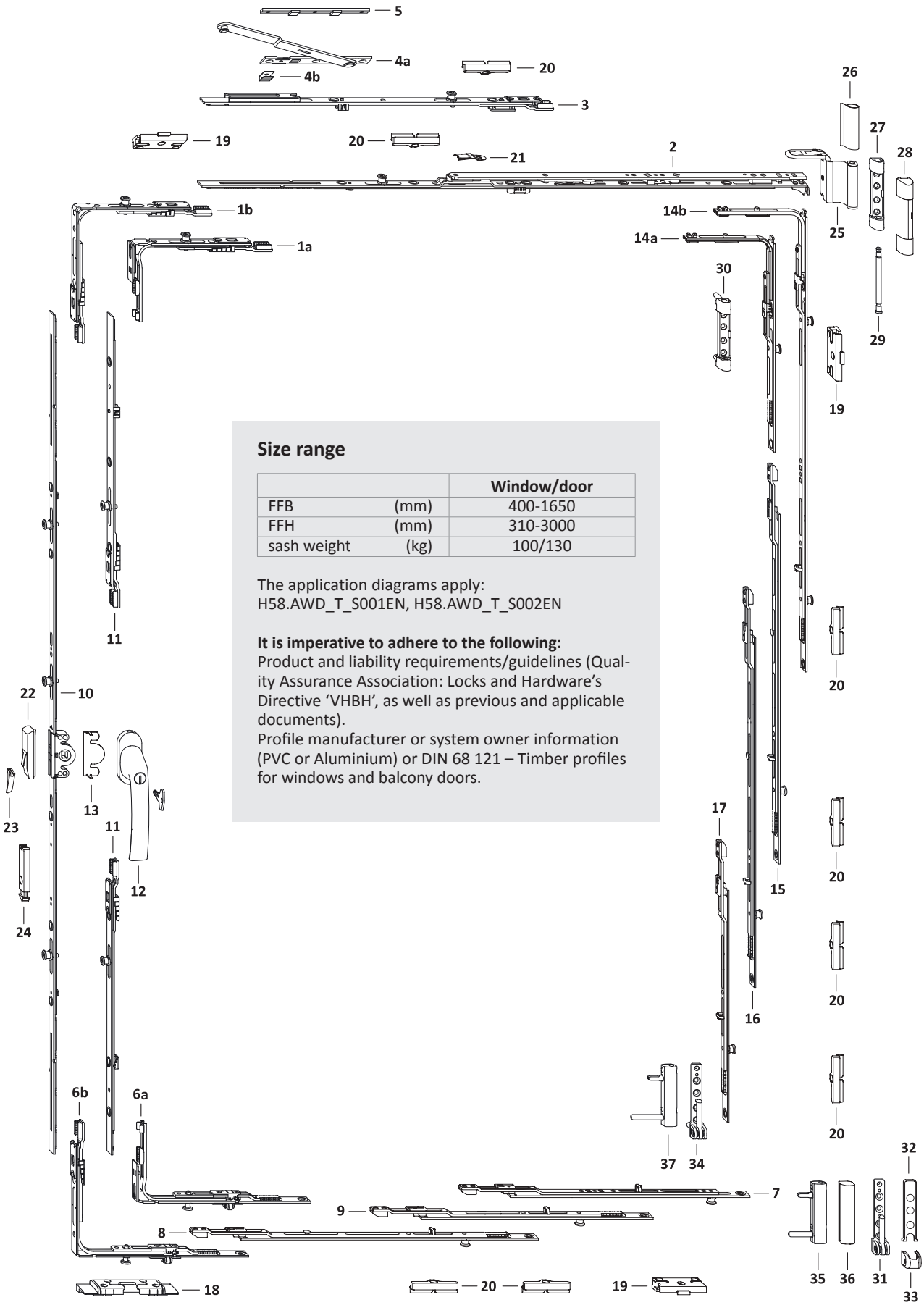


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

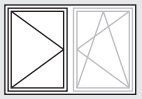
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

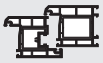
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN



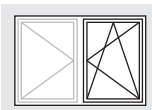


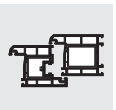
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	52	53	54
38a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460			1	
38b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1450	461–3000			1	
39	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 750					
	stay AF sz 2 1RS	TSKK2120- ...		751– 850					1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050					1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450					1
40	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450					1
41a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1450	461– 700		1		
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 460		1		
41b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1450	701–3000		1		
42	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450				1	
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1450					1
45a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400– 850	310– 460	155– 230			
	sec.sash gear 16 sz 30	TGKS0010- ...			461– 600	230– 300			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300– 350			
45b	sec.sash gear 16 AF sz 70 1SB	TGMS4030- ...	1		701– 800	350– 400			
	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...			801–1200	400– 600			
	sec.sash gear 16 AF 120 2SB 70	TGMS4120- ...			1201–1600	600– 800			
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000			
	sec.sash gear 16 AF 200 3SB 70	TGMS4100- ...			2001–3000	1000–1500			
46	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
47	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800				
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000				
48a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1	
48b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
49	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000				1
50	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600				1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000				1
51	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000				1
52	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
53	striker plate S-RS	Ref. PDB, TRSK							
54	striker plate S 56	Ref. PDB, TRSM							
on request									
55	striker snapper AF A0767	TRST0100- ...	1		1601–3000				

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
56	stay hinge DH	Ref. PDB, TBWB61			1	1
57	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
58	top hinge 100kg	Ref. PDB, TBSL61			1	
59	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
60	top hinge pin Poly	TBSB6020-1 ...			1	1
61	top hinge 130kg	Ref. PDB, TBSL62				1
62	bottom hinge 100kg	Ref. PDB, TBEL01			1	
63	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
64	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
65	bottom hinge 130kg	Ref. PDB, TBEL02				1
66	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
67	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
68	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN



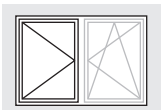


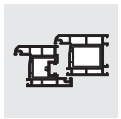
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							18	19	20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460			1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	461–3000			1	
2	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 750					
	stay AF sz 2 1RS	TSKK2120- ...		751– 850					1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050					1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250					1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450					1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650					1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650					1
4	additional stay	Ref. PDB, TSZS	1	1251–1650					
5	packer Z	Ref. PDB, FRUP01	1	1251–1650					
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	400– 850	310– 460		1		
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	461–3000		1		
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450				1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1	
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650					1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650					1
10	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	310– 460	155– 230			
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300			
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350			
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400			
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600			
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800			
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000			
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500			
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000				
13	anti-drill guard E	TGBS0010- ...	1		310–3000				
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1	
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000				1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600				1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000				1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000				1
18	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
19	striker plate S-RS	Ref. PDB, TRSK							
20	striker plate S 56	Ref. PDB, TRSM							
on request									
21	tilt restrictor ..	TFKB0010- ...	1		310– 800				
22	mishandling device	TFBS0010- ...	1						
23	pressure piece	Ref. PDB, TFFD	1						
24	snapper rh.	TFST0021- ...	1		1601–3000				
	snapper lh.	TFST0022- ...			1601–3000				

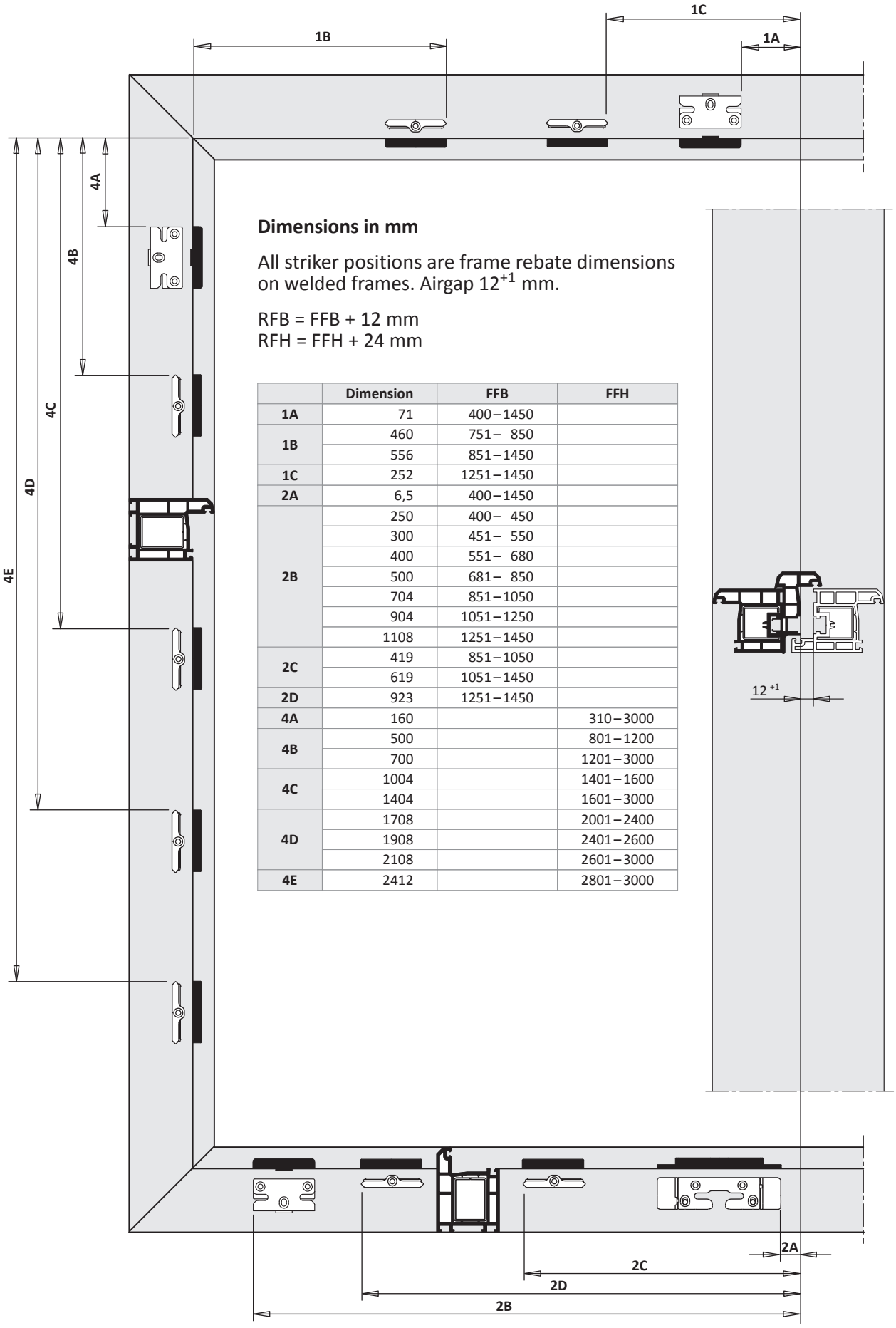
Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
25	stay hinge DH	Ref. PDB, TBWB61			1	1
26	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
27	top hinge 100kg	Ref. PDB, TBSL61			1	
28	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
29	top hinge pin Poly	TBSB6020-1 ...			1	1
30	top hinge 130kg	Ref. PDB, TBSL62				1
31	bottom hinge 100kg	Ref. PDB, TBEL01			1	
32	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
33	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
34	bottom hinge 130kg	Ref. PDB, TBEL02				1
35	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
36	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
37	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





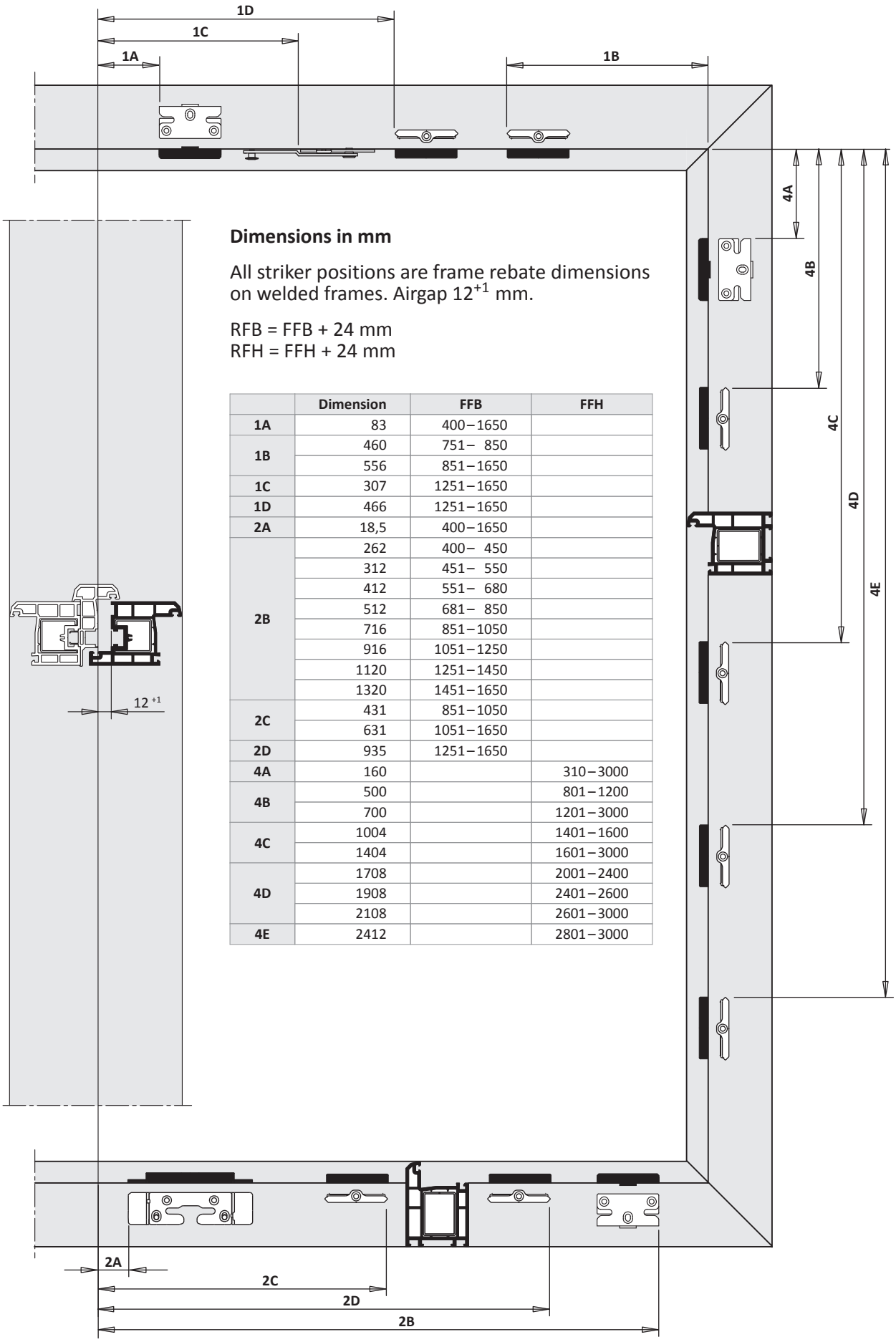


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	460	751– 850	
	556	851–1450	
1C	252	1251–1450	
2A	6,5	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1108	1251–1450	
2C	419	851–1050	
	619	1051–1450	
2D	923	1251–1450	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000



Dimensions in mm

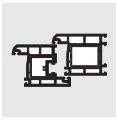
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

TITAN AF

Installation instructions



RC1

1-sash square tilt-turn

PVC

RC1

centre handle pos. (variable)

Hinge side TITAN

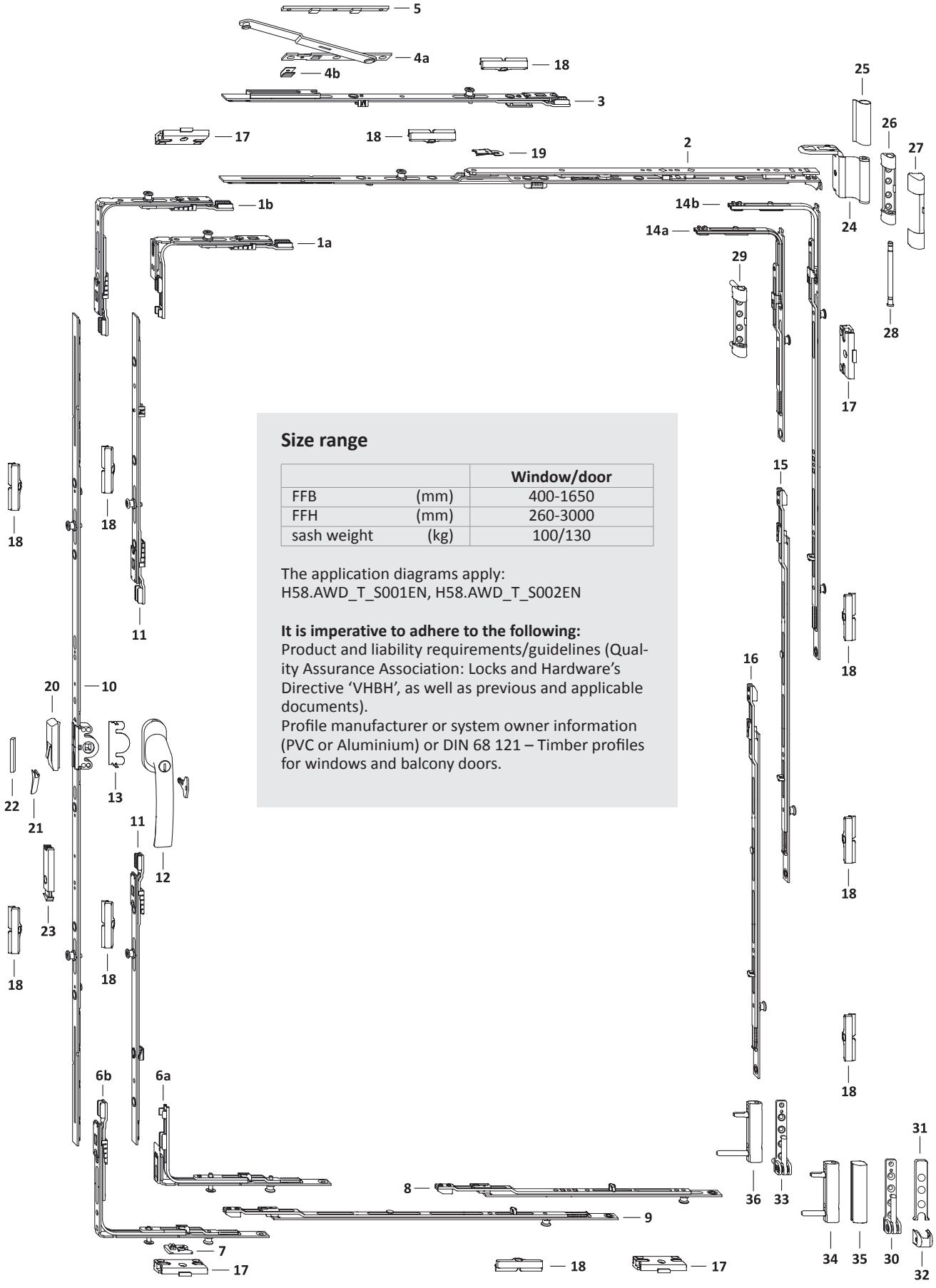
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GM Hinge side TITAN



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	260-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

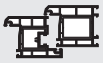
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							17	18
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	260– 460		1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	461–3000		1	
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AFVSU/K56+nar.1S1RS	TEUL5100- ...	1	400– 850	260– 460		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1650	461–3000		1	
7	run up block AF 13 mm 13	TFFH0080- ...	1	400–1650				
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450			1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1	
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
10	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	260– 460	130– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		260–3000			
13	anti-drill guard E	TGBS0010- ...	1		260–3000			
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		260– 800		1	
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
17	striker plate S-RS	Ref. PDB, TRSK						
18	striker plate S 56	Ref. PDB, TRSM						
on request								
19	tilt restrictor ..	TFKB0010- ...	1		260– 800			
20	mishandling device	TFBS0010- ...	1					
21	pressure piece	Ref. PDB, TFFD	1					
22	stop	Ref. PDB, FRZF01	1					
23	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

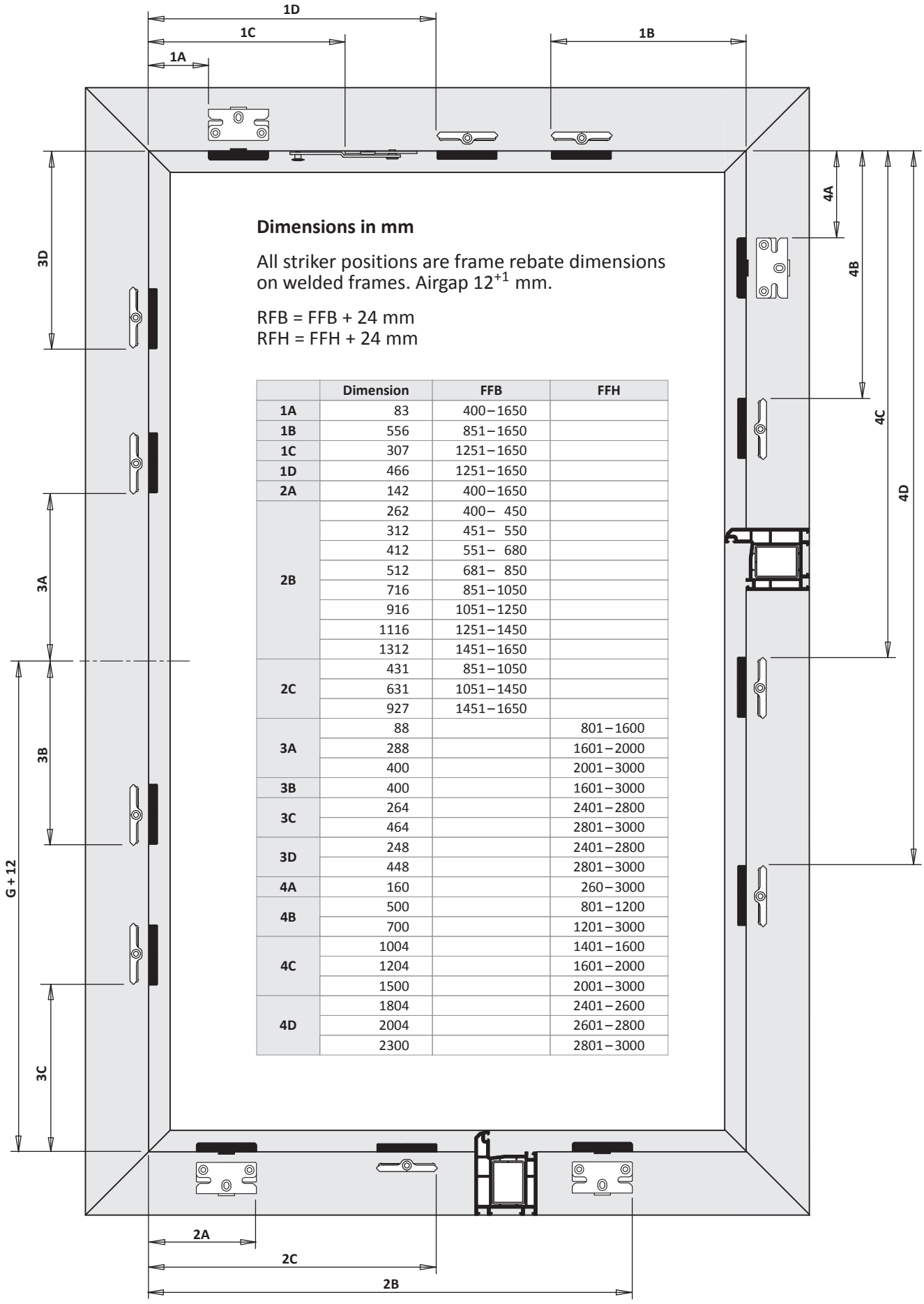
List of fittings

1-sash square tilt-turn
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
24	stay hinge DH	Ref. PDB, TBWB61			1	1
25	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
26	top hinge 100kg	Ref. PDB, TBSL61			1	
27	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
28	top hinge pin Poly	TBSB6020-1 ...			1	1
29	top hinge 130kg	Ref. PDB, TBSL62				1
30	bottom hinge 100kg	Ref. PDB, TBEL01			1	
31	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
32	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
33	bottom hinge 130kg	Ref. PDB, TBEL02				1
34	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
35	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
36	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

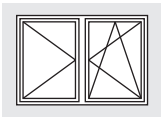
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

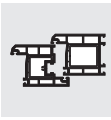
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	88		801–1600
	288		1601–2000
	400		2001–3000
3B	400		1601–3000
3C	264		2401–2800
	464		2801–3000
3D	248		2401–2800
	448		2801–3000
4A	160		260–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





RC1

2-sash square tilt-turn/turn DS 16

PVC

RC1

centre handle pos. (variable)

Hinge side TITAN

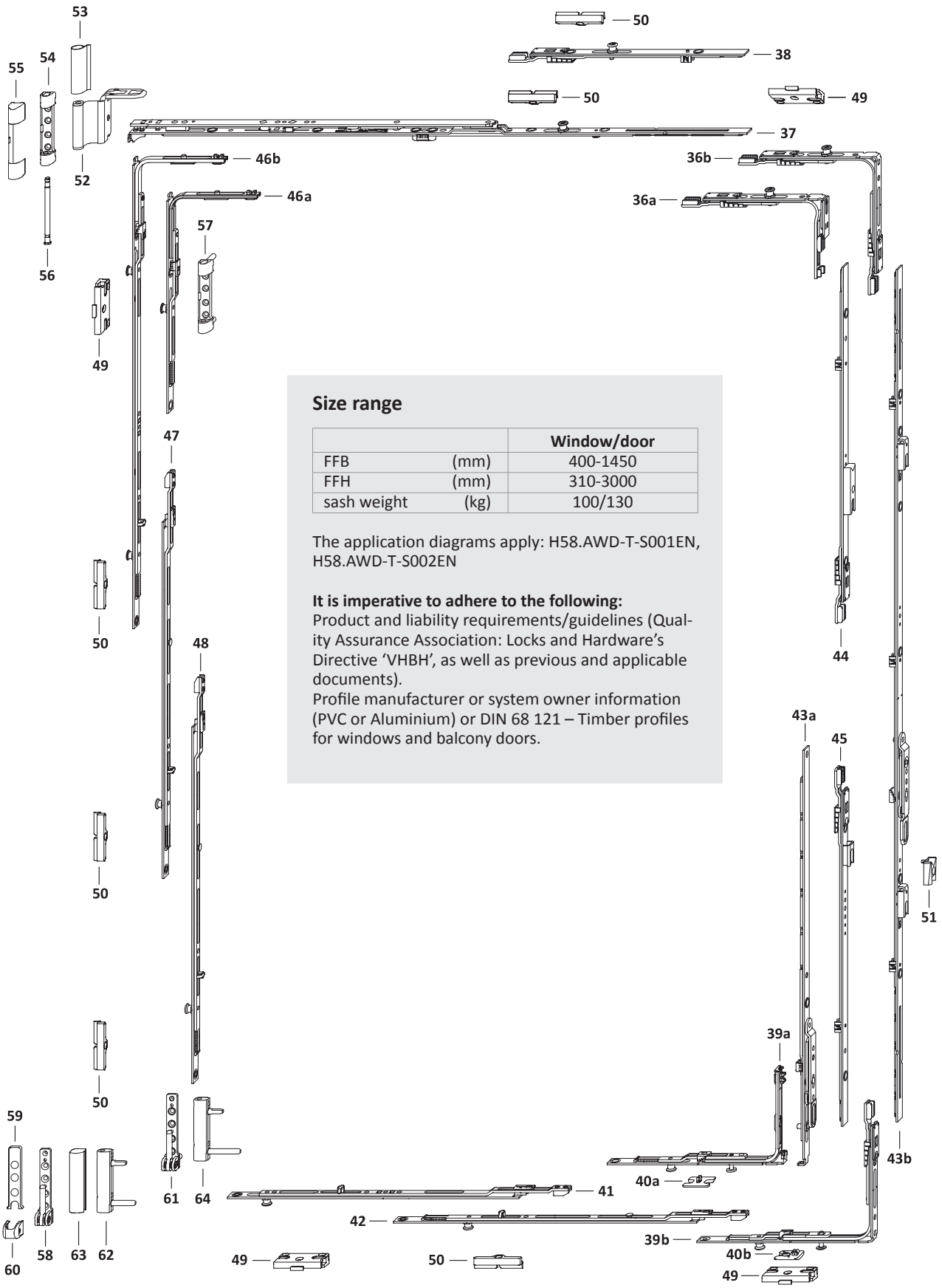
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

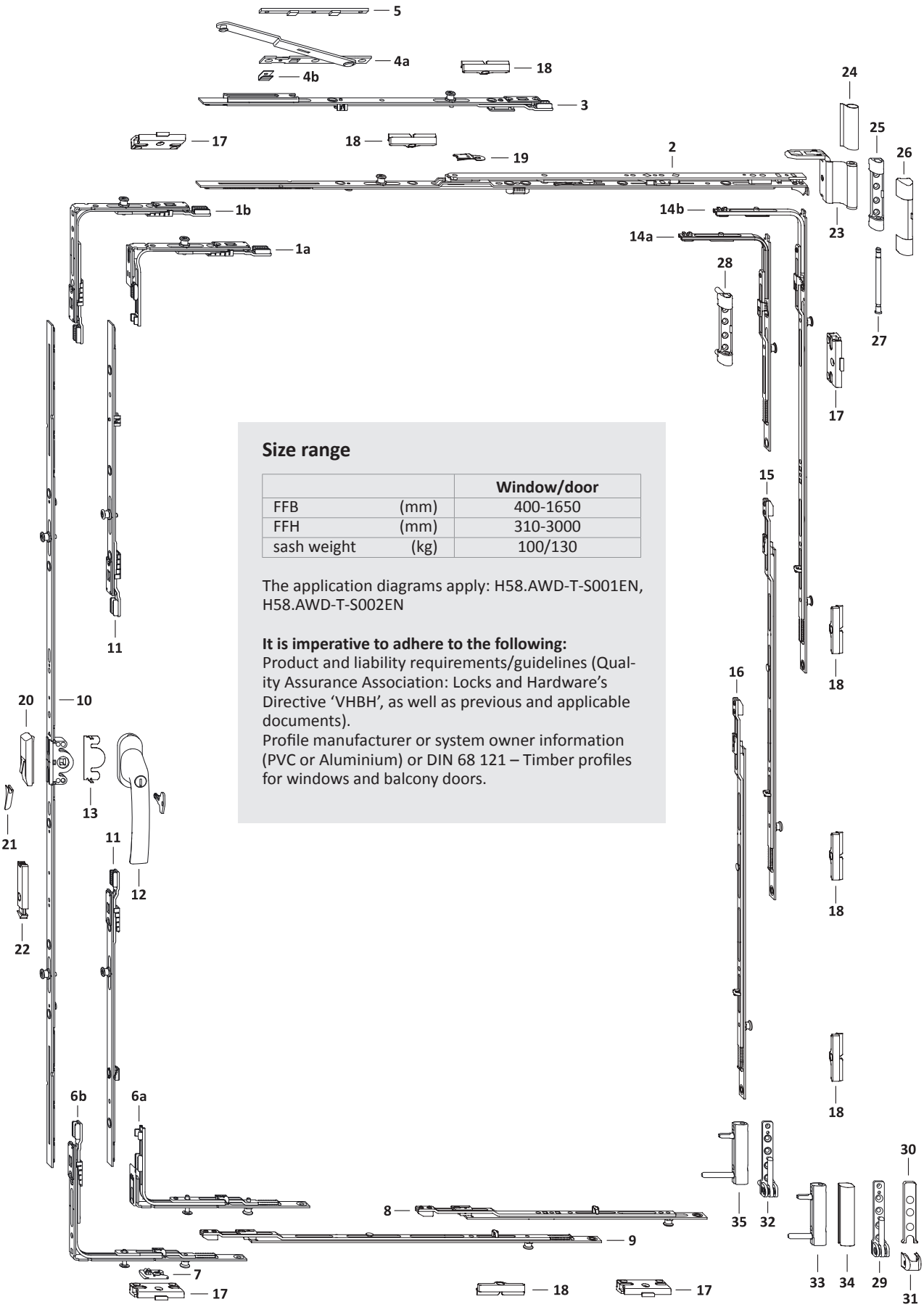


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply: H58.AWD-T-S001EN, H58.AWD-T-S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

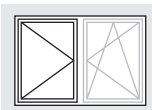
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

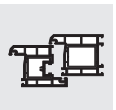
The application diagrams apply: H58.AWD-T-S001EN, H58.AWD-T-S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

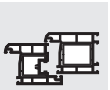
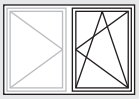
2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	49	50
36a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400 – 850	310 – 460		1	
36b	corn.drive VSO 1RS	TEUL4010- ...	1	400 – 1450	461 – 3000		1	
37	stay AF sz 0	TSKK2000- ...	1	400 – 450				
	stay AF sz 1	TSKK2010- ...		451 – 680				
	stay AF sz 2	TSKK2020- ...		681 – 850				
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1450				1
38	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251 – 1450				1
39a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400 – 1450	461 – 800		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		400 – 850	310 – 460		1	
39b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400 – 1450	801 – 3000		1	
40a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400 – 1450	461 – 800			
	run-up plate FH KRL56	Ref. PDB, TRAL01		400 – 850	310 – 460			
40b	run up plate AF 13 mm 13	TFFH0080- ...	1	400 – 1450	801 – 3000			
41	extension sz 1+ 1RS	TVSO0200- ...	1	400 – 450			1	
	extension sz 2+ 1RS	TVSL0320- ...		451 – 550			1	
	extension sz 3+ 1RS	TVSL0330- ...		551 – 680			1	
	extension sz 4+ 1RS	TVSL0340- ...		681 – 850			1	
	extension sz 3+ 1RS	TVSL0330- ...		851 – 1250			1	
	extension sz 5+ 1RS	TVSL0350- ...		1251 – 1450			1	
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450				1
43a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400 – 850	310 – 460	155 – 230		
	sec.sash gear 16 sz 30	TGKS0010- ...			461 – 600	230 – 300		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601 – 800	300 – 400		
43b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801 – 1200	400 – 600		
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201 – 1600	600 – 800		
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601 – 2000	800 – 1000		
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001 – 3000	1000 – 1500		
44	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401 – 2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000			
45	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401 – 2800			
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801 – 3000			
46a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310 – 800		1	
46b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		1	1
47	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000			1
48	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000			1
49	striker plate S-RS	Ref. PDB, TRSK						
50	striker plate S 56	Ref. PDB, TRSM						
on request								
51	striker snapper AF A0767	TRST0100- ...	1		1601 – 3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
52	stay hinge DH	Ref. PDB, TBWB61			1	1
53	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
54	top hinge 100kg	Ref. PDB, TBSL61			1	
55	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
56	top hinge pin Poly	TBSB6020-1 ...			1	1
57	top hinge 130kg	Ref. PDB, TBSL62				1
58	bottom hinge 100kg	Ref. PDB, TBEL01			1	
59	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
60	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
61	bottom hinge 130kg	Ref. PDB, TBEL02				1
62	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
63	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
64	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

TITAN AF

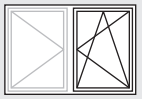
RC1

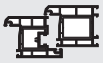
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							17	18
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460		1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	461–3000		1	
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AFVSU/K56+nar.1S1RS	TEUL5100- ...	1	400– 850	310– 460		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1650	461–3000		1	
7	run up plate AF 13 mm 13	TFFH0080- ...	1	400–1650				
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450			1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1	
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
10	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	310– 460	155– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000			
13	anti-drill guard E	TGBS0010- ...	1		310–3000			
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800		1	
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
17	striker plate S-RS	Ref. PDB, TRSK						
18	striker plate S 56	Ref. PDB, TRSM						
on request								
19	tilt restrictor ..	TFKB0010- ...	1		310– 800			
20	mishandling device	TFBS0010- ...	1		601–3000			
21	pressure piece	Ref. PDB, TFFD	1		601–3000			
22	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

5

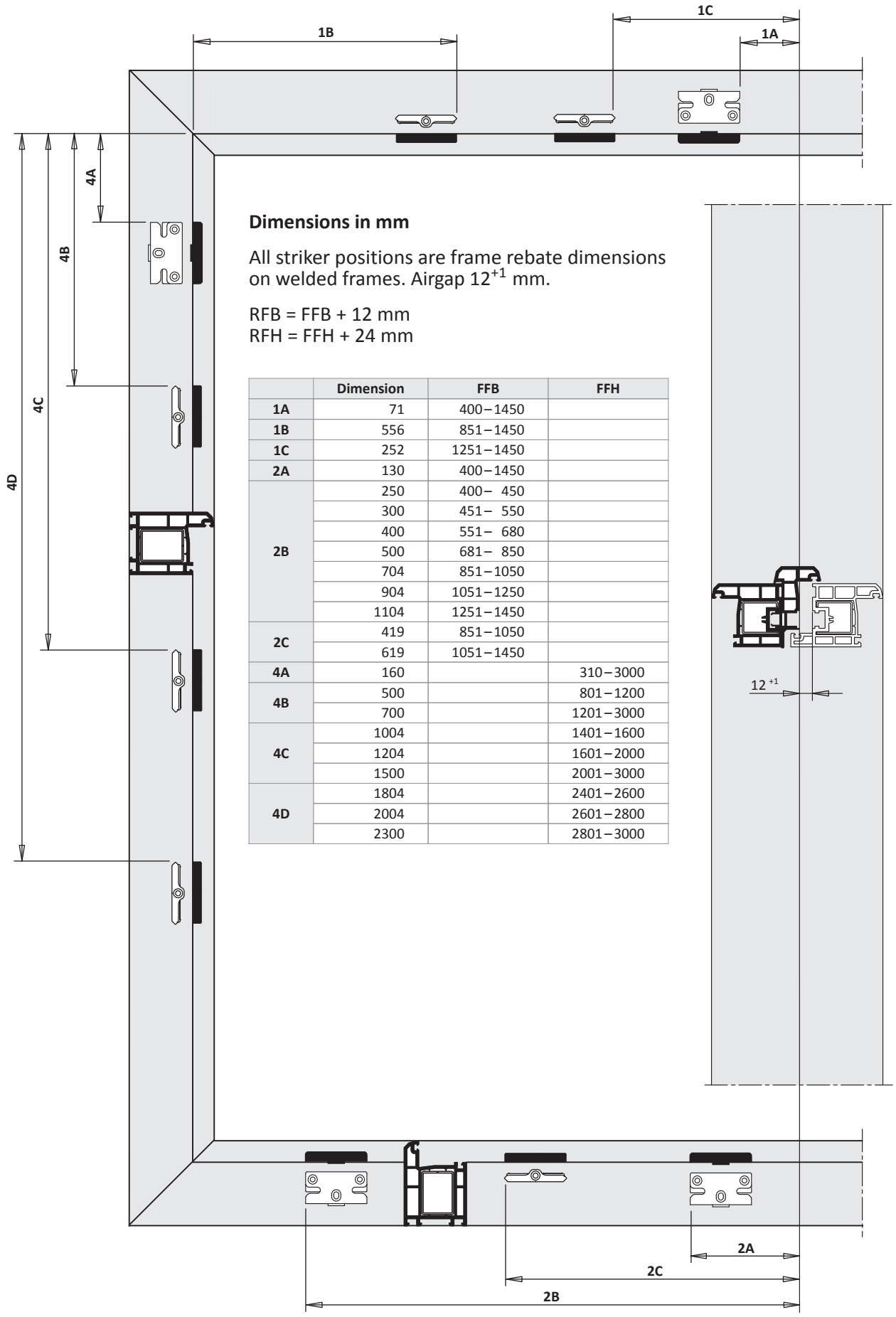
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
23	stay hinge DH	Ref. PDB, TBWB61			1	1
24	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
25	top hinge 100kg	Ref. PDB, TBSL61			1	
26	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
27	top hinge pin Poly	TBSB6020-1 ...			1	1
28	top hinge 130kg	Ref. PDB, TBSL62				1
29	bottom hinge 100kg	Ref. PDB, TBEL01			1	
30	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
31	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
32	bottom hinge 130kg	Ref. PDB, TBEL02				1
33	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
34	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
35	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

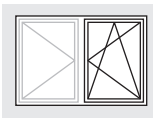
RFB = FFB + 12 mm
RFH = FFH + 24 mm

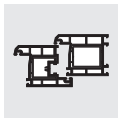
	Dimension	FFB	FFH
1A	71	400–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	130	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1104	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

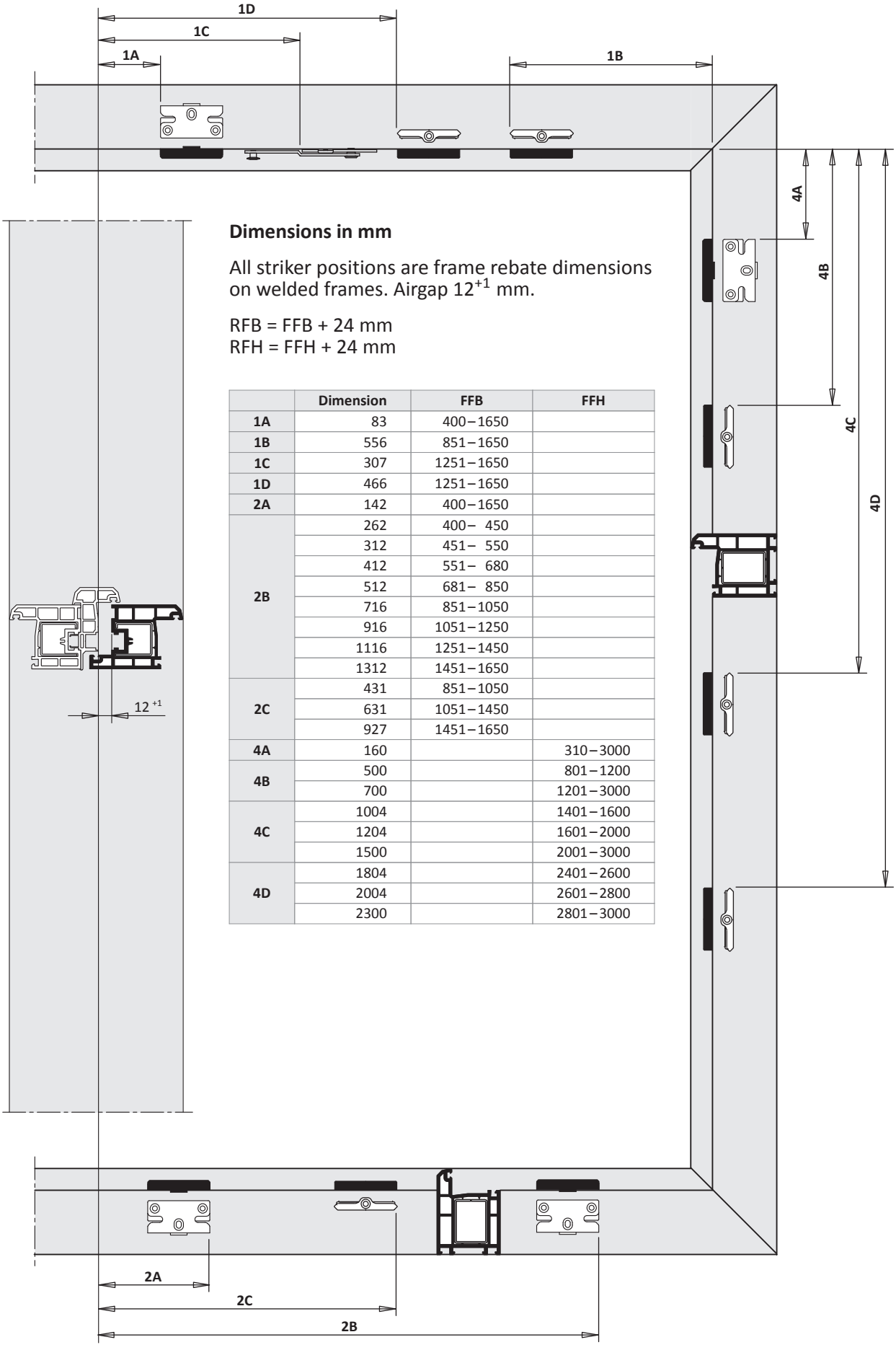
5

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN







Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions




RC1

1-sash square tilt-turn

PVC

RC1

centre handle pos. (variable)

Hinge side TITAN

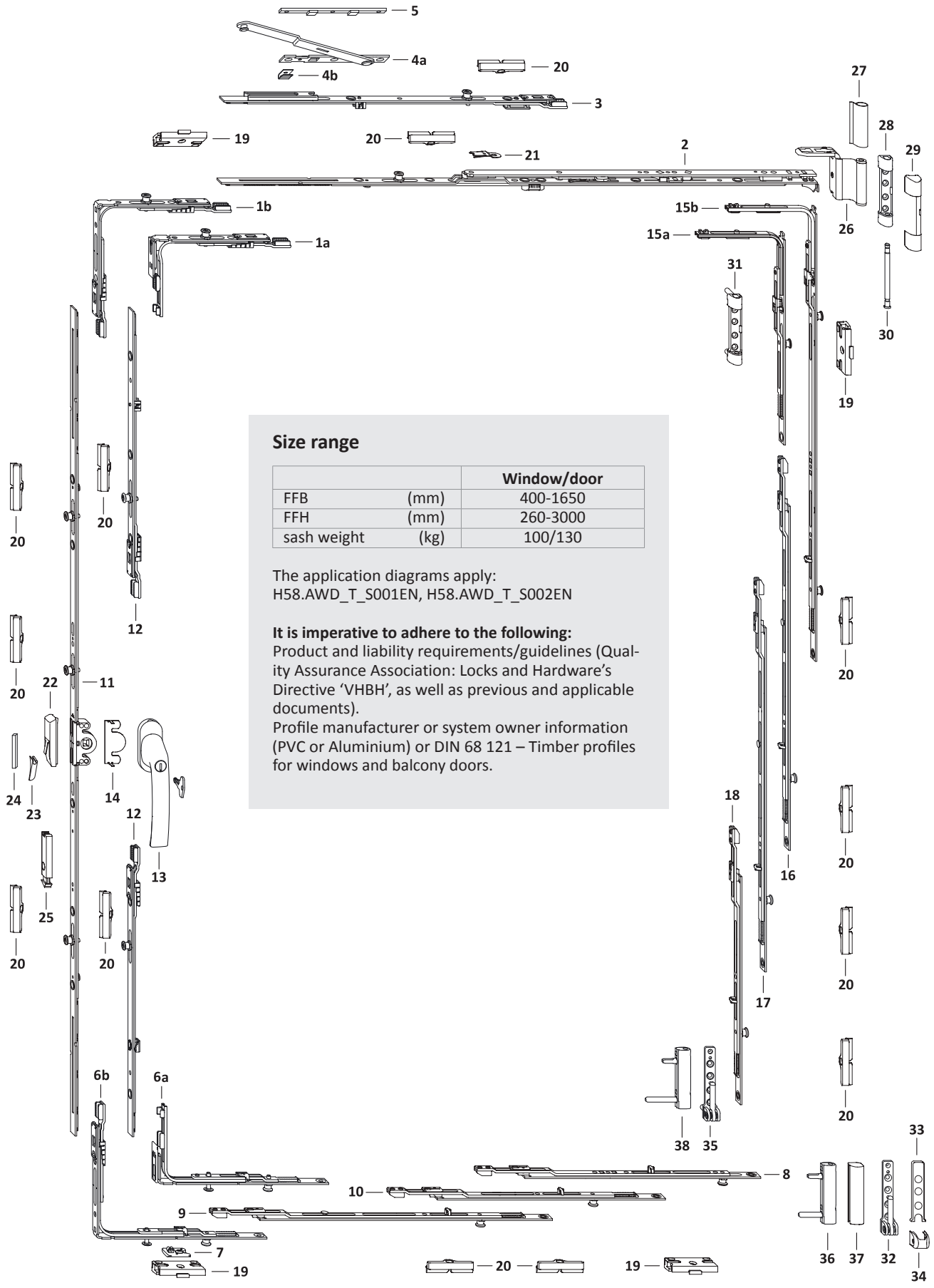
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GM Hinge side TITAN



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	260-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

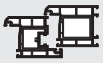
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							19	20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	260– 460		1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	461–3000		1	
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AFVSU/K56+nar.1S1RS	TEUL5100- ...	1	400– 850	260– 460		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1650	461–3000		1	
7	run up block AF 13 mm 13	TFFH0080- ...	1	400–1650				
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1	
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450			1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1	
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
10	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
11	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	260– 460	130– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350		
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400		1
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800		2
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500		3
12	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
13	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		260–3000			
14	anti-drill guard E	TGBS0010- ...	1		260–3000			
15a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		260– 800		1	
15b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
19	striker plate S-RS	Ref. PDB, TRSK						
20	striker plate S 56	Ref. PDB, TRSM						
on request								
21	tilt restrictor ..	TFKB0010- ...	1		260– 800			
22	mishandling device	TFBS0010- ...	1					
23	pressure piece	Ref. PDB, TFFD	1					
24	stop	Ref. PDB, FRZF01	1					
25	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

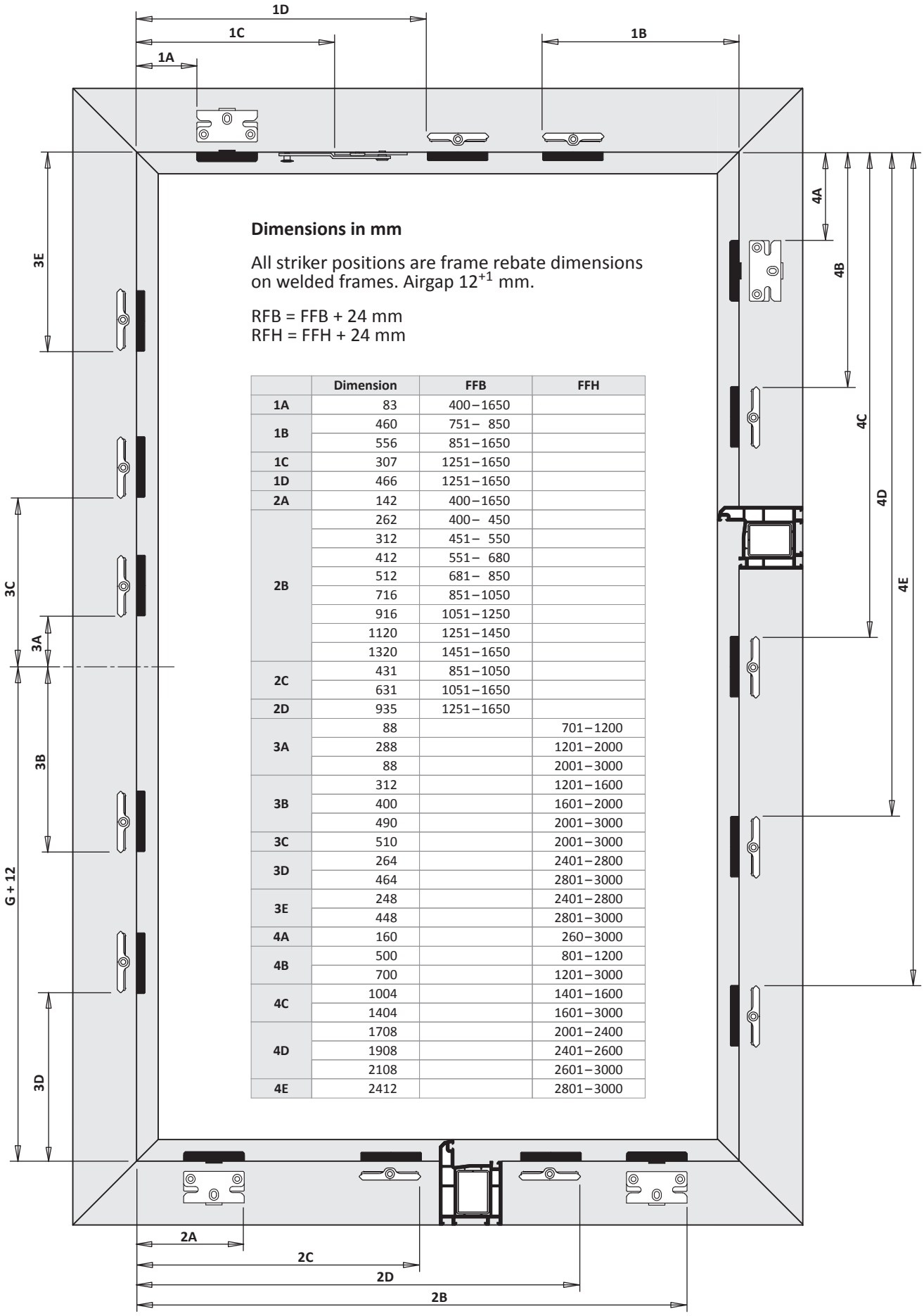
List of fittings

1-sash square tilt-turn
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
26	stay hinge DH	Ref. PDB, TBWB61			1	1
27	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
28	top hinge 100kg	Ref. PDB, TBSL61			1	
29	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
30	top hinge pin Poly	TBSB6020-1 ...			1	1
31	top hinge 130kg	Ref. PDB, TBSL62				1
32	bottom hinge 100kg	Ref. PDB, TBEL01			1	
33	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
34	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
35	bottom hinge 130kg	Ref. PDB, TBEL02				1
36	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
37	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
38	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

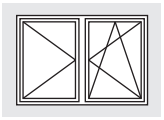
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

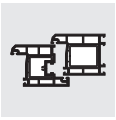
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
3A	88		701–1200
	288		1201–2000
	88		2001–3000
3B	312		1201–1600
	400		1601–2000
	490		2001–3000
3C	510		2001–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	160		260–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

TITAN AF

Installation instructions





RC1

2-sash square tilt-turn/turn DS 16

PVC

RC1

centre handle pos. (variable)

Hinge side TITAN

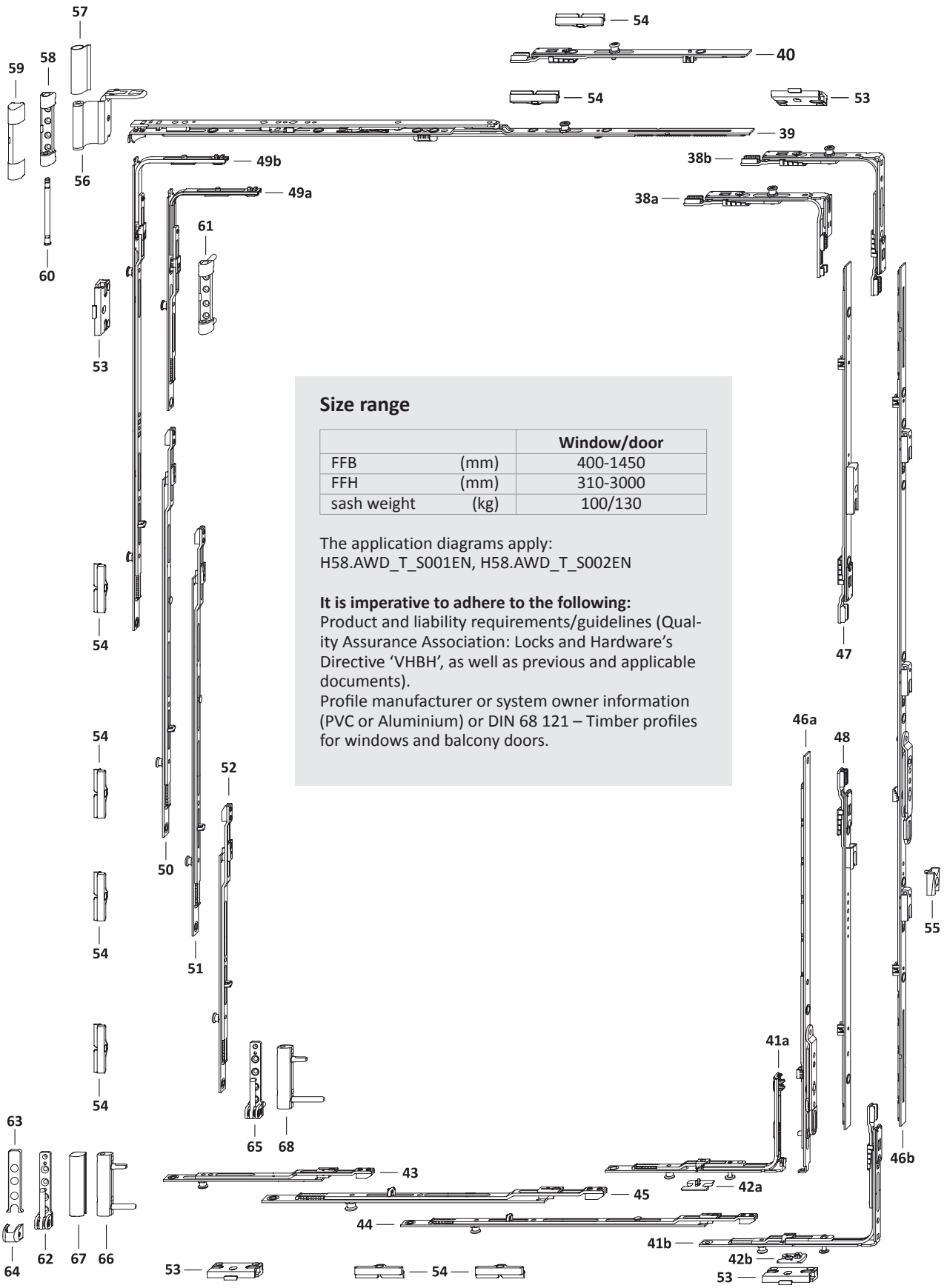
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

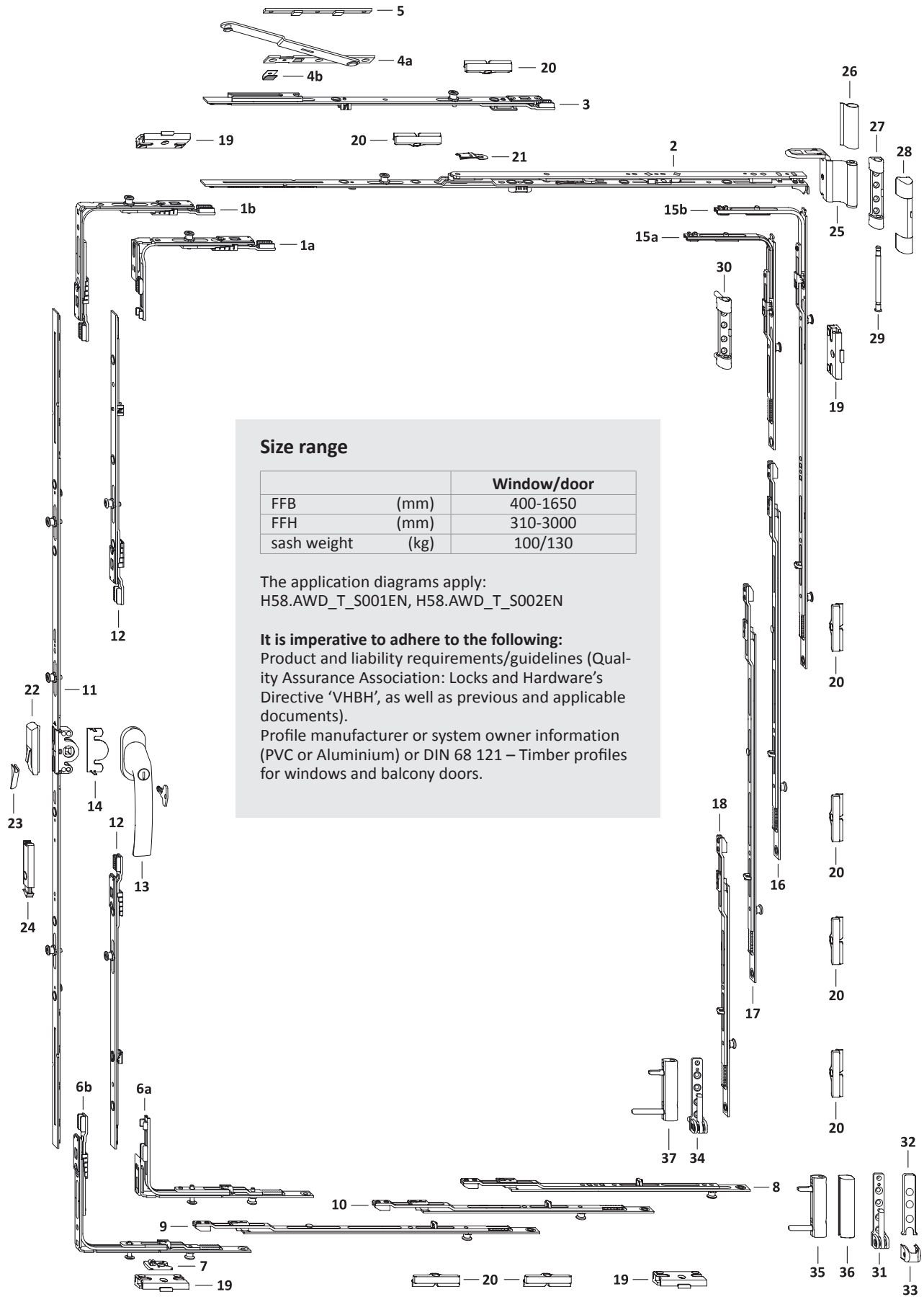


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

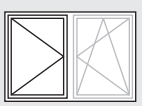
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

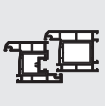
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
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List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN



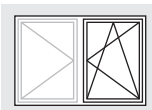


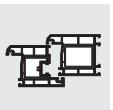
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	53	54
38a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460		1	
38b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1450	461–3000		1	
39	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1
40	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
41a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400–1450	461– 700		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		400– 850	310– 460		1	
41b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1450	701–3000		1	
42a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400–1450	461– 700			
	run-up plate FH KRL56	Ref. PDB, TRAL01		400– 850	310– 460			
42b	run up block AF 13 mm 13	TFFH0080- ...	1	400–1450	701–3000			
43	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1	
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450			1	
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
45	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1450				1
46a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400– 850	310– 460	155– 230		
	sec.sash gear 16 sz 30	TGKS0010- ...			461– 600	230– 300		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300– 350		
46b	sec.sash gear 16 AF sz 70 1SB	TGMS4030- ...	1		701– 800	350– 400		
	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...			801–1200	400– 600		
	sec.sash gear 16 AF 120 2SB 70	TGMS4120- ...			1201–1600	600– 800		
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000		
	sec.sash gear 16 AF 200 3SB 70	TGMS4100- ...			2001–3000	1000–1500		
47	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
48	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800			
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000			
49a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800		1	
49b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
50	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
51	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
52	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
53	striker plate S-RS	Ref. PDB, TRSK						
54	striker plate S 56	Ref. PDB, TRSM						
on request								
55	striker snapper AF A0767	TRST0100- ...	1		1601–3000			

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
56	stay hinge DH	Ref. PDB, TBWB61			1	1
57	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
58	top hinge 100kg	Ref. PDB, TBSL61			1	
59	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
60	top hinge pin Poly	TBSB6020-1 ...			1	1
61	top hinge 130kg	Ref. PDB, TBSL62				1
62	bottom hinge 100kg	Ref. PDB, TBEL01			1	
63	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
64	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
65	bottom hinge 130kg	Ref. PDB, TBEL02				1
66	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
67	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
68	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN



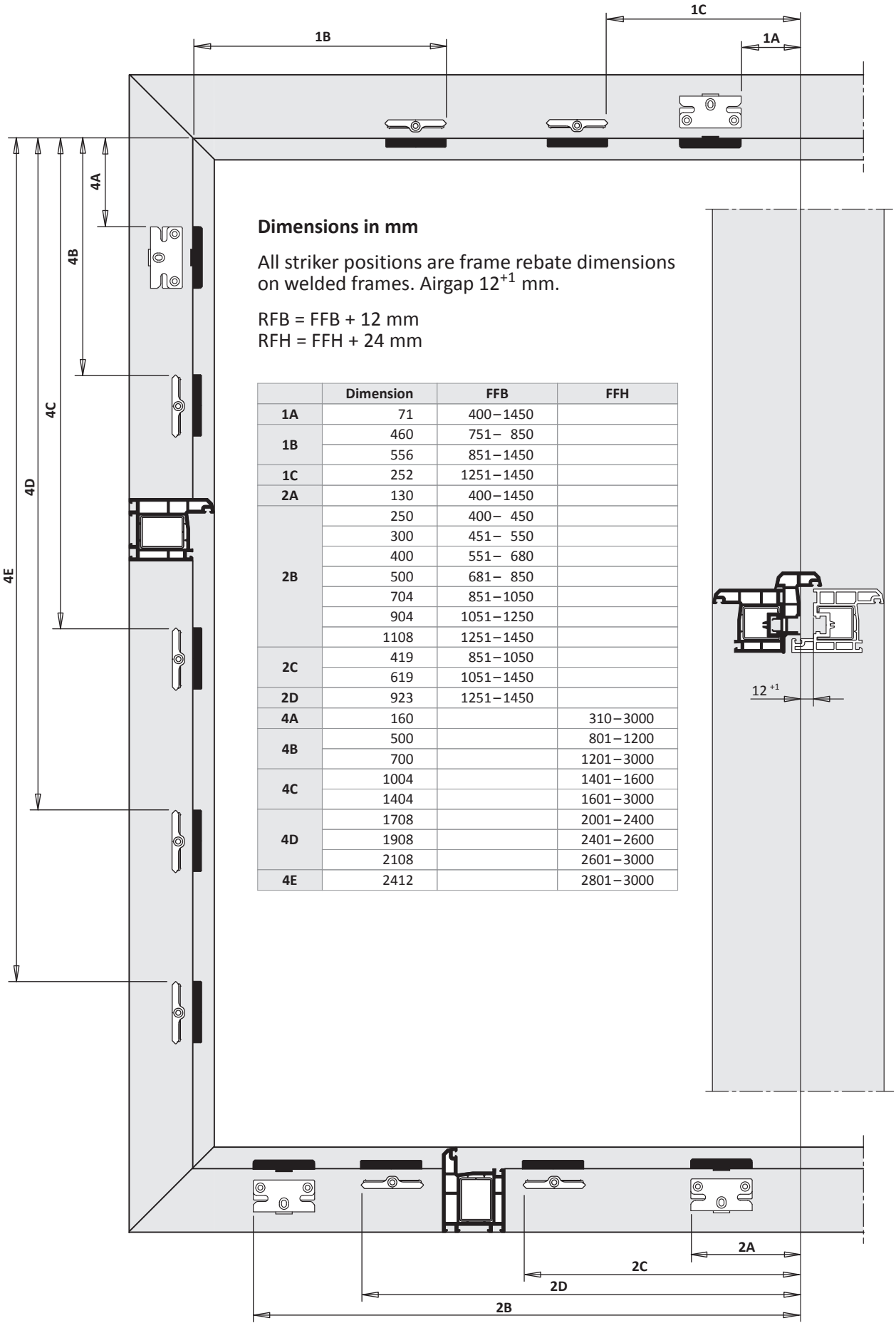


Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							19	20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460		1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	461–3000		1	
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AFVSU/K56+nar.1S1RS	TEUL5100- ...	1	400– 850	310– 460		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1650	461–3000		1	
7	run up block AF 13 mm 13	TFFH0080- ...	1	400–1650				
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1	
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450			1	
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1	
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
10	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
11	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	310– 460	155– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350		
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500		
12	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
13	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000			
14	anti-drill guard E	TGBS0010- ...	1		310–3000			
15a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800		1	
15b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
19	striker plate S-RS	Ref. PDB, TRSK						
20	striker plate S 56	Ref. PDB, TRSM						
on request								
21	tilt restrictor ..	TFKB0010- ...	1		310– 800			
22	mishandling device	TFBS0010- ...	1					
23	pressure piece	Ref. PDB, TFFD	1					
24	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
25	stay hinge DH	Ref. PDB, TBWB61			1	1
26	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
27	top hinge 100kg	Ref. PDB, TBSL61			1	
28	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
29	top hinge pin Poly	TBSB6020-1 ...			1	1
30	top hinge 130kg	Ref. PDB, TBSL62				1
31	bottom hinge 100kg	Ref. PDB, TBEL01			1	
32	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
33	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
34	bottom hinge 130kg	Ref. PDB, TBEL02				1
35	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
36	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
37	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

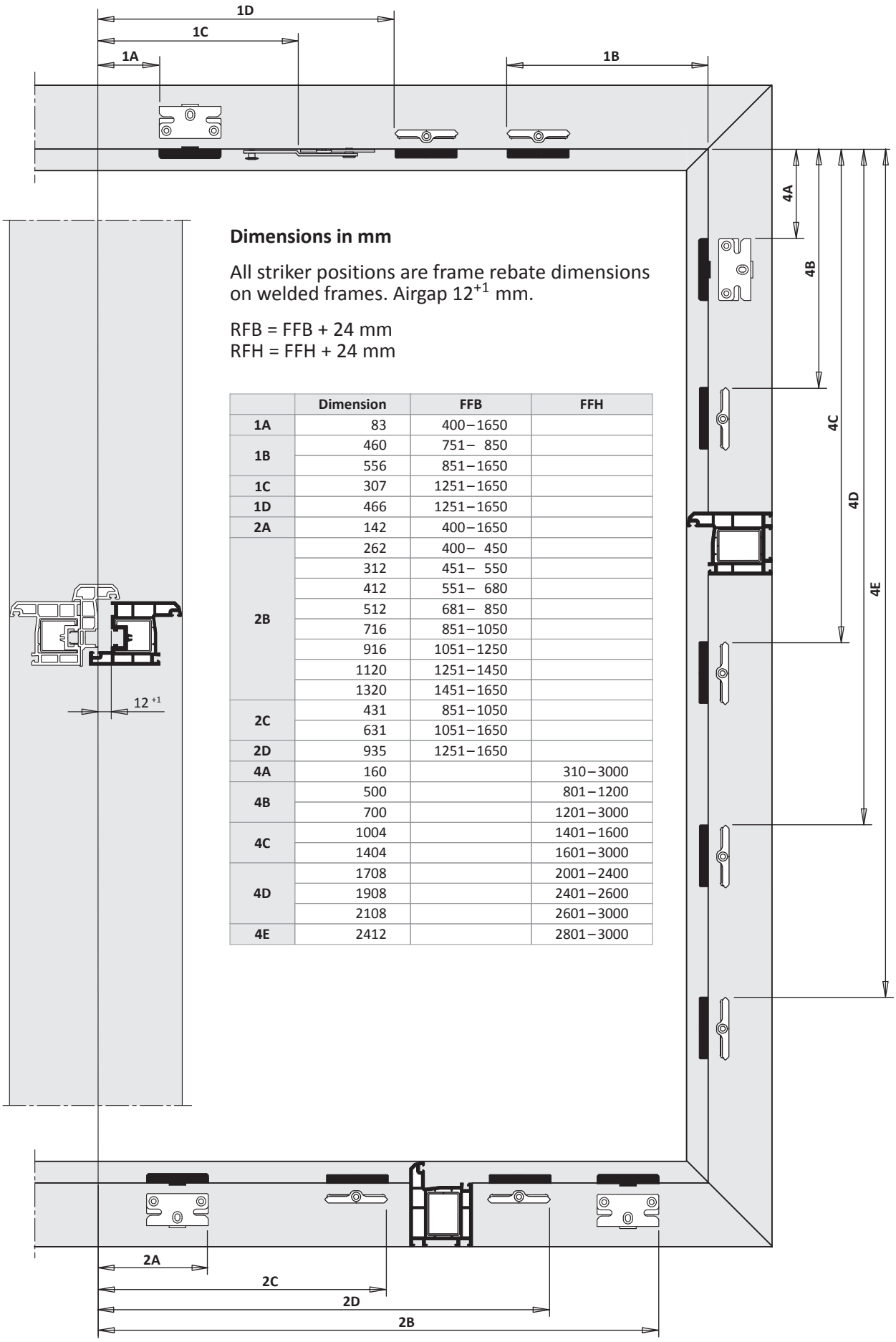


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	460	751– 850	
	556	851–1450	
1C	252	1251–1450	
2A	130	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1108	1251–1450	
2C	419	851–1050	
	619	1051–1450	
2D	923	1251–1450	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

Bottom: Inliner

1-sash square tilt-turn	H48.TAFKFK2+S001EN	6 - 3
2-sash square tilt-turn/turn DS 16	H48.TAFKFK2+S002EN	6 - 9
2-sash square tilt-turn/turn DS BAN	H48.TAFKFK2+S008EN	6 - 19
Locking-points distance 700		
1-sash square tilt-turn	H48.TAFKFK2+S301EN	6 - 29
2-sash square tilt-turn/turn DS 16	H48.TAFKFK2+S302EN	6 - 35

Bottom: Double cam SB R-RS

1-sash square tilt-turn	H48.TAFKFK2+S401EN	6 - 45
2-sash square tilt-turn/turn DS 16	H48.TAFKFK2+S402EN	6 - 51
Locking-points distance 700		
1-sash square tilt-turn	H48.TAFKFK2+S305EN	6 - 61
2-sash square tilt-turn/turn DS 16	H48.TAFKFK2+S306EN	6 - 67

TITAN AF

Installation instructions




RC2

1-sash square tilt-turn

PVC

RC2

fixed handle position

Hinge side TITAN

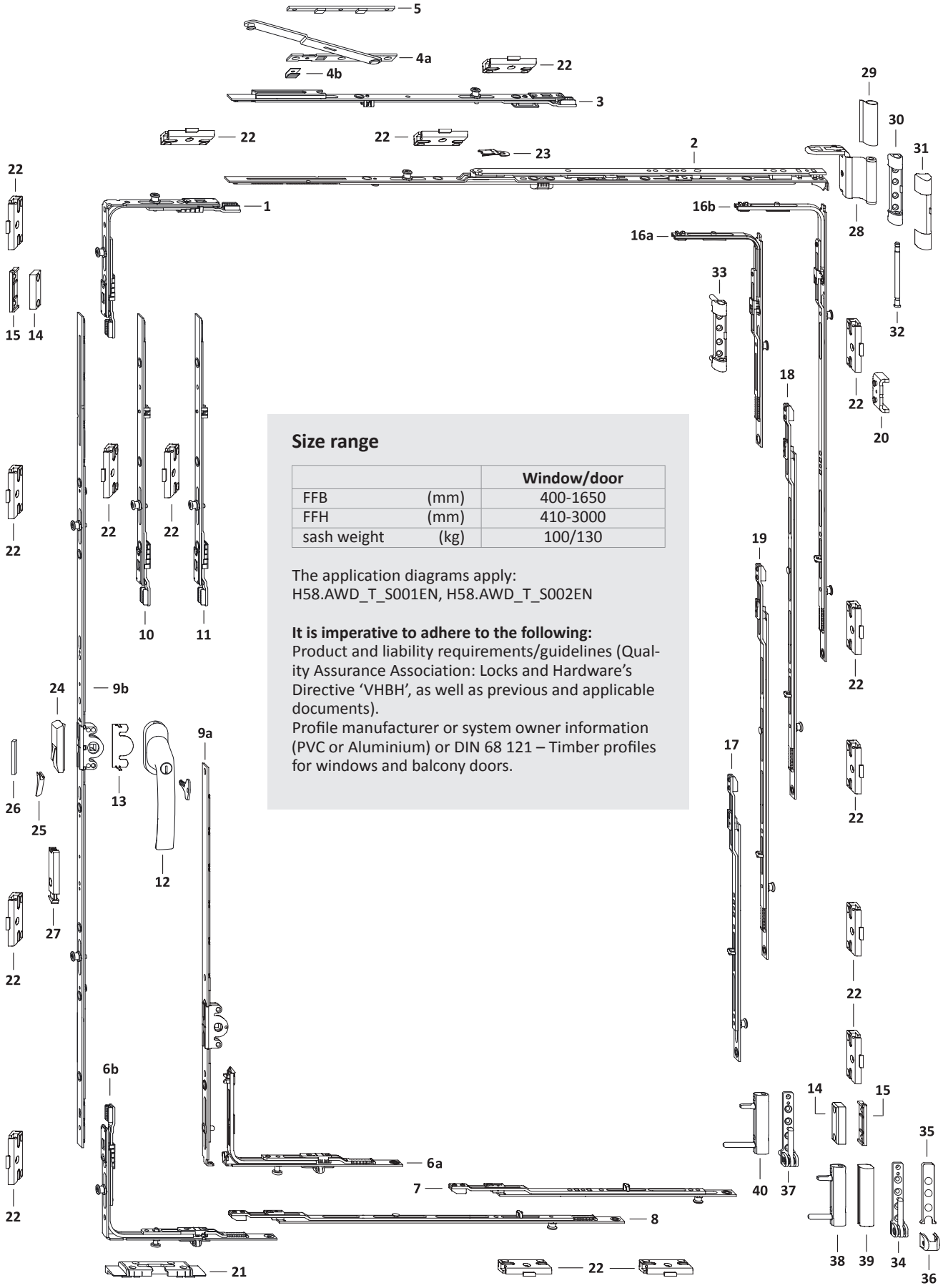
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GK Hinge side TITAN

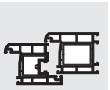


Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	410-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

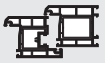



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	400–1650				2
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	410– 600		1	
6b	corn.drive AF VSU/K+ FH 1S 1RS A0055	TEUL5020- ...	1	400–1650	601–3000		1	1
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
9a	gear 15 sz 30/G180	TGKK3010- ...	1	400–1250	410– 600	180		
9b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		2
10	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			1
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
11	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		410–3000			
13	anti-drill guard E	TGBS0010- ...	1		410–3000			
14	Air gap limiter	Ref. PDB, FRFL	2		410–3000			
15	packer RB/FPS	Ref. PDB, FRUP02	2		410–3000			
16a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		410– 800			1
16b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
17	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600			1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800			1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000			1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800			1
	extension sz 4+ 1RS	TVSL0340- ...			1801–2200			1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400			1
	extension sz 5+ 1RS	TVSL0350- ...			2401–2800			1
	extension sz 4+ 1RS	TVSL0340- ...			2801–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
20	anti-lift device	Ref. PDB, TFAH	1		410–3000			
21	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
22	striker plate S-RS	Ref. PDB, TRSK						

List of fittings

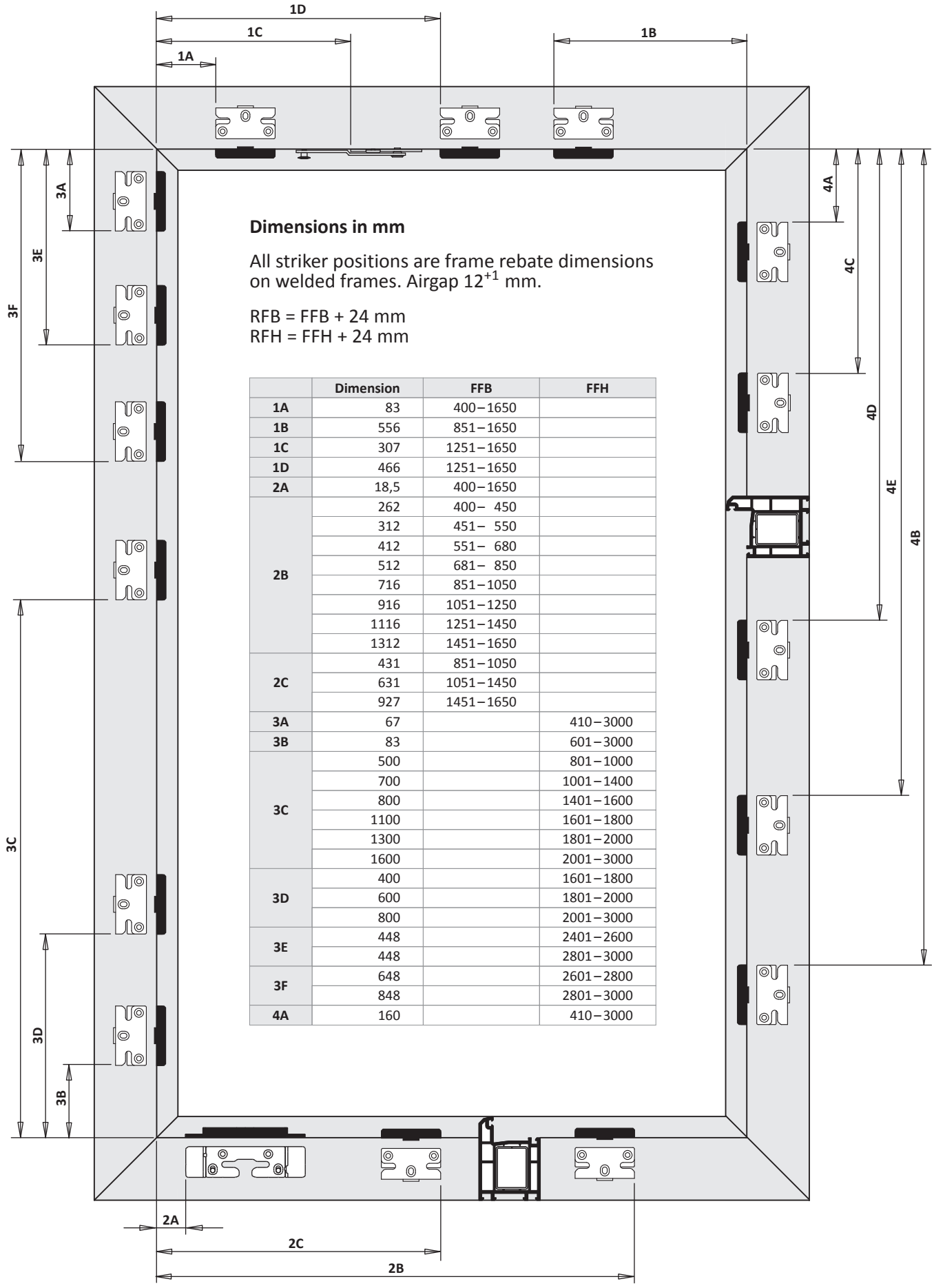
1-sash square tilt-turn
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
on request								
23	tilt restrictor ..	TFKB0010- ...	1		410 – 800			
24	mishandling device	TFBS0010- ...	1					
25	pressure piece	Ref. PDB, TFFD	1					
26	stop	Ref. PDB, FRZF01	1					
27	snapper rh.	TFST0021- ...	1		1801 – 3000			
	snapper lh.	TFST0022- ...			1801 – 3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
28	stay hinge DH	Ref. PDB, TBWB61			1	1
29	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
30	top hinge 100kg	Ref. PDB, TBSL61			1	
31	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
32	top hinge pin Poly	TBSB6020-1 ...			1	1
33	top hinge 130kg	Ref. PDB, TBSL62				1
34	bottom hinge 100kg	Ref. PDB, TBEL01			1	
35	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
36	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
37	bottom hinge 130kg	Ref. PDB, TBEL02				1
38	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
39	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
40	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

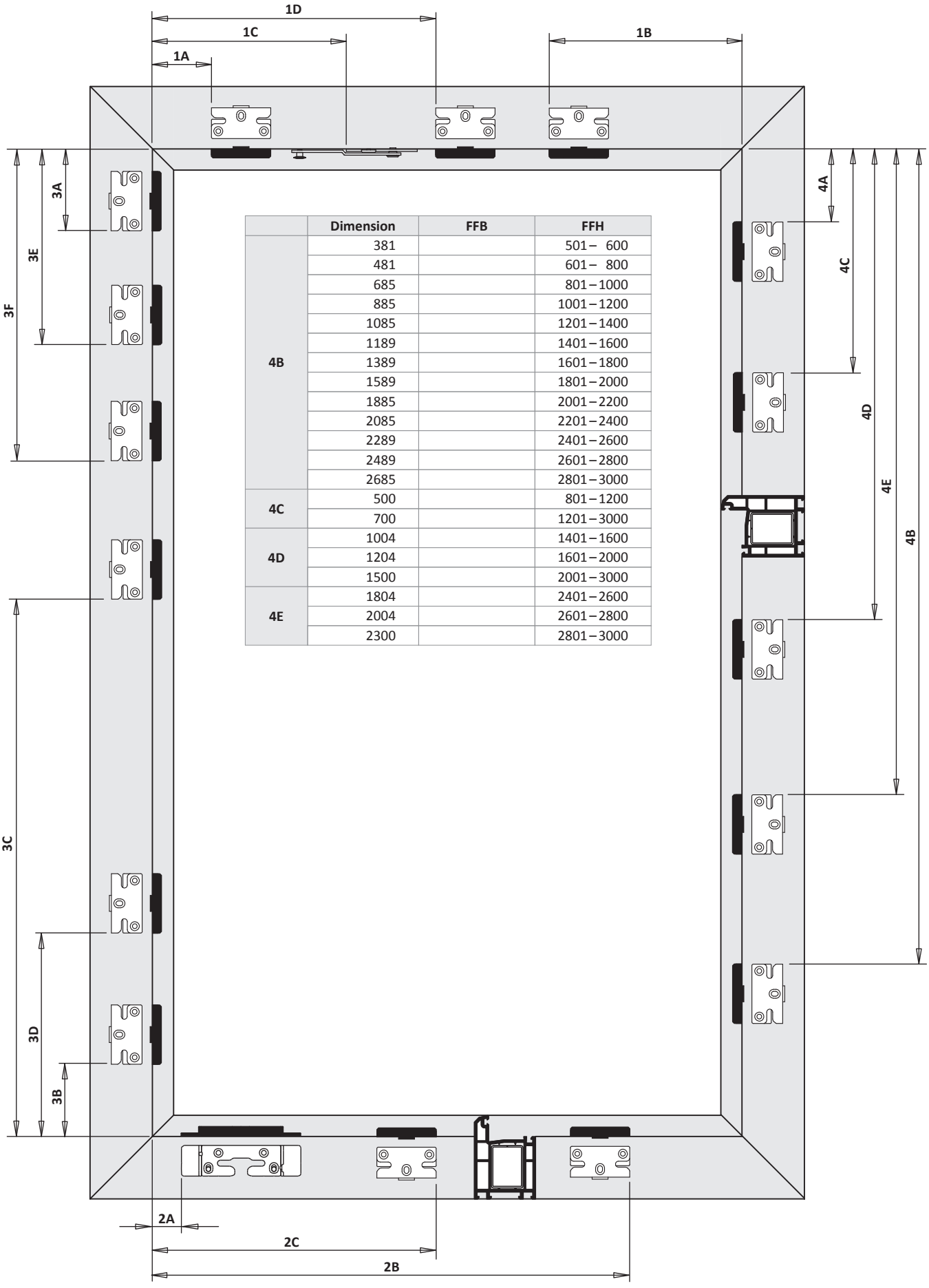
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67		410–3000
3B	83		601–3000
3C	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3D	400		1601–1800
	600		1801–2000
	800		2001–3000
3E	448		2401–2600
	448		2801–3000
3F	648		2601–2800
	848		2801–3000
4A	160		410–3000

Frame dimensions

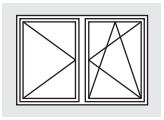
1-sash square tilt-turn
PVC GK Hinge side TITAN

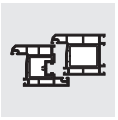


	Dimension	FFB	FFH
4B	381		501 – 600
	481		601 – 800
	685		801 – 1000
	885		1001 – 1200
	1085		1201 – 1400
	1189		1401 – 1600
	1389		1601 – 1800
	1589		1801 – 2000
	1885		2001 – 2200
	2085		2201 – 2400
	2289		2401 – 2600
	2489		2601 – 2800
	2685		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1204		1601 – 2000
	1500		2001 – 3000
4E	1804		2401 – 2600
	2004		2601 – 2800
	2300		2801 – 3000

TITAN AF

Installation instructions





RC2

2-sash square tilt-turn/turn DS 16

PVC

RC2

fixed handle position

Hinge side TITAN

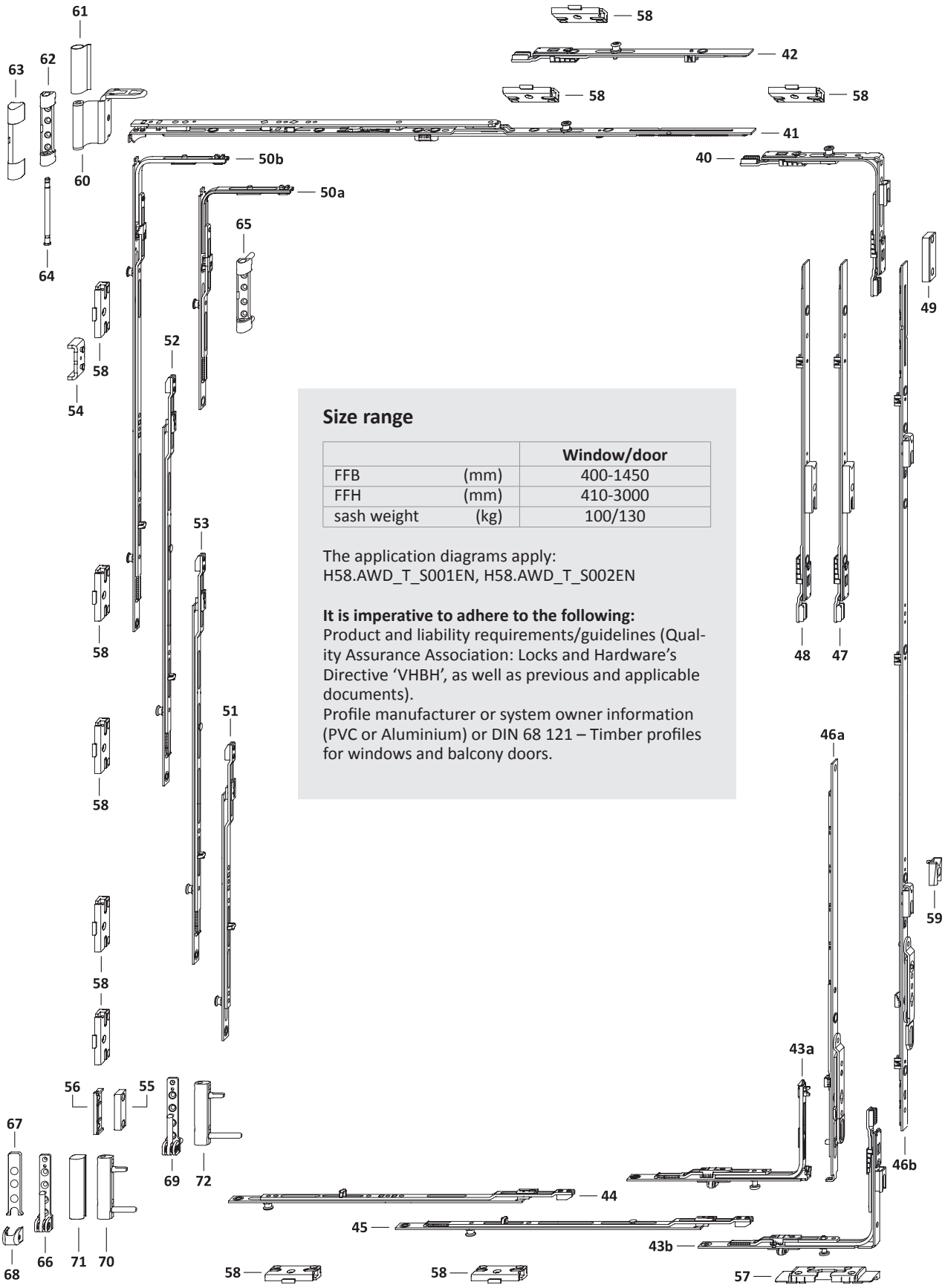
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

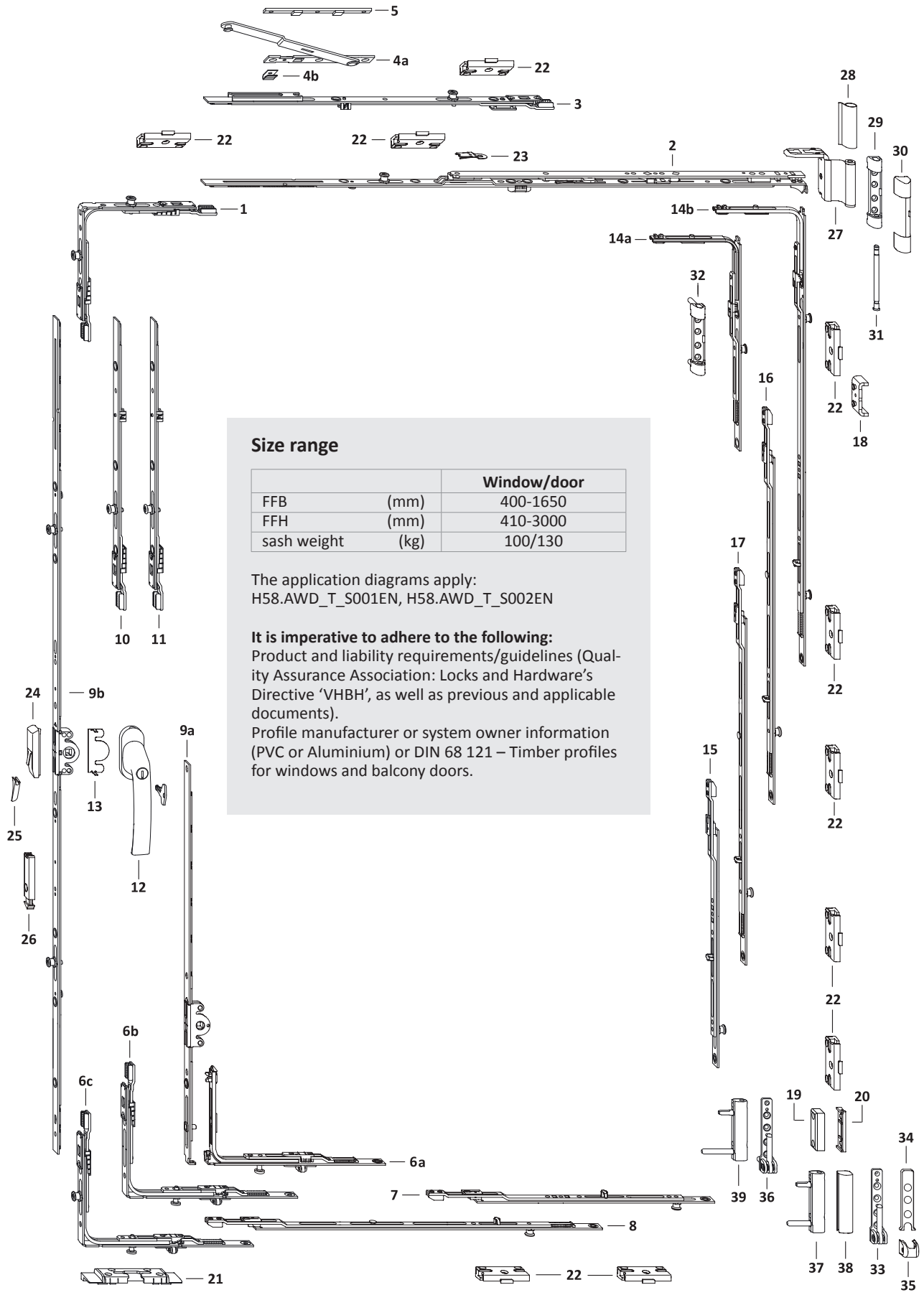


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	410-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

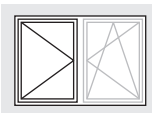
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	410-3000
sash weight	(kg)	100/130

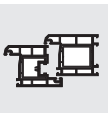
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



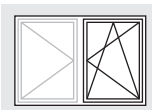


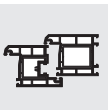
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	57	58
40	corn.drive AF VSO WK2 SB 1RS	TEUL4080- ...	1	400–1450				1
41	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1
42	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
43a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1450	410– 800		1	
43b	corn.drive AF VSU/K+WK2 FHSB1S	TEUL5110- ...	1	400–1450	801–3000		1	
44	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1
45	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
46a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400–1250	410– 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300		
46b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600		
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000		
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000		
47	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
48	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
49	air gap limiter F ..	TFFB0010- ...	1		410–3000			
50a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		410– 800			1
50b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
51	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600			1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800			1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000			1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800			1
	extension sz 4+ 1RS	TVSL0340- ...			1801–2200			1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400			1
	extension sz 5+ 1RS	TVSL0350- ...			2401–2800			1
	extension sz 4+ 1RS	TVSL0340- ...			2801–3000			1
52	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
53	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
54	anti-lift device	Ref. PDB, TFAH	1		410–3000			
55	Air gap limiter	Ref. PDB, FRFL	1		410–3000			
56	packer RB/FPS	Ref. PDB, FRUP02	1		410–3000			
57	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
58	striker plate S-RS	Ref. PDB, TRSK						
on request								
59	striker snapper AF A0767	TRST0100- ...	1		1801–3000			

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
60	stay hinge DH	Ref. PDB, TBWB61			1	1
61	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
62	top hinge 100kg	Ref. PDB, TBSL61			1	
63	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
64	top hinge pin Poly	TBSB6020-1 ...			1	1
65	top hinge 130kg	Ref. PDB, TBSL62				1
66	bottom hinge 100kg	Ref. PDB, TBEL01			1	
67	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
68	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
69	bottom hinge 130kg	Ref. PDB, TBEL02				1
70	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
71	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
72	corner hinge PVC130kg	Ref. PDB, TBEB63				1

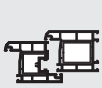
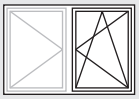
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	400–1650				1
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	410– 600		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	601– 800		1	
6c	corn.drive AF VSU/K+ FH 1S 1RS A0055	TEUL5020- ...	1	400–1650	801–3000		1	
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
9a	gear 15 sz 30/G180	TGKK3010- ...	1	400–1250	410– 600	180		
9b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		
10	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
11	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		410–3000			
13	anti-drill guard E	TGBS0010- ...	1		410–3000			
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		410– 800			1
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
15	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600			1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800			1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000			1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800			1
	extension sz 4+ 1RS	TVSL0340- ...			1801–2200			1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400			1
	extension sz 5+ 1RS	TVSL0350- ...			2401–2800			1
	extension sz 4+ 1RS	TVSL0340- ...			2801–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
18	anti-lift device	Ref. PDB, TFAH	1		410–3000			
19	Air gap limiter	Ref. PDB, FRFL	1		410–3000			
20	packer RB/FPS	Ref. PDB, FRUP02	1		410–3000			
21	tilt lock bear. S-ES FH	Ref. PDB, FRKA						

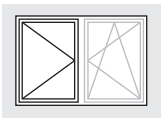



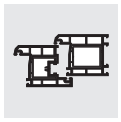
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
22	striker plate S-RS	Ref. PDB, TRSK						
on request								
23	tilt restrictor ..	TFKB0010- ...	1		410– 800			
24	mishandling device	TFBS0010- ...	1		601–3000			
25	pressure piece	Ref. PDB, TFFD	1		601–3000			
26	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

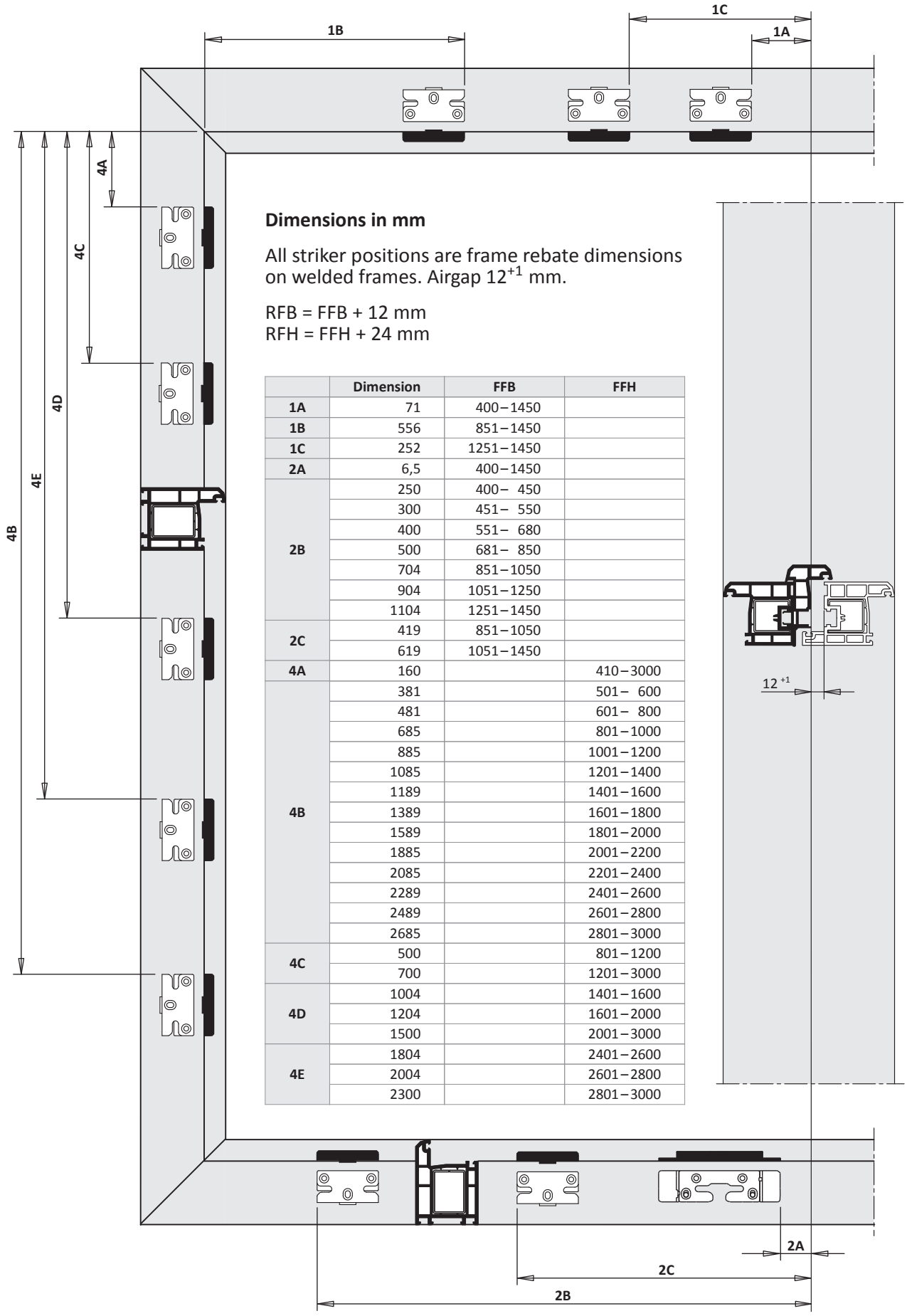
Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
27	stay hinge DH	Ref. PDB, TBWB61			1	1
28	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
29	top hinge 100kg	Ref. PDB, TBSL61			1	
30	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
31	top hinge pin Poly	TBSB6020-1 ...			1	1
32	top hinge 130kg	Ref. PDB, TBSL62				1
33	bottom hinge 100kg	Ref. PDB, TBEL01			1	
34	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
35	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
36	bottom hinge 130kg	Ref. PDB, TBEL02				1
37	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
38	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
39	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





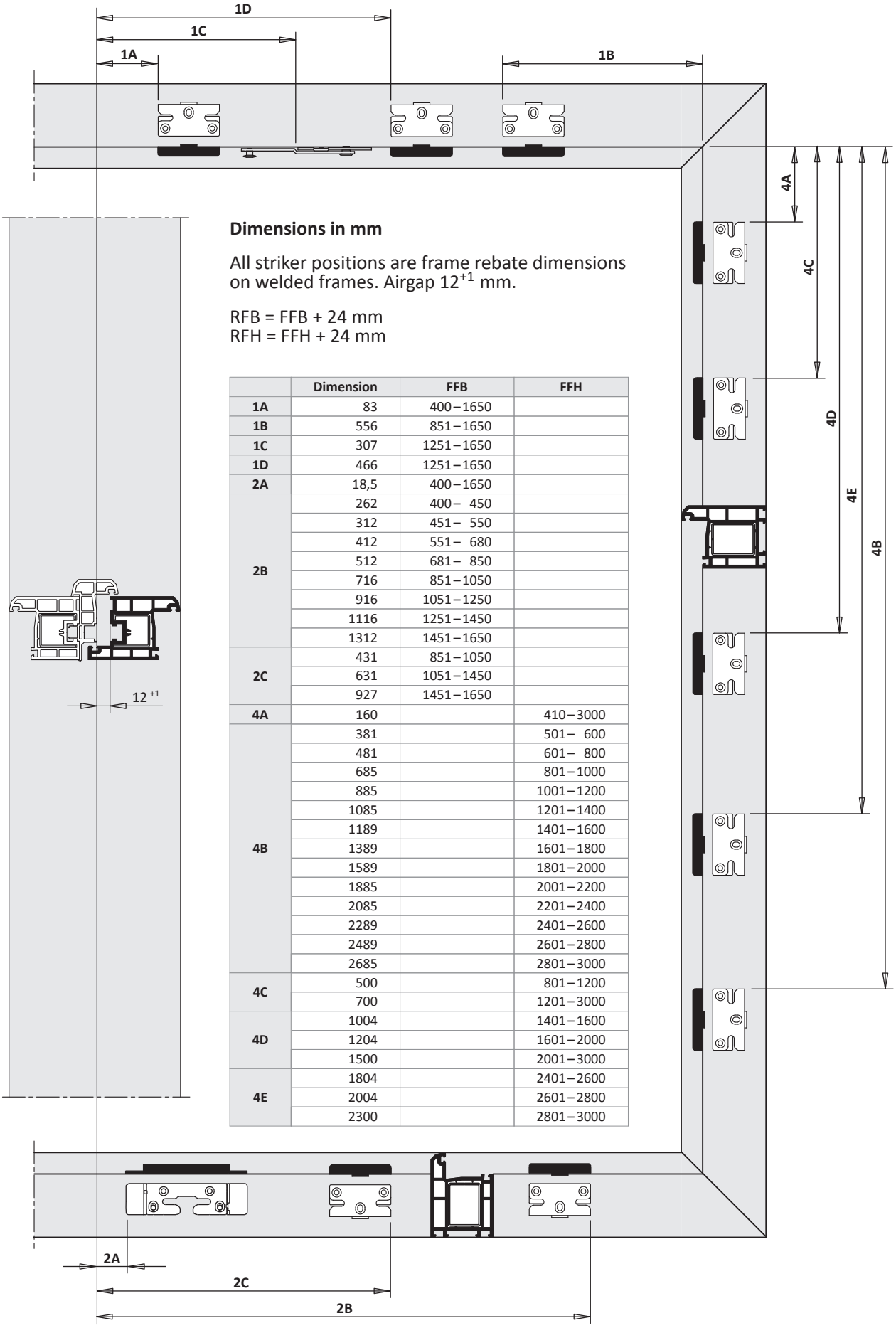


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	6,5	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1104	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		410–3000
4B	381		501– 600
	481		601– 800
	685		801–1000
	885		1001–1200
	1085		1201–1400
	1189		1401–1600
	1389		1601–1800
	1589		1801–2000
	1885		2001–2200
	2085		2201–2400
	2289		2401–2600
	2489		2601–2800
	2685		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4E	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

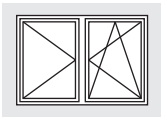
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

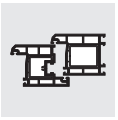
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		410–3000
4B	381		501– 600
	481		601– 800
	685		801–1000
	885		1001–1200
	1085		1201–1400
	1189		1401–1600
	1389		1601–1800
	1589		1801–2000
	1885		2001–2200
	2085		2201–2400
	2289		2401–2600
	2489		2601–2800
	2685		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4E	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





RC2

2-sash square tilt-turn/turn DS 16 fitting groove

PVC

RC2

fixed handle position

Hinge side TITAN

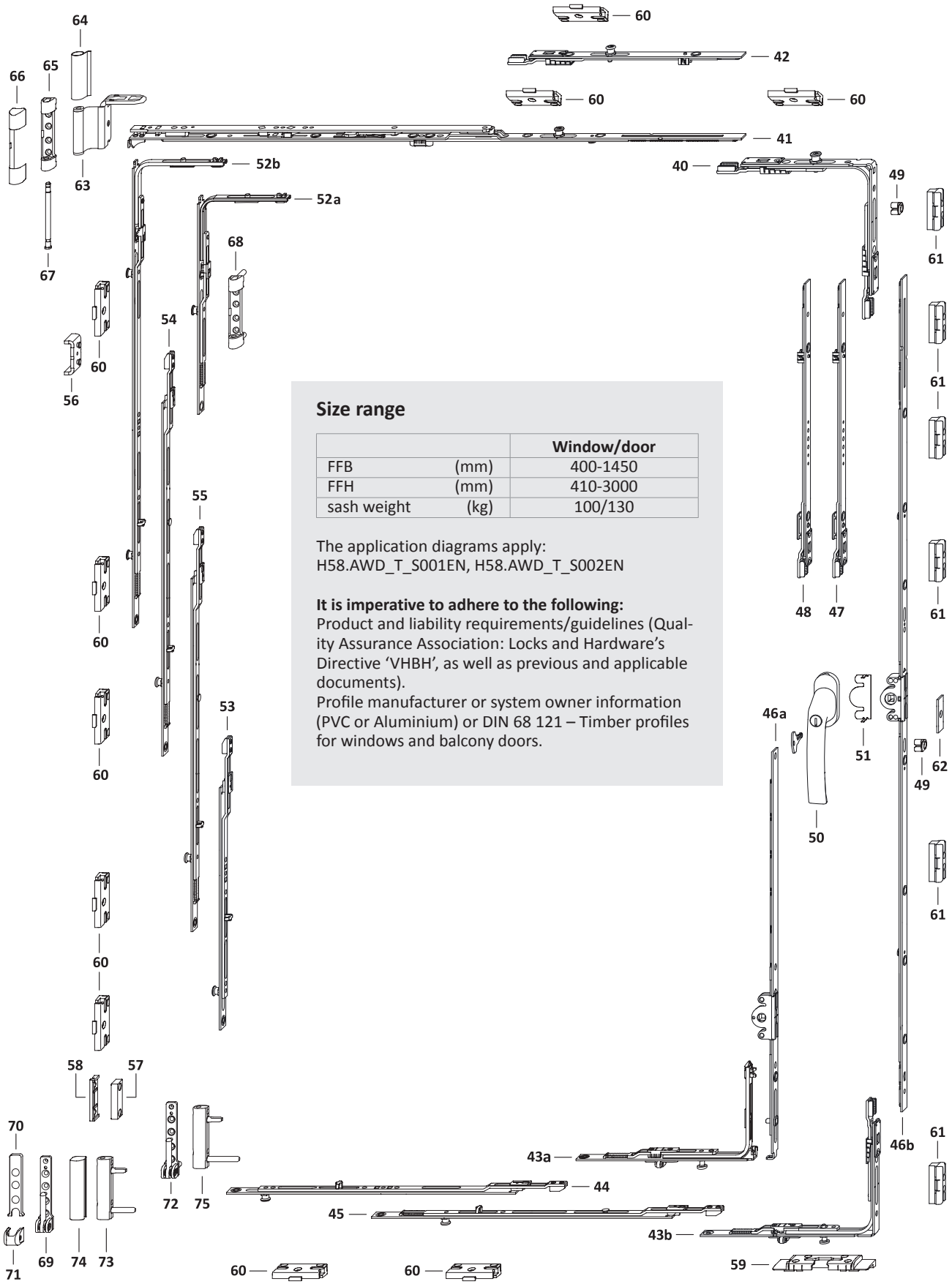
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GK Hinge side TITAN

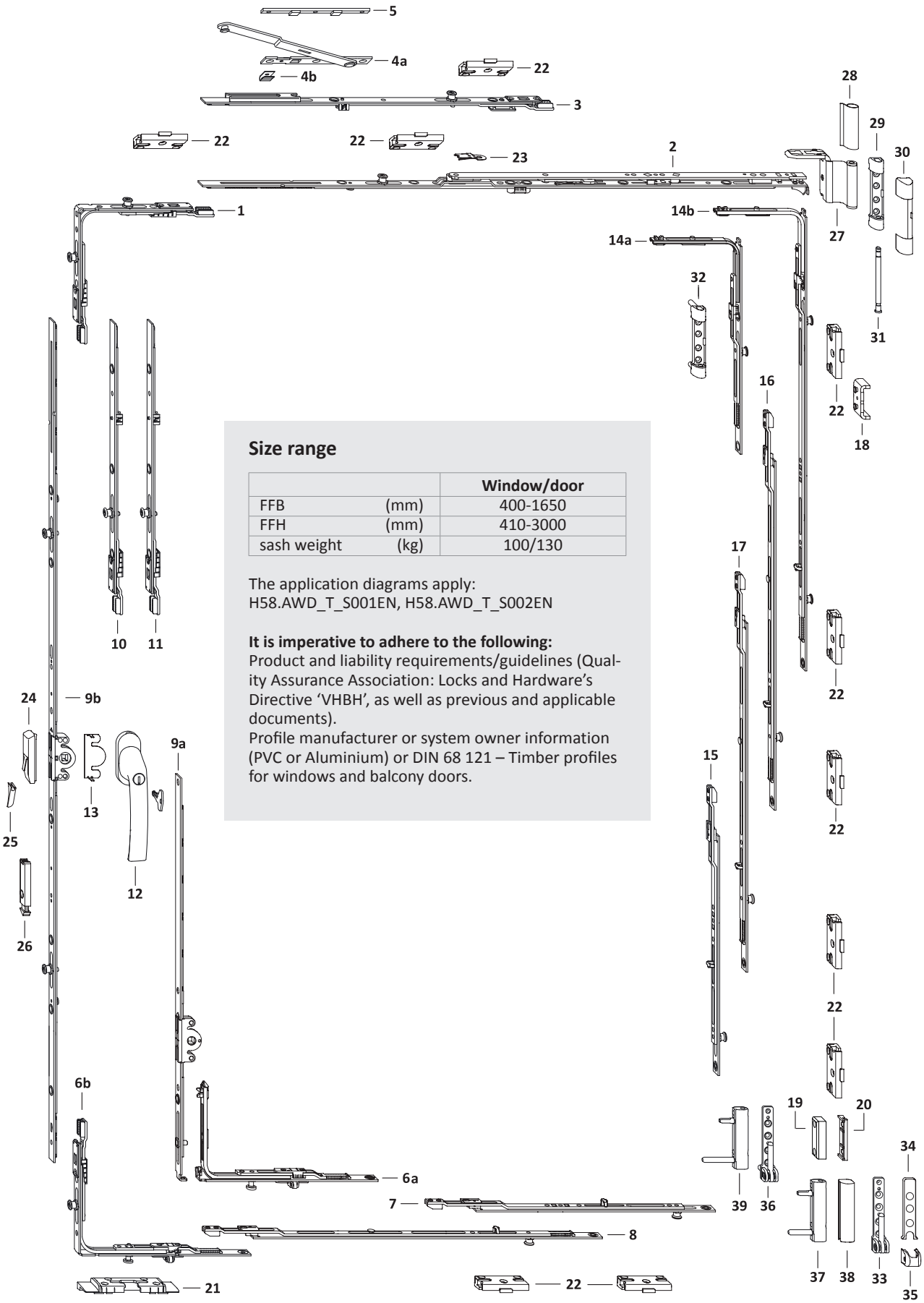


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	410-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

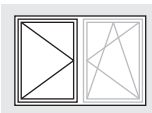
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	410-3000
sash weight	(kg)	100/130

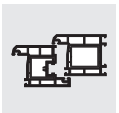
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GK Hinge side TITAN



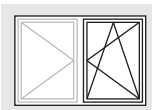


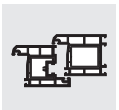
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	59	60	61
40	corn.drive VSO 1RS	TEUL4010- ...	1	400–1450				1	1
41	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 850					
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1	
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1	
42	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1	
43a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	410– 600		1		
43b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1450	601–3000		1		1
44	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1	
45	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1	
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1	
46a	gear 15 sz 30/G180	TGKK3010- ...	1	400–1250	410– 600	180			
46b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300			
	gear 15 AF OZ sz 80/G400	TGKK9100- ...			801–1000	400			1
	gear 15 AF OZ sz 100/G500	TGKK9110- ...			1001–1200	500			1
	gear 15 AF OZ sz 120/G600	TGKK9120- ...			1201–1400	600			1
	gear 15 AF OZ sz 140/G700	TGKK9130- ...			1401–1600	700			1
	gear 15 AF OZ sz 160/G700	TGKK9170- ...			1601–1800	700			1
	gear 15 AF OZ sz 180/G1000	TGKK9180- ...			1801–2000	1000			1
	gear 15 AF OZ sz 200/G1000	TGKK9160- ...			2001–3000	1000			1
47	linkage AF sz 1	TZZS0150- ...	1		2201–2400				
	linkage AF sz 2 A0767	TZKS1050- ...			2401–2600				1
	linkage AF sz 1	TZZS0150- ...			2601–2800				
	linkage AF sz 2 A0767	TZKS1050- ...			2801–3000				1
48	linkage AF sz 2 A0767	TZKS1050- ...	1		2601–2800				1
	linkage AF sz 2 A0767	TZKS1050- ...			2801–3000				1
49	travel restrictor	TFHB0010- ...	1		410–3000				
50	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		410–3000				
51	anti-drill guard E	TGBS0010- ...	1		410–3000				
52a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		410– 800			1	
52b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2	
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2	
53	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600			1	
	extension sz 3+ 1RS	TVSL0330- ...			601– 800			1	
	extension sz 2+ 1RS	TVSL0320- ...			801–1000			1	
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400			1	
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800			1	
	extension sz 4+ 1RS	TVSL0340- ...			1801–2200			1	
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400			1	
	extension sz 5+ 1RS	TVSL0350- ...			2401–2800			1	
	extension sz 4+ 1RS	TVSL0340- ...			2801–3000			1	
54	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1	
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1	
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1	
55	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1	
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1	
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1	
56	anti-lift device	Ref. PDB, TFAH	1		410–3000				
57	Air gap limiter	Ref. PDB, FRFL	1		410–3000				
58	packer RB/FPS	Ref. PDB, FRUP02	1		410–3000				
59	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
60	striker plate S-RS	Ref. PDB, TRSK							
61	striker plate S-RS A2000	TRSK0700- ...							
on request									
62	stop 2,2mm	710937	1		601–3000				

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
63	stay hinge DH	Ref. PDB, TBWB61			1	1
64	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
65	top hinge 100kg	Ref. PDB, TBSL61			1	
66	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
67	top hinge pin Poly	TBSB6020-1 ...			1	1
68	top hinge 130kg	Ref. PDB, TBSL62				1
69	bottom hinge 100kg	Ref. PDB, TBEL01			1	
70	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
71	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
72	bottom hinge 130kg	Ref. PDB, TBEL02				1
73	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
74	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
75	corner hinge PVC130kg	Ref. PDB, TBEB63				1

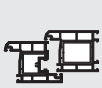
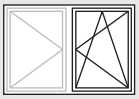
List of fittings main sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	400–1650				1
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	410– 600		1	
6b	corn.drive AF VSU/K+ FH 1S 1RS A0055	TEUL5020- ...	1	400–1650	601–3000		1	
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
9a	gear 15 sz 30/G180	TGKK3010- ...	1	400–1250	410– 600	180		
9b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		
10	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
11	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		410–3000			
13	anti-drill guard E	TGBS0010- ...	1		410–3000			
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		410– 800			1
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
15	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600			1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800			1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000			1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800			1
	extension sz 4+ 1RS	TVSL0340- ...			1801–2200			1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400			1
	extension sz 5+ 1RS	TVSL0350- ...			2401–2800			1
	extension sz 4+ 1RS	TVSL0340- ...			2801–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
18	anti-lift device	Ref. PDB, TFAH	1		410–3000			
19	Air gap limiter	Ref. PDB, FRFL	1		410–3000			
20	packer RB/FPS	Ref. PDB, FRUP02	1		410–3000			
21	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
22	striker plate S-RS	Ref. PDB, TRSK						

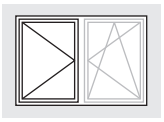



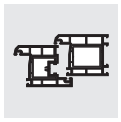
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
on request								
23	tilt restrictor ..	TFKB0010- ...	1		410– 800			
24	mishandling device	TFBS0010- ...	1		601–3000			
25	pressure piece	Ref. PDB, TFFD	1		601–3000			
26	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

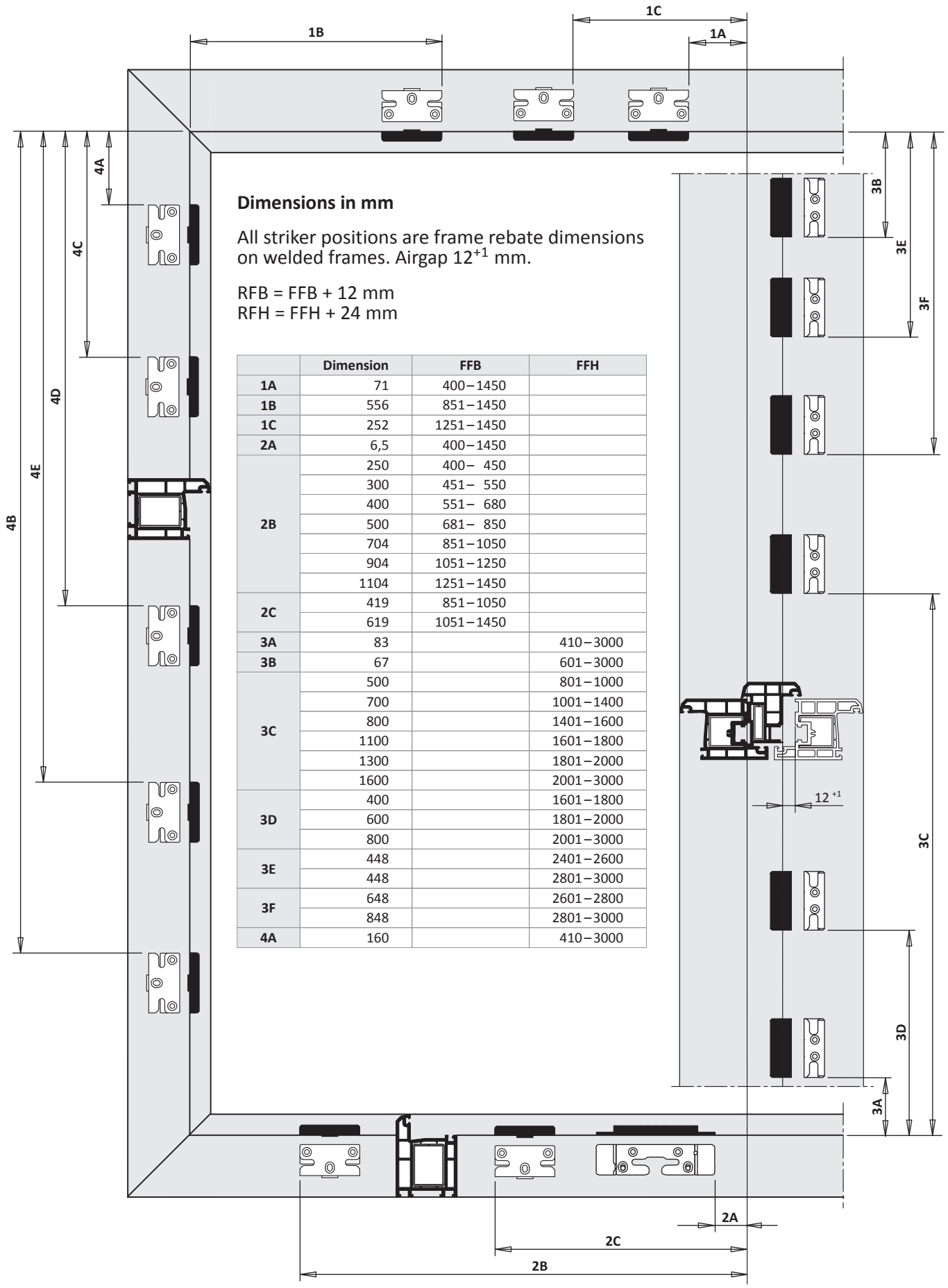
Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
27	stay hinge DH	Ref. PDB, TBWB61			1	1
28	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
29	top hinge 100kg	Ref. PDB, TBSL61			1	
30	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
31	top hinge pin Poly	TBSB6020-1 ...			1	1
32	top hinge 130kg	Ref. PDB, TBSL62				1
33	bottom hinge 100kg	Ref. PDB, TBEL01			1	
34	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
35	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
36	bottom hinge 130kg	Ref. PDB, TBEL02				1
37	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
38	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
39	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GK Hinge side TITAN





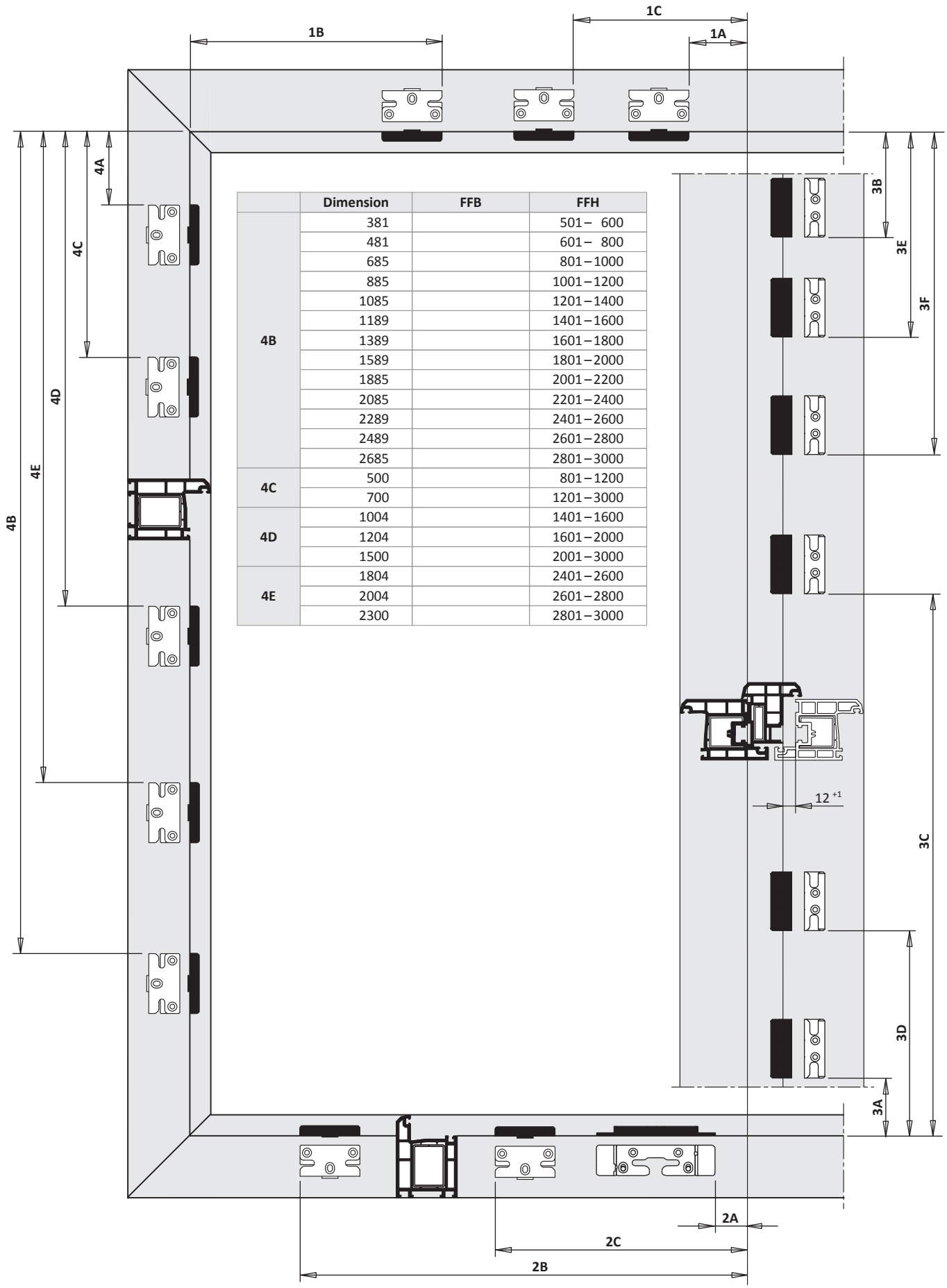


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

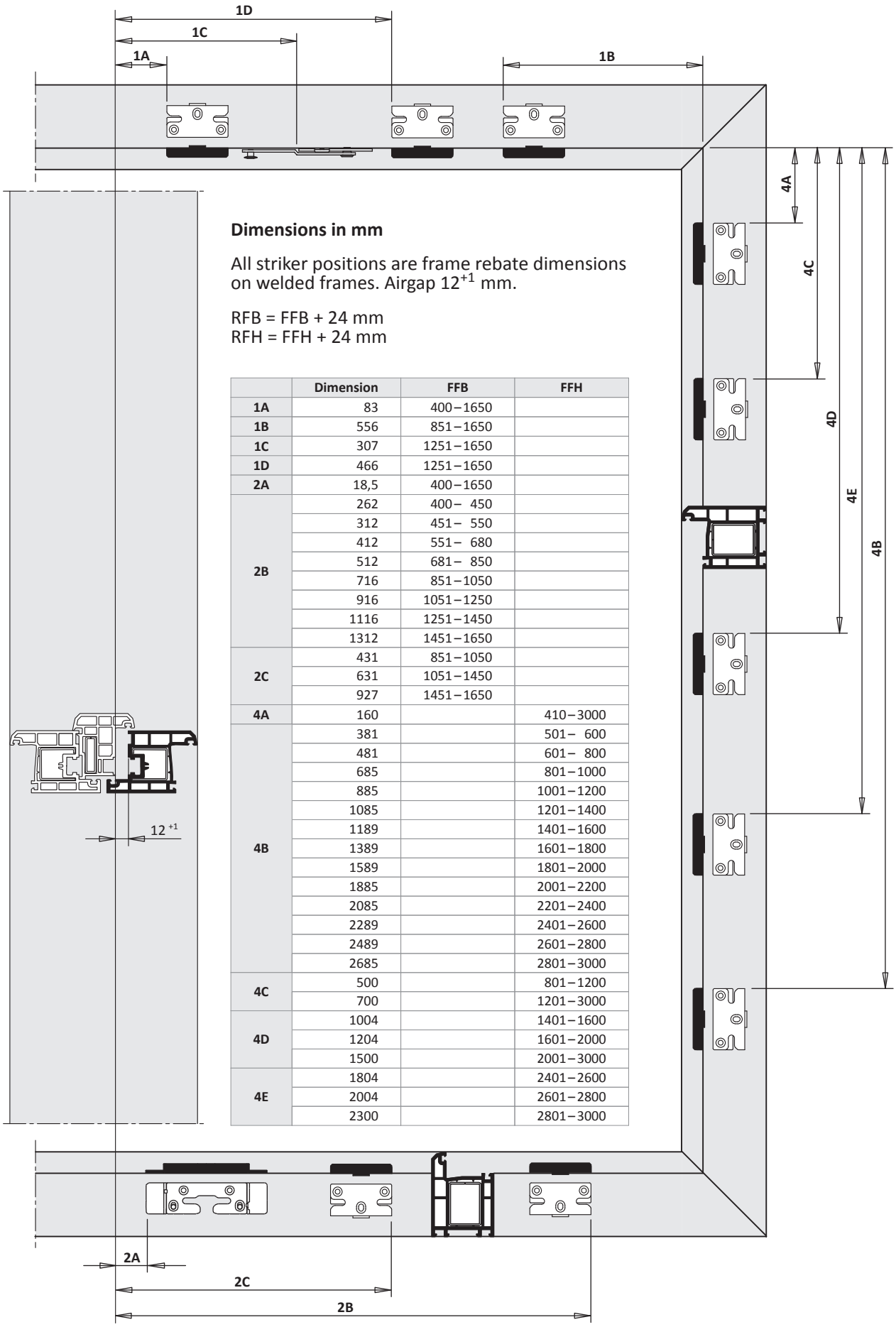
	Dimension	FFB	FFH
1A	71	400–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	6,5	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1104	1251–1450	
2C	419	851–1050	
	619	1051–1450	
3A	83		410–3000
3B	67		601–3000
3C	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3D	400		1601–1800
	600		1801–2000
	800		2001–3000
3E	448		2401–2600
	448		2801–3000
3F	648		2601–2800
	848		2801–3000
4A	160		410–3000



	Dimension	FFB	FFH
4B	381		501 – 600
	481		601 – 800
	685		801 – 1000
	885		1001 – 1200
	1085		1201 – 1400
	1189		1401 – 1600
	1389		1601 – 1800
	1589		1801 – 2000
	1885		2001 – 2200
	2085		2201 – 2400
	2289		2401 – 2600
	2489		2601 – 2800
	2685		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1204		1601 – 2000
	1500		2001 – 3000
4E	1804		2401 – 2600
	2004		2601 – 2800
	2300		2801 – 3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GK Hinge side TITAN



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		410–3000
4B	381		501– 600
	481		601– 800
	685		801–1000
	885		1001–1200
	1085		1201–1400
	1189		1401–1600
	1389		1601–1800
	1589		1801–2000
	1885		2001–2200
	2085		2201–2400
	2289		2401–2600
	2489		2601–2800
	2685		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4E	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions




RC2

1-sash square tilt-turn

PVC

RC2

fixed handle position

Hinge side TITAN

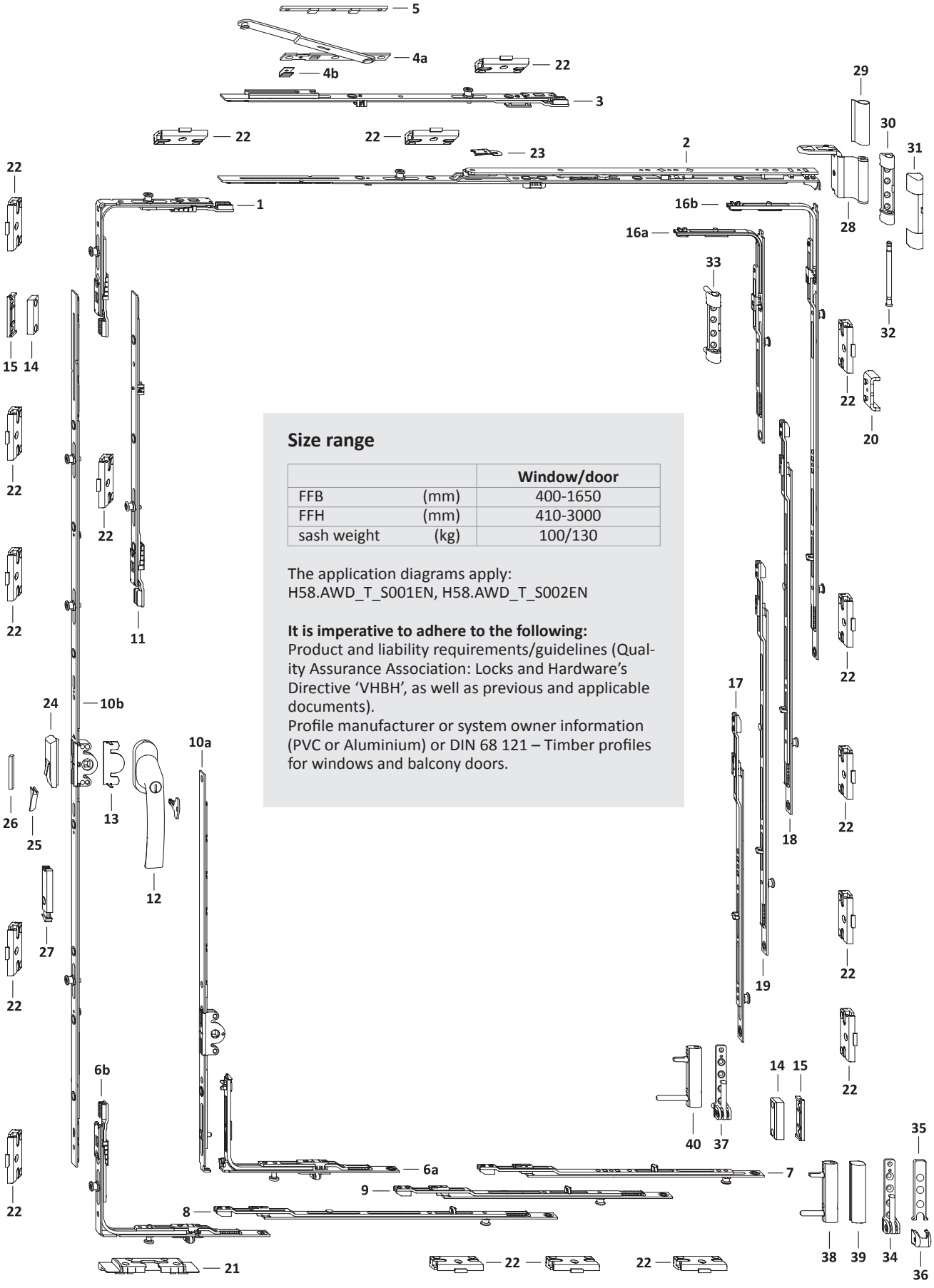
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GK Hinge side TITAN



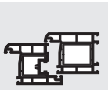
6

Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	410-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

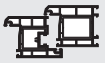



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	400–1650				2
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2 1RS	TSKK2120- ...		681– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	410– 600		1	
6b	corn.drive AF VSU/K+ FH 1S 1RS A0055	TEUL5020- ...	1	400–1650	601–3000		1	1
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
10a	gear 15 sz 30/G180	TGKK3010- ...	1	400–1250	410– 600	180		
10b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300		
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300		1
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700		2
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000		3
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000		3
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800			1
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000			1
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		410–3000			
13	anti-drill guard E	TGBS0010- ...	1		410–3000			
14	Air gap limiter	Ref. PDB, FRFL	2		410–3000			
15	packer RB/FPS	Ref. PDB, FRUP02	2		410–3000			
16a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		410– 800			1
16b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
17	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600			1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800			1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000			1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1600			1
	extension sz 2+ 1RS	TVSL0320- ...			1801–2000			1
	extension sz 4+ 1RS	TVSL0340- ...			2001–2200			1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400			1
	extension sz 5+ 1RS	TVSL0350- ...			2401–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2801–3000			1
20	anti-lift device	Ref. PDB, TFAH	1		410–3000			
21	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
22	striker plate S-RS	Ref. PDB, TRSK						
on request								
23	tilt restrictor ..	TFKB0010- ...	1		410– 800			

List of fittings

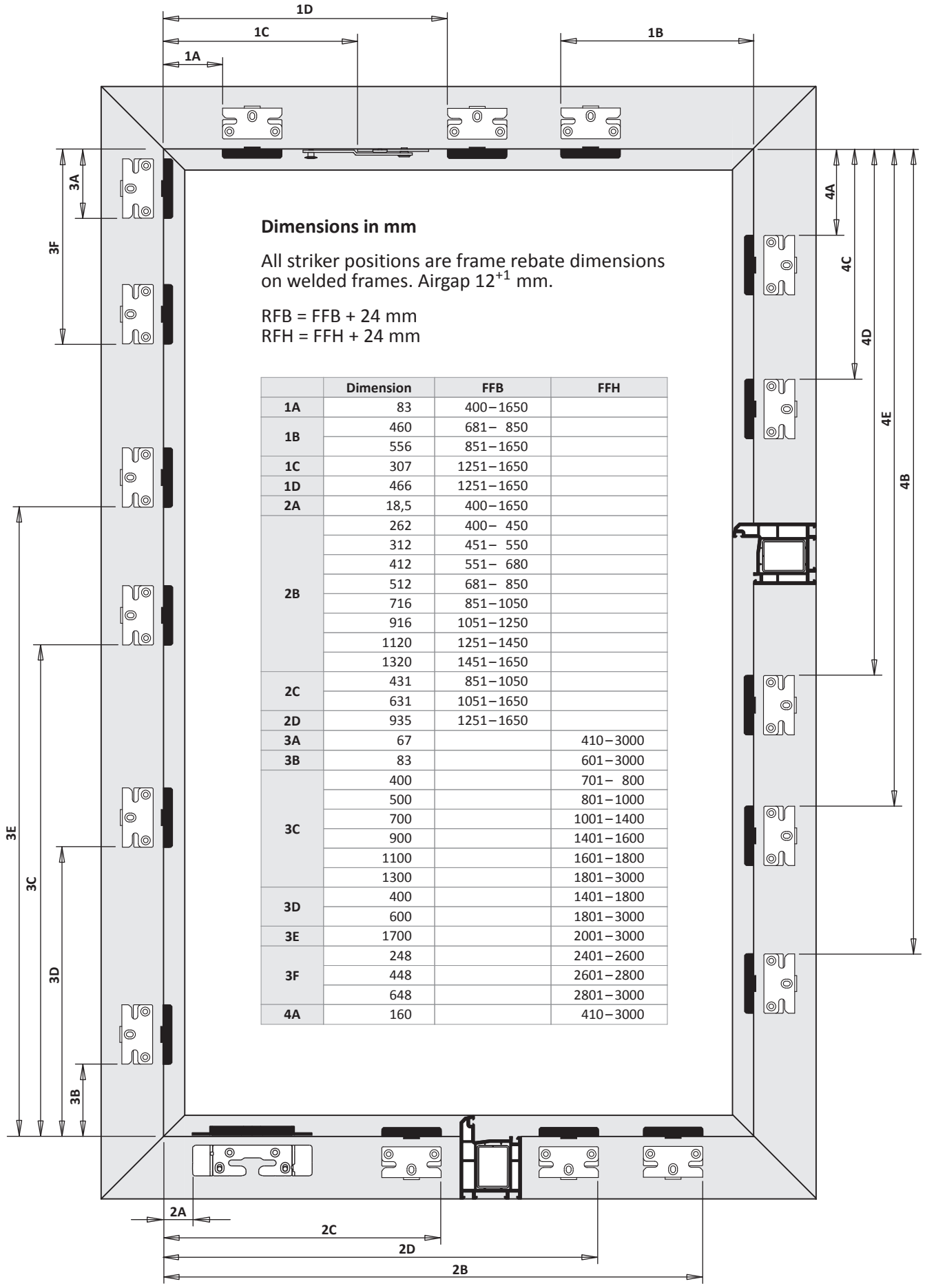
1-sash square tilt-turn
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
24	mishandling device	TFBS0010- ...	1					
25	pressure piece	Ref. PDB, TFFD	1					
26	stop	Ref. PDB, FRZF01	1					
27	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
28	stay hinge DH	Ref. PDB, TBWB61			1	1
29	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
30	top hinge 100kg	Ref. PDB, TBSL61			1	
31	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
32	top hinge pin Poly	TBSB6020-1 ...			1	1
33	top hinge 130kg	Ref. PDB, TBSL62				1
34	bottom hinge 100kg	Ref. PDB, TBEL01			1	
35	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
36	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
37	bottom hinge 130kg	Ref. PDB, TBEL02				1
38	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
39	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
40	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

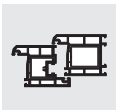
RFB = FFB + 24 mm
RFH = FFH + 24 mm

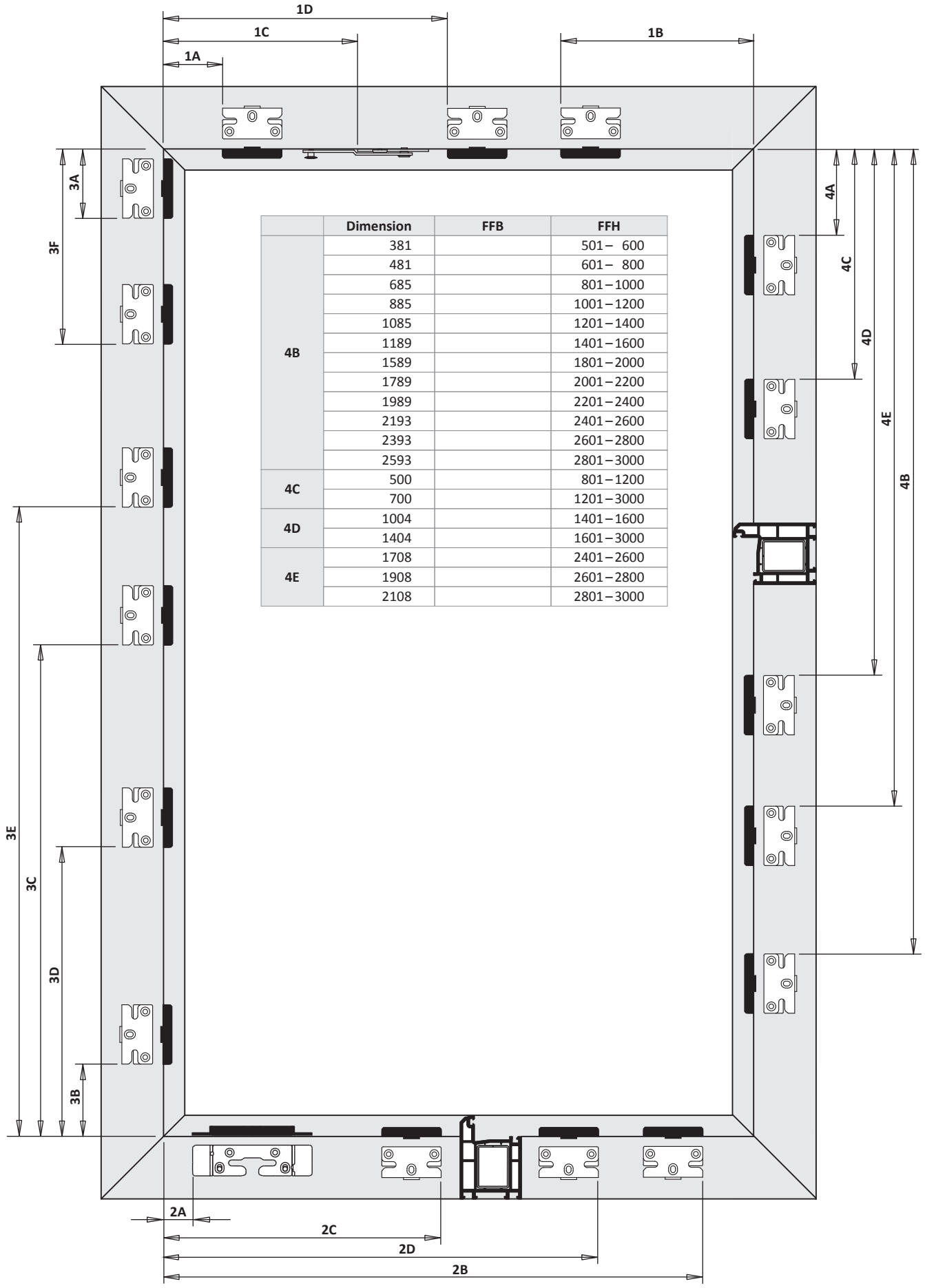
	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	681– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
3A	67		410–3000
3B	83		601–3000
3C	400		701– 800
	500		801–1000
	700		1001–1400
	900		1401–1600
	1100		1601–1800
	1300		1801–3000
3D	400		1401–1800
	600		1801–3000
3E	1700		2001–3000
3F	248		2401–2600
	448		2601–2800
	648		2801–3000
4A	160		410–3000

Frame dimensions

1-sash square tilt-turn
PVC GK Hinge side TITAN



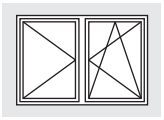


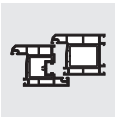


	Dimension	FFB	FFH
4B	381		501 – 600
	481		601 – 800
	685		801 – 1000
	885		1001 – 1200
	1085		1201 – 1400
	1189		1401 – 1600
	1589		1801 – 2000
	1789		2001 – 2200
	1989		2201 – 2400
	2193		2401 – 2600
	2393		2601 – 2800
	2593		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1404		1601 – 3000
4E	1708		2401 – 2600
	1908		2601 – 2800
	2108		2801 – 3000

TITAN AF

Installation instructions





RC2

2-sash square tilt-turn/turn DS 16

PVC

RC2

fixed handle position

Hinge side TITAN

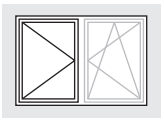
surface TS

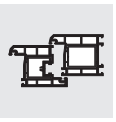
backset 15 mm

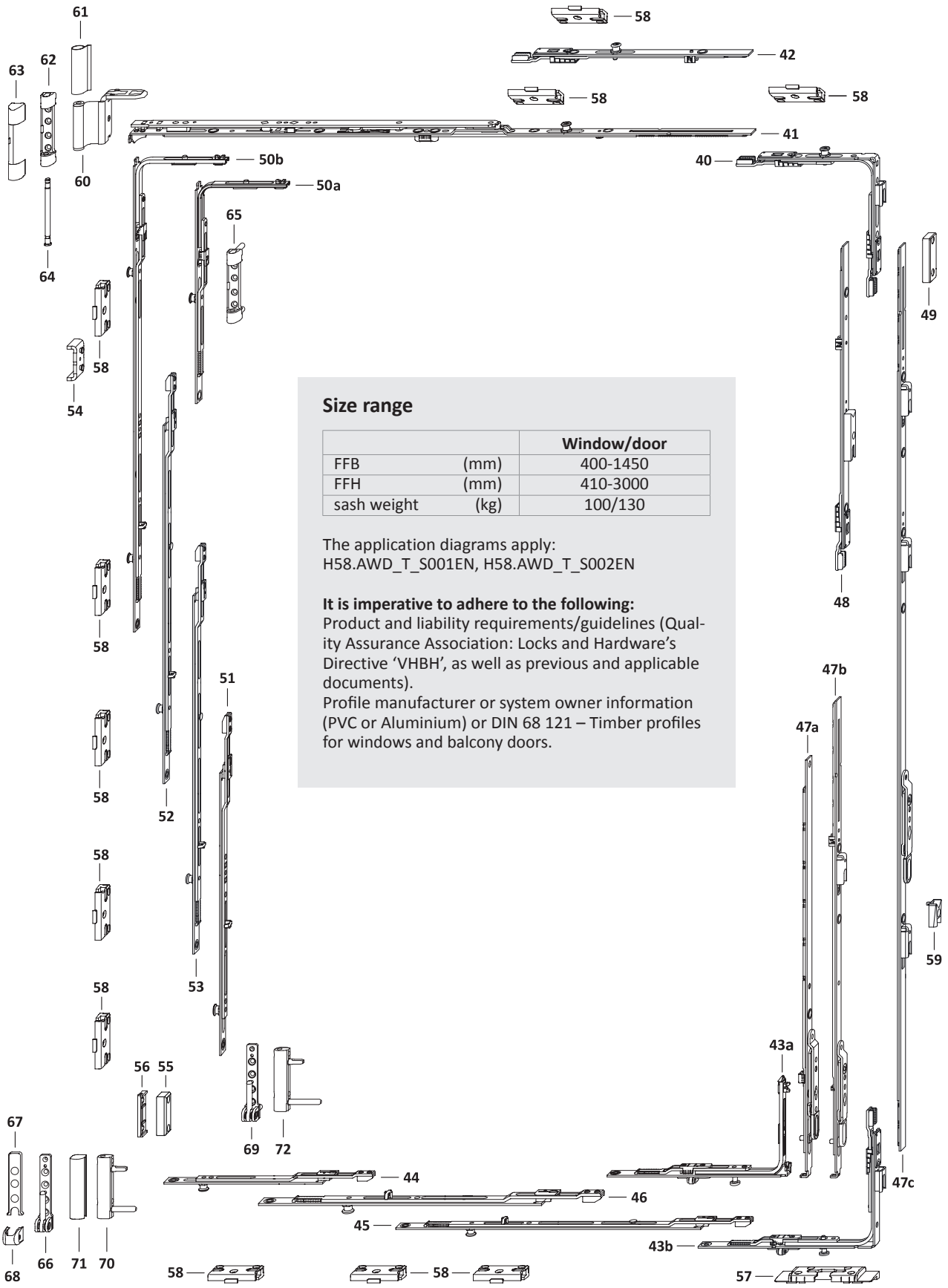
Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





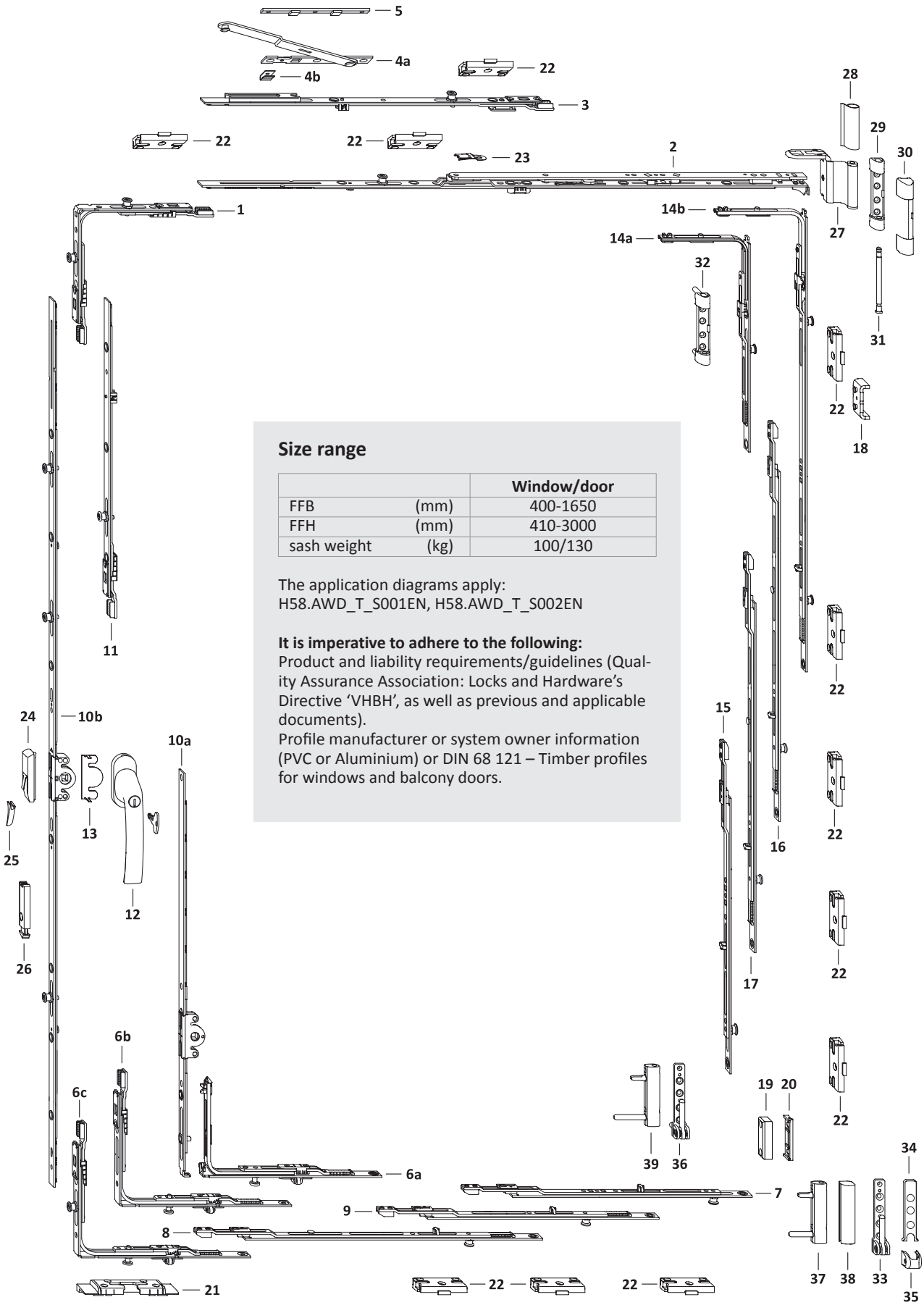


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	410-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	410-3000
sash weight	(kg)	100/130

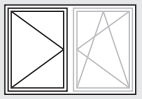
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

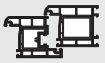
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

6

List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



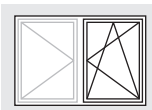


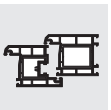
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	57	58
40	corn.drive AF VSO WK2 SB 1RS	TEUL4080- ...	1	400 – 1450				1
41	stay AF sz 0	TSKK2000- ...	1	400 – 450				
	stay AF sz 1	TSKK2010- ...		451 – 680				
	stay AF sz 2 1RS	TSKK2120- ...		681 – 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1450				1
42	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251 – 1450				1
43a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400 – 1450	410 – 800		1	
43b	corn.drive AF VSU/K+WK2 FHSB1S	TEUL5110- ...	1	400 – 1450	801 – 3000		1	
44	extension sz 1+ 1RS	TVSO0200- ...	1	400 – 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451 – 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551 – 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681 – 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851 – 1250				1
	extension sz 2+ 1RS	TVSL0320- ...		1251 – 1450				1
45	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450				1
46	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251 – 1450				1
47a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400 – 1250	410 – 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601 – 700	300		
47b	sec.sash gear 16 AF70/G300 1SB	TGKS4040- ...	1		701 – 800	300		
47c	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801 – 1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001 – 1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201 – 1400	600		
	sec.sash gear 16 AF140/G700 2S 70	TGKS4290- ...			1401 – 1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601 – 1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801 – 2000	1000		
	sec.sash gear 16 AF200/G1000 3 70	TGKS4280- ...			2001 – 2200	1000		
	sec.sash gear 16 AF220/G1000 3 70	TGKS4320- ...			2201 – 3000	1000		
48	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401 – 2600			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2601 – 2800			
	linkage AF sz 3 1SB-RS	TZKS1080- ...			2801 – 3000			
49	air gap limiter F ..	TFFB0010- ...	1		410 – 3000			
50a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		410 – 800			1
50b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000			2
51	extension sz 2+ 1RS	TVSL0320- ...	1		501 – 600			1
	extension sz 3+ 1RS	TVSL0330- ...			601 – 800			1
	extension sz 2+ 1RS	TVSL0320- ...			801 – 1000			1
	extension sz 4+ 1RS	TVSL0340- ...			1001 – 1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401 – 1600			1
	extension sz 2+ 1RS	TVSL0320- ...			1801 – 2000			1
	extension sz 4+ 1RS	TVSL0340- ...			2001 – 2200			1
	extension sz 6+ 1RS	TVSL0360- ...			2201 – 2400			1
	extension sz 5+ 1RS	TVSL0350- ...			2401 – 3000			1
52	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601 – 3000			1
53	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2801 – 3000			1
54	anti-lift device	Ref. PDB, TFAH	1		410 – 3000			
55	Air gap limiter	Ref. PDB, FRFL	1		410 – 3000			
56	packer RB/FPS	Ref. PDB, FRUP02	1		410 – 3000			
57	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
58	striker plate S-RS	Ref. PDB, TRSK						
on request								
59	striker snapper AF A0767	TRST0100- ...	1		1801 – 3000			

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
60	stay hinge DH	Ref. PDB, TBWB61			1	1
61	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
62	top hinge 100kg	Ref. PDB, TBSL61			1	
63	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
64	top hinge pin Poly	TBSB6020-1 ...			1	1
65	top hinge 130kg	Ref. PDB, TBSL62				1
66	bottom hinge 100kg	Ref. PDB, TBEL01			1	
67	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
68	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
69	bottom hinge 130kg	Ref. PDB, TBEL02				1
70	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
71	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
72	corner hinge PVC130kg	Ref. PDB, TBEB63				1

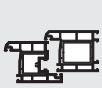
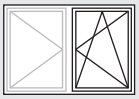
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	400–1650				1
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2 1RS	TSKK2120- ...		681– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	410– 600		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	601– 800		1	
6c	corn.drive AF VSU/K+ FH 1S 1RS A0055	TEUL5020- ...	1	400–1650	801–3000		1	
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
10a	gear 15 sz 30/G180	TGKK3010- ...	1	400–1250	410– 600	180		
10b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300		
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000		
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000		
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800			
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000			
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		410–3000			
13	anti-drill guard E	TGBS0010- ...	1		410–3000			
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		410– 800			1
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
15	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600			1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800			1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000			1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1600			1
	extension sz 2+ 1RS	TVSL0320- ...			1801–2000			1
	extension sz 4+ 1RS	TVSL0340- ...			2001–2200			1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400			1
	extension sz 5+ 1RS	TVSL0350- ...			2401–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2801–3000			1
18	anti-lift device	Ref. PDB, TFAH	1		410–3000			
19	Air gap limiter	Ref. PDB, FRFL	1		410–3000			
20	packer RB/FPS	Ref. PDB, FRUP02	1		410–3000			
21	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
22	striker plate S-RS	Ref. PDB, TRSK						

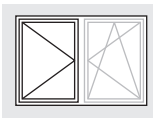



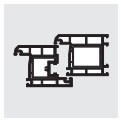
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
on request								
23	tilt restrictor ..	TFKB0010- ...	1		410– 800			
24	mishandling device	TFBS0010- ...	1		601–3000			
25	pressure piece	Ref. PDB, TFFD	1		601–3000			
26	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

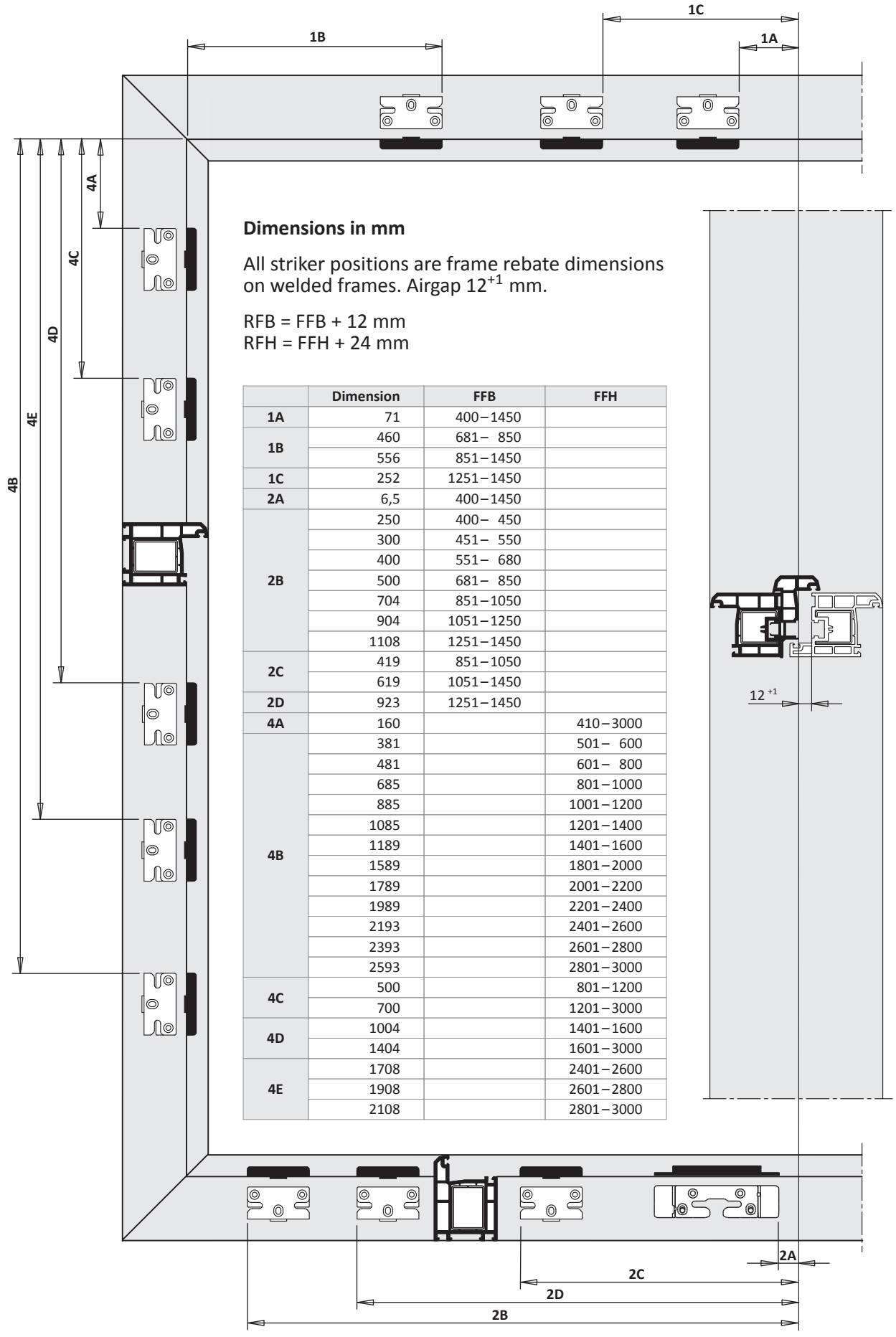
Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
27	stay hinge DH	Ref. PDB, TBWB61			1	1
28	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
29	top hinge 100kg	Ref. PDB, TBSL61			1	
30	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
31	top hinge pin Poly	TBSB6020-1 ...			1	1
32	top hinge 130kg	Ref. PDB, TBSL62				1
33	bottom hinge 100kg	Ref. PDB, TBEL01			1	
34	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
35	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
36	bottom hinge 130kg	Ref. PDB, TBEL02				1
37	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
38	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
39	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





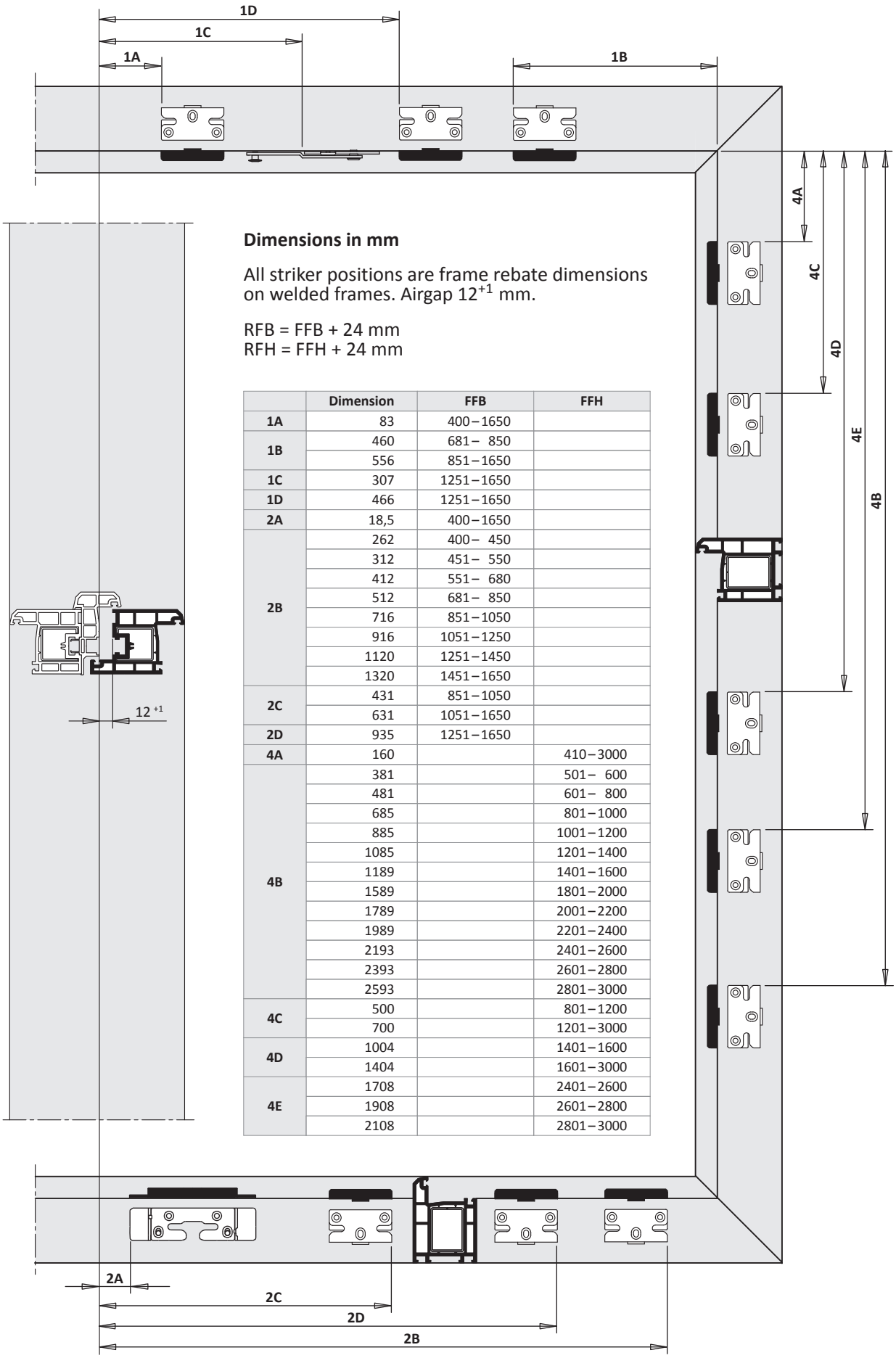


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	460	681– 850	
	556	851–1450	
1C	252	1251–1450	
2A	6,5	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1108	1251–1450	
2C	419	851–1050	
	619	1051–1450	
2D	923	1251–1450	
4A	160		410–3000
4B	381		501– 600
	481		601– 800
	685		801–1000
	885		1001–1200
	1085		1201–1400
	1189		1401–1600
	1589		1801–2000
	1789		2001–2200
	1989		2201–2400
	2193		2401–2600
	2393		2601–2800
	2593		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1404		1601–3000
4E	1708		2401–2600
	1908		2601–2800
	2108		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400 – 1650	
1B	460	681 – 850	
	556	851 – 1650	
1C	307	1251 – 1650	
1D	466	1251 – 1650	
2A	18,5	400 – 1650	
2B	262	400 – 450	
	312	451 – 550	
	412	551 – 680	
	512	681 – 850	
	716	851 – 1050	
	916	1051 – 1250	
	1120	1251 – 1450	
	1320	1451 – 1650	
2C	431	851 – 1050	
	631	1051 – 1650	
2D	935	1251 – 1650	
4A	160		410 – 3000
4B	381		501 – 600
	481		601 – 800
	685		801 – 1000
	885		1001 – 1200
	1085		1201 – 1400
	1189		1401 – 1600
	1589		1801 – 2000
	1789		2001 – 2200
	1989		2201 – 2400
	2193		2401 – 2600
	2393		2601 – 2800
	2593		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1404		1601 – 3000
4E	1708		2401 – 2600
	1908		2601 – 2800
	2108		2801 – 3000

TITAN AF

Installation instructions




RC2

1-sash square tilt-turn

PVC

RC2

fixed handle position

Hinge side TITAN

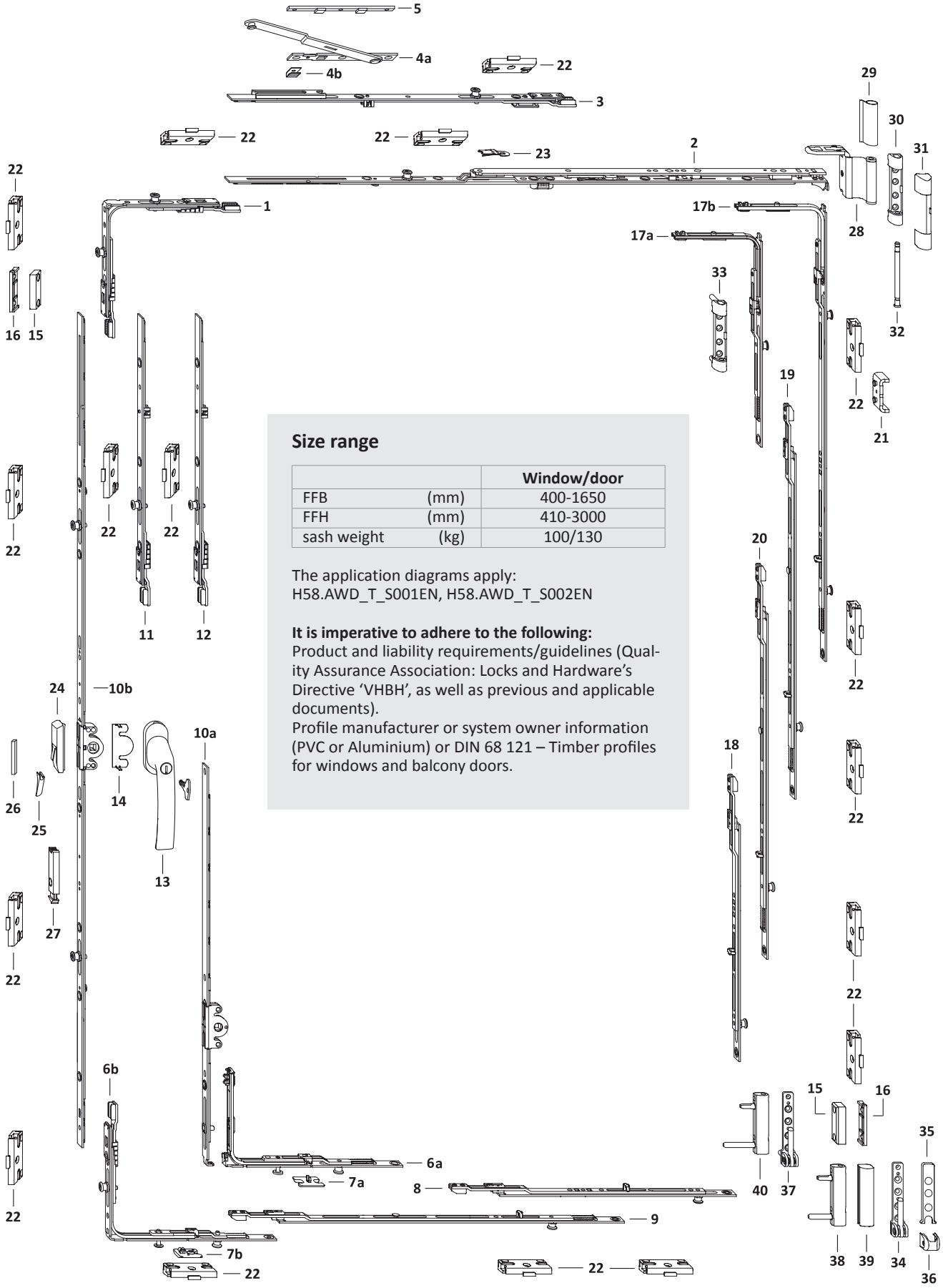
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GK Hinge side TITAN

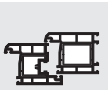


Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	410-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

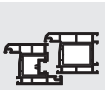



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							22
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	400 – 1650			2
2	stay AF sz 0	TSKK2000- ...	1	400 – 450			
	stay AF sz 1	TSKK2010- ...		451 – 680			
	stay AF sz 2	TSKK2020- ...		681 – 850			
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1250			1
	stay AF sz 3 1RS	TSKK2030- ...		1251 – 1450			1
	stay AF sz 4 1RS	TSKK2040- ...		1451 – 1650			1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650			1
4	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
5	packer Z	Ref. PDB, FRUP01	1	1251 – 1650			
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400 – 1250	410 – 600		1
6b	corn.drive AF VSU/K 56+ 1S 2RS	TEUL5040- ...	1	400 – 1650	601 – 3000		2
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400 – 1250	410 – 600		
7b	run up block AF 13 mm 13	TFFH0080- ...	1	400 – 1650	601 – 3000		
8	extension sz 1+ 1RS	TVSO0200- ...	1	400 – 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451 – 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551 – 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681 – 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851 – 1250			1
	extension sz 5+ 1RS	TVSL0350- ...		1251 – 1450			1
	extension sz 4+ 1RS	TVSL0340- ...		1451 – 1650			1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650			1
10a	gear 15 sz 30/G180	TGKK3010- ...	1	400 – 1250	410 – 600	180	
10b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601 – 800	300	
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801 – 1000	400	1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001 – 1200	500	1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201 – 1400	600	1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401 – 1600	700	1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601 – 1800	700	2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801 – 2000	1000	2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001 – 3000	1000	2
11	linkage AF sz 1	TZZS0150- ...	1		2201 – 2400		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401 – 2600		1
	linkage AF sz 1	TZZS0150- ...			2601 – 2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000		1
12	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601 – 2800		1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000		1
13	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		410 – 3000		
14	anti-drill guard E	TGBS0010- ...	1		410 – 3000		
15	Air gap limiter	Ref. PDB, FRFL	2		410 – 3000		
16	packer RB/FPS	Ref. PDB, FRUP02	2		410 – 3000		
17a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		410 – 800		1
17b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2
18	extension sz 2+ 1RS	TVSL0320- ...	1		501 – 600		1
	extension sz 3+ 1RS	TVSL0330- ...			601 – 800		1
	extension sz 2+ 1RS	TVSL0320- ...			801 – 1000		1
	extension sz 4+ 1RS	TVSL0340- ...			1001 – 1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401 – 1800		1
	extension sz 4+ 1RS	TVSL0340- ...			1801 – 2200		1
	extension sz 6+ 1RS	TVSL0360- ...			2201 – 2400		1
	extension sz 5+ 1RS	TVSL0350- ...			2401 – 2800		1
	extension sz 4+ 1RS	TVSL0340- ...			2801 – 3000		1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000		1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000		1
21	anti-lift device	Ref. PDB, TFAH	1		410 – 3000		

List of fittings

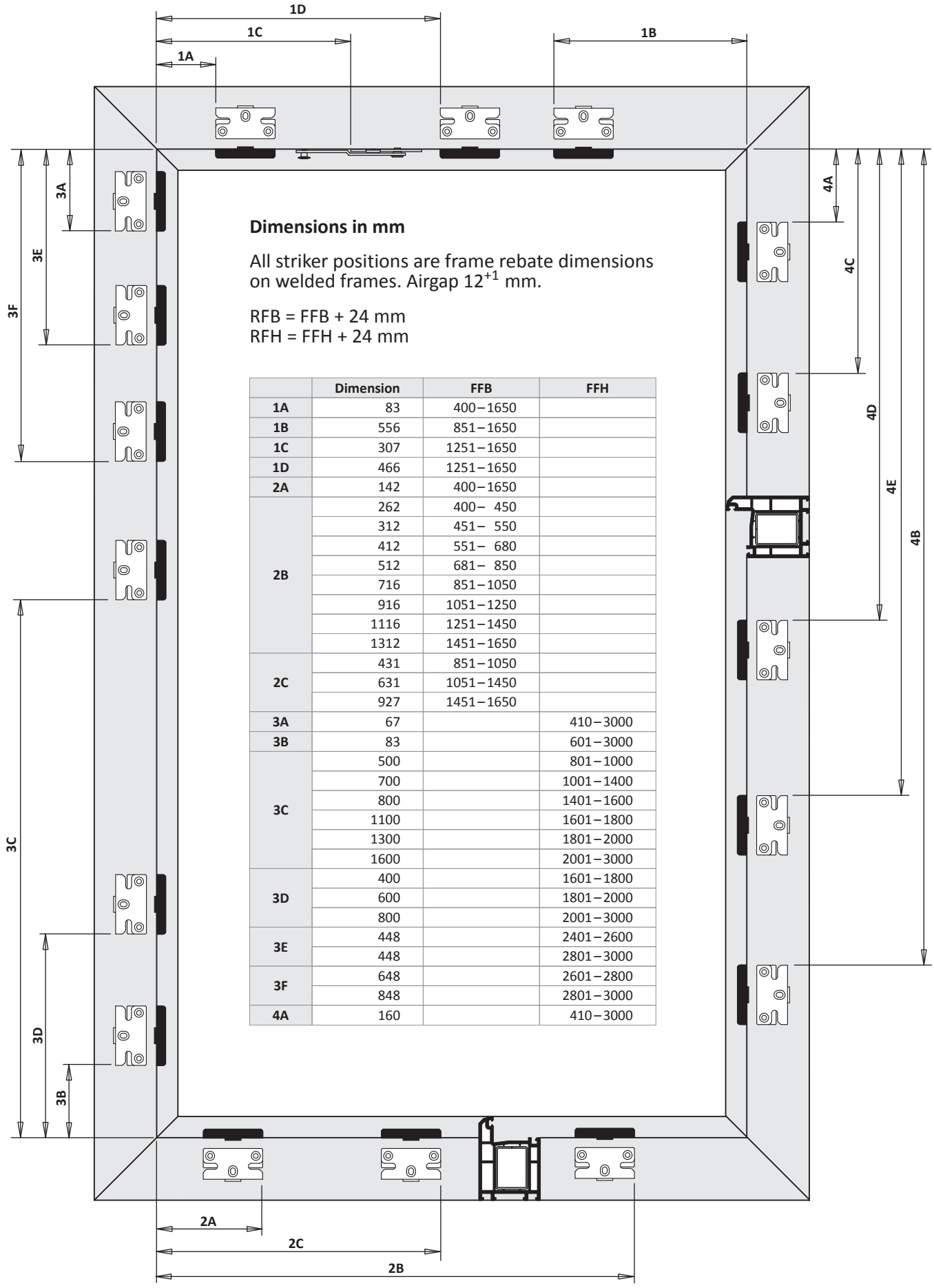
1-sash square tilt-turn
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							22
22	striker plate S-RS	Ref. PDB, TRSK					
on request							
23	tilt restrictor ..	TFKB0010- ...	1		410– 800		
24	mishandling device	TFBS0010- ...	1				
25	pressure piece	Ref. PDB, TFFD	1				
26	stop	Ref. PDB, FRZF01	1				
27	snapper rh.	TFST0021- ...	1		1801–3000		
	snapper lh.	TFST0022- ...			1801–3000		

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
28	stay hinge DH	Ref. PDB, TBWB61			1	1
29	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
30	top hinge 100kg	Ref. PDB, TBSL61			1	
31	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
32	top hinge pin Poly	TBSB6020-1 ...			1	1
33	top hinge 130kg	Ref. PDB, TBSL62				1
34	bottom hinge 100kg	Ref. PDB, TBEL01			1	
35	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
36	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
37	bottom hinge 130kg	Ref. PDB, TBEL02				1
38	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
39	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
40	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

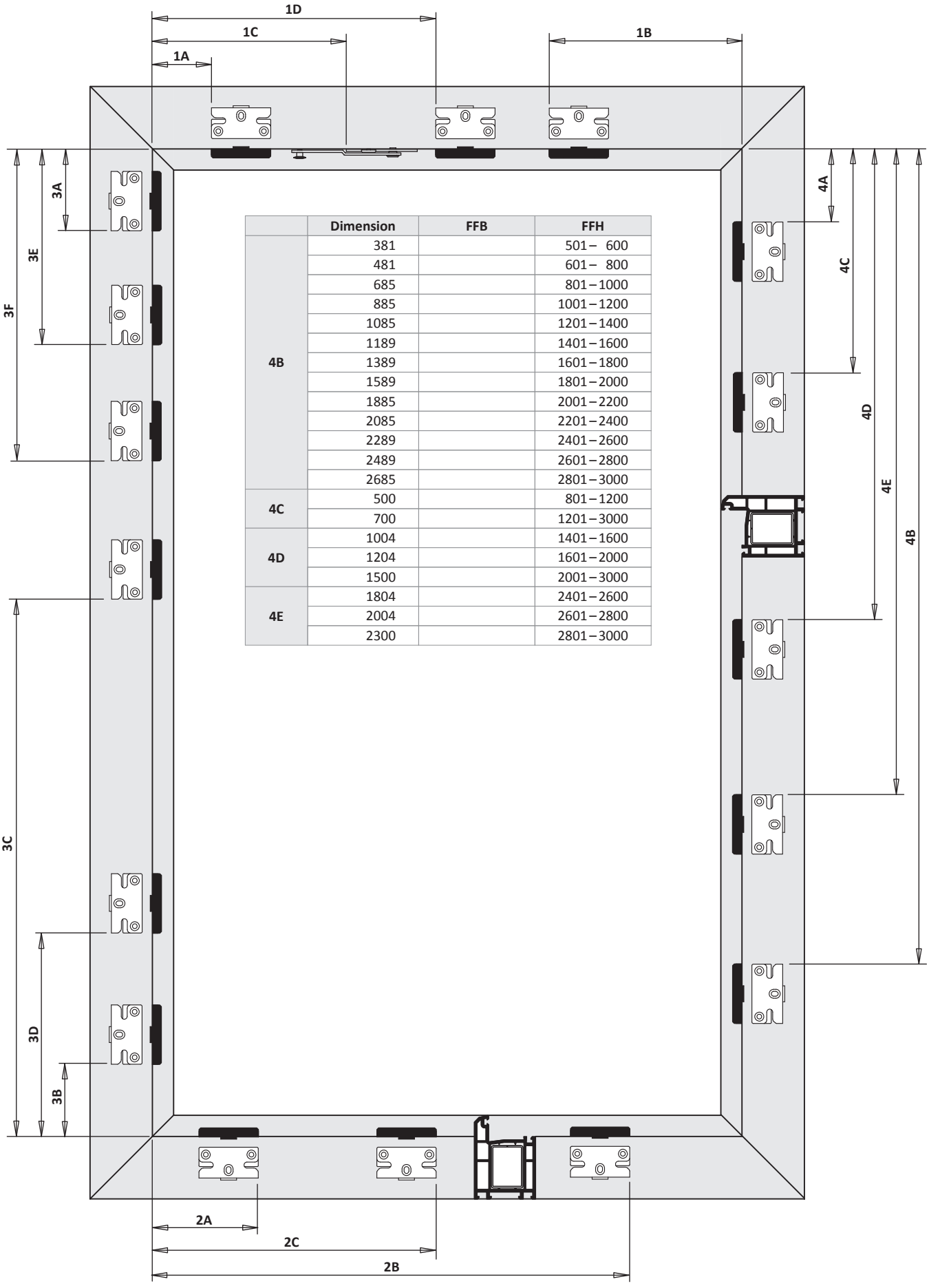
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67		410–3000
3B	83		601–3000
3C	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3D	400		1601–1800
	600		1801–2000
	800		2001–3000
3E	448		2401–2600
	448		2801–3000
3F	648		2601–2800
	848		2801–3000
4A	160		410–3000

Frame dimensions

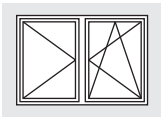
1-sash square tilt-turn
PVC GK Hinge side TITAN

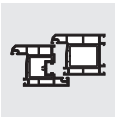


	Dimension	FFB	FFH
4B	381		501 – 600
	481		601 – 800
	685		801 – 1000
	885		1001 – 1200
	1085		1201 – 1400
	1189		1401 – 1600
	1389		1601 – 1800
	1589		1801 – 2000
	1885		2001 – 2200
	2085		2201 – 2400
	2289		2401 – 2600
	2489		2601 – 2800
	2685		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1204		1601 – 2000
	1500		2001 – 3000
4E	1804		2401 – 2600
	2004		2601 – 2800
	2300		2801 – 3000

TITAN AF

Installation instructions





RC2

2-sash square tilt-turn/turn DS 16

PVC

RC2

fixed handle position

Hinge side TITAN

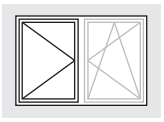
surface TS

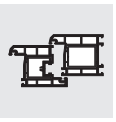
backset 15 mm

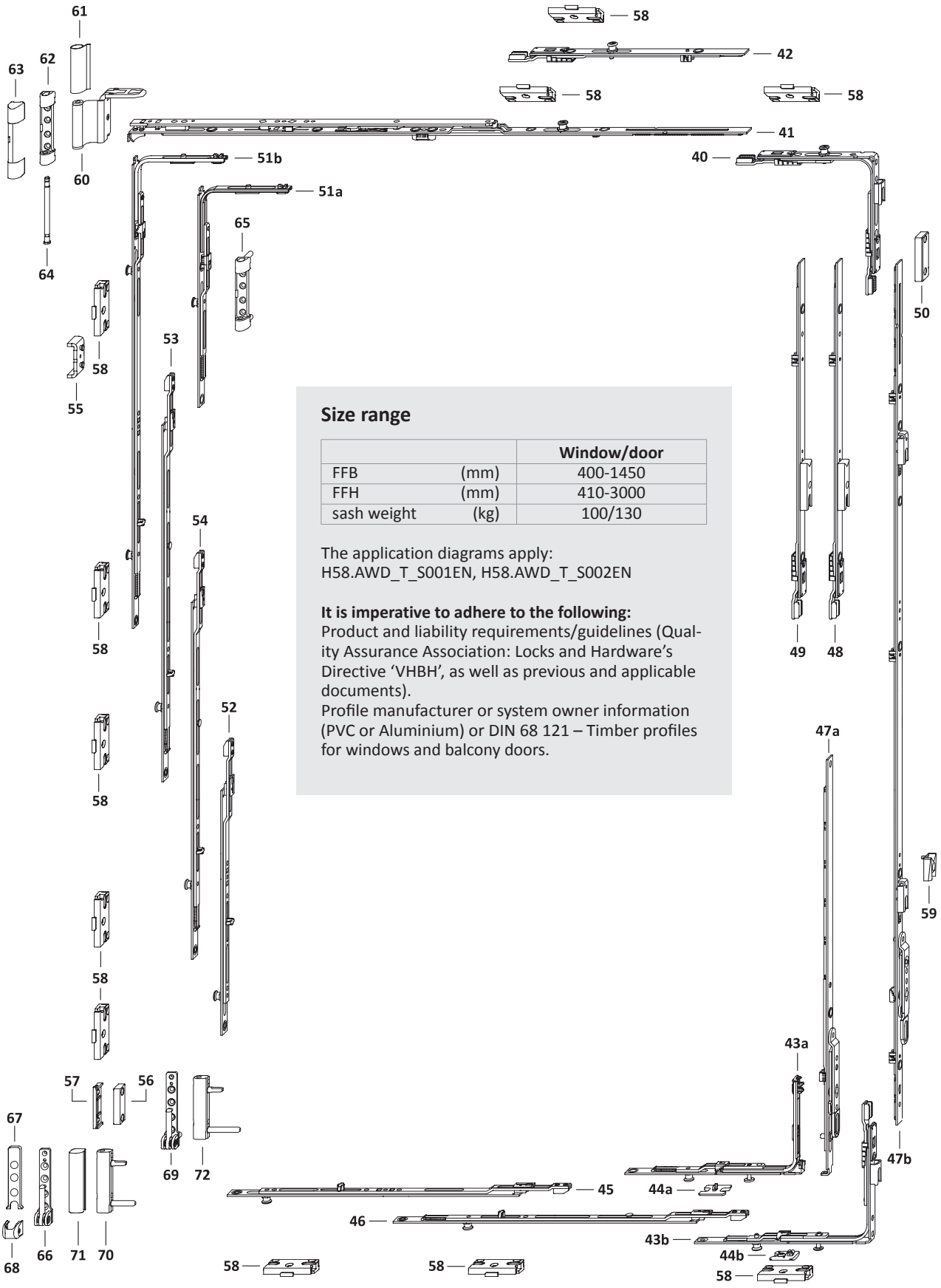
Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





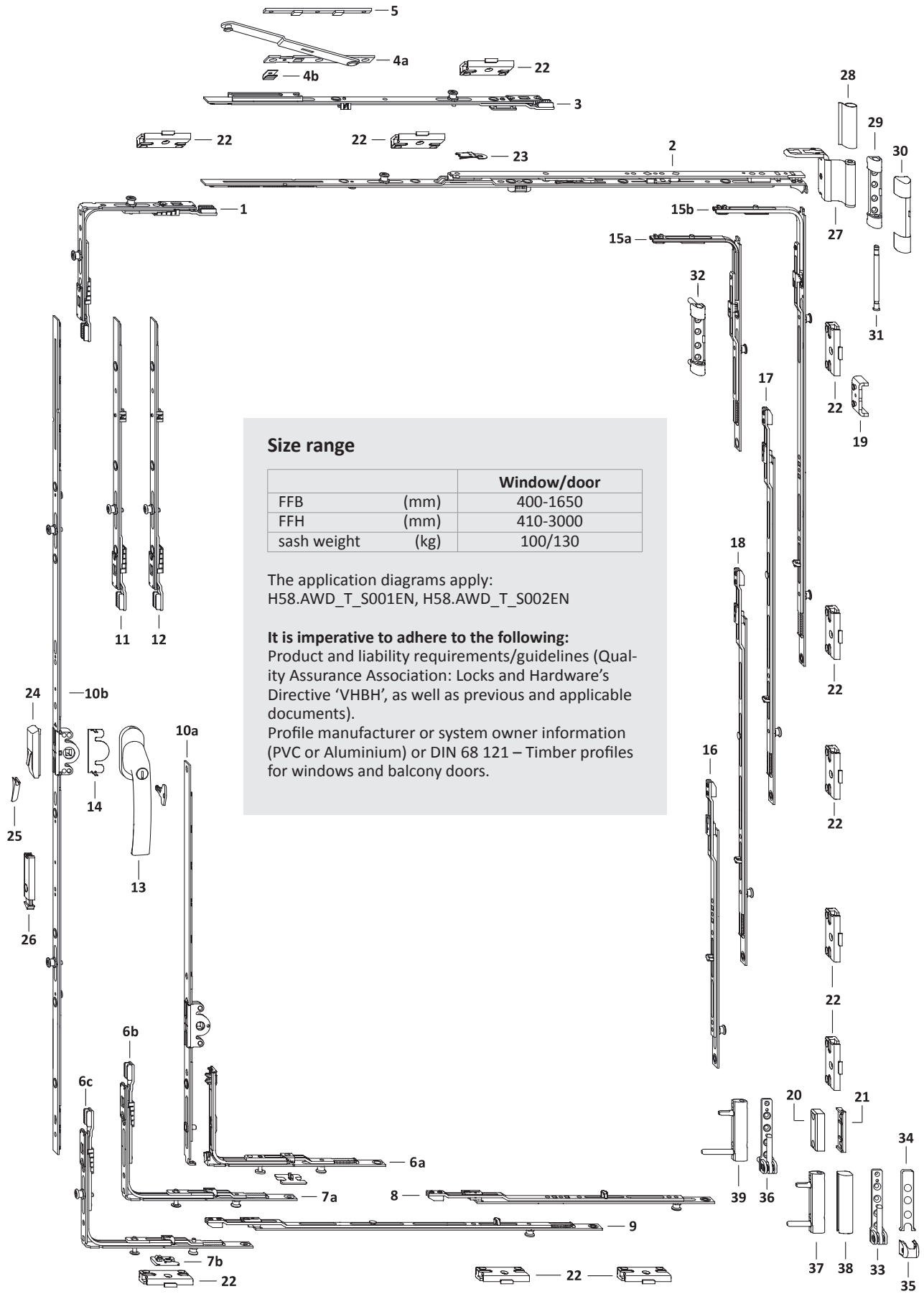


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	410-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

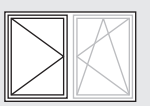
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	410-3000
sash weight	(kg)	100/130

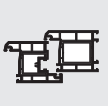
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



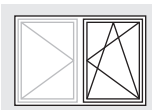


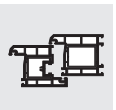
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
						In the main sash	58
40	corn.drive AF VSO WK2 SB 1RS	TEUL4080- ...	1	400 – 1450			1
41	stay AF sz 0	TSKK2000- ...	1	400 – 450			
	stay AF sz 1	TSKK2010- ...		451 – 680			
	stay AF sz 2	TSKK2020- ...		681 – 850			
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1450			1
42	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251 – 1450			1
43a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400 – 1450	410 – 800		1
43b	corn.drive AFVSU/K 56+ SB1S1RS	TEUL5120- ...	1	400 – 1450	801 – 3000		1
44a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400 – 1450	410 – 800		
44b	run up block AF 13 mm 13	TFFH0080- ...	1	400 – 1450	801 – 3000		
45	extension sz 1+ 1RS	TVSO0200- ...	1	400 – 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451 – 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551 – 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681 – 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851 – 1250			1
	extension sz 5+ 1RS	TVSL0350- ...		1251 – 1450			1
46	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450			1
47a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400 – 1250	410 – 600	180	
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601 – 800	300	
47b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801 – 1000	400	
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001 – 1200	500	
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201 – 1400	600	
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401 – 1600	700	
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601 – 1800	700	
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801 – 2000	1000	
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001 – 3000	1000	
48	linkage AF sz 1	TZZS0150- ...	1		2201 – 2400		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401 – 2600		
	linkage AF sz 1	TZZS0150- ...			2601 – 2800		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000		
49	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601 – 2800		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000		
50	air gap limiter F ..	TFFB0010- ...	1		410 – 3000		
51a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		410 – 800		1
51b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2
52	extension sz 2+ 1RS	TVSL0320- ...	1		501 – 600		1
	extension sz 3+ 1RS	TVSL0330- ...			601 – 800		1
	extension sz 2+ 1RS	TVSL0320- ...			801 – 1000		1
	extension sz 4+ 1RS	TVSL0340- ...			1001 – 1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401 – 1800		1
	extension sz 4+ 1RS	TVSL0340- ...			1801 – 2200		1
	extension sz 6+ 1RS	TVSL0360- ...			2201 – 2400		1
	extension sz 5+ 1RS	TVSL0350- ...			2401 – 2800		1
	extension sz 4+ 1RS	TVSL0340- ...			2801 – 3000		1
53	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000		1
54	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000		1
55	anti-lift device	Ref. PDB, TFAH	1		410 – 3000		
56	Air gap limiter	Ref. PDB, FRFL	1		410 – 3000		
57	packer RB/FPS	Ref. PDB, FRUP02	1		410 – 3000		
58	striker plate S-RS	Ref. PDB, TRSK					
on request							
59	striker snapper AF A0767	TRST0100- ...	1		1801 – 3000		

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
60	stay hinge DH	Ref. PDB, TBWB61			1	1
61	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
62	top hinge 100kg	Ref. PDB, TBSL61			1	
63	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
64	top hinge pin Poly	TBSB6020-1 ...			1	1
65	top hinge 130kg	Ref. PDB, TBSL62				1
66	bottom hinge 100kg	Ref. PDB, TBEL01			1	
67	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
68	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
69	bottom hinge 130kg	Ref. PDB, TBEL02				1
70	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
71	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
72	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





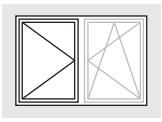
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							22
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	400 – 1650			1
2	stay AF sz 0	TSKK2000- ...	1	400 – 450			
	stay AF sz 1	TSKK2010- ...		451 – 680			
	stay AF sz 2	TSKK2020- ...		681 – 850			
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1250			1
	stay AF sz 3 1RS	TSKK2030- ...		1251 – 1450			1
	stay AF sz 4 1RS	TSKK2040- ...		1451 – 1650			1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650			1
4	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
5	packer Z	Ref. PDB, FRUP01	1	1251 – 1650			
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400 – 1250	410 – 600		1
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400 – 1650	601 – 800		1
6c	corn.drive AF VSU/K 56+ 1S 2RS	TEUL5040- ...	1	400 – 1650	801 – 3000		1
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400 – 1250	410 – 600		
7b	run up block AF 13 mm 13	TFFH0080- ...	1	400 – 1650	601 – 3000		
8	extension sz 1+ 1RS	TVSO0200- ...	1	400 – 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451 – 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551 – 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681 – 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851 – 1250			1
	extension sz 5+ 1RS	TVSL0350- ...		1251 – 1450			1
	extension sz 4+ 1RS	TVSL0340- ...		1451 – 1650			1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650			1
10a	gear 15 sz 30/G180	TGKK3010- ...	1	400 – 1250	410 – 600	180	
10b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601 – 800	300	
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801 – 1000	400	
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001 – 1200	500	
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201 – 1400	600	
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401 – 1600	700	
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601 – 1800	700	
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801 – 2000	1000	
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001 – 3000	1000	
11	linkage AF sz 1	TZZS0150- ...	1		2201 – 2400		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401 – 2600		
	linkage AF sz 1	TZZS0150- ...			2601 – 2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000		
12	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601 – 2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000		
13	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		410 – 3000		
14	anti-drill guard E	TGBS0010- ...	1		410 – 3000		
15a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		410 – 800		1
15b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2
16	extension sz 2+ 1RS	TVSL0320- ...	1		501 – 600		1
	extension sz 3+ 1RS	TVSL0330- ...			601 – 800		1
	extension sz 2+ 1RS	TVSL0320- ...			801 – 1000		1
	extension sz 4+ 1RS	TVSL0340- ...			1001 – 1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401 – 1800		1
	extension sz 4+ 1RS	TVSL0340- ...			1801 – 2200		1
	extension sz 6+ 1RS	TVSL0360- ...			2201 – 2400		1
	extension sz 5+ 1RS	TVSL0350- ...			2401 – 2800		1
	extension sz 4+ 1RS	TVSL0340- ...			2801 – 3000		1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000		1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000		1
19	anti-lift device	Ref. PDB, TFAH	1		410 – 3000		
20	Air gap limiter	Ref. PDB, FRFL	1		410 – 3000		

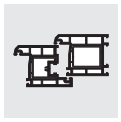
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							22
21	packer RB/FPS	Ref. PDB, FRUP02	1		410 – 3000		
22	striker plate S-RS	Ref. PDB, TRSK					
on request							
23	tilt restrictor ..	TFKB0010- ...	1		410 – 800		
24	mishandling device	TFBS0010- ...	1		601 – 3000		
25	pressure piece	Ref. PDB, TFFD	1		601 – 3000		
26	snapper rh.	TFST0021- ...	1		1801 – 3000		
	snapper lh.	TFST0022- ...			1801 – 3000		

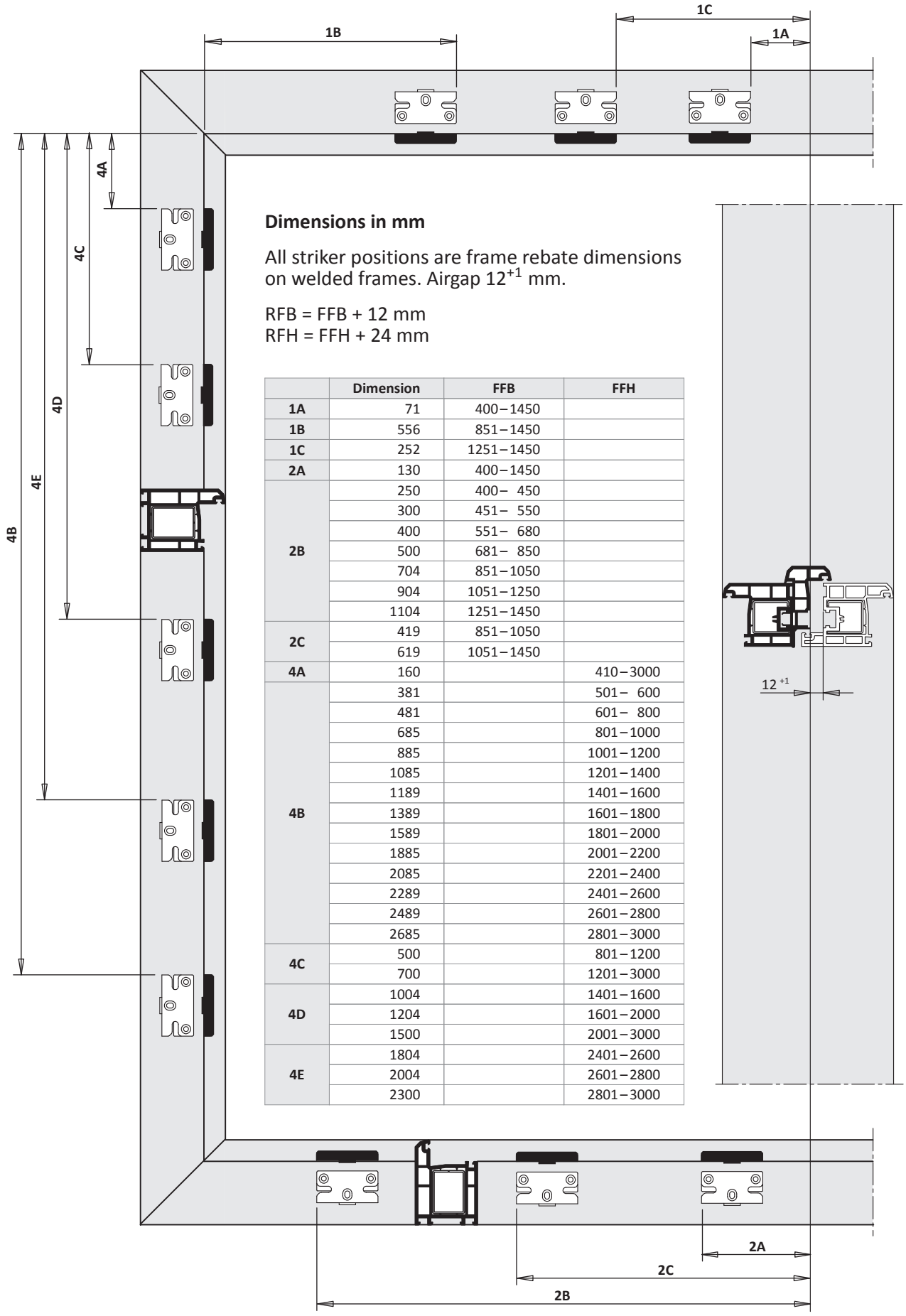
Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
27	stay hinge DH	Ref. PDB, TBWB61			1	1
28	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
29	top hinge 100kg	Ref. PDB, TBSL61			1	
30	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
31	top hinge pin Poly	TBSB6020-1 ...			1	1
32	top hinge 130kg	Ref. PDB, TBSL62				1
33	bottom hinge 100kg	Ref. PDB, TBEL01			1	
34	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
35	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
36	bottom hinge 130kg	Ref. PDB, TBEL02				1
37	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
38	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
39	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





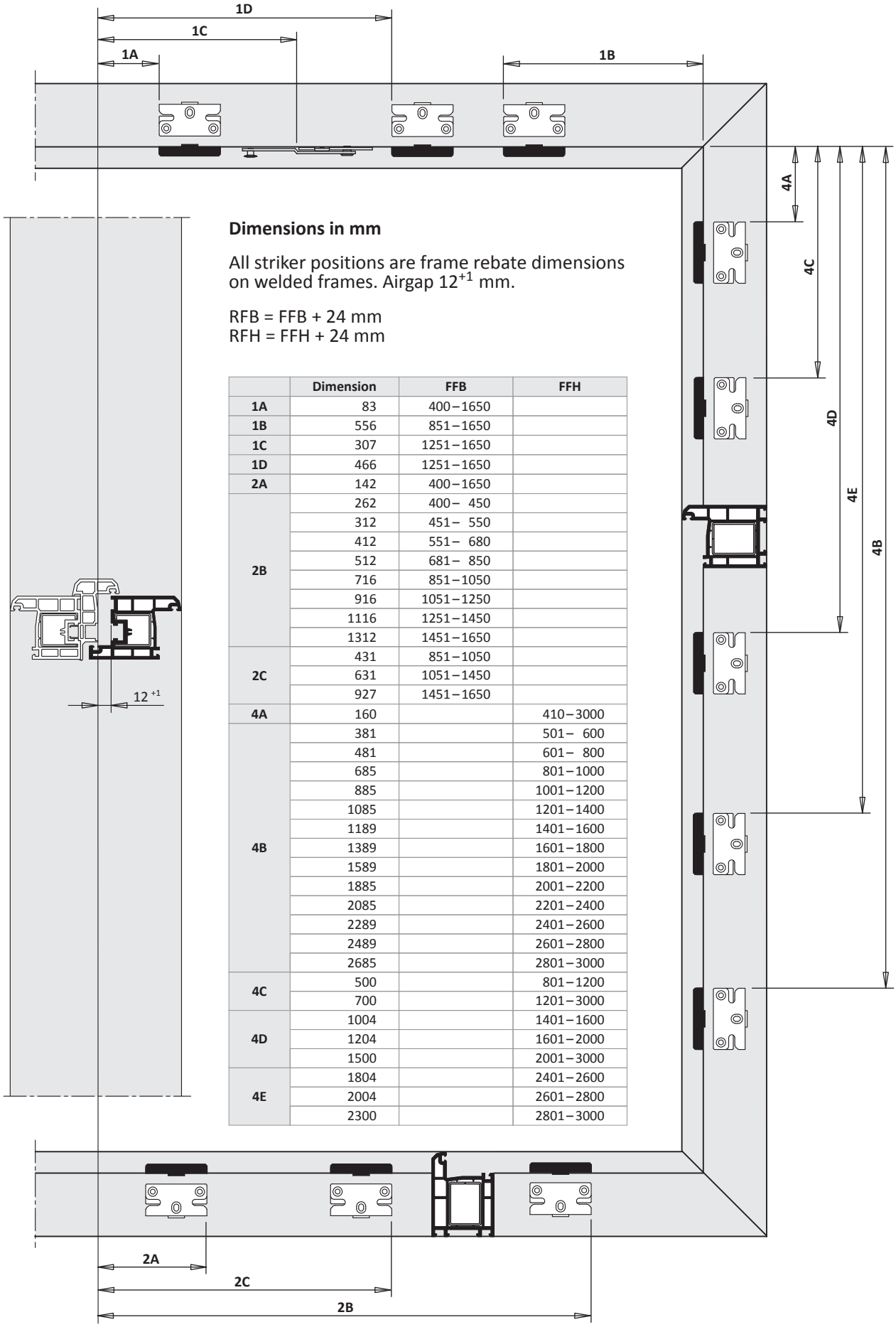


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	130	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1104	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		410–3000
4B	381		501– 600
	481		601– 800
	685		801–1000
	885		1001–1200
	1085		1201–1400
	1189		1401–1600
	1389		1601–1800
	1589		1801–2000
	1885		2001–2200
	2085		2201–2400
	2289		2401–2600
	2489		2601–2800
	2685		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4E	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		410–3000
4B	381		501– 600
	481		601– 800
	685		801–1000
	885		1001–1200
	1085		1201–1400
	1189		1401–1600
	1389		1601–1800
	1589		1801–2000
	1885		2001–2200
	2085		2201–2400
	2289		2401–2600
	2489		2601–2800
	2685		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4E	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions




RC2

1-sash square tilt-turn

PVC

RC2

fixed handle position

Hinge side TITAN

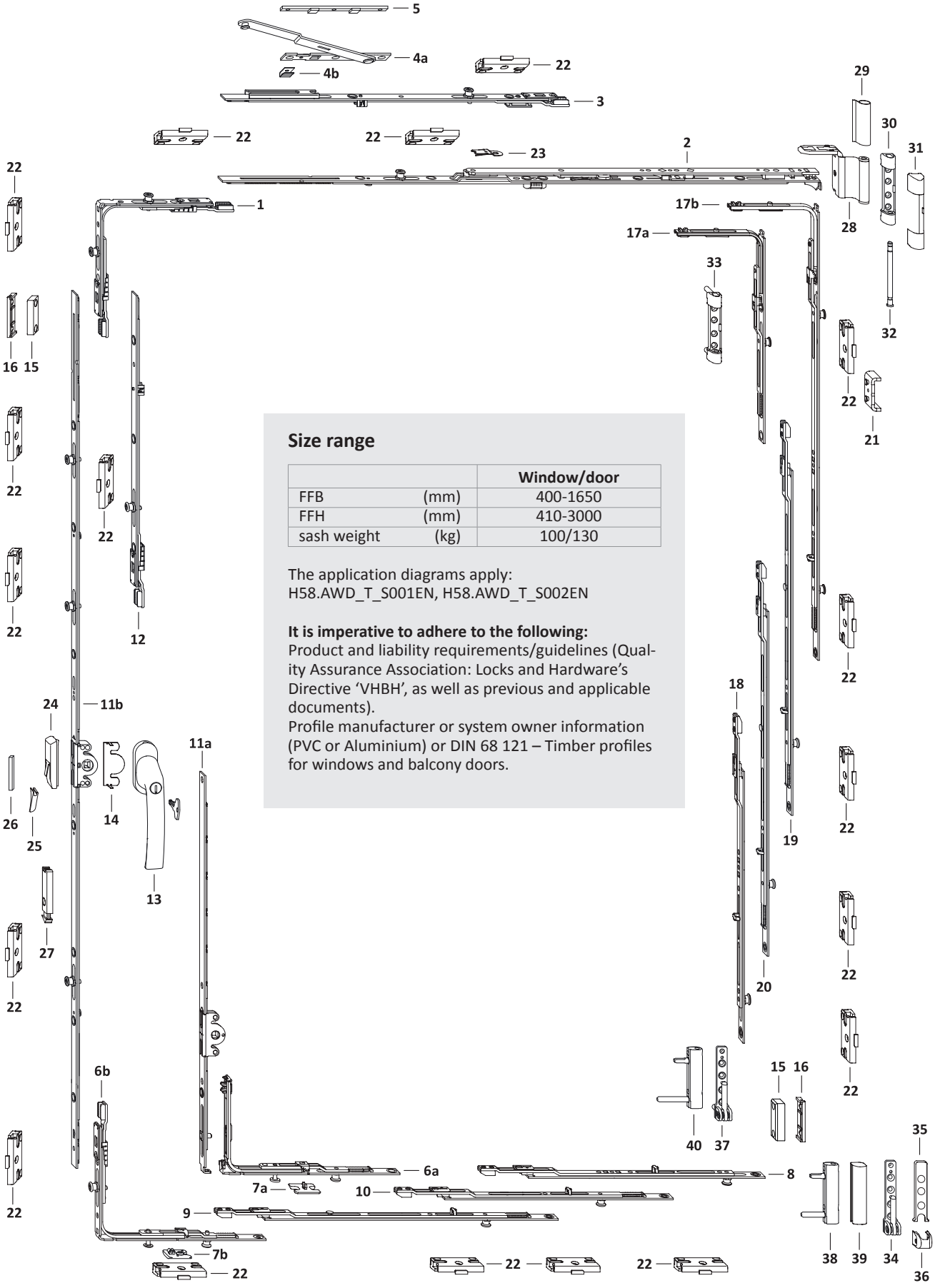
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GK Hinge side TITAN



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	410-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

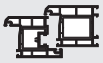
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							22
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	400–1650			2
2	stay AF sz 0	TSKK2000- ...	1	400– 450			
	stay AF sz 1	TSKK2010- ...		451– 680			
	stay AF sz 2 1RS	TSKK2120- ...		681– 850			1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250			1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450			1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650			1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650			1
4	additional stay	Ref. PDB, TSZS	1	1251–1650			
5	packer Z	Ref. PDB, FRUP01	1	1251–1650			
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400–1250	410– 600		1
6b	corn.drive AF VSU/K 56+ 1S 2RS	TEUL5040- ...	1	400–1650	601–3000		2
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400–1250	410– 600		
7b	run up block AF 13 mm 13	TFFH0080- ...	1	400–1650	601–3000		
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450			1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650			1
10	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650			1
11a	gear 15 sz 30/G180	TGKK3010- ...	1	400–1250	410– 600	180	
11b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300	
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300	1
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400	1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500	1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600	1
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700	2
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700	2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000	2
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000	3
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000	3
12	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600		1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800		1
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000		1
13	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		410–3000		
14	anti-drill guard E	TGBS0010- ...	1		410–3000		
15	Air gap limiter	Ref. PDB, FRFL	2		410–3000		
16	packer RB/FPS	Ref. PDB, FRUP02	2		410–3000		
17a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		410– 800		1
17b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
18	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600		1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800		1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000		1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1600		1
	extension sz 2+ 1RS	TVSL0320- ...			1801–2000		1
	extension sz 4+ 1RS	TVSL0340- ...			2001–2200		1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400		1
	extension sz 5+ 1RS	TVSL0350- ...			2401–3000		1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000		1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2801–3000		1
21	anti-lift device	Ref. PDB, TFAH	1		410–3000		
22	striker plate S-RS	Ref. PDB, TRSK					

List of fittings

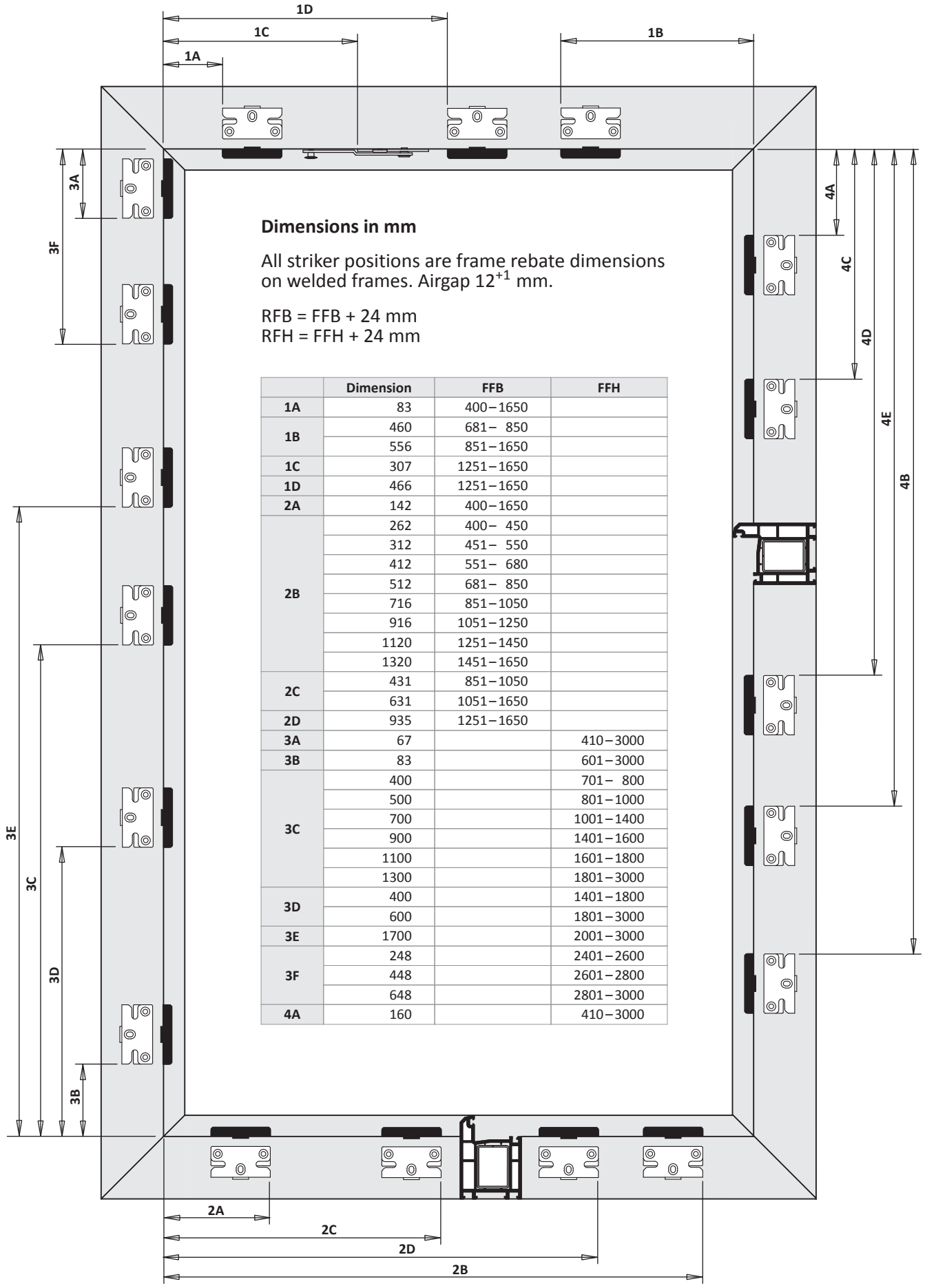
1-sash square tilt-turn
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							22
on request							
23	tilt restrictor ..	TFKB0010- ...	1		410 – 800		
24	mishandling device	TFBS0010- ...	1				
25	pressure piece	Ref. PDB, TFFD	1				
26	stop	Ref. PDB, FRZF01	1				
27	snapper rh.	TFST0021- ...	1		1801 – 3000		
	snapper lh.	TFST0022- ...			1801 – 3000		

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
28	stay hinge DH	Ref. PDB, TBWB61			1	1
29	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
30	top hinge 100kg	Ref. PDB, TBSL61			1	
31	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
32	top hinge pin Poly	TBSB6020-1 ...			1	1
33	top hinge 130kg	Ref. PDB, TBSL62				1
34	bottom hinge 100kg	Ref. PDB, TBEL01			1	
35	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
36	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
37	bottom hinge 130kg	Ref. PDB, TBEL02				1
38	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
39	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
40	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

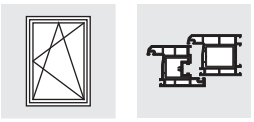
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

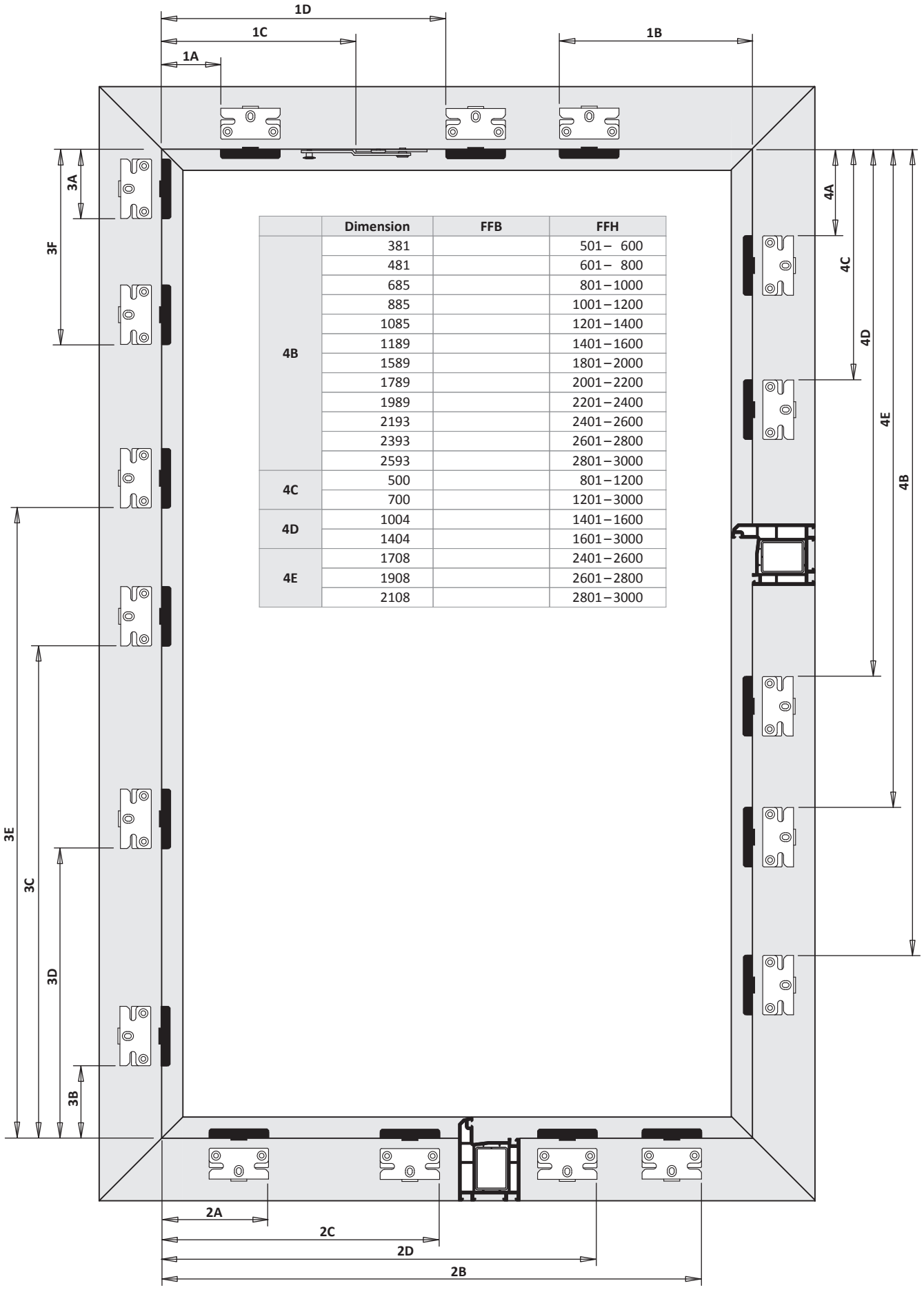
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	681– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
3A	67		410–3000
3B	83		601–3000
3C	400		701– 800
	500		801–1000
	700		1001–1400
	900		1401–1600
	1100		1601–1800
	1300		1801–3000
3D	400		1401–1800
	600		1801–3000
3E	1700		2001–3000
3F	248		2401–2600
	448		2601–2800
	648		2801–3000
4A	160		410–3000

Frame dimensions

1-sash square tilt-turn
PVC GK Hinge side TITAN

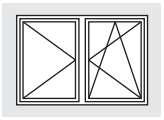


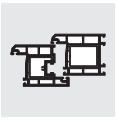


	Dimension	FFB	FFH
4B	381		501 – 600
	481		601 – 800
	685		801 – 1000
	885		1001 – 1200
	1085		1201 – 1400
	1189		1401 – 1600
	1589		1801 – 2000
	1789		2001 – 2200
	1989		2201 – 2400
	2193		2401 – 2600
	2393		2601 – 2800
	2593		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1404		1601 – 3000
4E	1708		2401 – 2600
	1908		2601 – 2800
	2108		2801 – 3000

TITAN AF

Installation instructions





RC2

2-sash square tilt-turn/turn DS 16

PVC

RC2

fixed handle position

Hinge side TITAN

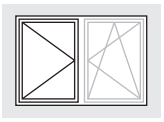
surface TS

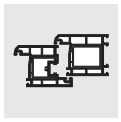
backset 15 mm

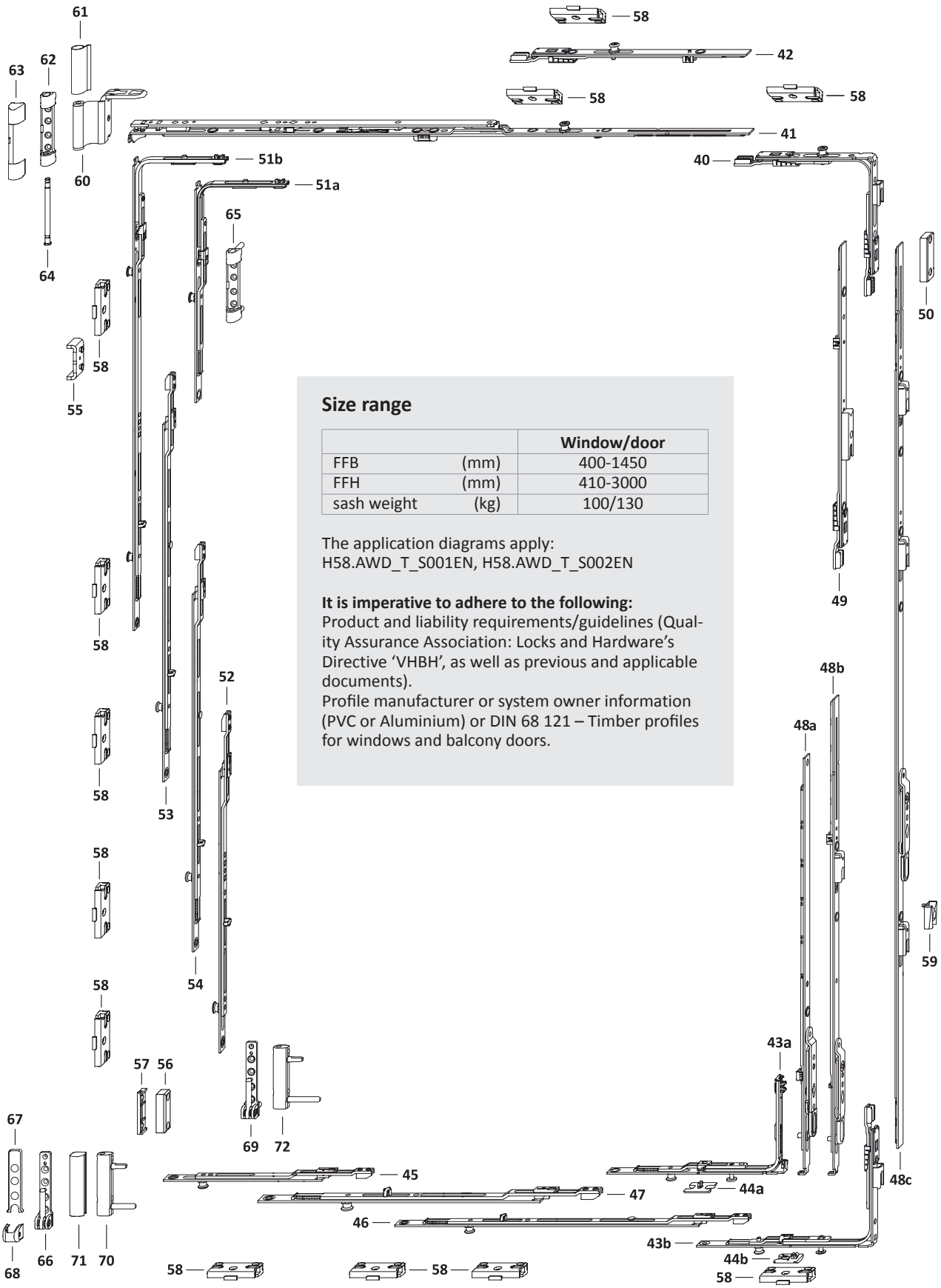
Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





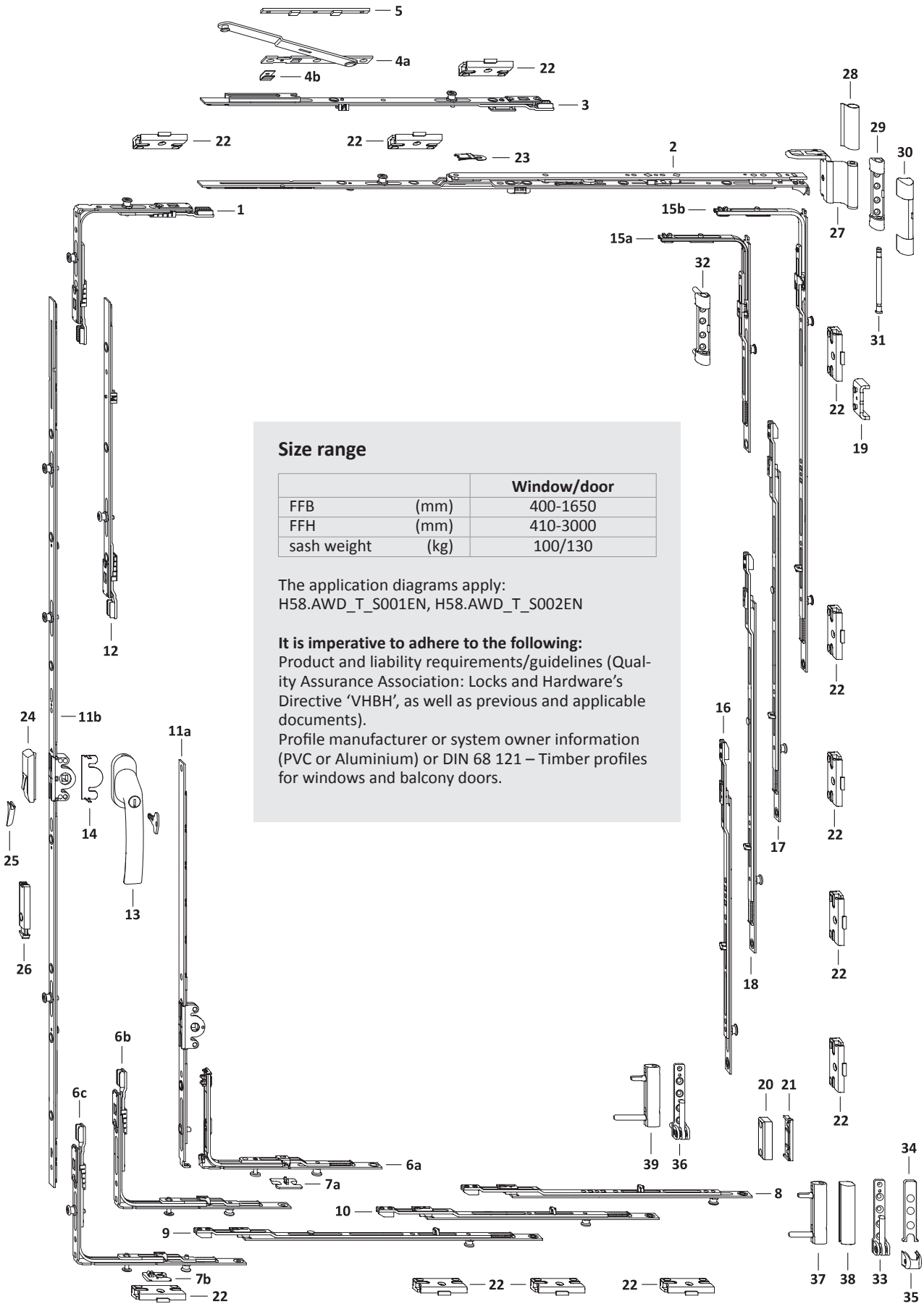


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	410-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

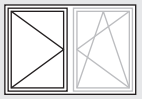
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	410-3000
sash weight	(kg)	100/130

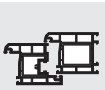
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



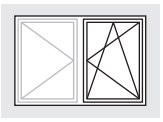


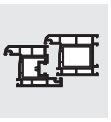
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
						In the main sash	58
40	corn.drive AF VSO WK2 SB 1RS	TEUL4080- ...	1	400 – 1450			1
41	stay AF sz 0	TSKK2000- ...	1	400 – 450			
	stay AF sz 1	TSKK2010- ...		451 – 680			
	stay AF sz 2 1RS	TSKK2120- ...		681 – 850			1
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1450			1
42	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251 – 1450			1
43a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400 – 1450	410 – 800		1
43b	corn.drive AFVSU/K 56+ SB1S1RS	TEUL5120- ...	1	400 – 1450	801 – 3000		1
44a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400 – 1450	410 – 800		
44b	run up block AF 13 mm 13	TFFH0080- ...	1	400 – 1450	801 – 3000		
45	extension sz 1+ 1RS	TVSO0200- ...	1	400 – 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451 – 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551 – 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681 – 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851 – 1250			1
	extension sz 2+ 1RS	TVSL0320- ...		1251 – 1450			1
46	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450			1
47	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251 – 1450			1
48a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400 – 1250	410 – 600	180	
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601 – 700	300	
48b	sec.sash gear 16 AF70/G300 1SB	TGKS4040- ...	1		701 – 800	300	
48c	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801 – 1000	400	
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001 – 1200	500	
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201 – 1400	600	
	sec.sash gear 16 AF140/G700 2S 70	TGKS4290- ...			1401 – 1600	700	
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601 – 1800	700	
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801 – 2000	1000	
	sec.sash gear 16 AF200/G1000 3 70	TGKS4280- ...			2001 – 2200	1000	
	sec.sash gear 16 AF220/G1000 3 70	TGKS4320- ...			2201 – 3000	1000	
49	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401 – 2600		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2601 – 2800		
	linkage AF sz 3 1SB-RS	TZKS1080- ...			2801 – 3000		
50	air gap limiter F ..	TFFB0010- ...	1		410 – 3000		
51a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		410 – 800		1
51b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2
52	extension sz 2+ 1RS	TVSL0320- ...	1		501 – 600		1
	extension sz 3+ 1RS	TVSL0330- ...			601 – 800		1
	extension sz 2+ 1RS	TVSL0320- ...			801 – 1000		1
	extension sz 4+ 1RS	TVSL0340- ...			1001 – 1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401 – 1600		1
	extension sz 2+ 1RS	TVSL0320- ...			1801 – 2000		1
	extension sz 4+ 1RS	TVSL0340- ...			2001 – 2200		1
	extension sz 6+ 1RS	TVSL0360- ...			2201 – 2400		1
	extension sz 5+ 1RS	TVSL0350- ...			2401 – 3000		1
53	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601 – 3000		1
54	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2801 – 3000		1
55	anti-lift device	Ref. PDB, TFAH	1		410 – 3000		
56	Air gap limiter	Ref. PDB, FRFL	1		410 – 3000		
57	packer RB/FPS	Ref. PDB, FRUP02	1		410 – 3000		
58	striker plate S-RS	Ref. PDB, TRSK					
on request							
59	striker snapper AF A0767	TRST0100- ...	1		1801 – 3000		

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
60	stay hinge DH	Ref. PDB, TBWB61			1	1
61	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
62	top hinge 100kg	Ref. PDB, TBSL61			1	
63	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
64	top hinge pin Poly	TBSB6020-1 ...			1	1
65	top hinge 130kg	Ref. PDB, TBSL62				1
66	bottom hinge 100kg	Ref. PDB, TBEL01			1	
67	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
68	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
69	bottom hinge 130kg	Ref. PDB, TBEL02				1
70	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
71	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
72	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





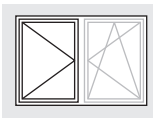
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							22
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	400 – 1650			1
2	stay AF sz 0	TSKK2000- ...	1	400 – 450			
	stay AF sz 1	TSKK2010- ...		451 – 680			
	stay AF sz 2 1RS	TSKK2120- ...		681 – 850			1
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1250			1
	stay AF sz 3 1RS	TSKK2030- ...		1251 – 1450			1
	stay AF sz 4 1RS	TSKK2040- ...		1451 – 1650			1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650			1
4	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
5	packer Z	Ref. PDB, FRUP01	1	1251 – 1650			
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400 – 1250	410 – 600		1
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400 – 1650	601 – 800		1
6c	corn.drive AF VSU/K 56+ 1S 2RS	TEUL5040- ...	1	400 – 1650	801 – 3000		1
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400 – 1250	410 – 600		
7b	run up block AF 13 mm 13	TFFH0080- ...	1	400 – 1650	601 – 3000		
8	extension sz 1+ 1RS	TVSO0200- ...	1	400 – 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451 – 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551 – 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681 – 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851 – 1250			1
	extension sz 2+ 1RS	TVSL0320- ...		1251 – 1450			1
	extension sz 4+ 1RS	TVSL0340- ...		1451 – 1650			1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1650			1
10	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251 – 1650			1
11a	gear 15 sz 30/G180	TGKK3010- ...	1	400 – 1250	410 – 600	180	
11b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601 – 700	300	
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701 – 800	300	
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801 – 1000	400	
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001 – 1200	500	
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201 – 1400	600	
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401 – 1600	700	
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601 – 1800	700	
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801 – 2000	1000	
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001 – 2200	1000	
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201 – 3000	1000	
12	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401 – 2600		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601 – 2800		
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801 – 3000		
13	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		410 – 3000		
14	anti-drill guard E	TGBS0010- ...	1		410 – 3000		
15a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		410 – 800		1
15b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2
16	extension sz 2+ 1RS	TVSL0320- ...	1		501 – 600		1
	extension sz 3+ 1RS	TVSL0330- ...			601 – 800		1
	extension sz 2+ 1RS	TVSL0320- ...			801 – 1000		1
	extension sz 4+ 1RS	TVSL0340- ...			1001 – 1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401 – 1600		1
	extension sz 2+ 1RS	TVSL0320- ...			1801 – 2000		1
	extension sz 4+ 1RS	TVSL0340- ...			2001 – 2200		1
	extension sz 6+ 1RS	TVSL0360- ...			2201 – 2400		1
	extension sz 5+ 1RS	TVSL0350- ...			2401 – 3000		1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601 – 3000		1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2801 – 3000		1
19	anti-lift device	Ref. PDB, TFAH	1		410 – 3000		
20	Air gap limiter	Ref. PDB, FRFL	1		410 – 3000		
21	packer RB/FPS	Ref. PDB, FRUP02	1		410 – 3000		
22	striker plate S-RS	Ref. PDB, TRSK					

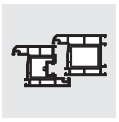
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							22
on request							
23	tilt restrictor ..	TFKB0010- ...	1		410– 800		
24	mishandling device	TFBS0010- ...	1		601–3000		
25	pressure piece	Ref. PDB, TFFD	1		601–3000		
26	snapper rh.	TFST0021- ...	1		1801–3000		
	snapper lh.	TFST0022- ...			1801–3000		

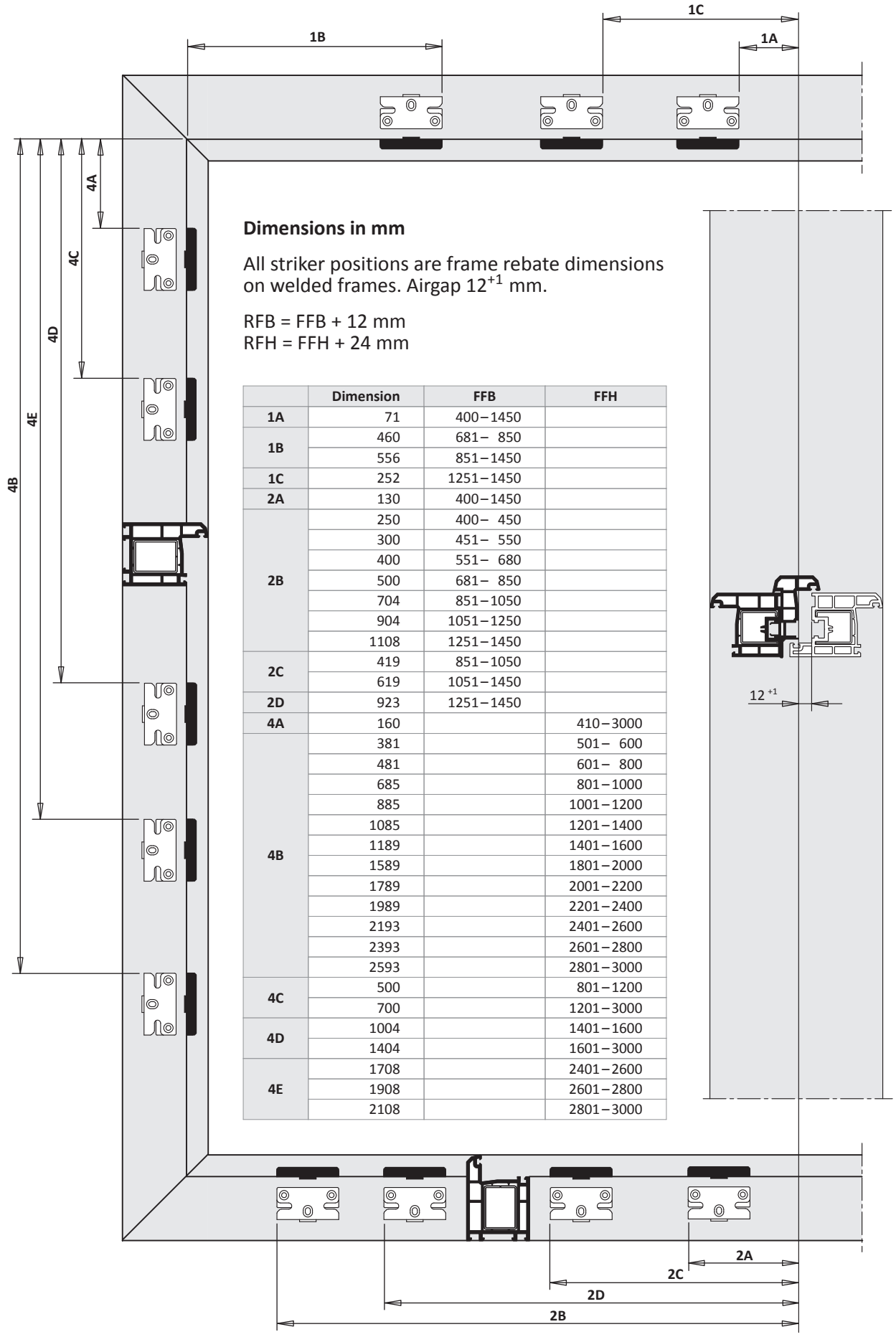
Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
27	stay hinge DH	Ref. PDB, TBWB61			1	1
28	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
29	top hinge 100kg	Ref. PDB, TBSL61			1	
30	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
31	top hinge pin Poly	TBSB6020-1 ...			1	1
32	top hinge 130kg	Ref. PDB, TBSL62				1
33	bottom hinge 100kg	Ref. PDB, TBEL01			1	
34	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
35	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
36	bottom hinge 130kg	Ref. PDB, TBEL02				1
37	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
38	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
39	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





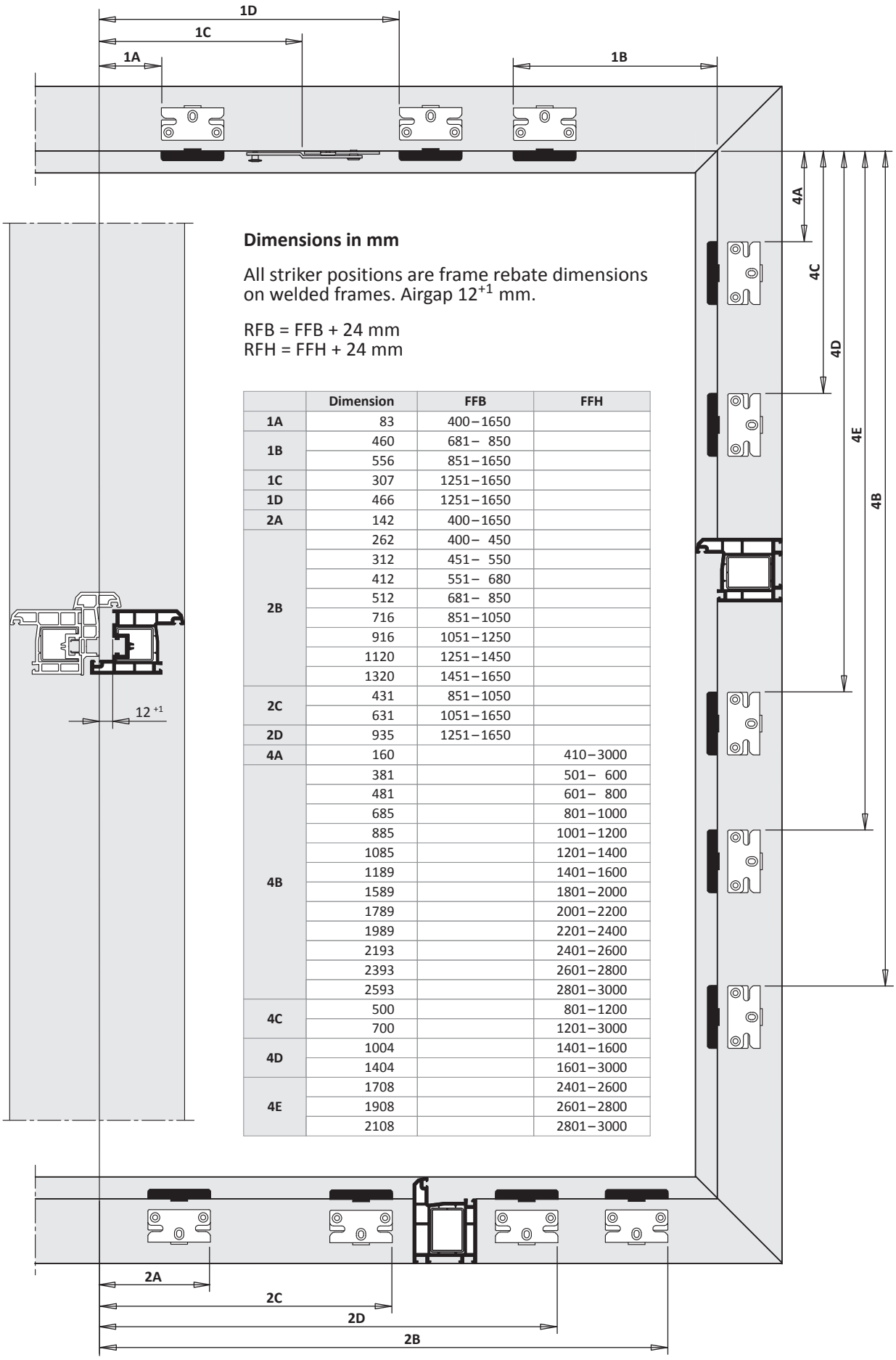


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	460	681– 850	
	556	851–1450	
1C	252	1251–1450	
2A	130	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1108	1251–1450	
2C	419	851–1050	
	619	1051–1450	
2D	923	1251–1450	
4A	160		410–3000
4B	381		501– 600
	481		601– 800
	685		801–1000
	885		1001–1200
	1085		1201–1400
	1189		1401–1600
	1589		1801–2000
	1789		2001–2200
	1989		2201–2400
	2193		2401–2600
	2393		2601–2800
	2593		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1404		1601–3000
4E	1708		2401–2600
	1908		2601–2800
	2108		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400 – 1650	
1B	460	681 – 850	
	556	851 – 1650	
1C	307	1251 – 1650	
1D	466	1251 – 1650	
2A	142	400 – 1650	
2B	262	400 – 450	
	312	451 – 550	
	412	551 – 680	
	512	681 – 850	
	716	851 – 1050	
	916	1051 – 1250	
	1120	1251 – 1450	
	1320	1451 – 1650	
2C	431	851 – 1050	
	631	1051 – 1650	
2D	935	1251 – 1650	
4A	160		410 – 3000
4B	381		501 – 600
	481		601 – 800
	685		801 – 1000
	885		1001 – 1200
	1085		1201 – 1400
	1189		1401 – 1600
	1589		1801 – 2000
	1789		2001 – 2200
	1989		2201 – 2400
	2193		2401 – 2600
	2393		2601 – 2800
	2593		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1404		1601 – 3000
4E	1708		2401 – 2600
	1908		2601 – 2800
	2108		2801 – 3000

Bottom: Inliner

1-sash square tilt-turn	H48.TAFKFM2+S001EN	7 - 3
2-sash square tilt-turn/turn DS 16	H48.TAFKFM2+S002EN	7 - 9
2-sash square tilt-turn/turn DS BAN	H48.TAFKFM2+S008EN	7 - 19
Locking-points distance 700		
1-sash square tilt-turn	H48.TAFKFM2+S301EN	7 - 29
2-sash square tilt-turn/turn DS 16	H48.TAFKFM2+S302EN	7 - 35

Bottom: Double cam SB R-RS

1-sash square tilt-turn	H48.TAFKFM2+S401EN	7 - 45
2-sash square tilt-turn/turn DS 16	H48.TAFKFM2+S402EN	7 - 51
Locking-points distance 700		
1-sash square tilt-turn	H48.TAFKFM2+S305EN	7 - 61
2-sash square tilt-turn/turn DS 16	H48.TAFKFM2+S306EN	7 - 67

TITAN AF

Installation instructions




RC2

1-sash square tilt-turn

PVC

RC2

centre handle pos. (variable)

Hinge side TITAN

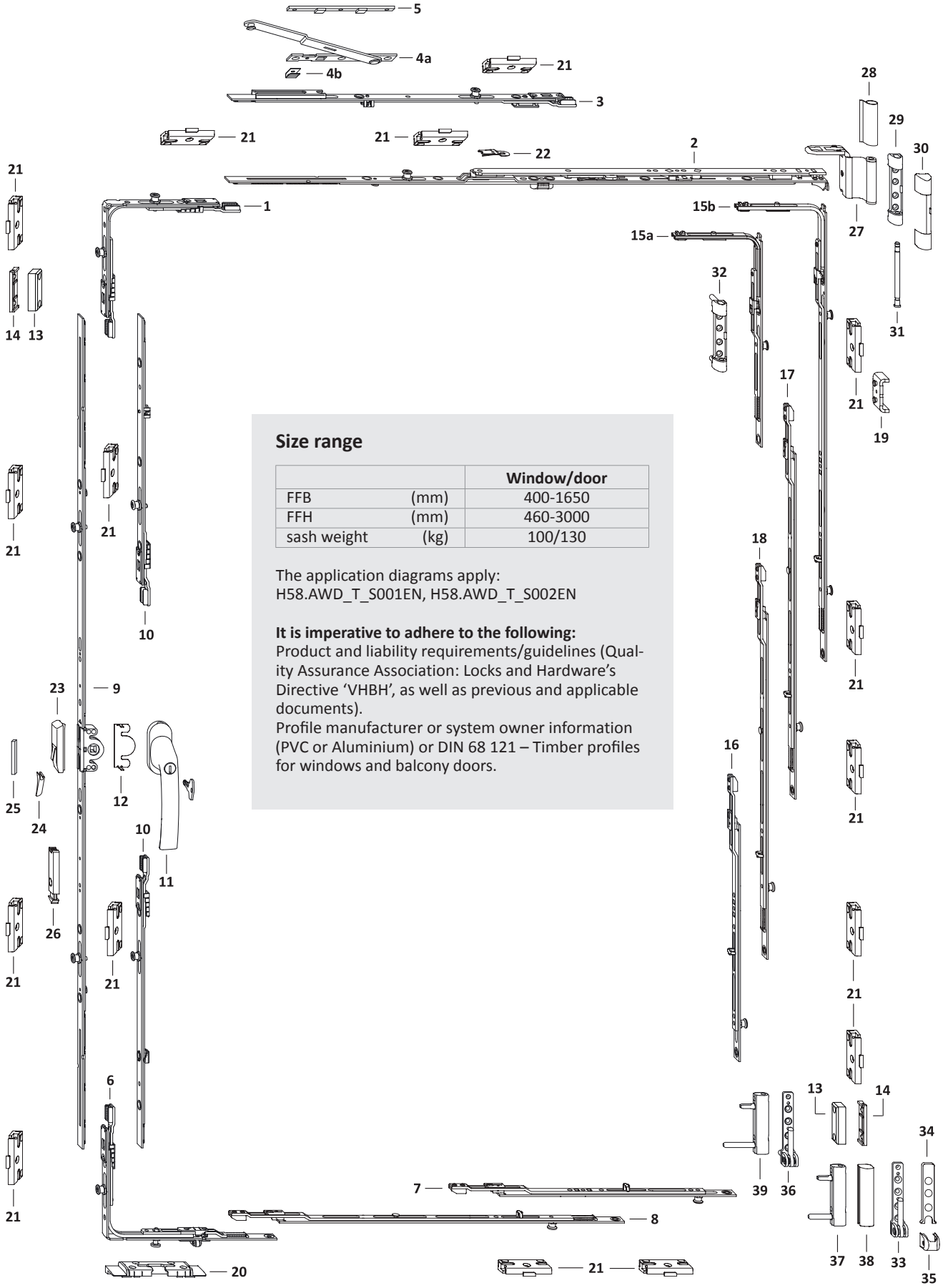
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GM Hinge side TITAN

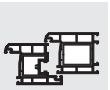
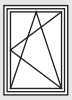


Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	460-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

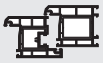



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							20	21
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	400–1650				2
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6	corn.drive AF VSU/K+ FH 1S 1RS A0055	TEUL5020- ...	1	400–1650			1	1
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
9	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
11	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000			
12	anti-drill guard E	TGBS0010- ...	1		460–3000			
13	Air gap limiter	Ref. PDB, FRFL	2		460–3000			
14	packer RB/FPS	Ref. PDB, FRUP02	2		460–3000			
15a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800			1
15b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
16	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600			1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800			1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000			1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800			1
	extension sz 4+ 1RS	TVSL0340- ...			1801–2200			1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400			1
	extension sz 5+ 1RS	TVSL0350- ...			2401–2800			1
	extension sz 4+ 1RS	TVSL0340- ...			2801–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
19	anti-lift device	Ref. PDB, TFAH	1		460–3000			
20	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
21	striker plate S-RS	Ref. PDB, TRSK						
on request								
22	tilt restrictor ..	TFKB0010- ...	1		460– 800			
23	mishandling device	TFBS0010- ...	1					
24	pressure piece	Ref. PDB, TFFD	1					
25	stop	Ref. PDB, FRZF01	1					
26	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

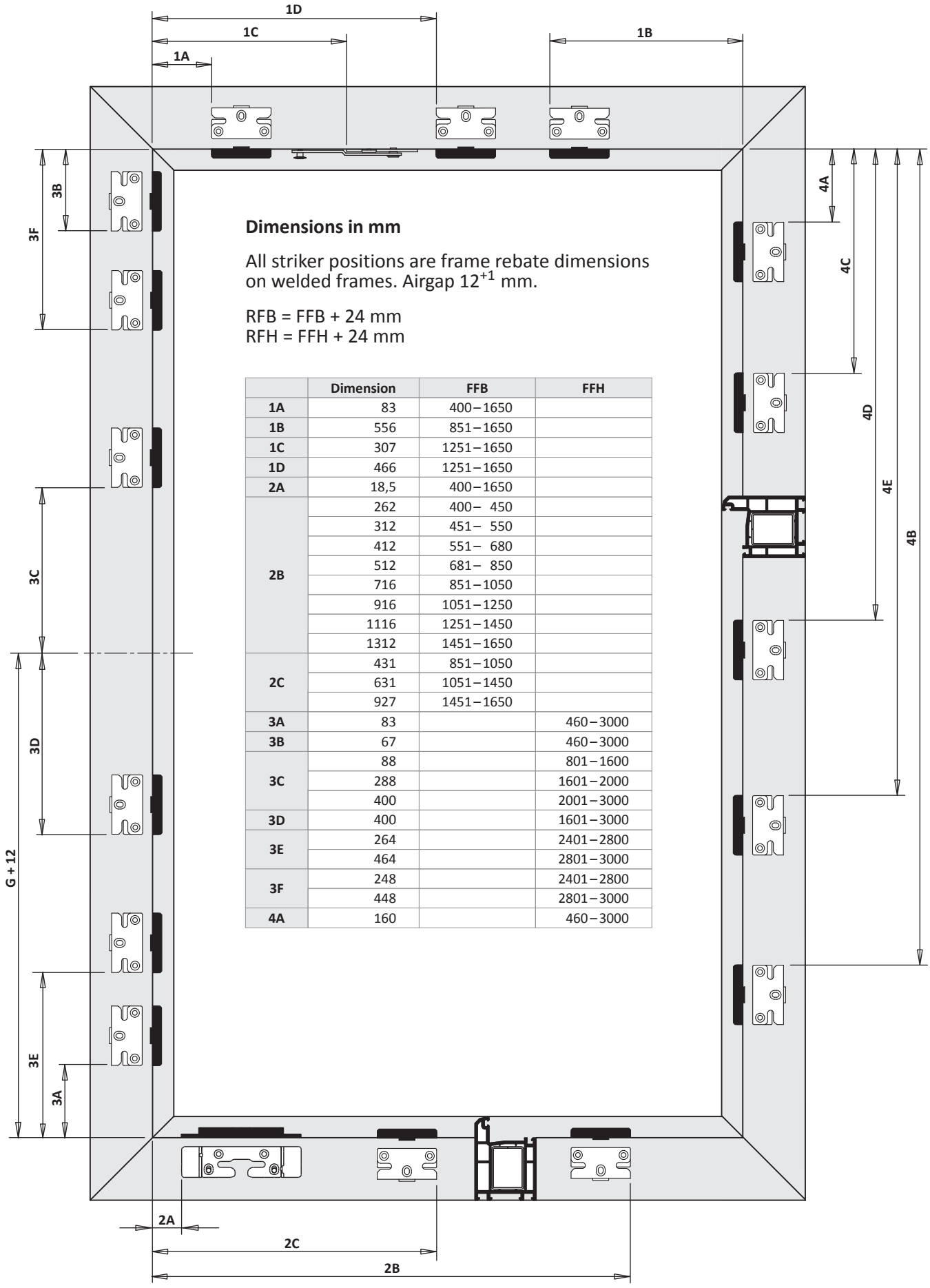
List of fittings

1-sash square tilt-turn
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
27	stay hinge DH	Ref. PDB, TBWB61			1	1
28	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
29	top hinge 100kg	Ref. PDB, TBSL61			1	
30	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
31	top hinge pin Poly	TBSB6020-1 ...			1	1
32	top hinge 130kg	Ref. PDB, TBSL62				1
33	bottom hinge 100kg	Ref. PDB, TBEL01			1	
34	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
35	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
36	bottom hinge 130kg	Ref. PDB, TBEL02				1
37	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
38	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
39	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

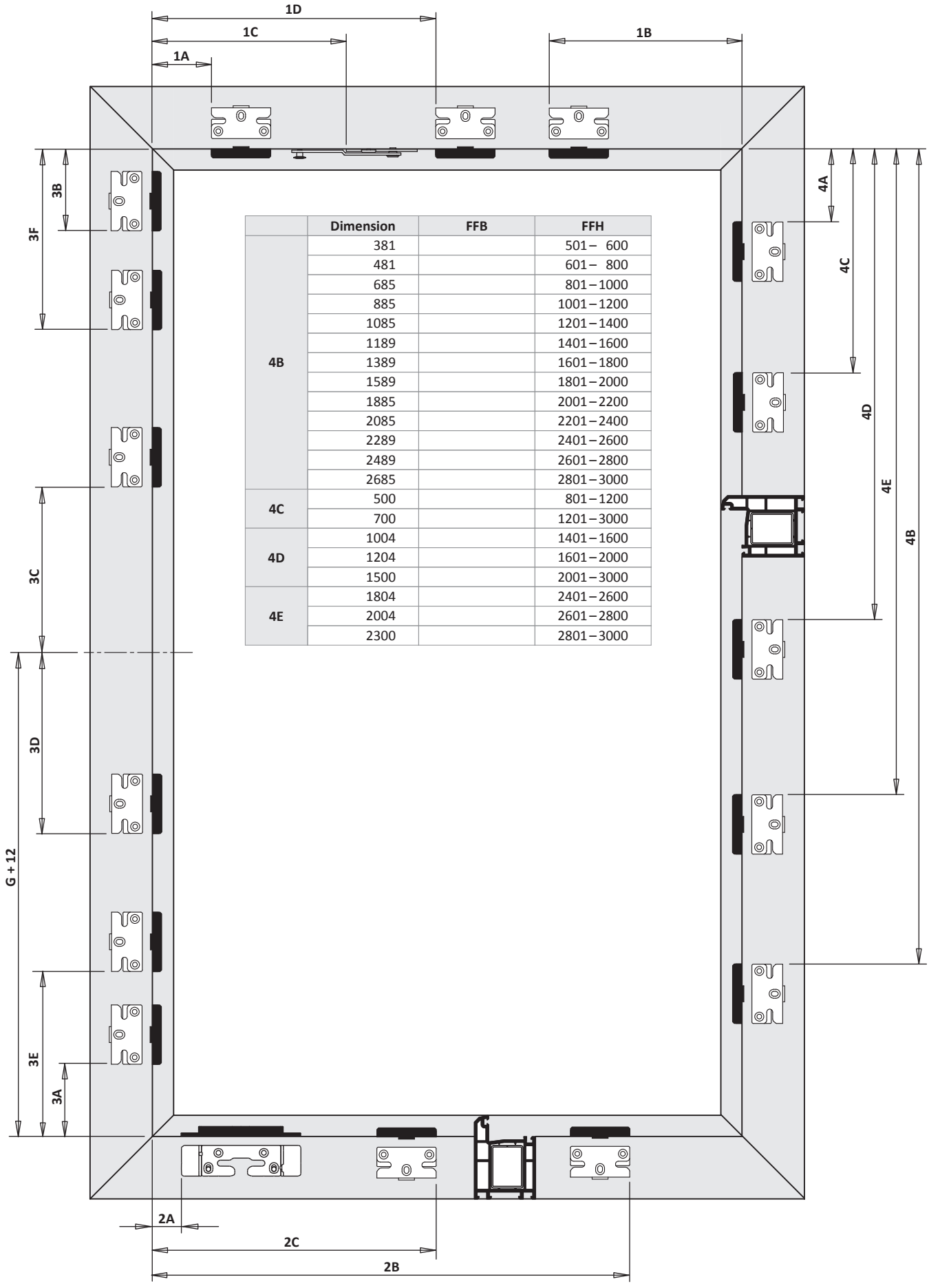
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	83		460–3000
3B	67		460–3000
3C	88		801–1600
	288		1601–2000
	400		2001–3000
3D	400		1601–3000
3E	264		2401–2800
	464		2801–3000
3F	248		2401–2800
	448		2801–3000
4A	160		460–3000

Frame dimensions

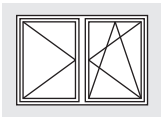
1-sash square tilt-turn
PVC GM Hinge side TITAN

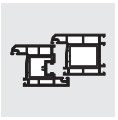


	Dimension	FFB	FFH
4B	381		501 – 600
	481		601 – 800
	685		801 – 1000
	885		1001 – 1200
	1085		1201 – 1400
	1189		1401 – 1600
	1389		1601 – 1800
	1589		1801 – 2000
	1885		2001 – 2200
	2085		2201 – 2400
	2289		2401 – 2600
	2489		2601 – 2800
	2685		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1204		1601 – 2000
	1500		2001 – 3000
4E	1804		2401 – 2600
	2004		2601 – 2800
	2300		2801 – 3000

TITAN AF

Installation instructions





RC2

2-sash square tilt-turn/turn DS 16

PVC

RC2

centre handle pos. (variable)

Hinge side TITAN

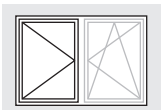
surface TS

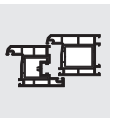
backset 15 mm

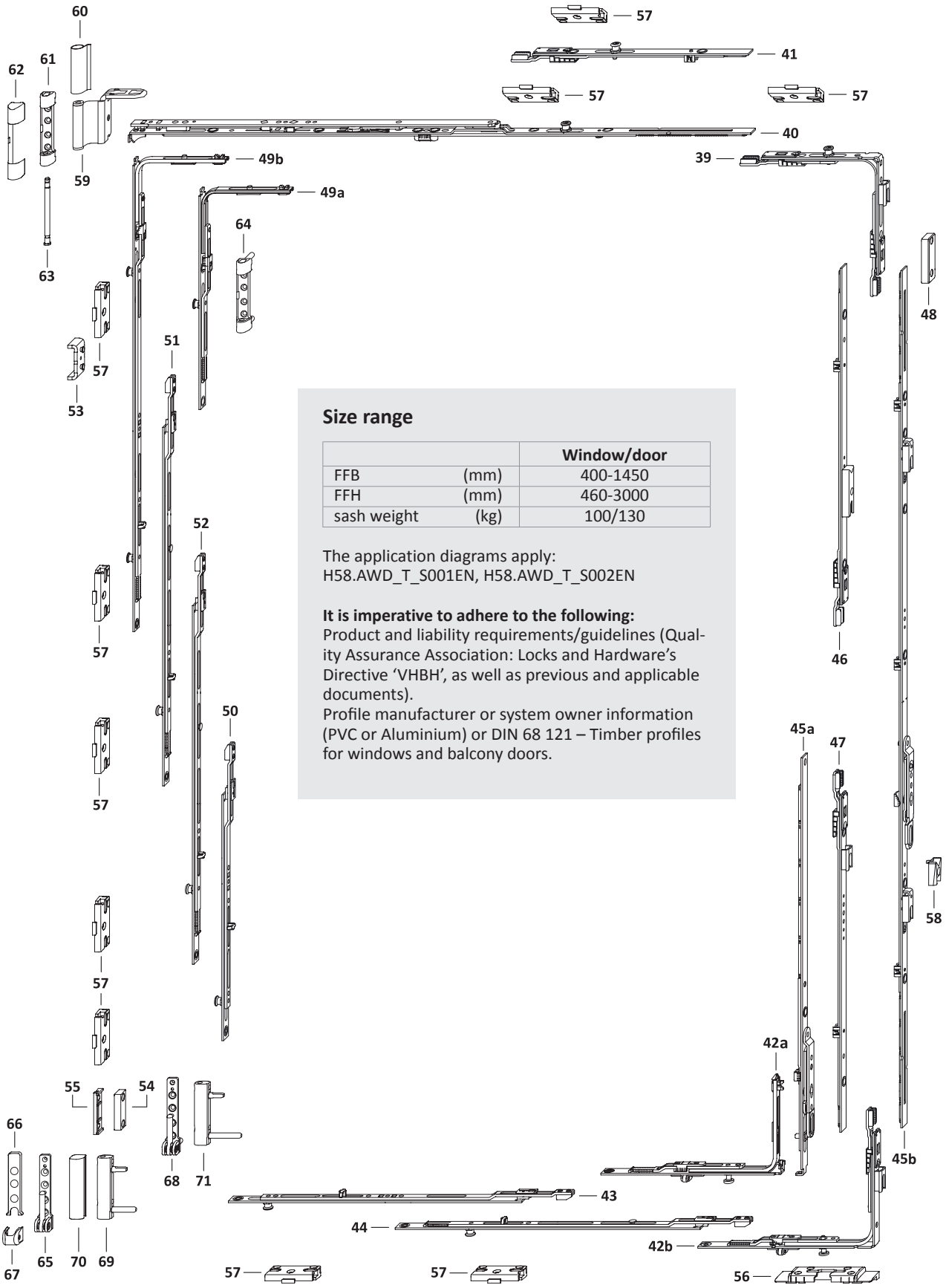
Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





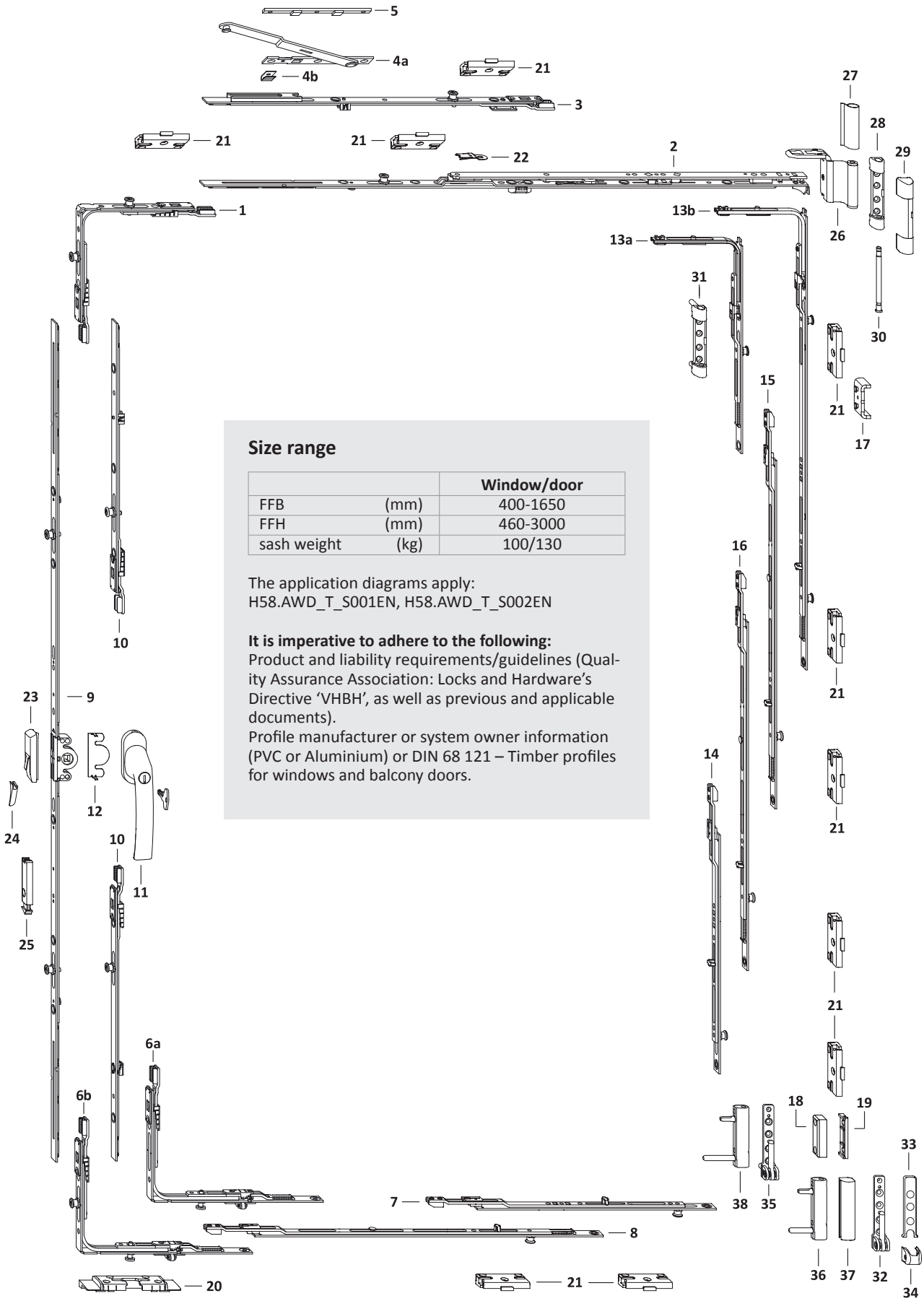


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	460-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

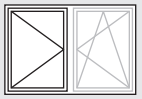
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	460-3000
sash weight	(kg)	100/130

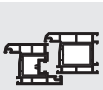
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN



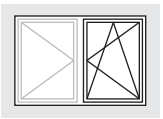


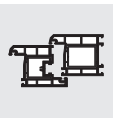
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	56	57
39	corn.drive AF VSO WK2 SB 1RS	TEUL4080- ...	1	400–1450				1
40	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1
41	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
42a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1450	460– 800		1	
42b	corn.drive AF VSU/K+WK2 FHSB1S	TEUL5110- ...	1	400–1450	801–3000		1	
43	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
45a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460– 600	230– 300		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300– 400		
45b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801–1200	400– 600		
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201–1600	600– 800		
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000		
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001–3000	1000–1500		
46	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
47	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800			
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000			
48	air gap limiter F ..	TFFB0010- ...	1		460–3000			
49a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800			1
49b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
50	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600			1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800			1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000			1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800			1
	extension sz 4+ 1RS	TVSL0340- ...			1801–2200			1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400			1
	extension sz 5+ 1RS	TVSL0350- ...			2401–2800			1
	extension sz 4+ 1RS	TVSL0340- ...			2801–3000			1
51	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
52	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
53	anti-lift device	Ref. PDB, TFAH	1		460–3000			
54	Air gap limiter	Ref. PDB, FRFL	1		460–3000			
55	packer RB/FPS	Ref. PDB, FRUP02	1		460–3000			
56	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
57	striker plate S-RS	Ref. PDB, TRSK						
on request								
58	striker snapper AF A0767	TRST0100- ...	1		1601–3000			

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
59	stay hinge DH	Ref. PDB, TBWB61			1	1
60	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
61	top hinge 100kg	Ref. PDB, TBSL61			1	
62	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
63	top hinge pin Poly	TBSB6020-1 ...			1	1
64	top hinge 130kg	Ref. PDB, TBSL62				1
65	bottom hinge 100kg	Ref. PDB, TBEL01			1	
66	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
67	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
68	bottom hinge 130kg	Ref. PDB, TBEL02				1
69	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
70	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
71	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN



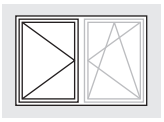


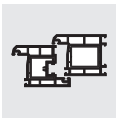
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							20	21
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	400–1650				1
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	460– 800		1	
6b	corn.drive AF VSU/K+ FH 1S 1RS A0055	TEUL5020- ...	1	400–1650	801–3000		1	
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
9	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
11	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000			
12	anti-drill guard E	TGBS0010- ...	1		460–3000			
13a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800			1
13b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
14	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600			1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800			1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000			1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800			1
	extension sz 4+ 1RS	TVSL0340- ...			1801–2200			1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400			1
	extension sz 5+ 1RS	TVSL0350- ...			2401–2800			1
	extension sz 4+ 1RS	TVSL0340- ...			2801–3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
17	anti-lift device	Ref. PDB, TFAH	1		460–3000			
18	Air gap limiter	Ref. PDB, FRFL	1		460–3000			
19	packer RB/FPS	Ref. PDB, FRUP02	1		460–3000			
20	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
21	striker plate S-RS	Ref. PDB, TRSK						
on request								
22	tilt restrictor ..	TFKB0010- ...	1		460– 800			
23	mishandling device	TFBS0010- ...	1		601–3000			
24	pressure piece	Ref. PDB, TFFD	1		601–3000			
25	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

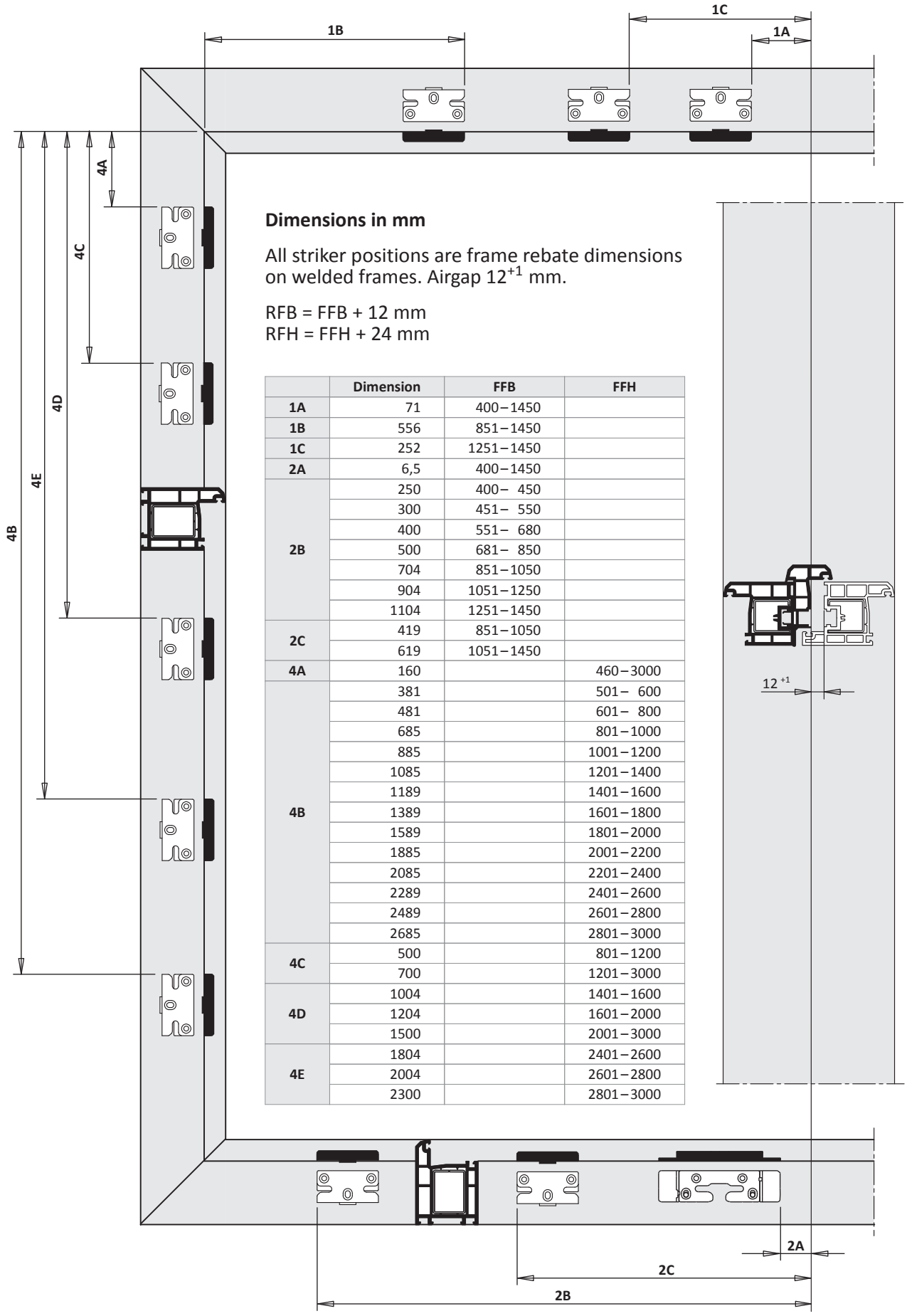
Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
26	stay hinge DH	Ref. PDB, TBWB61			1	1
27	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
28	top hinge 100kg	Ref. PDB, TBSL61			1	
29	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
30	top hinge pin Poly	TBSB6020-1 ...			1	1
31	top hinge 130kg	Ref. PDB, TBSL62				1
32	bottom hinge 100kg	Ref. PDB, TBEL01			1	
33	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
34	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
35	bottom hinge 130kg	Ref. PDB, TBEL02				1
36	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
37	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
38	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





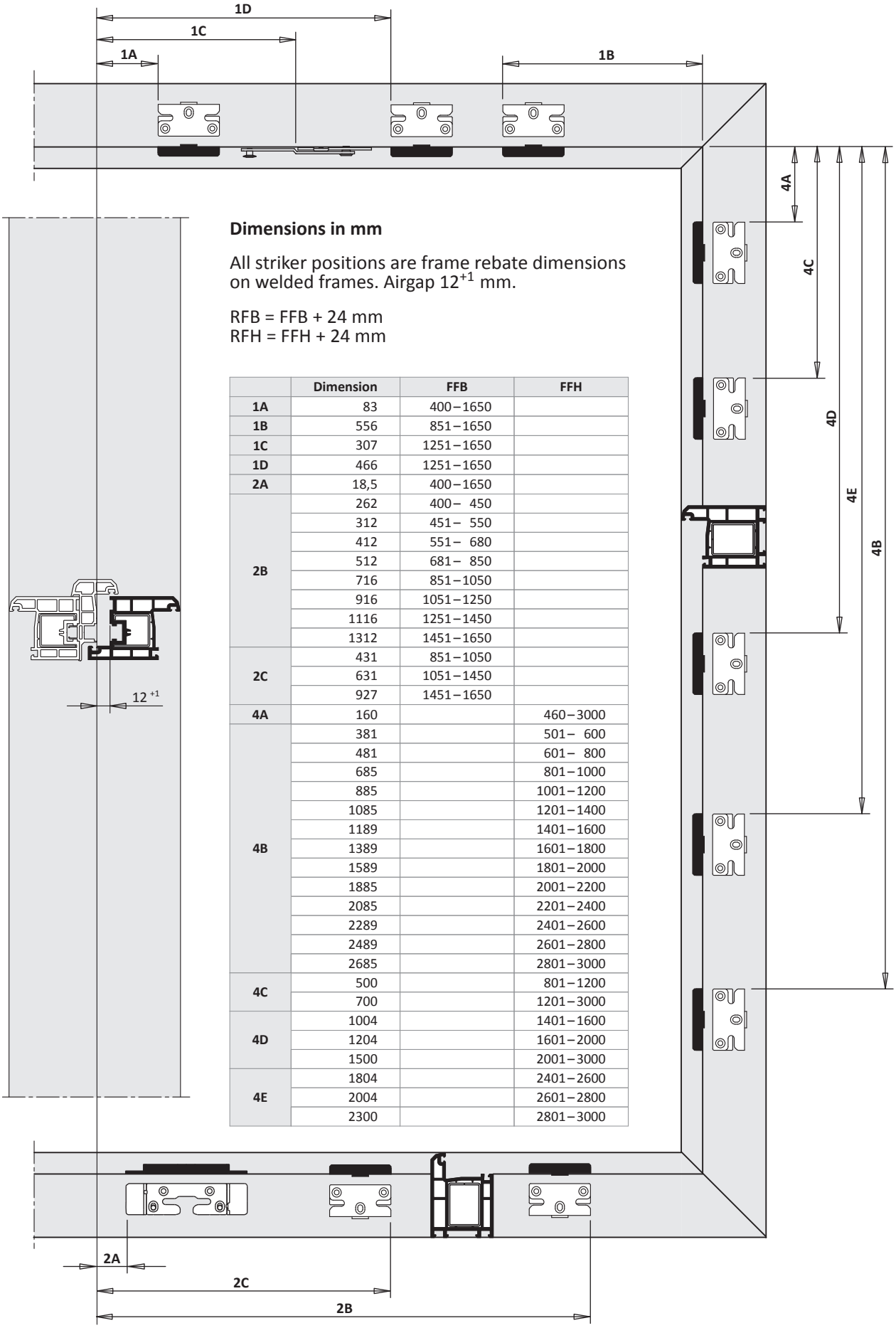


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	6,5	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1104	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		460–3000
4B	381		501– 600
	481		601– 800
	685		801–1000
	885		1001–1200
	1085		1201–1400
	1189		1401–1600
	1389		1601–1800
	1589		1801–2000
	1885		2001–2200
	2085		2201–2400
	2289		2401–2600
	2489		2601–2800
	2685		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4E	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

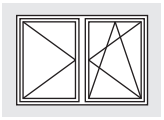
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		460–3000
4B	381		501– 600
	481		601– 800
	685		801–1000
	885		1001–1200
	1085		1201–1400
	1189		1401–1600
	1389		1601–1800
	1589		1801–2000
	1885		2001–2200
	2085		2201–2400
	2289		2401–2600
	2489		2601–2800
	2685		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4E	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



RC2

2-sash square tilt-turn/turn DS 16 fitting groove

PVC

RC2

centre handle pos. (variable)

Hinge side TITAN

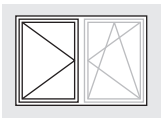
surface TS

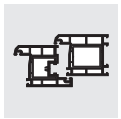
backset 15 mm

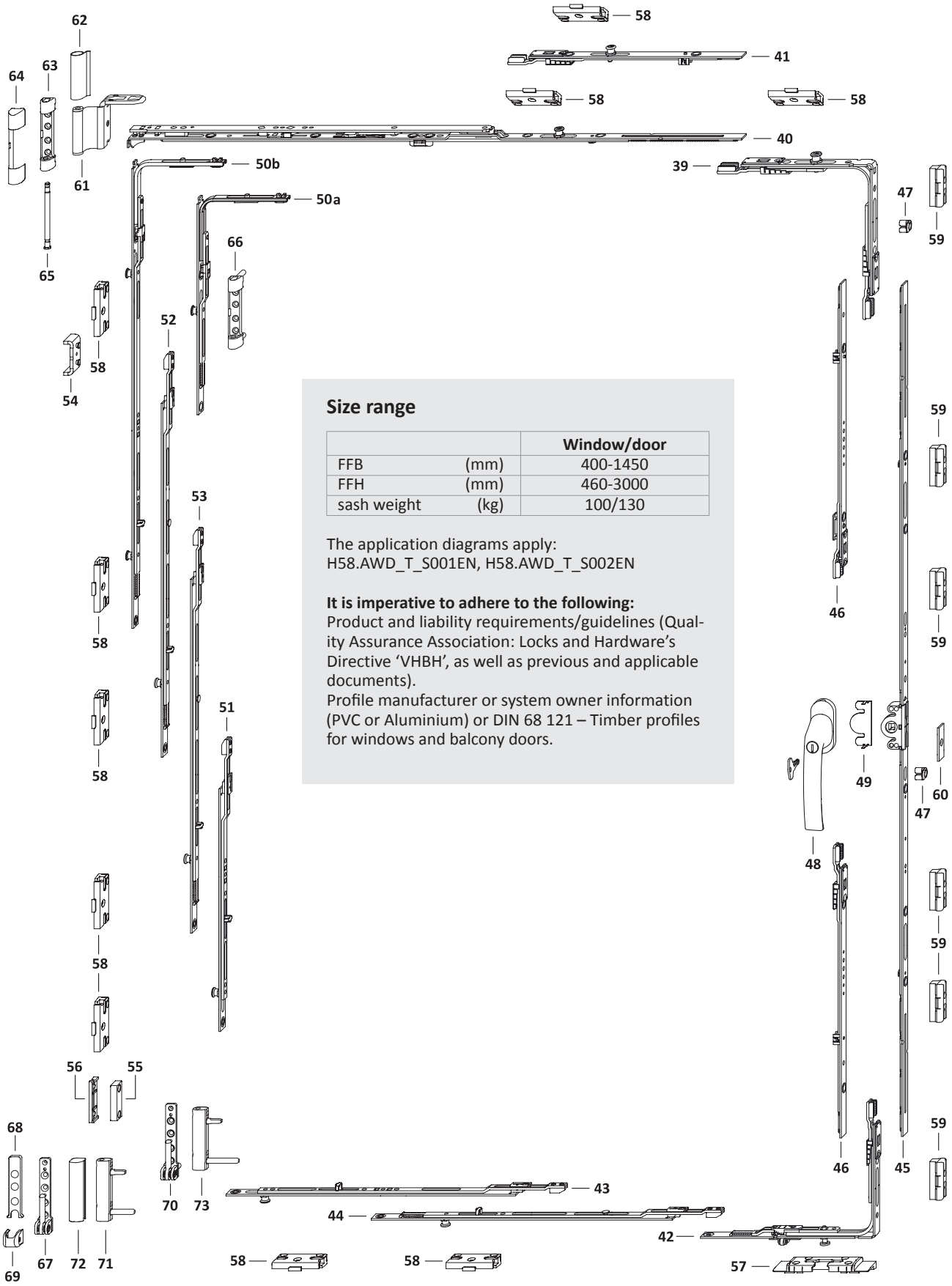
Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN





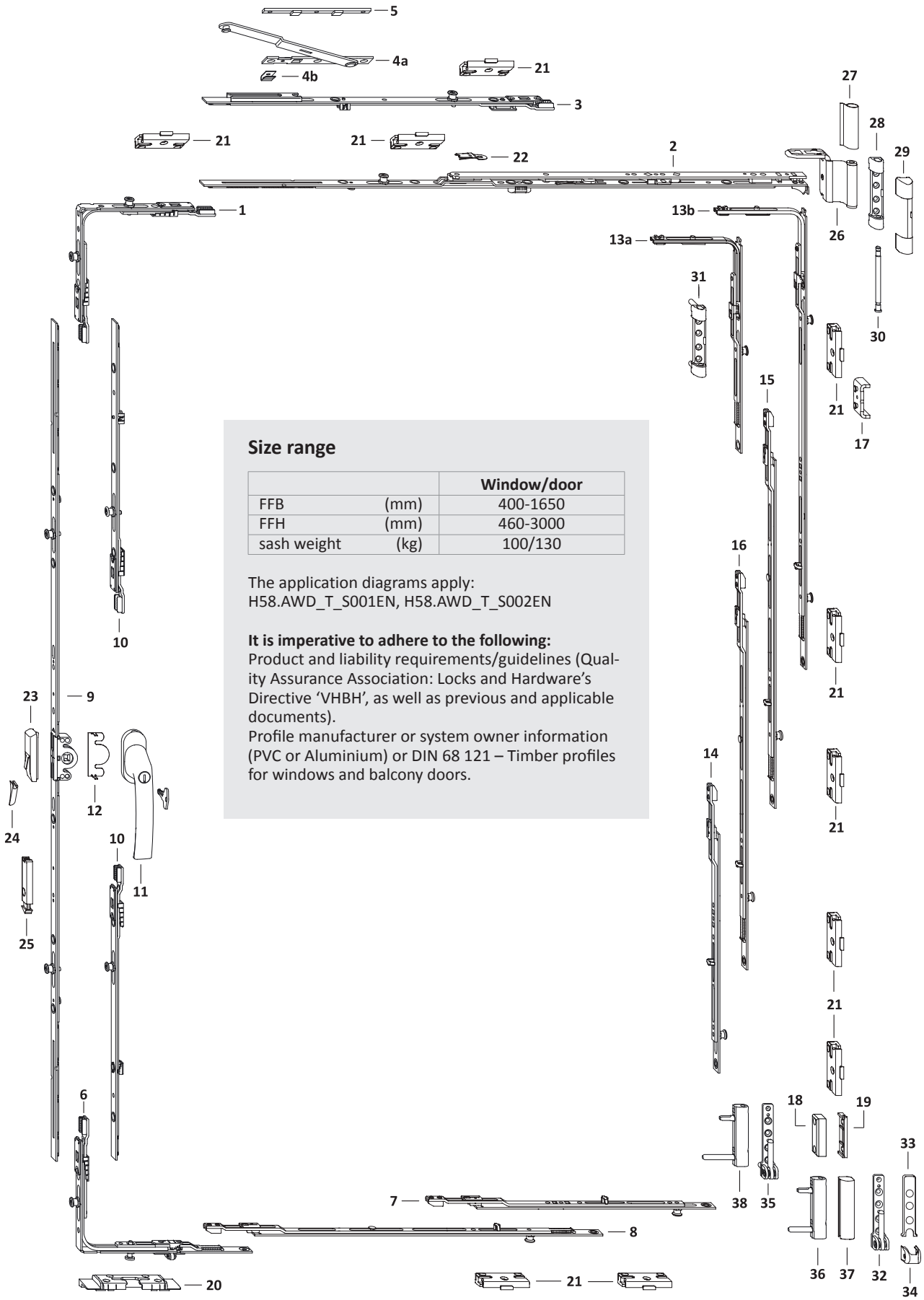


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	460-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

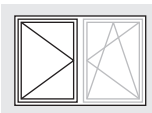
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	460-3000
sash weight	(kg)	100/130

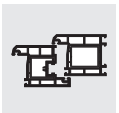
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN



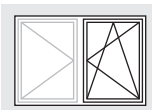


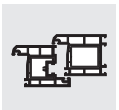
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	57	58	59
39	corn.drive VSO 2RS A0055	TEUL4010- ...	1	400–1450				1	1
40	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 850					
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1	
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1	
41	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1	
42	corn.drive AF VSU/K+ FH 1S 1RS A0055	TEUL5010- ...	1	400–1450			1		1
43	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1	
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1	
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1	
45	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300			
	gear 15 AF sz 60	TGMK4020- ...			601–1000	300– 500			
	gear 15 AF sz 80 1RS	TGMK9080- ...			1001–1200	500– 600			1
	gear 15 AF sz 120 1RS	TGMK9090- ...			1201–1600	600– 800			1
	gear 15 AF sz 160 2RS 70	TGMK9120- ...			1601–2000	800–1000			2
	gear 15 AF sz 200 2RS	TGMK9110- ...			2001–3000	1000–1500			2
46	linkage KK/AF sz 1 1RS	TZKS1040- ...	2		2401–2800				2
	linkage KK/AF sz 2 1RS	TZKS1050- ...			2801–3000				2
47	travel restrictor	TFHB0010- ...	1		460–3000				
48	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000				
49	anti-drill guard E	TGBS0010- ...	1		460–3000				
50a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800			1	
50b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2	
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2	
51	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600			1	
	extension sz 3+ 1RS	TVSL0330- ...			601– 800			1	
	extension sz 2+ 1RS	TVSL0320- ...			801–1000			1	
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400			1	
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800			1	
	extension sz 4+ 1RS	TVSL0340- ...			1801–2200			1	
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400			1	
	extension sz 5+ 1RS	TVSL0350- ...			2401–2800			1	
	extension sz 4+ 1RS	TVSL0340- ...			2801–3000			1	
52	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1	
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1	
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1	
53	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1	
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1	
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1	
54	anti-lift device	Ref. PDB, TFAH	1		460–3000				
55	Air gap limiter	Ref. PDB, FRFL	1		460–3000				
56	packer RB/FPS	Ref. PDB, FRUP02	1		460–3000				
57	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
58	striker plate S-RS	Ref. PDB, TRSK							
59	striker plate S-RS A2000	TRSK0700- ...							
on request									
60	stop 2,2mm	710937	1		601–3000				

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
61	stay hinge DH	Ref. PDB, TBWB61			1	1
62	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
63	top hinge 100kg	Ref. PDB, TBSL61			1	
64	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
65	top hinge pin Poly	TBSB6020-1 ...			1	1
66	top hinge 130kg	Ref. PDB, TBSL62				1
67	bottom hinge 100kg	Ref. PDB, TBEL01			1	
68	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
69	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
70	bottom hinge 130kg	Ref. PDB, TBEL02				1
71	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
72	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
73	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN



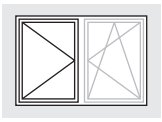


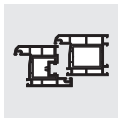
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							20	21
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	400–1650				1
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6	corn.drive AF VSU/K+ FH 1S 1RS A0055	TEUL5020- ...	1	400–1650			1	
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
9	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
11	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000			
12	anti-drill guard E	TGBS0010- ...	1		460–3000			
13a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800			1
13b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
14	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600			1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800			1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000			1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800			1
	extension sz 4+ 1RS	TVSL0340- ...			1801–2200			1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400			1
	extension sz 5+ 1RS	TVSL0350- ...			2401–2800			1
	extension sz 4+ 1RS	TVSL0340- ...			2801–3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
17	anti-lift device	Ref. PDB, TFAH	1		460–3000			
18	Air gap limiter	Ref. PDB, FRFL	1		460–3000			
19	packer RB/FPS	Ref. PDB, FRUP02	1		460–3000			
20	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
21	striker plate S-RS	Ref. PDB, TRSK						
on request								
22	tilt restrictor ..	TFKB0010- ...	1		460– 800			
23	mishandling device	TFBS0010- ...	1		601–3000			
24	pressure piece	Ref. PDB, TFFD	1		601–3000			
25	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

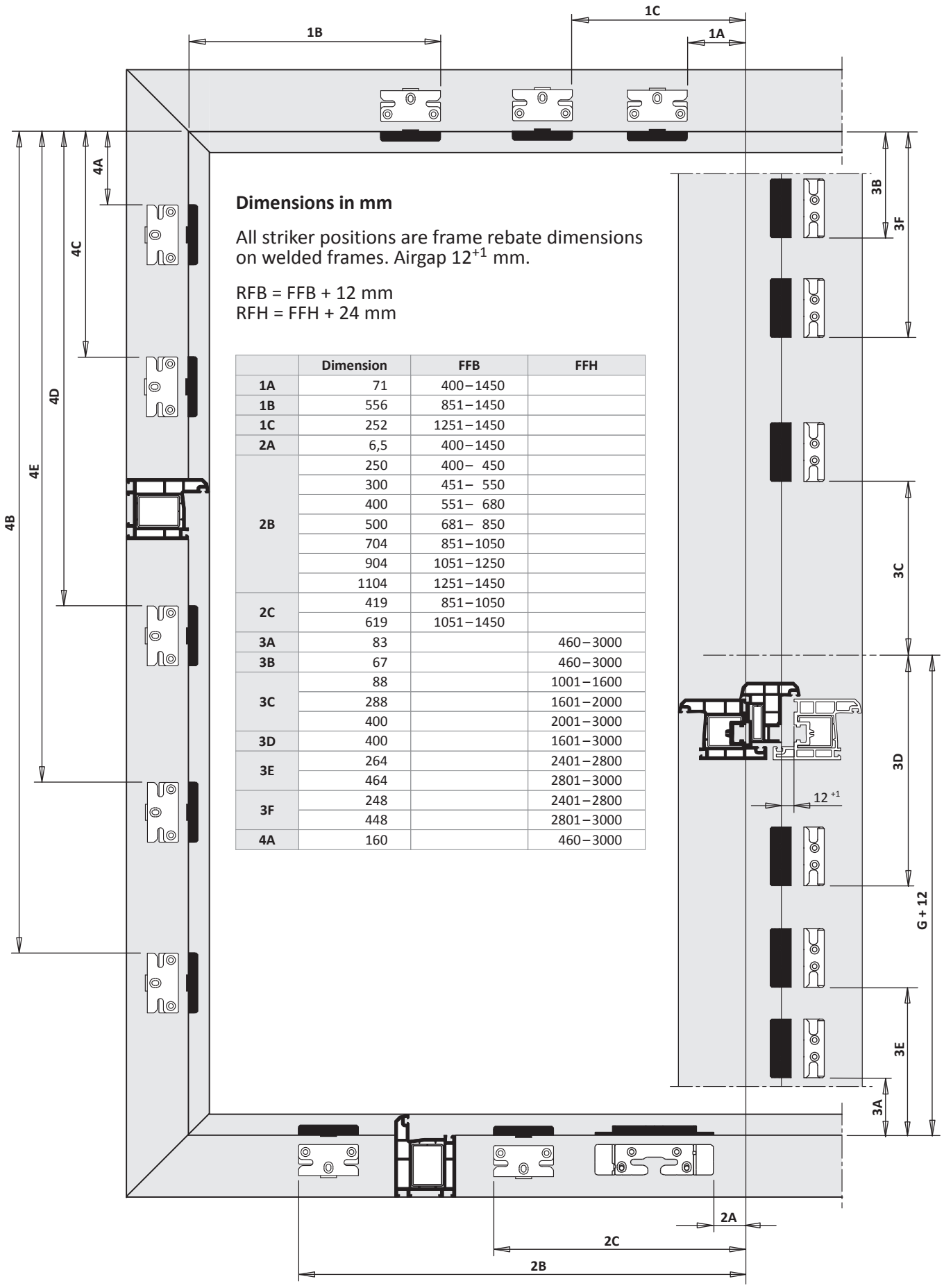
Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
26	stay hinge DH	Ref. PDB, TBWB61			1	1
27	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
28	top hinge 100kg	Ref. PDB, TBSL61			1	
29	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
30	top hinge pin Poly	TBSB6020-1 ...			1	1
31	top hinge 130kg	Ref. PDB, TBSL62				1
32	bottom hinge 100kg	Ref. PDB, TBEL01			1	
33	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
34	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
35	bottom hinge 130kg	Ref. PDB, TBEL02				1
36	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
37	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
38	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN





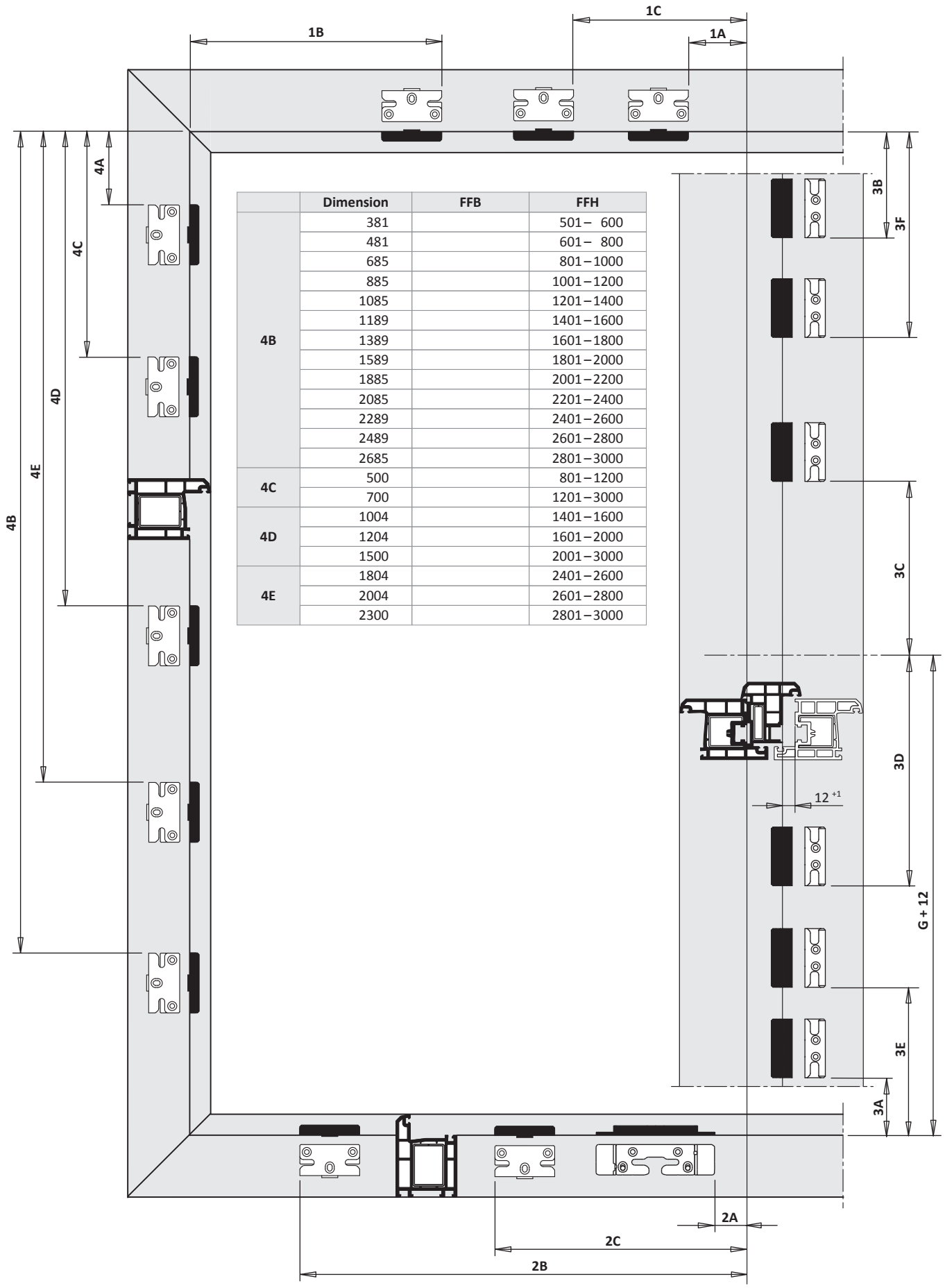


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

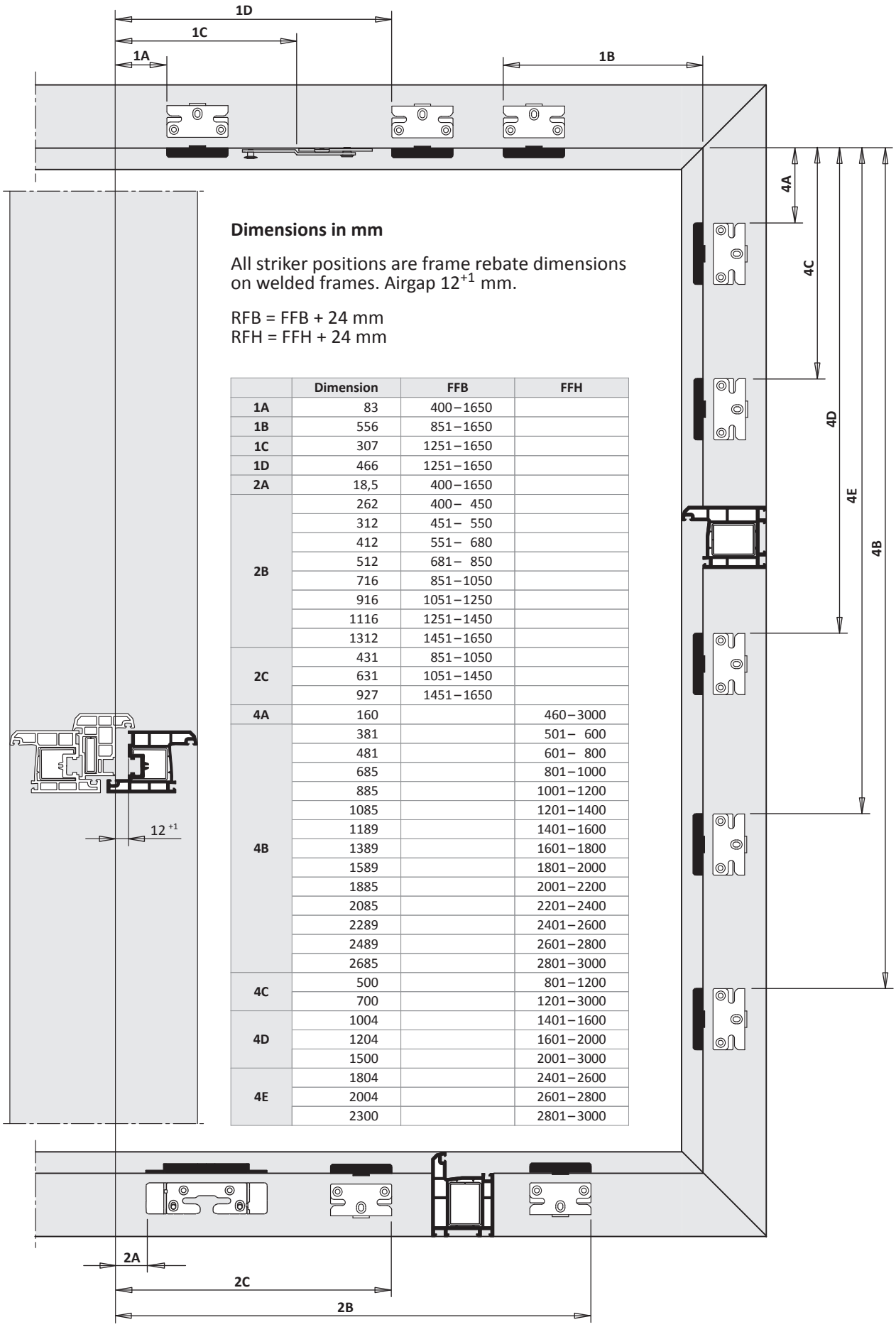
	Dimension	FFB	FFH
1A	71	400–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	6,5	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1104	1251–1450	
2C	419	851–1050	
	619	1051–1450	
3A	83		460–3000
3B	67		460–3000
3C	88		1001–1600
	288		1601–2000
	400		2001–3000
3D	400		1601–3000
3E	264		2401–2800
	464		2801–3000
3F	248		2401–2800
	448		2801–3000
4A	160		460–3000



	Dimension	FFB	FFH
4B	381		501 – 600
	481		601 – 800
	685		801 – 1000
	885		1001 – 1200
	1085		1201 – 1400
	1189		1401 – 1600
	1389		1601 – 1800
	1589		1801 – 2000
	1885		2001 – 2200
	2085		2201 – 2400
	2289		2401 – 2600
	2489		2601 – 2800
	2685		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1204		1601 – 2000
	1500		2001 – 3000
4E	1804		2401 – 2600
	2004		2601 – 2800
	2300		2801 – 3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		460–3000
4B	381		501– 600
	481		601– 800
	685		801–1000
	885		1001–1200
	1085		1201–1400
	1189		1401–1600
	1389		1601–1800
	1589		1801–2000
	1885		2001–2200
	2085		2201–2400
	2289		2401–2600
	2489		2601–2800
	2685		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4E	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions




RC2

1-sash square tilt-turn

PVC

RC2

centre handle pos. (variable)

Hinge side TITAN

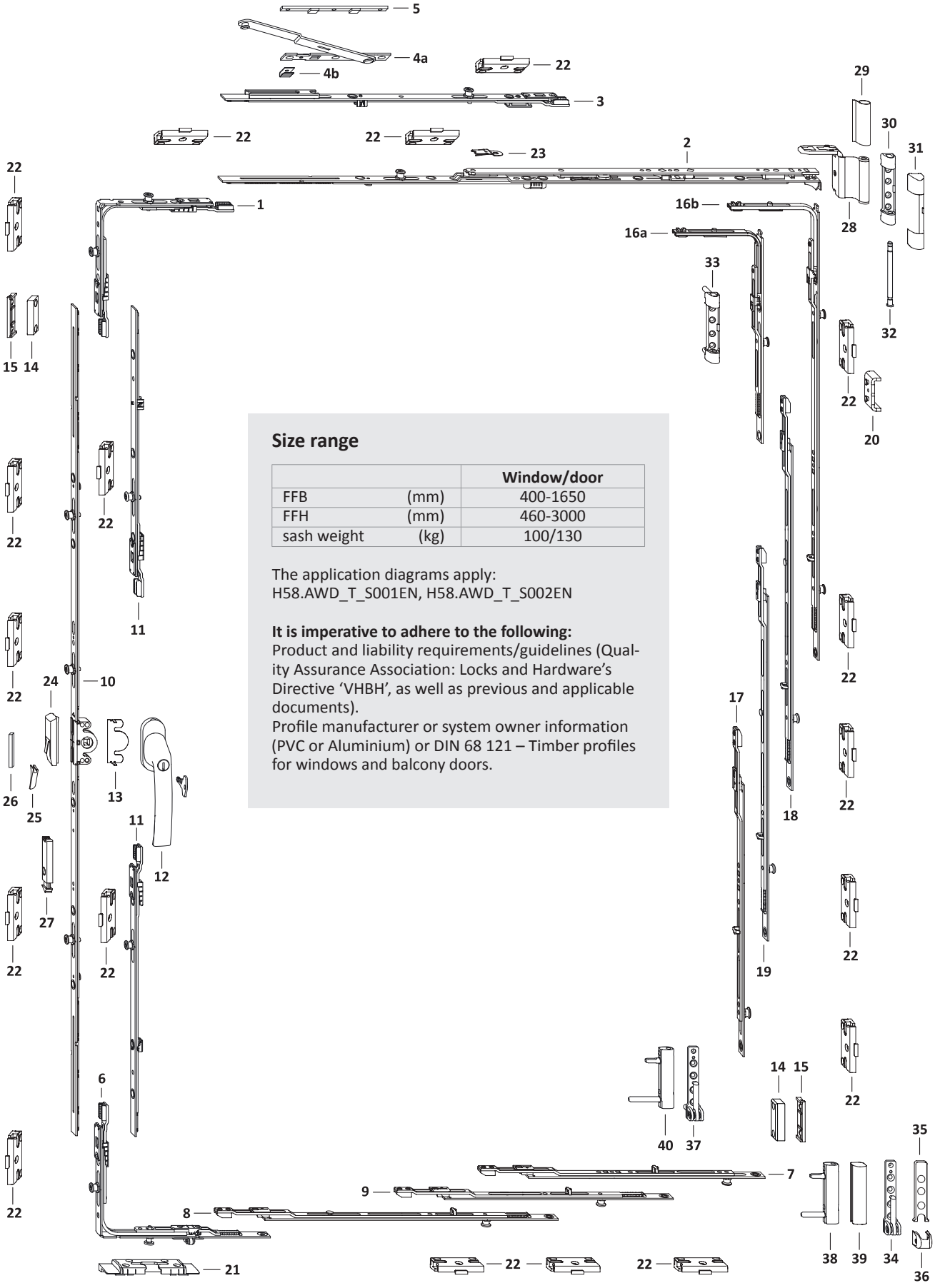
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GM Hinge side TITAN



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	460-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

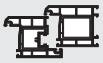
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	400–1650				2
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6	corn.drive AF VSU/K+ FH 1S 1RS A0055	TEUL5020- ...	1	400–1650			1	1
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
10	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350		
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400		1
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500		3
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000			
13	anti-drill guard E	TGBS0010- ...	1		460–3000			
14	Air gap limiter	Ref. PDB, FRFL	2		460–3000			
15	packer RB/FPS	Ref. PDB, FRUP02	2		460–3000			
16a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800			1
16b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
17	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600			1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800			1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000			1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1600			1
	extension sz 2+ 1RS	TVSL0320- ...			1801–2000			1
	extension sz 4+ 1RS	TVSL0340- ...			2001–2200			1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400			1
	extension sz 5+ 1RS	TVSL0350- ...			2401–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2801–3000			1
20	anti-lift device	Ref. PDB, TFAH	1		460–3000			
21	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
22	striker plate S-RS	Ref. PDB, TRSK						
on request								
23	tilt restrictor ..	TFKB0010- ...	1		460– 800			
24	mishandling device	TFBS0010- ...	1					
25	pressure piece	Ref. PDB, TFFD	1					
26	stop	Ref. PDB, FRZF01	1					
27	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

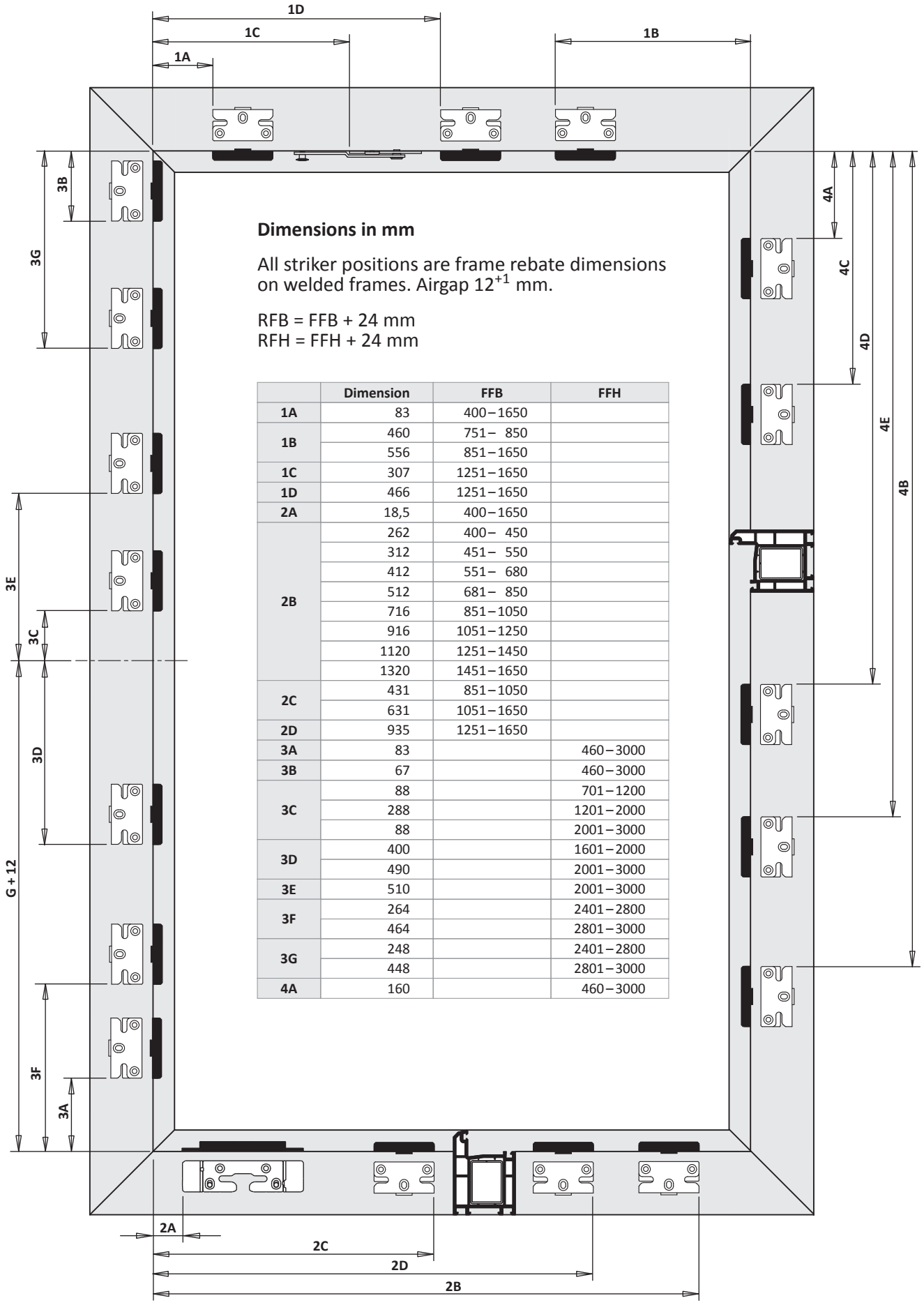
List of fittings

1-sash square tilt-turn
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
28	stay hinge DH	Ref. PDB, TBWB61			1	1
29	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
30	top hinge 100kg	Ref. PDB, TBSL61			1	
31	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
32	top hinge pin Poly	TBSB6020-1 ...			1	1
33	top hinge 130kg	Ref. PDB, TBSL62				1
34	bottom hinge 100kg	Ref. PDB, TBEL01			1	
35	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
36	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
37	bottom hinge 130kg	Ref. PDB, TBEL02				1
38	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
39	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
40	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

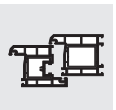
RFB = FFB + 24 mm
RFH = FFH + 24 mm

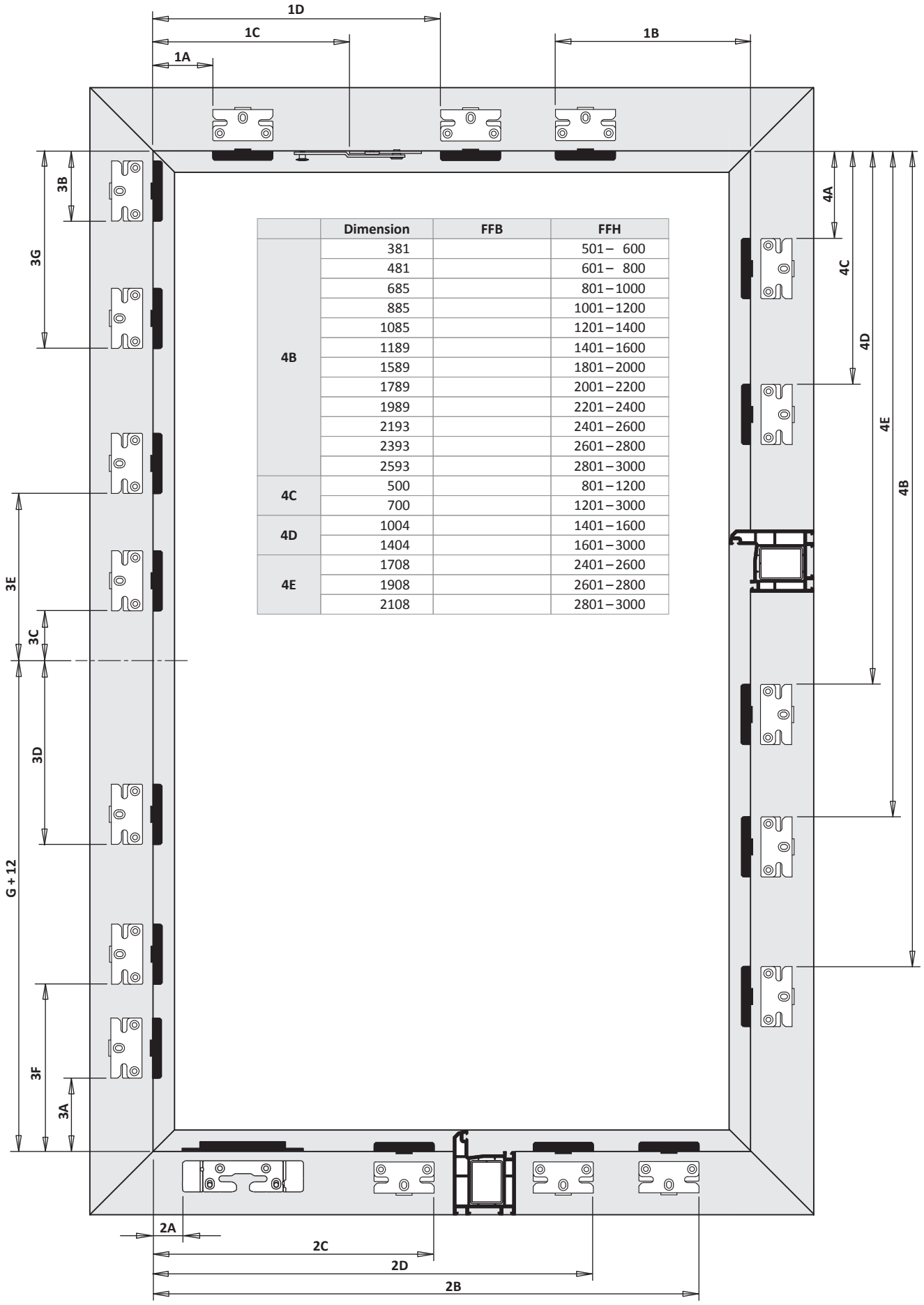
	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
3A	83		460–3000
3B	67		460–3000
3C	88		701–1200
	288		1201–2000
	88		2001–3000
3D	400		1601–2000
	490		2001–3000
3E	510		2001–3000
3F	264		2401–2800
	464		2801–3000
3G	248		2401–2800
	448		2801–3000
4A	160		460–3000

Frame dimensions

1-sash square tilt-turn
PVC GM Hinge side TITAN



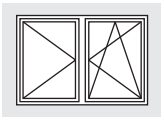


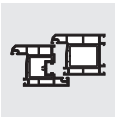


	Dimension	FFB	FFH
4B	381		501 – 600
	481		601 – 800
	685		801 – 1000
	885		1001 – 1200
	1085		1201 – 1400
	1189		1401 – 1600
	1589		1801 – 2000
	1789		2001 – 2200
	1989		2201 – 2400
	2193		2401 – 2600
	2393		2601 – 2800
	2593		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1404		1601 – 3000
4E	1708		2401 – 2600
	1908		2601 – 2800
	2108		2801 – 3000

TITAN AF

Installation instructions





RC2

2-sash square tilt-turn/turn DS 16

PVC

RC2

centre handle pos. (variable)

Hinge side TITAN

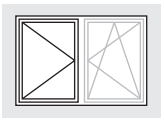
surface TS

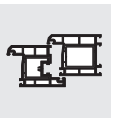
backset 15 mm

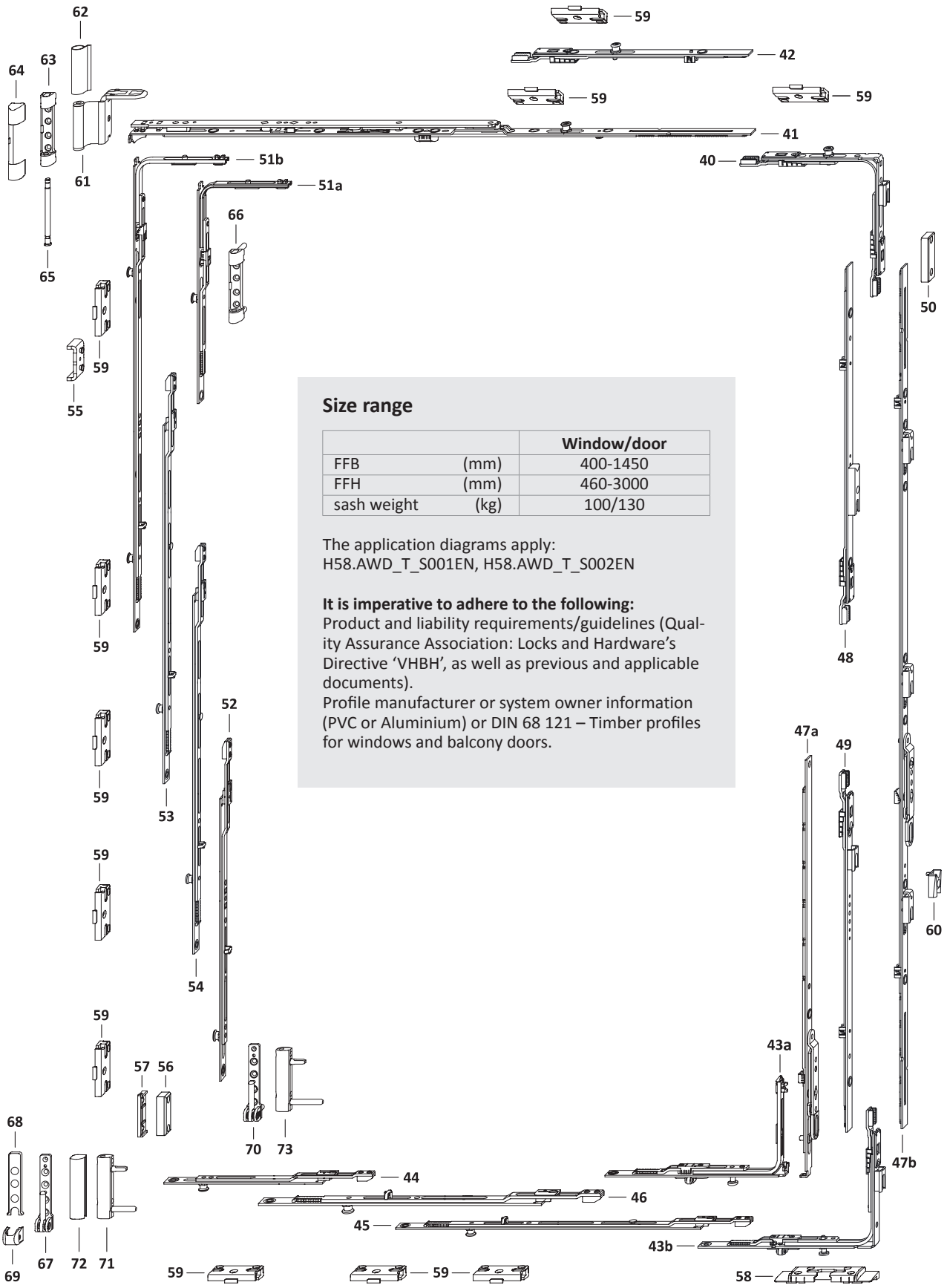
Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





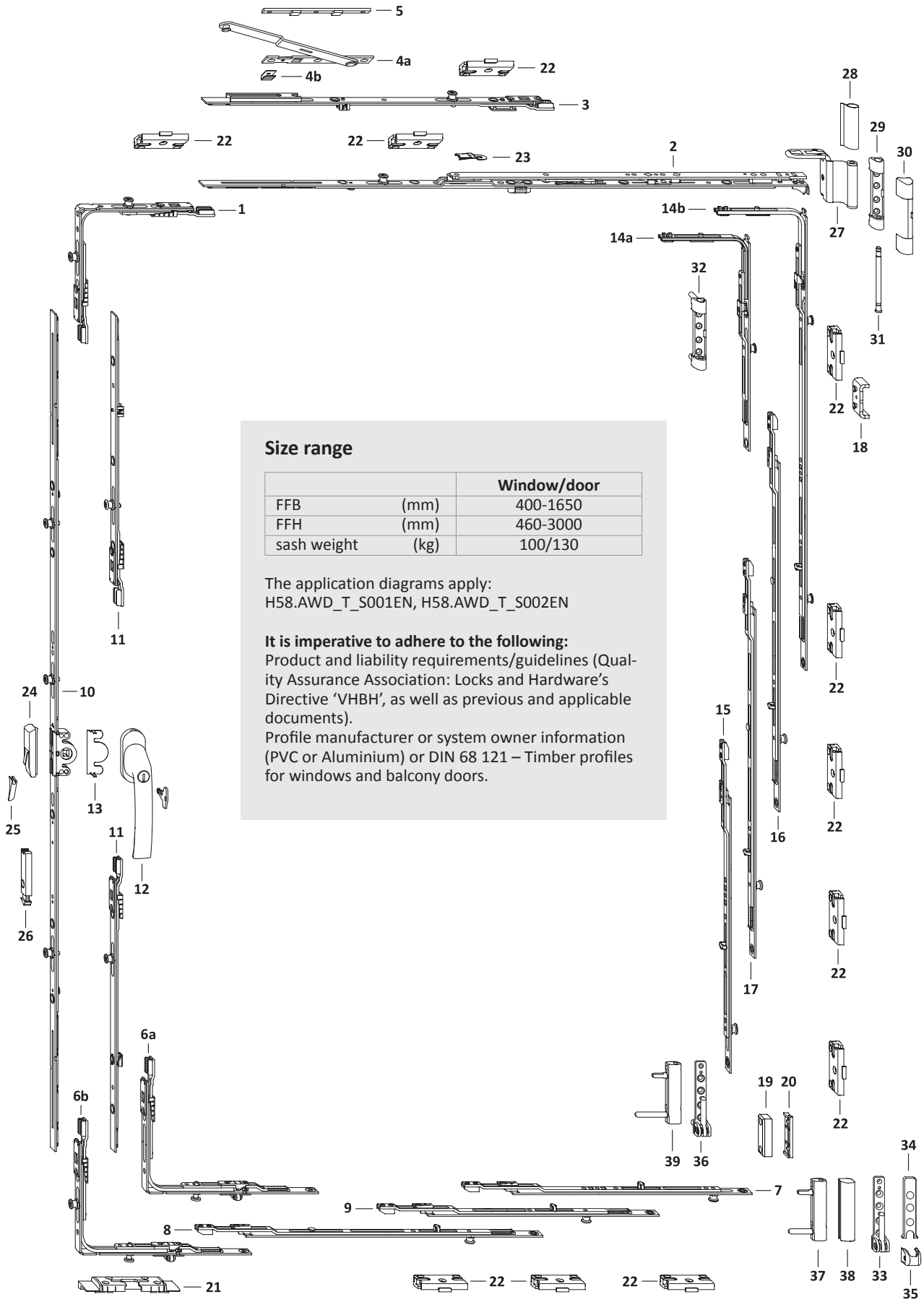


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	460-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

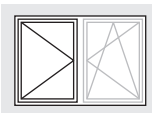
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	460-3000
sash weight	(kg)	100/130

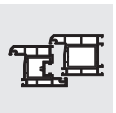
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN



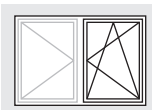


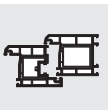
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	58	59
40	corn.drive AF VSO WK2 SB 1RS	TEUL4080- ...	1	400–1450				1
41	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2 1RS	TSKK2120- ...		681– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1
42	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
43a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1450	460– 700		1	
43b	corn.drive AF VSU/K+WK2 FHSB1S	TEUL5110- ...	1	400–1450	701–3000		1	
44	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450				1
45	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
46	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1450				1
47a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460– 600	230– 300		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300– 350		
47b	sec.sash gear 16 AF sz 70 1SB	TGMS4030- ...	1		701– 800	350– 400		
	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...			801–1200	400– 600		
	sec.sash gear 16 AF 120 2SB 70	TGMS4120- ...			1201–1600	600– 800		
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000		
	sec.sash gear 16 AF 200 3SB 70	TGMS4100- ...			2001–3000	1000–1500		
48	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
49	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800			
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000			
50	air gap limiter F ..	TFFB0010- ...	1		460–3000			
51a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800			1
51b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
52	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600			1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800			1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000			1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1600			1
	extension sz 2+ 1RS	TVSL0320- ...			1801–2000			1
	extension sz 4+ 1RS	TVSL0340- ...			2001–2200			1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400			1
	extension sz 5+ 1RS	TVSL0350- ...			2401–3000			1
53	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
54	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2801–3000			1
55	anti-lift device	Ref. PDB, TFAH	1		460–3000			
56	Air gap limiter	Ref. PDB, FRFL	1		460–3000			
57	packer RB/FPS	Ref. PDB, FRUP02	1		460–3000			
58	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
59	striker plate S-RS	Ref. PDB, TRSK						
on request								
60	striker snapper AF A0767	TRST0100- ...	1		1601–3000			

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
61	stay hinge DH	Ref. PDB, TBWB61			1	1
62	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
63	top hinge 100kg	Ref. PDB, TBSL61			1	
64	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
65	top hinge pin Poly	TBSB6020-1 ...			1	1
66	top hinge 130kg	Ref. PDB, TBSL62				1
67	bottom hinge 100kg	Ref. PDB, TBEL01			1	
68	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
69	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
70	bottom hinge 130kg	Ref. PDB, TBEL02				1
71	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
72	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
73	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN



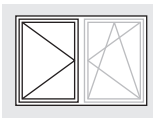


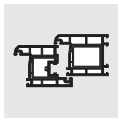
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	400–1650				1
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2 1RS	TSKK2120- ...		681– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	460– 700		1	
6b	corn.drive AF VSU/K+ FH 1S 1RS A0055	TEUL5020- ...	1	400–1650	701–3000		1	
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
10	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350		
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500		
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000			
13	anti-drill guard E	TGBS0010- ...	1		460–3000			
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800			1
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
15	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600			1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800			1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000			1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1600			1
	extension sz 2+ 1RS	TVSL0320- ...			1801–2000			1
	extension sz 4+ 1RS	TVSL0340- ...			2001–2200			1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400			1
	extension sz 5+ 1RS	TVSL0350- ...			2401–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2801–3000			1
18	anti-lift device	Ref. PDB, TFAH	1		460–3000			
19	Air gap limiter	Ref. PDB, FRFL	1		460–3000			
20	packer RB/FPS	Ref. PDB, FRUP02	1		460–3000			
21	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
22	striker plate S-RS	Ref. PDB, TRSK						
on request								
23	tilt restrictor ..	TFKB0010- ...	1		460– 800			
24	mishandling device	TFBS0010- ...	1		601–3000			
25	pressure piece	Ref. PDB, TFFD	1		601–3000			
26	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

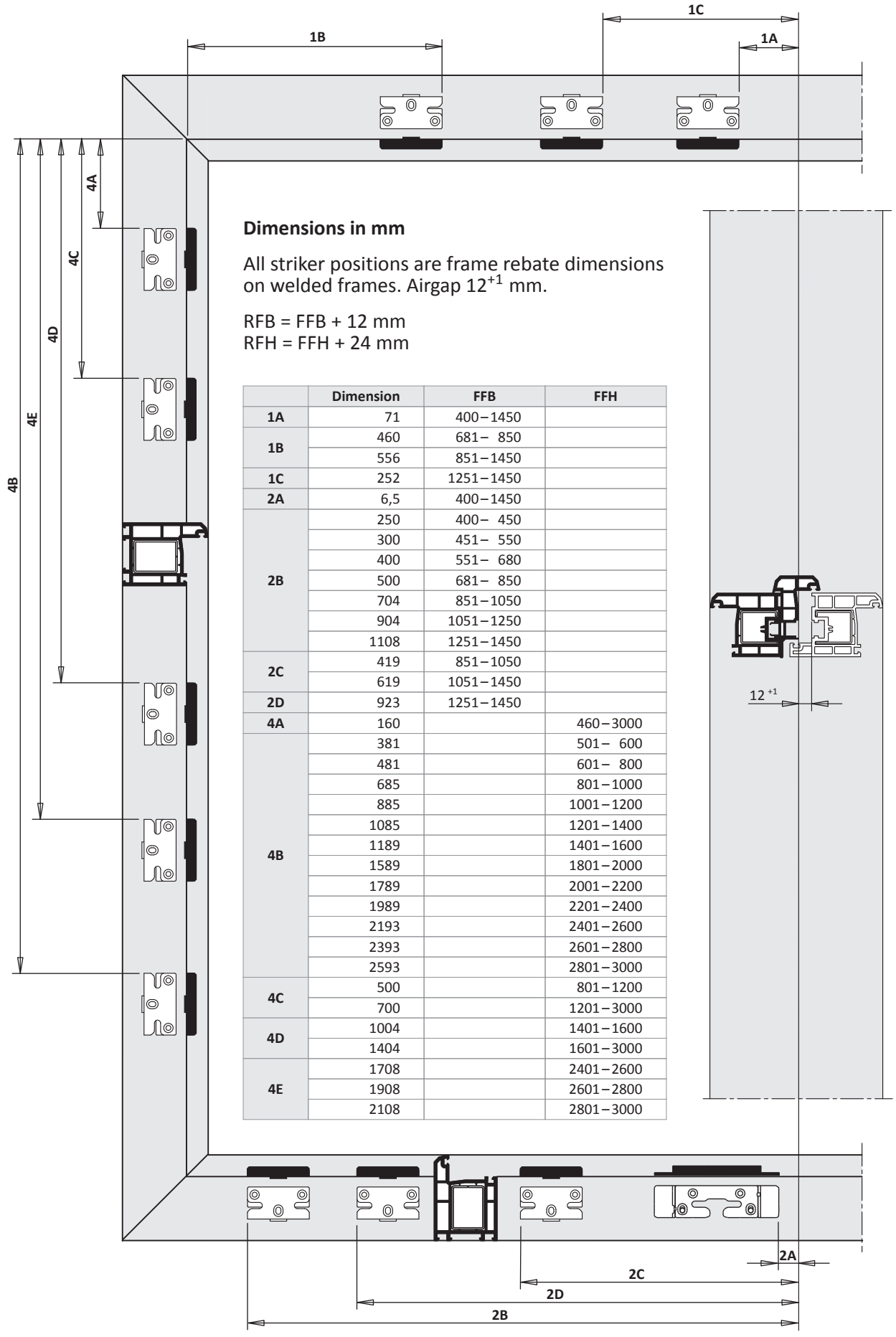
Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
27	stay hinge DH	Ref. PDB, TBWB61			1	1
28	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
29	top hinge 100kg	Ref. PDB, TBSL61			1	
30	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
31	top hinge pin Poly	TBSB6020-1 ...			1	1
32	top hinge 130kg	Ref. PDB, TBSL62				1
33	bottom hinge 100kg	Ref. PDB, TBEL01			1	
34	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
35	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
36	bottom hinge 130kg	Ref. PDB, TBEL02				1
37	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
38	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
39	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





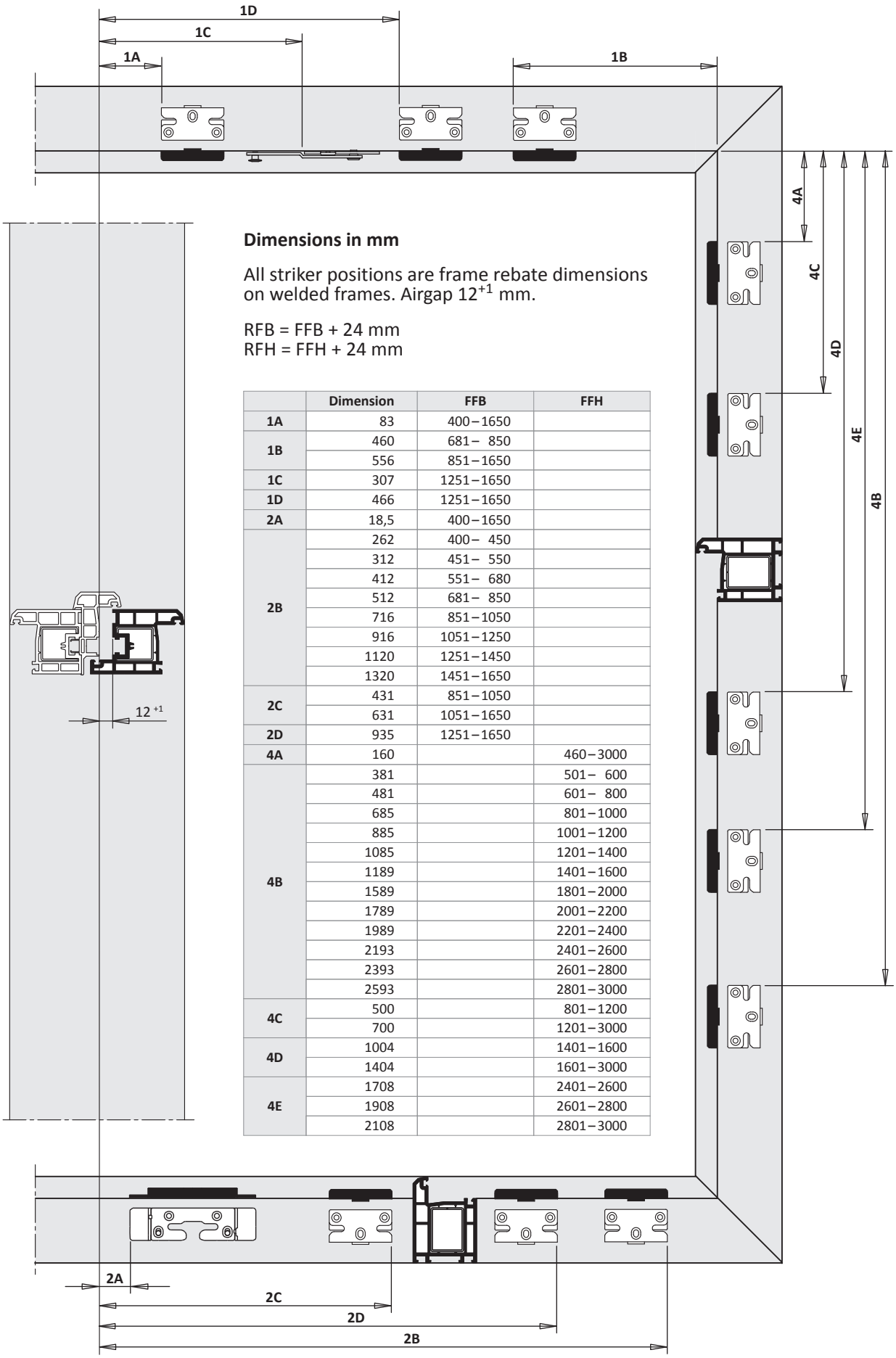


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	460	681– 850	
	556	851–1450	
1C	252	1251–1450	
2A	6,5	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1108	1251–1450	
2C	419	851–1050	
	619	1051–1450	
2D	923	1251–1450	
4A	160		460–3000
4B	381		501– 600
	481		601– 800
	685		801–1000
	885		1001–1200
	1085		1201–1400
	1189		1401–1600
	1589		1801–2000
	1789		2001–2200
	1989		2201–2400
	2193		2401–2600
	2393		2601–2800
	2593		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1404		1601–3000
4E	1708		2401–2600
	1908		2601–2800
	2108		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400 – 1650	
1B	460	681 – 850	
	556	851 – 1650	
1C	307	1251 – 1650	
1D	466	1251 – 1650	
2A	18,5	400 – 1650	
2B	262	400 – 450	
	312	451 – 550	
	412	551 – 680	
	512	681 – 850	
	716	851 – 1050	
	916	1051 – 1250	
	1120	1251 – 1450	
	1320	1451 – 1650	
2C	431	851 – 1050	
	631	1051 – 1650	
2D	935	1251 – 1650	
4A	160		460 – 3000
4B	381		501 – 600
	481		601 – 800
	685		801 – 1000
	885		1001 – 1200
	1085		1201 – 1400
	1189		1401 – 1600
	1589		1801 – 2000
	1789		2001 – 2200
	1989		2201 – 2400
	2193		2401 – 2600
	2393		2601 – 2800
	2593		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1404		1601 – 3000
4E	1708		2401 – 2600
	1908		2601 – 2800
	2108		2801 – 3000

TITAN AF

Installation instructions




RC2

1-sash square tilt-turn

PVC

RC2

centre handle pos. (variable)

Hinge side TITAN

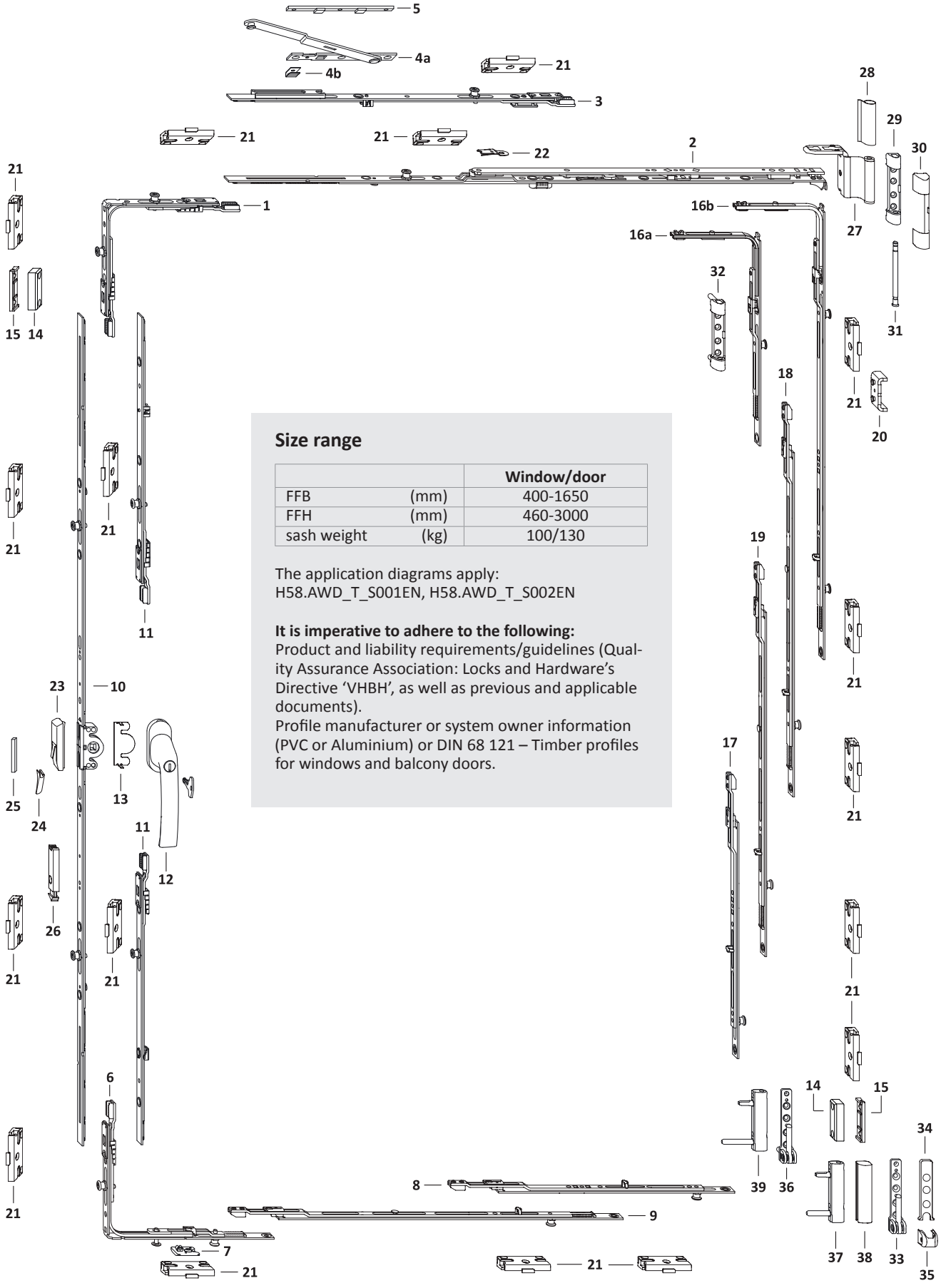
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GM Hinge side TITAN



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	460-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

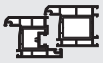
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							21
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	400–1650			2
2	stay AF sz 0	TSKK2000- ...	1	400– 450			
	stay AF sz 1	TSKK2010- ...		451– 680			
	stay AF sz 2	TSKK2020- ...		681– 850			
	stay AF sz 3 1RS	TSKK2030- ...		851–1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250			1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450			1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650			1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650			1
4	additional stay	Ref. PDB, TSZS	1	1251–1650			
5	packer Z	Ref. PDB, FRUP01	1	1251–1650			
6	corn.drive AF VSU/K 56+ 1S 2RS	TEUL5040- ...	1	400–1650			2
7	run up block AF 13 mm 13	TFFH0080- ...	1	400–1650			
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450			1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650			1
10	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300	
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400	
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600	1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800	1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000	2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500	2
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800		2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000		2
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000		
13	anti-drill guard E	TGBS0010- ...	1		460–3000		
14	Air gap limiter	Ref. PDB, FRFL	2		460–3000		
15	packer RB/FPS	Ref. PDB, FRUP02	2		460–3000		
16a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800		1
16b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
17	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600		1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800		1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000		1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800		1
	extension sz 4+ 1RS	TVSL0340- ...			1801–2200		1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400		1
	extension sz 5+ 1RS	TVSL0350- ...			2401–2800		1
	extension sz 4+ 1RS	TVSL0340- ...			2801–3000		1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000		1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000		1
20	anti-lift device	Ref. PDB, TFAH	1		460–3000		
21	striker plate S-RS	Ref. PDB, TRSK					
			on request				
22	tilt restrictor ..	TFKB0010- ...	1		460– 800		
23	mishandling device	TFBS0010- ...	1				
24	pressure piece	Ref. PDB, TFFD	1				
25	stop	Ref. PDB, FRZF01	1				
26	snapper rh.	TFST0021- ...	1		1601–3000		
	snapper lh.	TFST0022- ...			1601–3000		

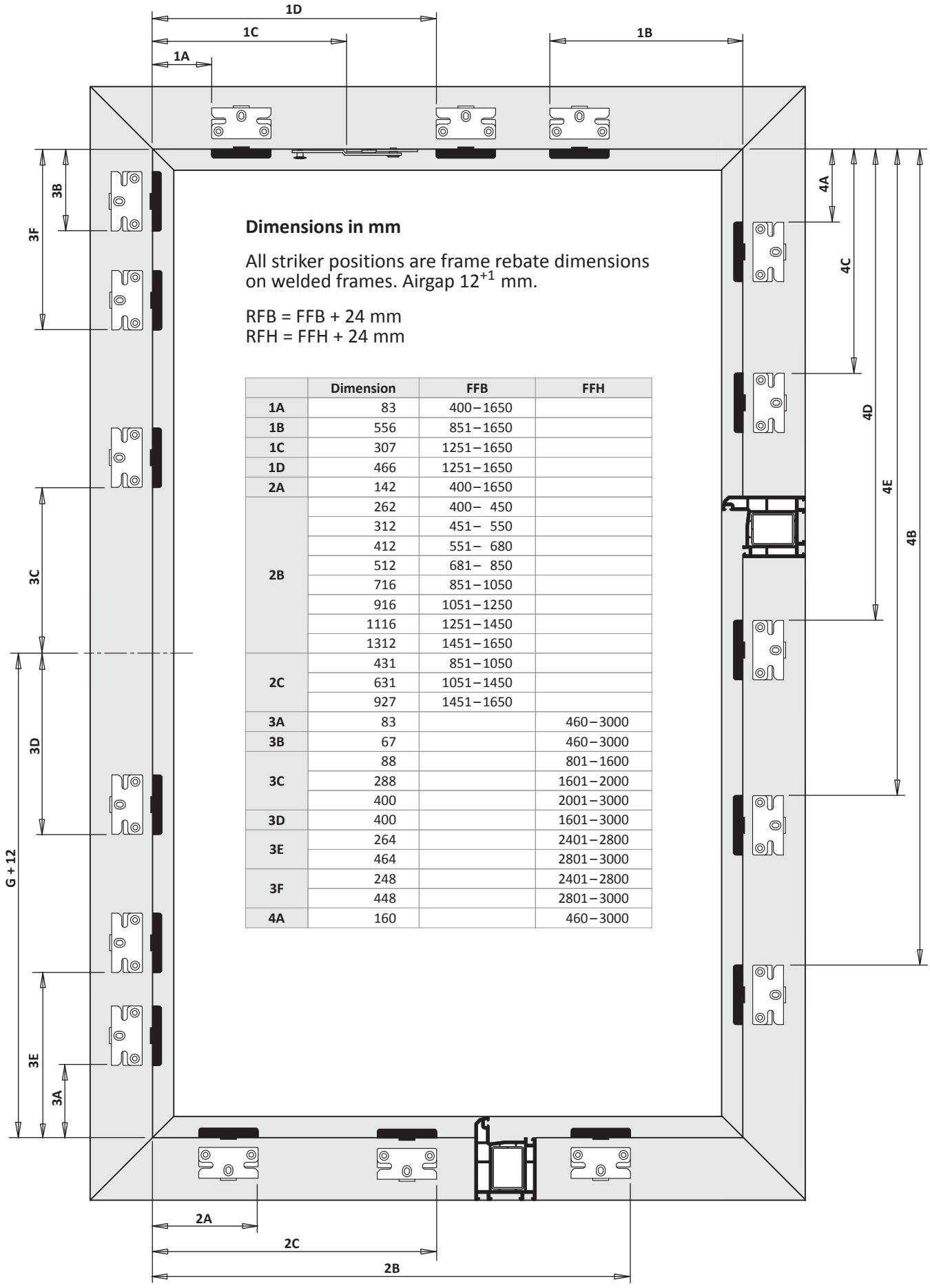
List of fittings

1-sash square tilt-turn
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
27	stay hinge DH	Ref. PDB, TBWB61			1	1
28	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
29	top hinge 100kg	Ref. PDB, TBSL61			1	
30	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
31	top hinge pin Poly	TBSB6020-1 ...			1	1
32	top hinge 130kg	Ref. PDB, TBSL62				1
33	bottom hinge 100kg	Ref. PDB, TBEL01			1	
34	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
35	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
36	bottom hinge 130kg	Ref. PDB, TBEL02				1
37	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
38	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
39	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

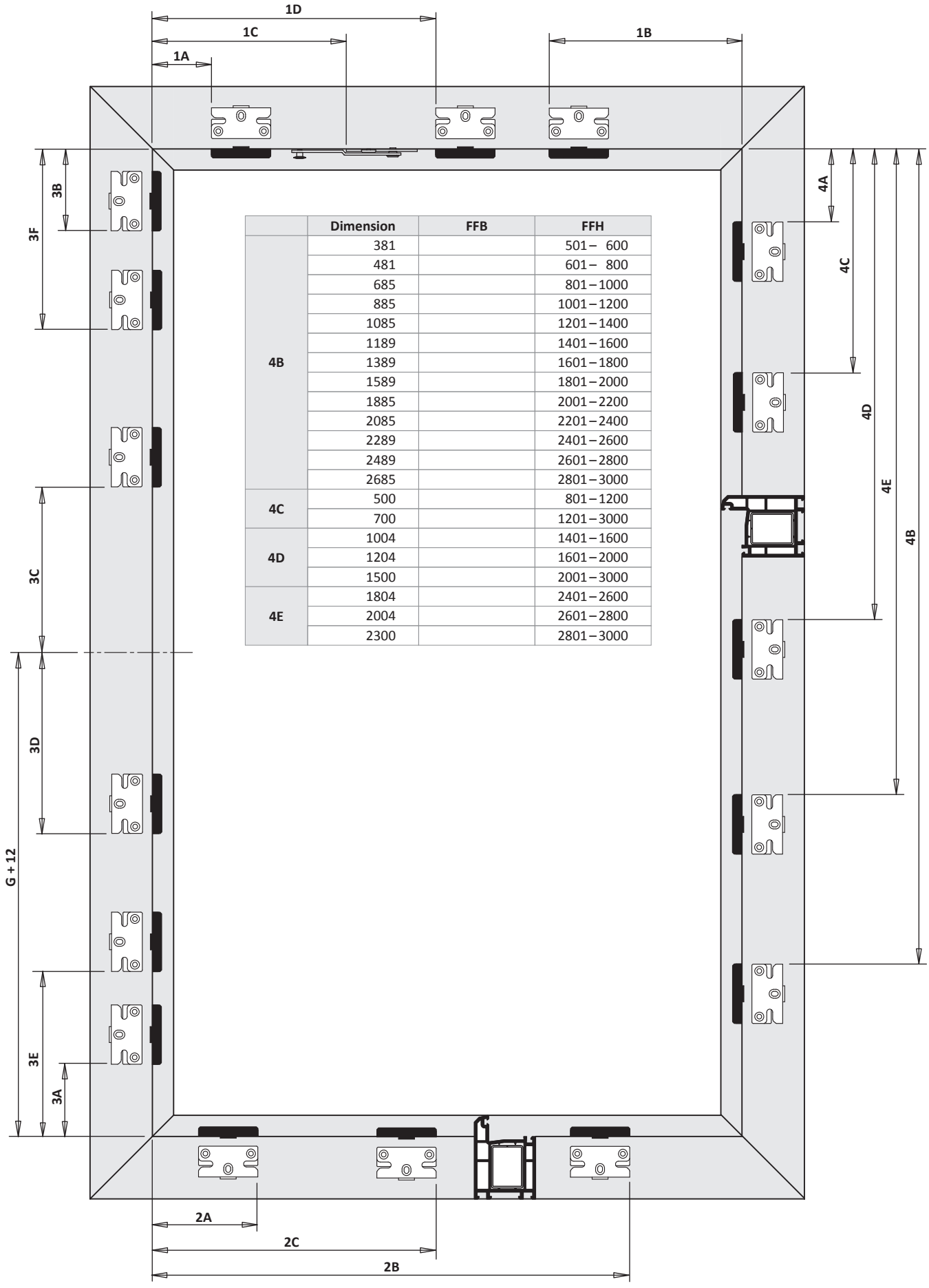
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400 – 1650	
1B	556	851 – 1650	
1C	307	1251 – 1650	
1D	466	1251 – 1650	
2A	142	400 – 1650	
2B	262	400 – 450	
	312	451 – 550	
	412	551 – 680	
	512	681 – 850	
	716	851 – 1050	
	916	1051 – 1250	
	1116	1251 – 1450	
	1312	1451 – 1650	
2C	431	851 – 1050	
	631	1051 – 1450	
	927	1451 – 1650	
3A	83		460 – 3000
3B	67		460 – 3000
3C	88		801 – 1600
	288		1601 – 2000
	400		2001 – 3000
3D	400		1601 – 3000
3E	264		2401 – 2800
	464		2801 – 3000
3F	248		2401 – 2800
	448		2801 – 3000
4A	160		460 – 3000

Frame dimensions

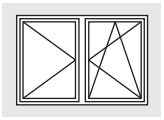
1-sash square tilt-turn
PVC GM Hinge side TITAN

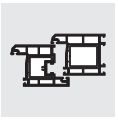


	Dimension	FFB	FFH
4B	381		501 – 600
	481		601 – 800
	685		801 – 1000
	885		1001 – 1200
	1085		1201 – 1400
	1189		1401 – 1600
	1389		1601 – 1800
	1589		1801 – 2000
	1885		2001 – 2200
	2085		2201 – 2400
	2289		2401 – 2600
	2489		2601 – 2800
	2685		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1204		1601 – 2000
	1500		2001 – 3000
4E	1804		2401 – 2600
	2004		2601 – 2800
	2300		2801 – 3000

TITAN AF

Installation instructions





RC2

2-sash square tilt-turn/turn DS 16

PVC

RC2

centre handle pos. (variable)

Hinge side TITAN

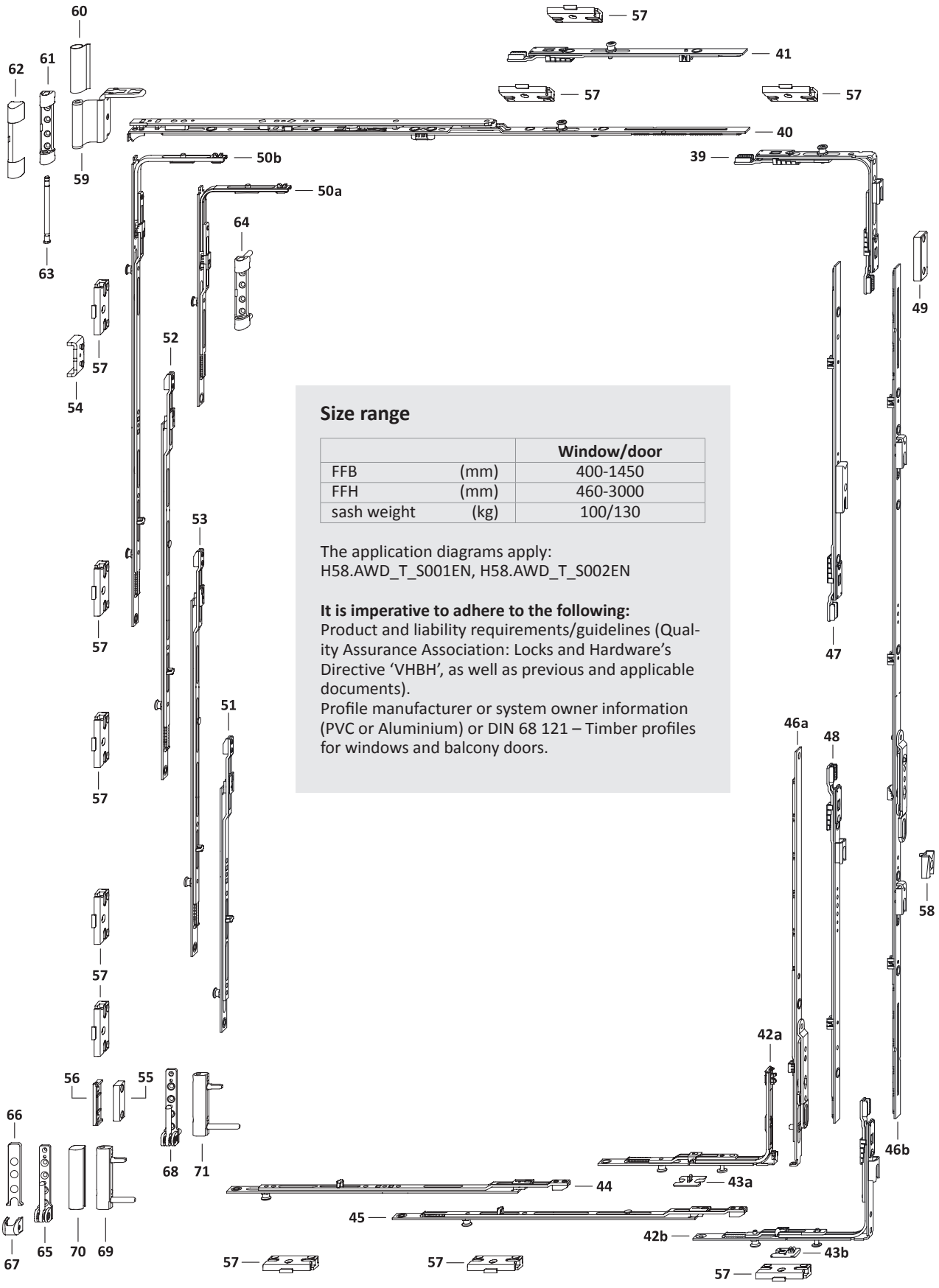
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

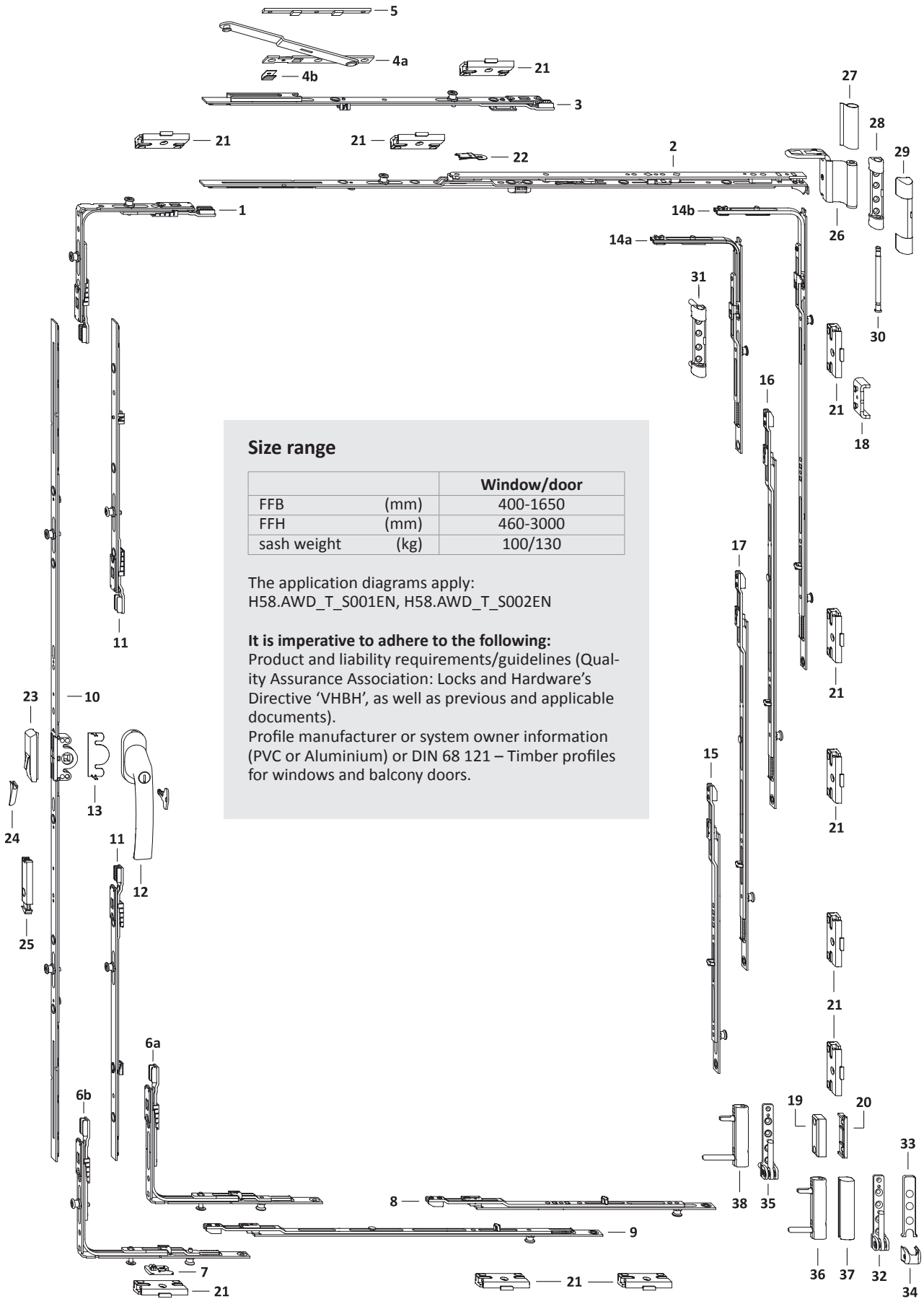


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	460-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

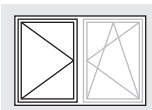
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	460-3000
sash weight	(kg)	100/130

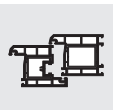
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN



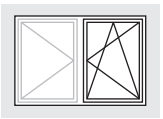


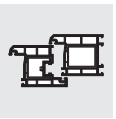
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
						In the main sash	57
39	corn.drive AF VSO WK2 SB 1RS	TEUL4080- ...	1	400 – 1450			1
40	stay AF sz 0	TSKK2000- ...	1	400 – 450			
	stay AF sz 1	TSKK2010- ...		451 – 680			
	stay AF sz 2	TSKK2020- ...		681 – 850			
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1450			1
41	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251 – 1450			1
42a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400 – 1450	460 – 800		1
42b	corn.drive AFVSU/K 56+ SB1S1RS	TEUL5120- ...	1	400 – 1450	801 – 3000		1
43a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400 – 1450	460 – 800		
43b	run up block AF 13 mm 13	TFFH0080- ...	1	400 – 1450	801 – 3000		
44	extension sz 1+ 1RS	TVSO0200- ...	1	400 – 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451 – 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551 – 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681 – 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851 – 1250			1
	extension sz 5+ 1RS	TVSL0350- ...		1251 – 1450			1
45	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450			1
46a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460 – 600	230 – 300	
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601 – 800	300 – 400	
46b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801 – 1200	400 – 600	
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201 – 1600	600 – 800	
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601 – 2000	800 – 1000	
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001 – 3000	1000 – 1500	
47	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401 – 2800		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000		
48	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401 – 2800		
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801 – 3000		
49	air gap limiter F ..	TFFB0010- ...	1		460 – 3000		
50a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460 – 800		1
50b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2
51	extension sz 2+ 1RS	TVSL0320- ...	1		501 – 600		1
	extension sz 3+ 1RS	TVSL0330- ...			601 – 800		1
	extension sz 2+ 1RS	TVSL0320- ...			801 – 1000		1
	extension sz 4+ 1RS	TVSL0340- ...			1001 – 1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401 – 1800		1
	extension sz 4+ 1RS	TVSL0340- ...			1801 – 2200		1
	extension sz 6+ 1RS	TVSL0360- ...			2201 – 2400		1
	extension sz 5+ 1RS	TVSL0350- ...			2401 – 2800		1
	extension sz 4+ 1RS	TVSL0340- ...			2801 – 3000		1
52	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000		1
53	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000		1
54	anti-lift device	Ref. PDB, TFAH	1		460 – 3000		
55	Air gap limiter	Ref. PDB, FRFL	1		460 – 3000		
56	packer RB/FPS	Ref. PDB, FRUP02	1		460 – 3000		
57	striker plate S-RS	Ref. PDB, TRSK					
on request							
58	striker snapper AF A0767	TRST0100- ...	1		1601 – 3000		

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
59	stay hinge DH	Ref. PDB, TBWB61			1	1
60	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
61	top hinge 100kg	Ref. PDB, TBSL61			1	
62	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
63	top hinge pin Poly	TBSB6020-1 ...			1	1
64	top hinge 130kg	Ref. PDB, TBSL62				1
65	bottom hinge 100kg	Ref. PDB, TBEL01			1	
66	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
67	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
68	bottom hinge 130kg	Ref. PDB, TBEL02				1
69	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
70	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
71	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN



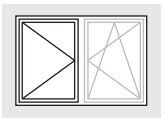


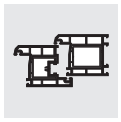
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							21
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	400–1650			1
2	stay AF sz 0	TSKK2000- ...	1	400– 450			
	stay AF sz 1	TSKK2010- ...		451– 680			
	stay AF sz 2	TSKK2020- ...		681– 850			
	stay AF sz 3 1RS	TSKK2030- ...		851–1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250			1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450			1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650			1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650			1
4	additional stay	Ref. PDB, TSZS	1	1251–1650			
5	packer Z	Ref. PDB, FRUP01	1	1251–1650			
6a	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1650	460– 800		1
6b	corn.drive AF VSU/K 56+ 1S 2RS	TEUL5040- ...	1	400–1650	801–3000		1
7	run up block AF 13 mm 13	TFFH0080- ...	1	400–1650			
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450			1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650			1
10	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300	
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400	
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600	
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800	
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000	
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500	
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000		
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000		
13	anti-drill guard E	TGBS0010- ...	1		460–3000		
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800		1
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
15	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600		1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800		1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000		1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800		1
	extension sz 4+ 1RS	TVSL0340- ...			1801–2200		1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400		1
	extension sz 5+ 1RS	TVSL0350- ...			2401–2800		1
	extension sz 4+ 1RS	TVSL0340- ...			2801–3000		1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000		1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000		1
18	anti-lift device	Ref. PDB, TFAH	1		460–3000		
19	Air gap limiter	Ref. PDB, FRFL	1		460–3000		
20	packer RB/FPS	Ref. PDB, FRUP02	1		460–3000		
21	striker plate S-RS	Ref. PDB, TRSK					
			on request				
22	tilt restrictor ..	TFKB0010- ...	1		460– 800		
23	mishandling device	TFBS0010- ...	1		601–3000		
24	pressure piece	Ref. PDB, TFFD	1		601–3000		
25	snapper rh.	TFST0021- ...	1		1601–3000		
	snapper lh.	TFST0022- ...			1601–3000		

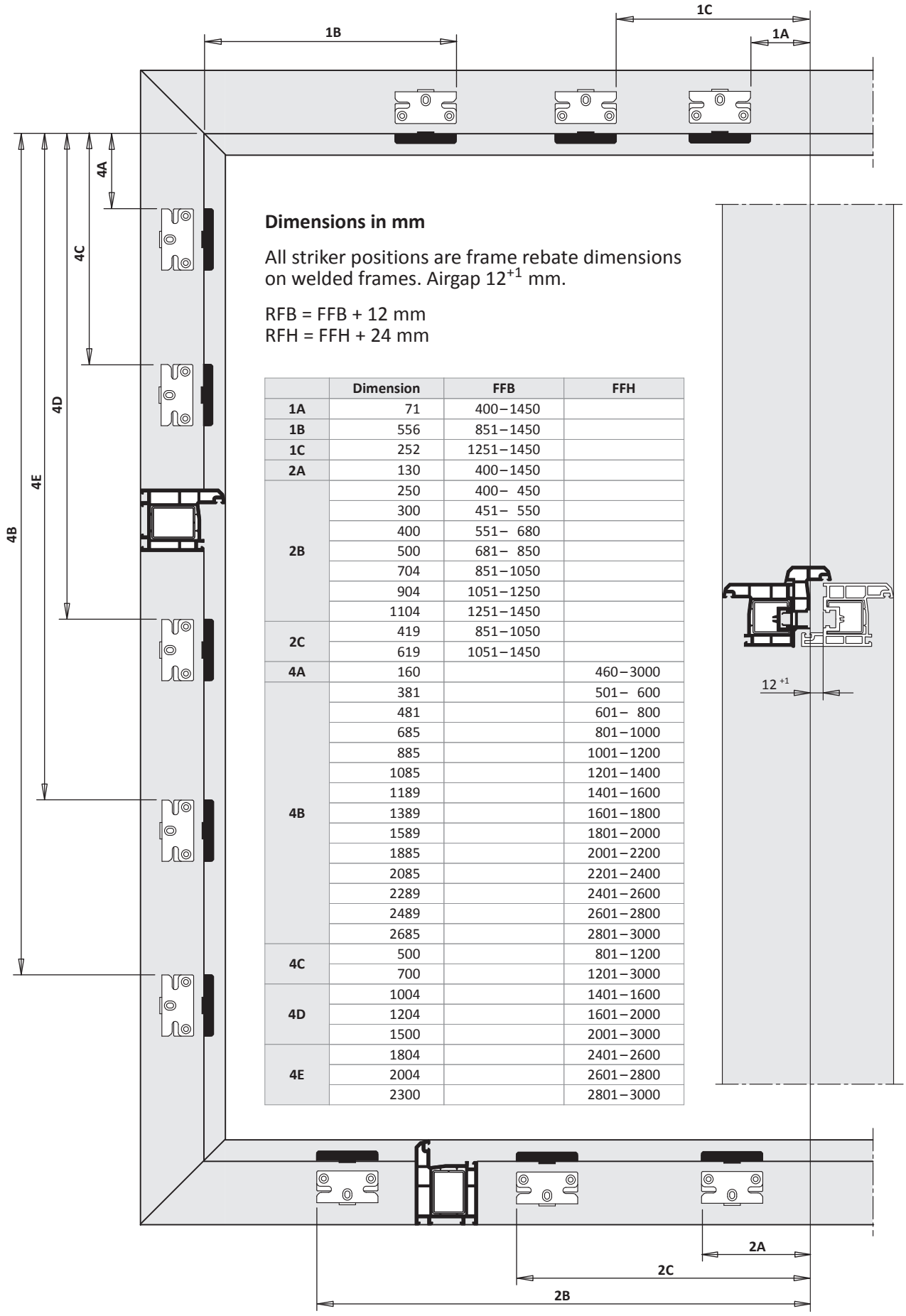
Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
26	stay hinge DH	Ref. PDB, TBWB61			1	1
27	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
28	top hinge 100kg	Ref. PDB, TBSL61			1	
29	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
30	top hinge pin Poly	TBSB6020-1 ...			1	1
31	top hinge 130kg	Ref. PDB, TBSL62				1
32	bottom hinge 100kg	Ref. PDB, TBEL01			1	
33	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
34	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
35	bottom hinge 130kg	Ref. PDB, TBEL02				1
36	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
37	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
38	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





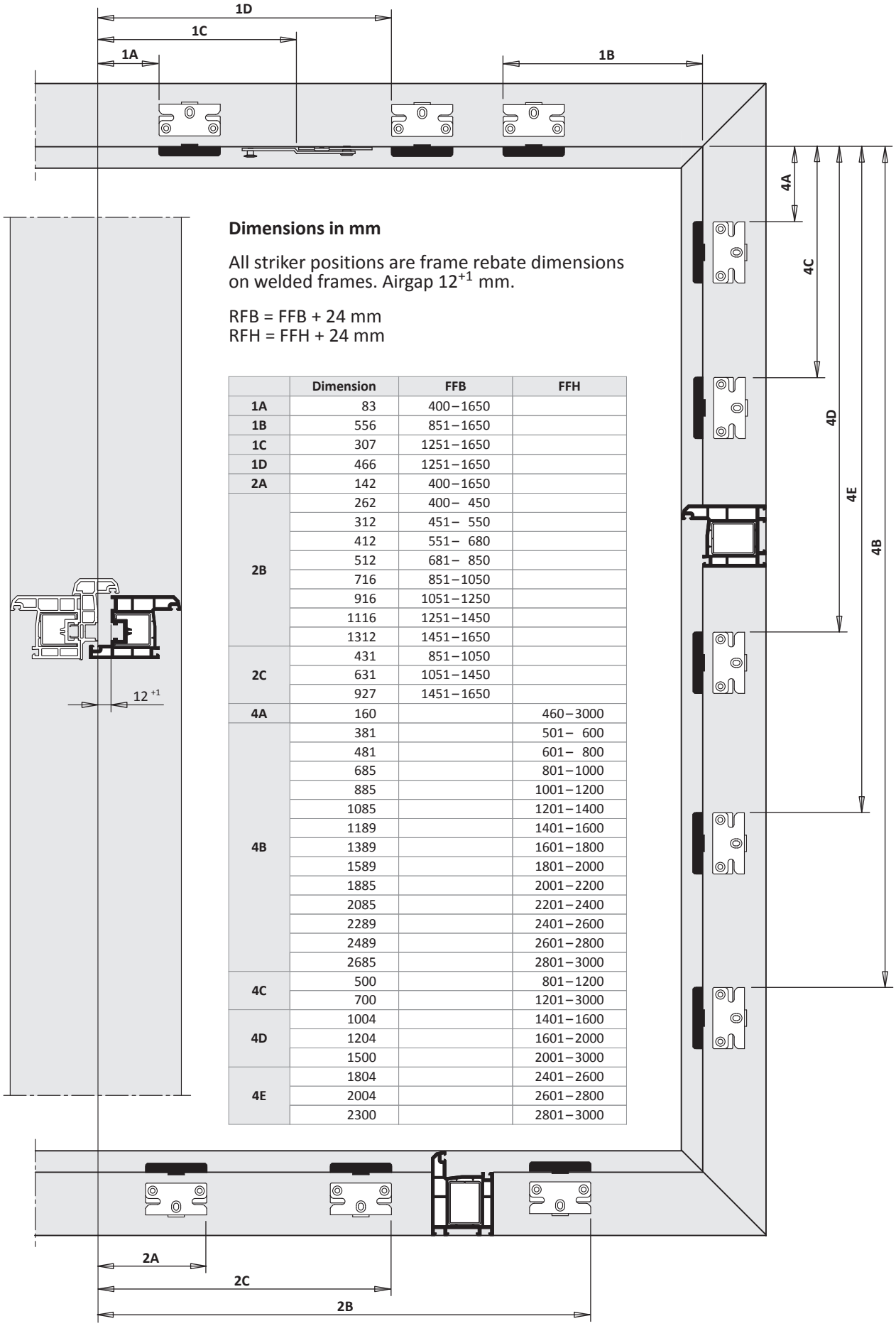


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	130	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1104	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		460–3000
4B	381		501– 600
	481		601– 800
	685		801–1000
	885		1001–1200
	1085		1201–1400
	1189		1401–1600
	1389		1601–1800
	1589		1801–2000
	1885		2001–2200
	2085		2201–2400
	2289		2401–2600
	2489		2601–2800
	2685		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4E	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		460–3000
4B	381		501– 600
	481		601– 800
	685		801–1000
	885		1001–1200
	1085		1201–1400
	1189		1401–1600
	1389		1601–1800
	1589		1801–2000
	1885		2001–2200
	2085		2201–2400
	2289		2401–2600
	2489		2601–2800
	2685		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4E	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions




RC2

1-sash square tilt-turn

PVC

RC2

centre handle pos. (variable)

Hinge side TITAN

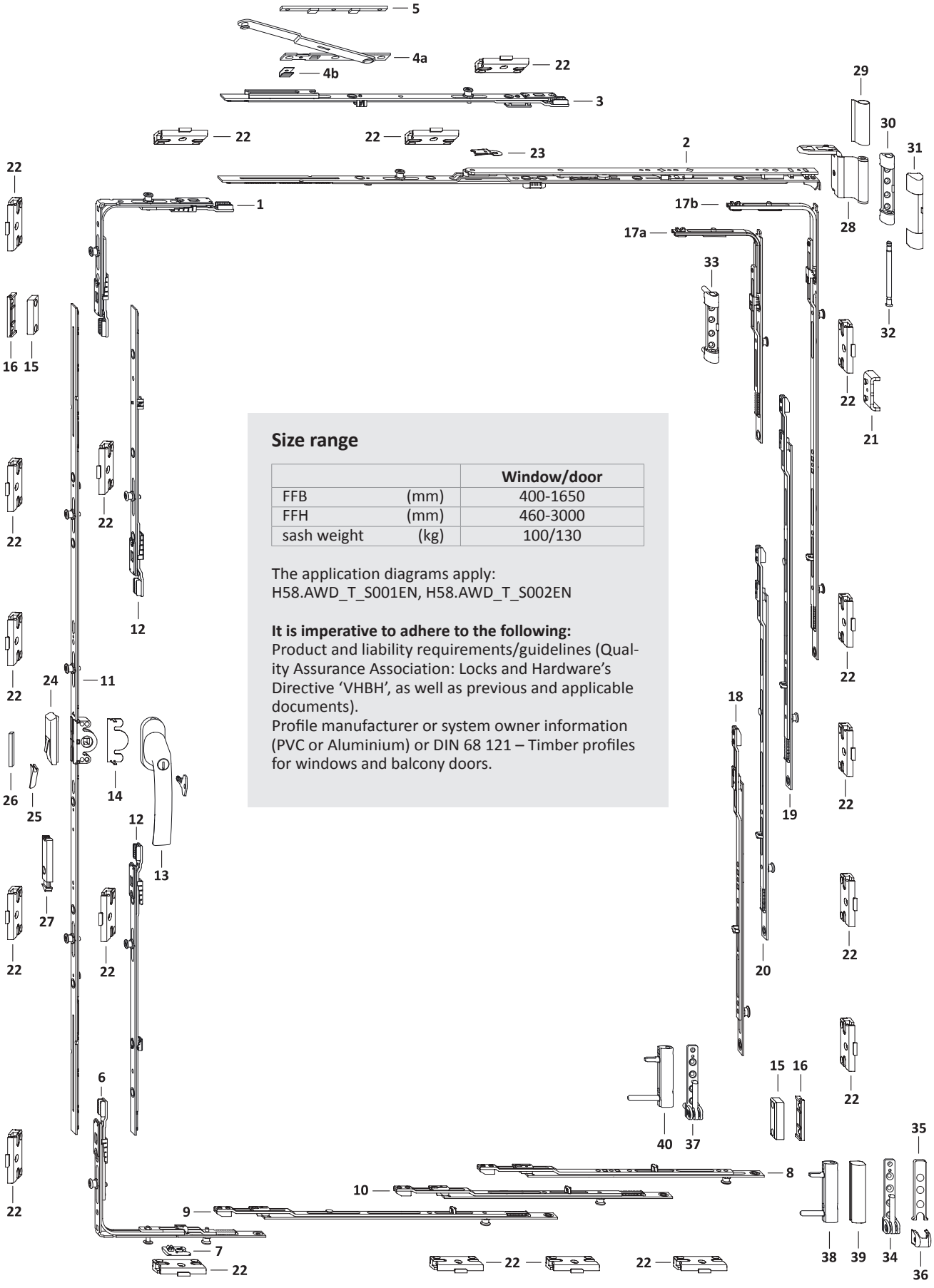
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GM Hinge side TITAN

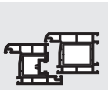


Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	460-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

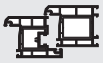



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							22
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	400–1650			2
2	stay AF sz 0	TSKK2000- ...	1	400– 450			
	stay AF sz 1	TSKK2010- ...		451– 680			
	stay AF sz 2	TSKK2020- ...		681– 750			
	stay AF sz 2 1RS	TSKK2120- ...		751– 850			1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250			1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450			1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650			1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650			1
4	additional stay	Ref. PDB, TSZS	1	1251–1650			
5	packer Z	Ref. PDB, FRUP01	1	1251–1650			
6	corn.drive AF VSU/K 56+ 1S 2RS	TEUL5040- ...	1	400–1650			2
7	run up block AF 13 mm 13	TFFH0080- ...	1	400–1650			
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450			1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650			1
10	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650			1
11	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300	
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350	
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400	1
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600	1
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800	1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000	2
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500	3
12	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800		2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000		2
13	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000		
14	anti-drill guard E	TGBS0010- ...	1		460–3000		
15	Air gap limiter	Ref. PDB, FRFL	2		460–3000		
16	packer RB/FPS	Ref. PDB, FRUP02	2		460–3000		
17a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800		1
17b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
18	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600		1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800		1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000		1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1600		1
	extension sz 2+ 1RS	TVSL0320- ...			1801–2000		1
	extension sz 4+ 1RS	TVSL0340- ...			2001–2200		1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400		1
	extension sz 5+ 1RS	TVSL0350- ...			2401–3000		1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000		1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2801–3000		1
21	anti-lift device	Ref. PDB, TFAH	1		460–3000		
22	striker plate S-RS	Ref. PDB, TRSK					
			on request				
23	tilt restrictor ..	TFKB0010- ...	1		460– 800		
24	mishandling device	TFBS0010- ...	1				
25	pressure piece	Ref. PDB, TFFD	1				
26	stop	Ref. PDB, FRZF01	1				
27	snapper rh.	TFST0021- ...	1		1601–3000		
	snapper lh.	TFST0022- ...			1601–3000		

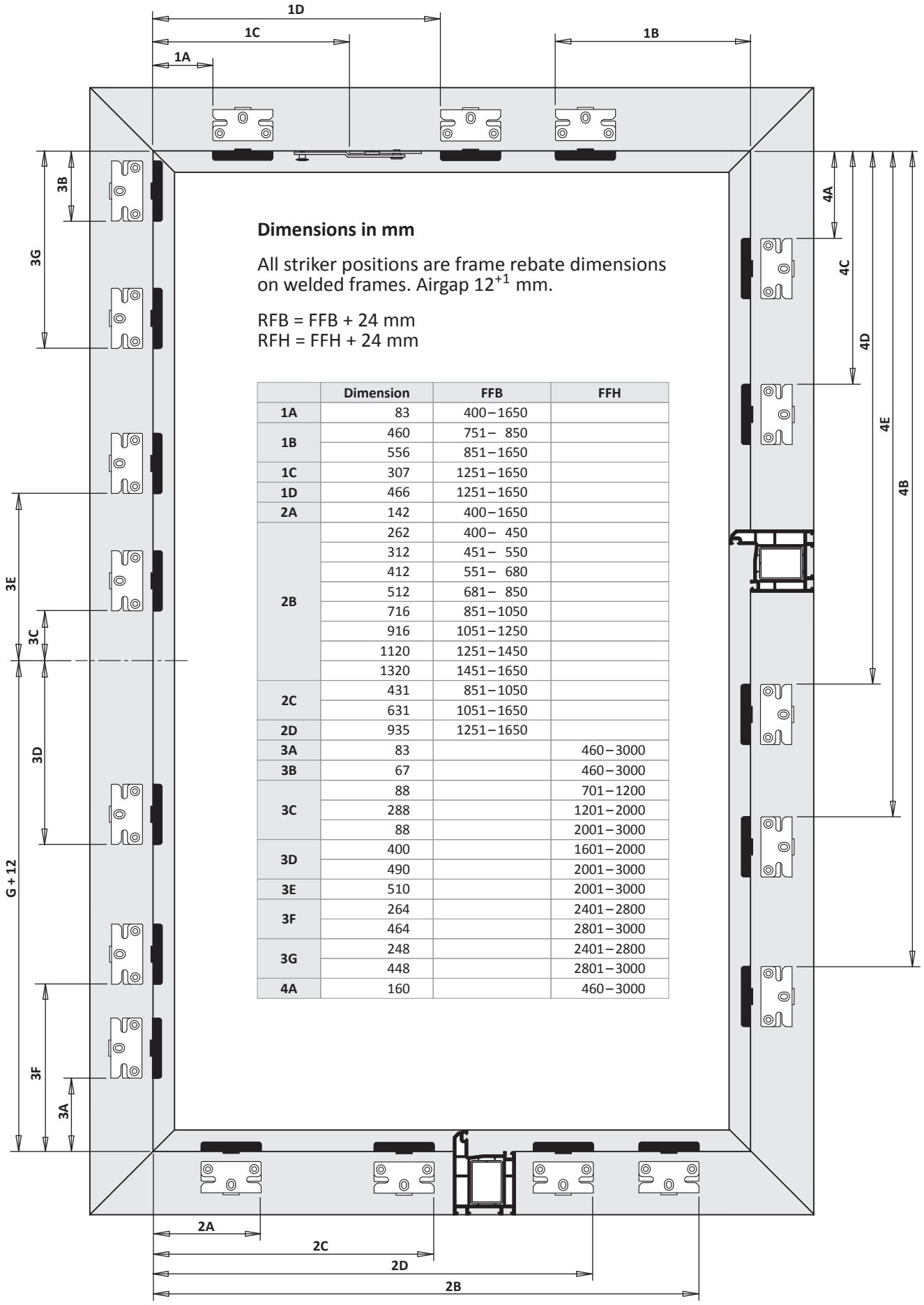
List of fittings

1-sash square tilt-turn
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
28	stay hinge DH	Ref. PDB, TBWB61			1	1
29	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
30	top hinge 100kg	Ref. PDB, TBSL61			1	
31	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
32	top hinge pin Poly	TBSB6020-1 ...			1	1
33	top hinge 130kg	Ref. PDB, TBSL62				1
34	bottom hinge 100kg	Ref. PDB, TBEL01			1	
35	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
36	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
37	bottom hinge 130kg	Ref. PDB, TBEL02				1
38	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
39	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
40	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

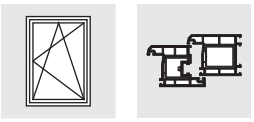
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

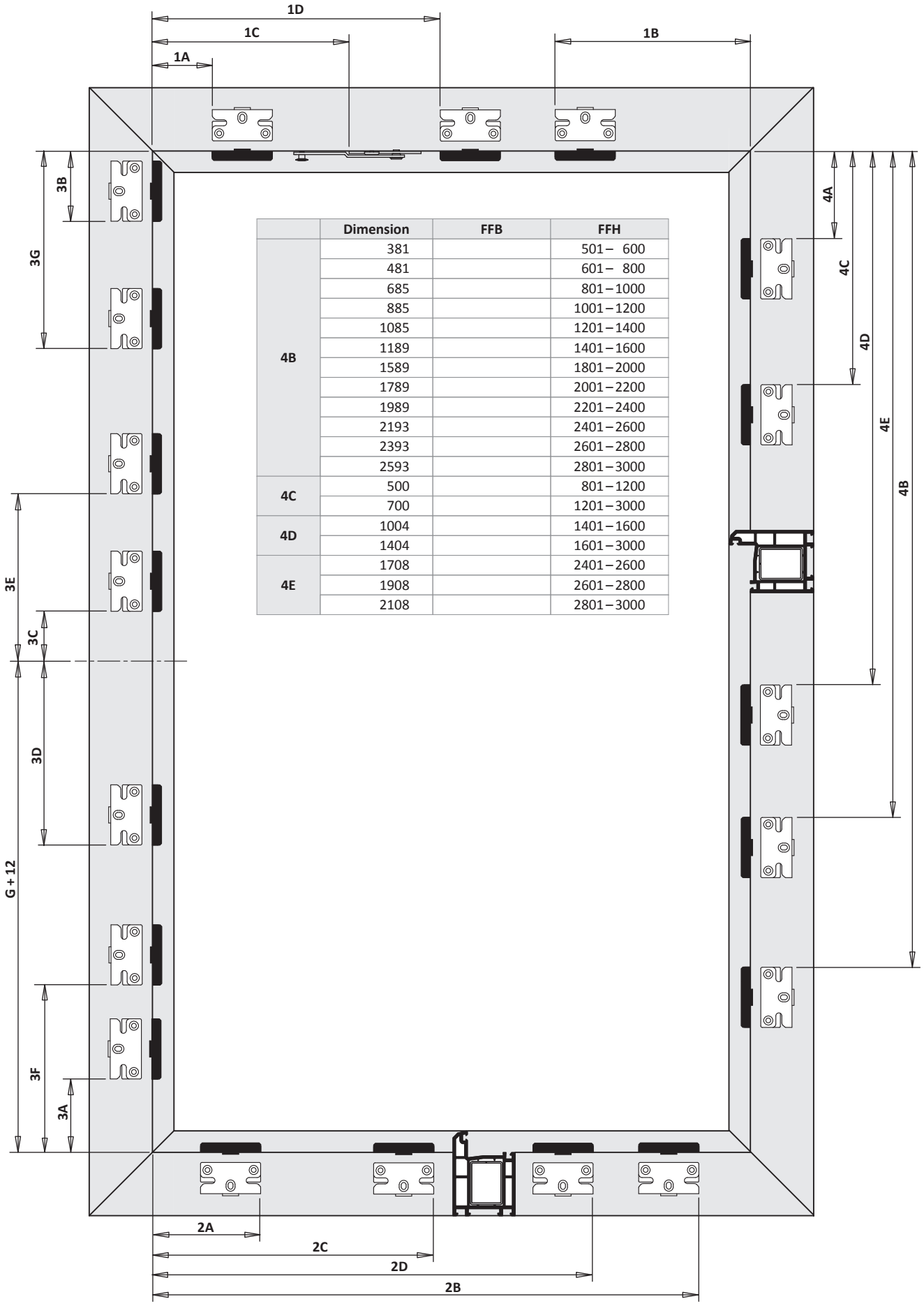
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
3A	83		460–3000
3B	67		460–3000
3C	88		701–1200
	288		1201–2000
	88		2001–3000
3D	400		1601–2000
	490		2001–3000
3E	510		2001–3000
3F	264		2401–2800
	464		2801–3000
3G	248		2401–2800
	448		2801–3000
4A	160		460–3000

Frame dimensions

1-sash square tilt-turn
PVC GM Hinge side TITAN

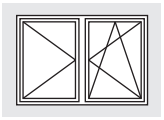


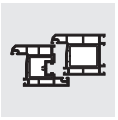


	Dimension	FFB	FFH
4B	381		501 – 600
	481		601 – 800
	685		801 – 1000
	885		1001 – 1200
	1085		1201 – 1400
	1189		1401 – 1600
	1589		1801 – 2000
	1789		2001 – 2200
	1989		2201 – 2400
	2193		2401 – 2600
	2393		2601 – 2800
	2593		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1404		1601 – 3000
4E	1708		2401 – 2600
	1908		2601 – 2800
	2108		2801 – 3000

TITAN AF

Installation instructions





RC2

2-sash square tilt-turn/turn DS 16

PVC

RC2

centre handle pos. (variable)

Hinge side TITAN

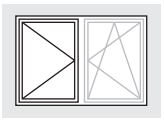
surface TS

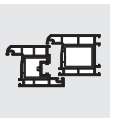
backset 15 mm

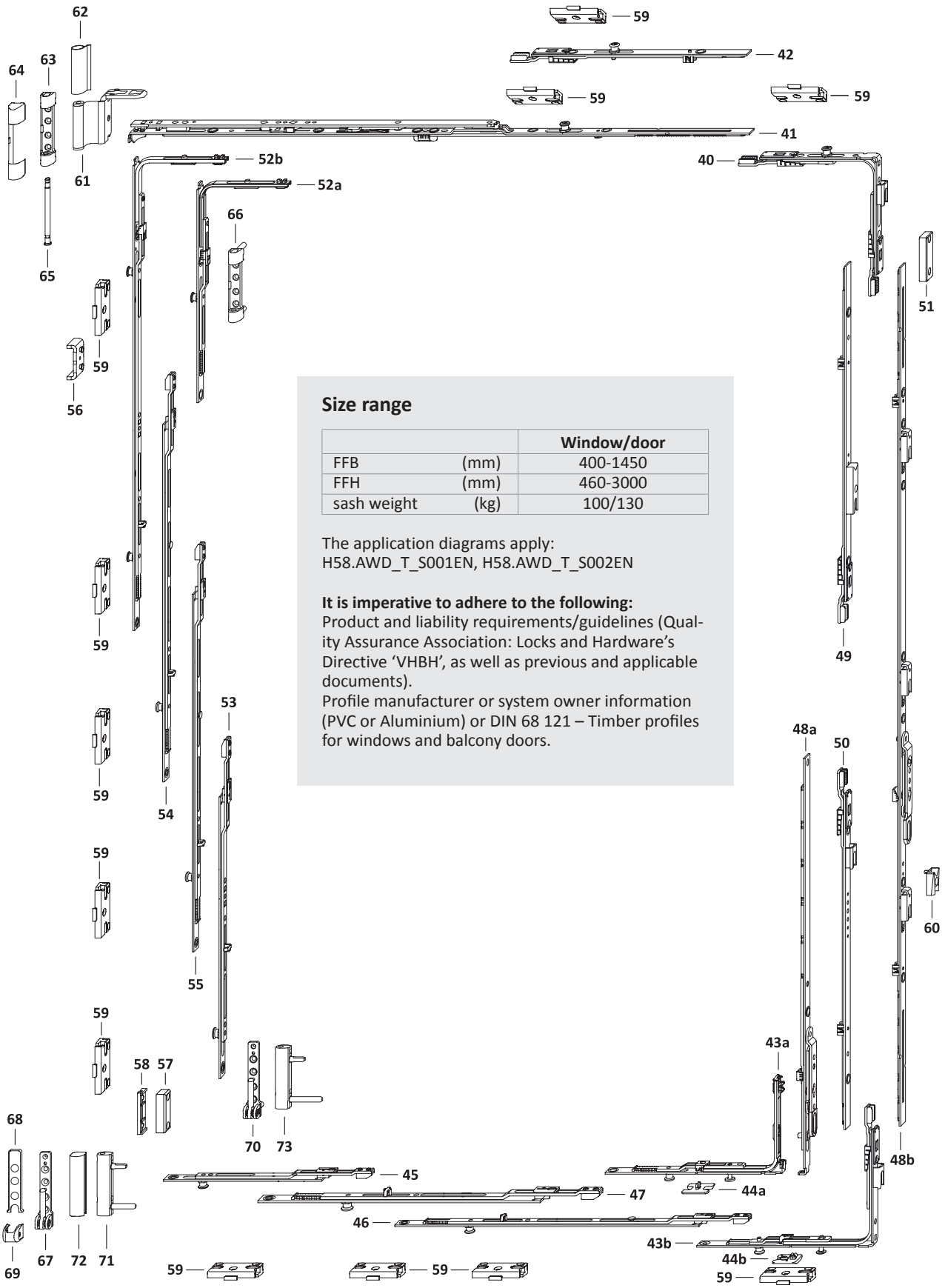
Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





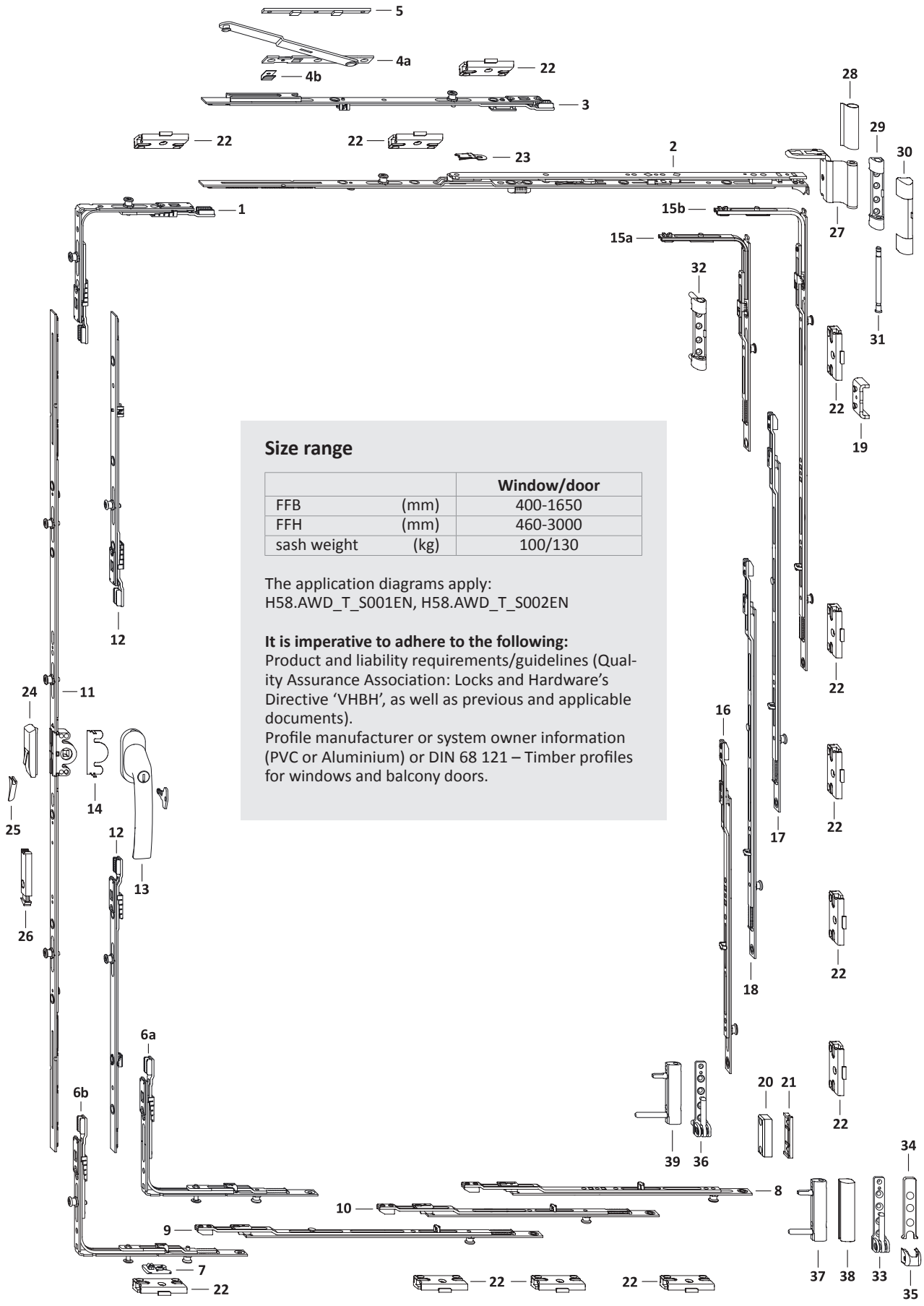


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	460-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

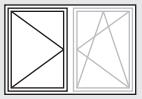
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	460-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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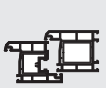
List of fittings slave sash

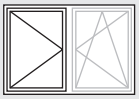
2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
						In the main sash	59
40	corn.drive AF VSO WK2 SB 1RS	TEUL4080- ...	1	400 – 1450			1
41	stay AF sz 0	TSKK2000- ...	1	400 – 450			
	stay AF sz 1	TSKK2010- ...		451 – 680			
	stay AF sz 2 1RS	TSKK2120- ...		681 – 850			1
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1450			1
42	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251 – 1450			1
43a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400 – 1450	460 – 700		1
43b	corn.drive AFVSU/K 56+ SB1S1RS	TEUL5120- ...	1	400 – 1450	701 – 3000		1
44a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400 – 1450	460 – 700		
44b	run up block AF 13 mm 13	TFFH0080- ...	1	400 – 1450	701 – 3000		
45	extension sz 1+ 1RS	TVSO0200- ...	1	400 – 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451 – 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551 – 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681 – 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851 – 1250			1
	extension sz 2+ 1RS	TVSL0320- ...		1251 – 1450			1
46	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450			1
47	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251 – 1450			1
48a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460 – 600	230 – 300	
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601 – 700	300 – 350	
48b	sec.sash gear 16 AF sz 70 1SB	TGMS4030- ...	1		701 – 800	350 – 400	
	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...			801 – 1200	400 – 600	
	sec.sash gear 16 AF 120 2SB 70	TGMS4120- ...			1201 – 1600	600 – 800	
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601 – 2000	800 – 1000	
	sec.sash gear 16 AF 200 3SB 70	TGMS4100- ...			2001 – 3000	1000 – 1500	
49	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401 – 2800		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000		
50	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401 – 2800		
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801 – 3000		
51	air gap limiter F ..	TFFB0010- ...	1		460 – 3000		
52a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460 – 800		1
52b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2
53	extension sz 2+ 1RS	TVSL0320- ...	1		501 – 600		1
	extension sz 3+ 1RS	TVSL0330- ...			601 – 800		1
	extension sz 2+ 1RS	TVSL0320- ...			801 – 1000		1
	extension sz 4+ 1RS	TVSL0340- ...			1001 – 1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401 – 1600		1
	extension sz 2+ 1RS	TVSL0320- ...			1801 – 2000		1
	extension sz 4+ 1RS	TVSL0340- ...			2001 – 2200		1
	extension sz 6+ 1RS	TVSL0360- ...			2201 – 2400		1
	extension sz 5+ 1RS	TVSL0350- ...			2401 – 3000		1
54	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601 – 3000		1
55	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2801 – 3000		1
56	anti-lift device	Ref. PDB, TFAH	1		460 – 3000		
57	Air gap limiter	Ref. PDB, FRFL	1		460 – 3000		
58	packer RB/FPS	Ref. PDB, FRUP02	1		460 – 3000		
59	striker plate S-RS	Ref. PDB, TRSK					
on request							
60	striker snapper AF A0767	TRST0100- ...	1		1601 – 3000		

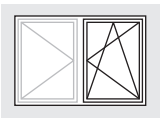


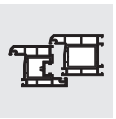


Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
61	stay hinge DH	Ref. PDB, TBWB61			1	1
62	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
63	top hinge 100kg	Ref. PDB, TBSL61			1	
64	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
65	top hinge pin Poly	TBSB6020-1 ...			1	1
66	top hinge 130kg	Ref. PDB, TBSL62				1
67	bottom hinge 100kg	Ref. PDB, TBEL01			1	
68	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
69	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
70	bottom hinge 130kg	Ref. PDB, TBEL02				1
71	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
72	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
73	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN



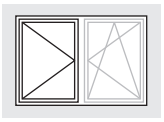


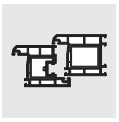
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							22
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	400–1650			1
2	stay AF sz 0	TSKK2000- ...	1	400– 450			
	stay AF sz 1	TSKK2010- ...		451– 680			
	stay AF sz 2 1RS	TSKK2120- ...		681– 850			1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250			1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450			1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650			1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650			1
4	additional stay	Ref. PDB, TSZS	1	1251–1650			
5	packer Z	Ref. PDB, FRUP01	1	1251–1650			
6a	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1650	460– 700		1
6b	corn.drive AF VSU/K 56+ 1S 2RS	TEUL5040- ...	1	400–1650	701–3000		1
7	run up block AF 13 mm 13	TFFH0080- ...	1	400–1650			
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450			1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650			1
10	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650			1
11	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300	
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350	
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400	
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600	
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800	
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000	
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500	
12	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000		
13	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000		
14	anti-drill guard E	TGBS0010- ...	1		460–3000		
15a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800		1
15b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
16	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600		1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800		1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000		1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1600		1
	extension sz 2+ 1RS	TVSL0320- ...			1801–2000		1
	extension sz 4+ 1RS	TVSL0340- ...			2001–2200		1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400		1
	extension sz 5+ 1RS	TVSL0350- ...			2401–3000		1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000		1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2801–3000		1
19	anti-lift device	Ref. PDB, TFAH	1		460–3000		
20	Air gap limiter	Ref. PDB, FRFL	1		460–3000		
21	packer RB/FPS	Ref. PDB, FRUP02	1		460–3000		
22	striker plate S-RS	Ref. PDB, TRSK					
			on request				
23	tilt restrictor ..	TFKB0010- ...	1		460– 800		
24	mishandling device	TFBS0010- ...	1		601–3000		
25	pressure piece	Ref. PDB, TFFD	1		601–3000		
26	snapper rh.	TFST0021- ...	1		1601–3000		
	snapper lh.	TFST0022- ...			1601–3000		

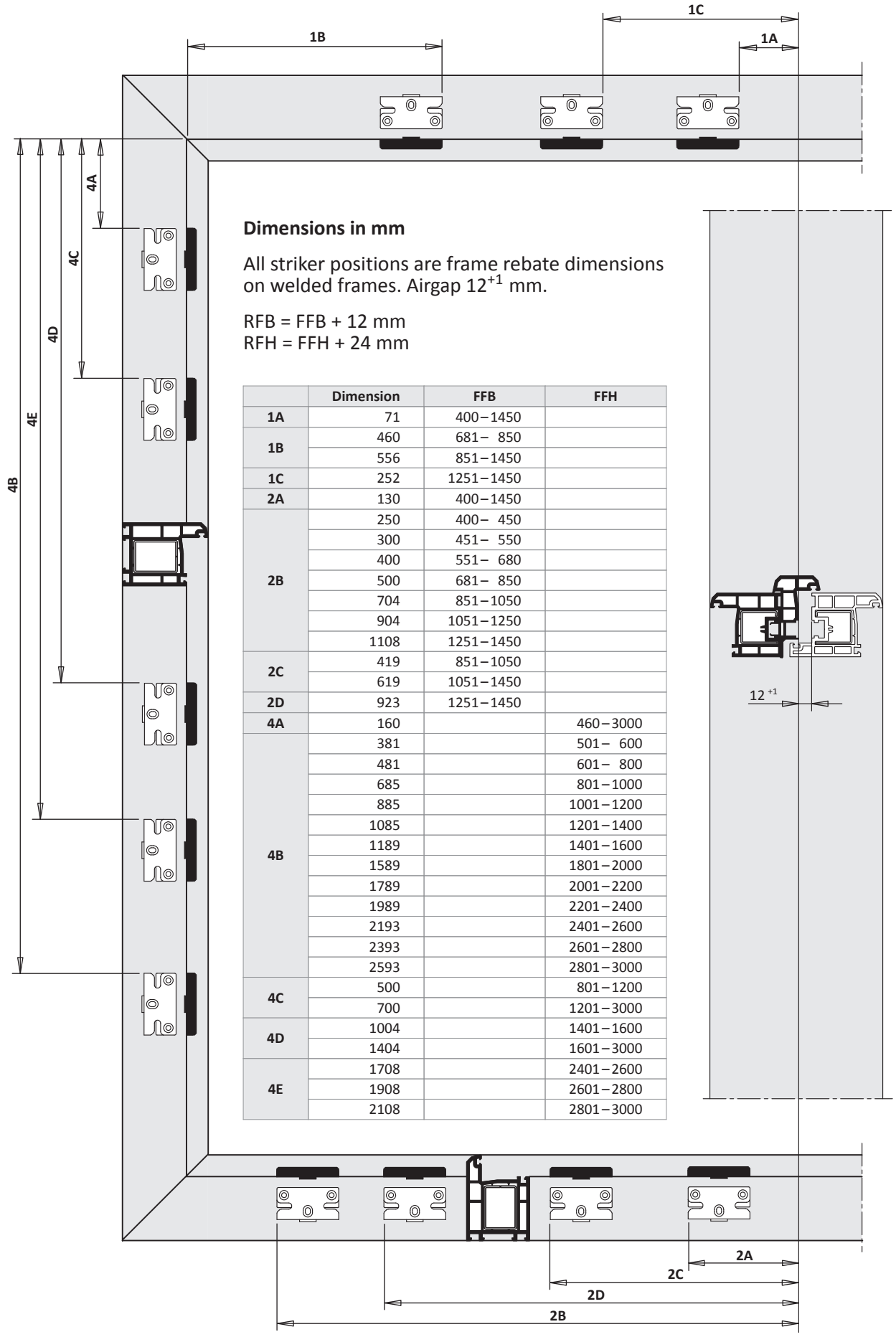
Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
27	stay hinge DH	Ref. PDB, TBWB61			1	1
28	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
29	top hinge 100kg	Ref. PDB, TBSL61			1	
30	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
31	top hinge pin Poly	TBSB6020-1 ...			1	1
32	top hinge 130kg	Ref. PDB, TBSL62				1
33	bottom hinge 100kg	Ref. PDB, TBEL01			1	
34	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
35	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
36	bottom hinge 130kg	Ref. PDB, TBEL02				1
37	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
38	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
39	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





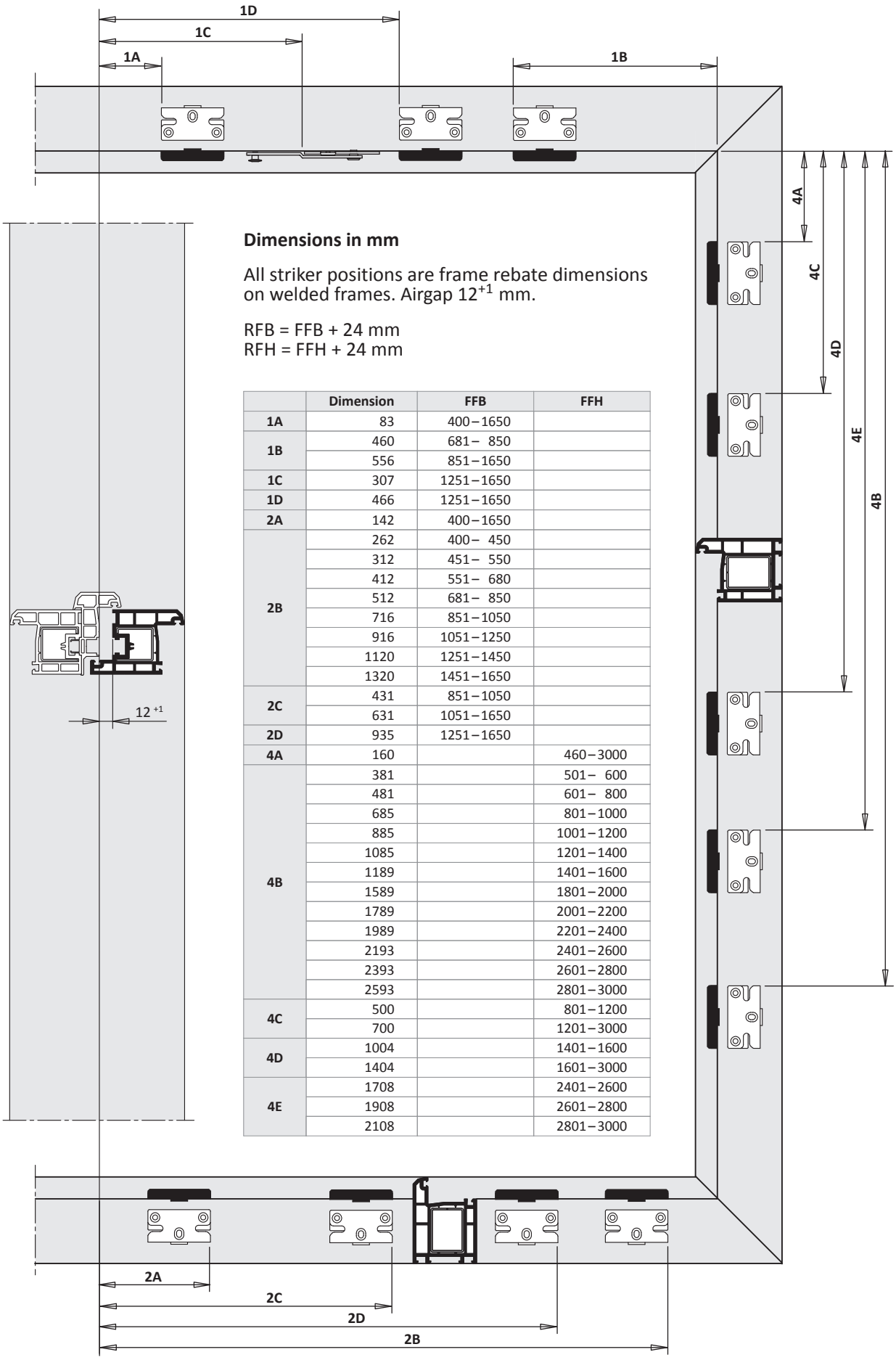


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	460	681– 850	
	556	851–1450	
1C	252	1251–1450	
2A	130	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1108	1251–1450	
2C	419	851–1050	
	619	1051–1450	
2D	923	1251–1450	
4A	160		460–3000
4B	381		501– 600
	481		601– 800
	685		801–1000
	885		1001–1200
	1085		1201–1400
	1189		1401–1600
	1589		1801–2000
	1789		2001–2200
	1989		2201–2400
	2193		2401–2600
	2393		2601–2800
	2593		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1404		1601–3000
4E	1708		2401–2600
	1908		2601–2800
	2108		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400 – 1650	
1B	460	681 – 850	
	556	851 – 1650	
1C	307	1251 – 1650	
1D	466	1251 – 1650	
2A	142	400 – 1650	
2B	262	400 – 450	
	312	451 – 550	
	412	551 – 680	
	512	681 – 850	
	716	851 – 1050	
	916	1051 – 1250	
	1120	1251 – 1450	
	1320	1451 – 1650	
2C	431	851 – 1050	
	631	1051 – 1650	
2D	935	1251 – 1650	
4A	160		460 – 3000
4B	381		501 – 600
	481		601 – 800
	685		801 – 1000
	885		1001 – 1200
	1085		1201 – 1400
	1189		1401 – 1600
	1589		1801 – 2000
	1789		2001 – 2200
	1989		2201 – 2400
	2193		2401 – 2600
	2393		2601 – 2800
	2593		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1404		1601 – 3000
4E	1708		2401 – 2600
	1908		2601 – 2800
	2108		2801 – 3000

Bottom: Inliner

1-sash square tilt-turn	H48.TAFKFK2S001EN	8 - 3
2-sash square tilt-turn/turn DS 16	H48.TAFKFK2S002EN	8 - 9
2-sash square tilt-turn/turn DS BAN	H48.TAFKFK2S013EN	8 - 19
Tilt before turn (TBT)		
1-sash square tilt before turn (TBT)	H48.TAFKFK2S005EN	8 - 29
Locking-points distance 700		
1-sash square tilt-turn	H48.TAFKFK2S301EN	8 - 35
2-sash square tilt-turn/turn DS 16	H48.TAFKFK2S302EN	8 - 41

Bottom: Double cam SB R-RS

1-sash square tilt-turn	H48.TAFKFK2S401EN	8 - 51
2-sash square tilt-turn/turn DS 16	H48.TAFKFK2S402EN	8 - 57
Locking-points distance 700		
1-sash square tilt-turn	H48.TAFKFK2S305EN	8 - 67
2-sash square tilt-turn/turn DS 16	H48.TAFKFK2S306EN	8 - 73

TITAN AF

Installation instructions





RC2
ECO

1-sash square tilt-turn

PVC

RC2 ECO

fixed handle position

Hinge side TITAN

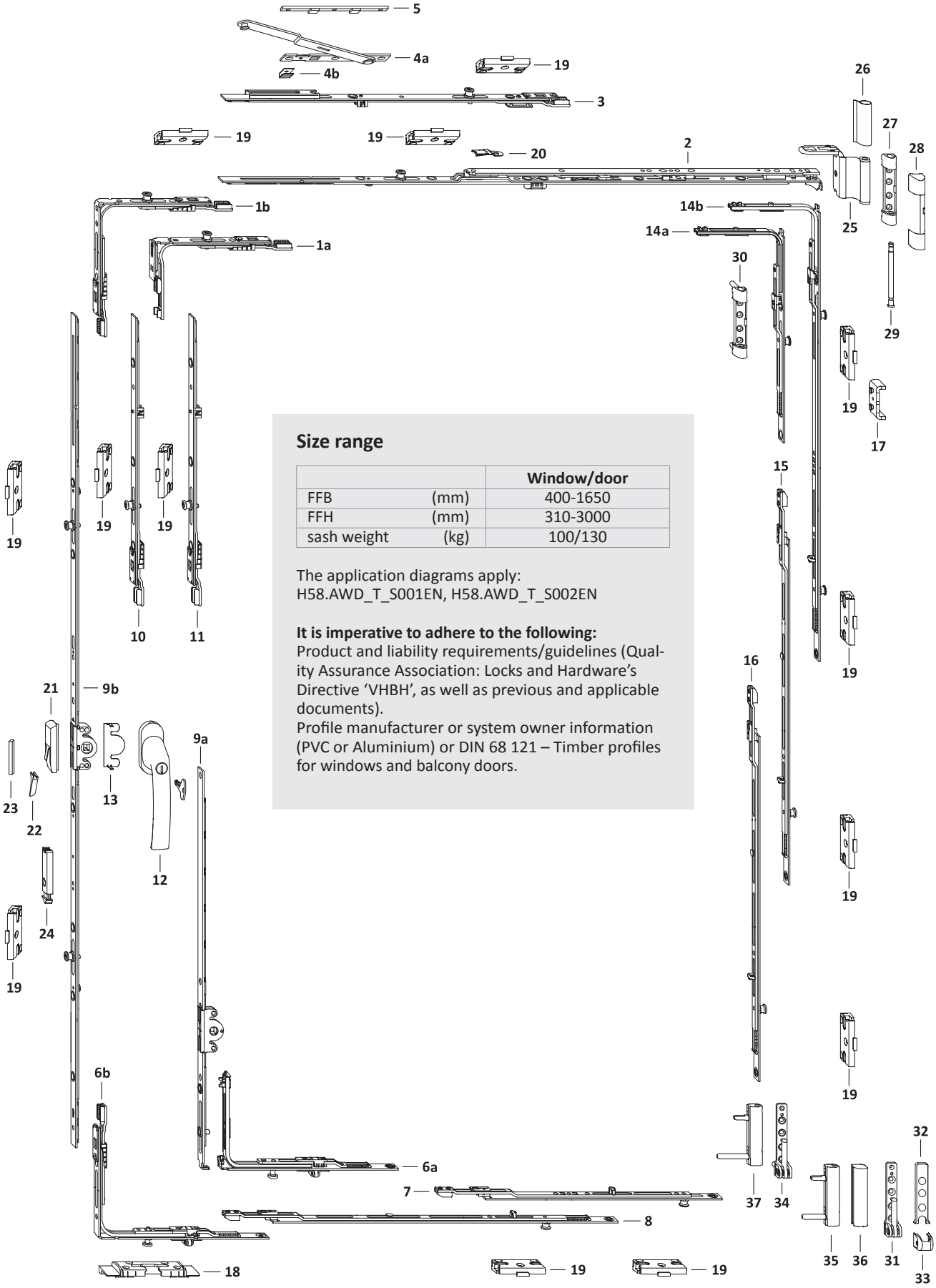
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GK Hinge side TITAN



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

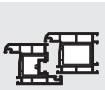
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							18	19
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	411–3000			1
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	411– 600		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 410		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	601–3000		1	
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
9a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180		
9b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		2
10	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			1
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
11	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000			
13	anti-drill guard E	TGBS0010- ...	1		310–3000			
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
17	anti-lift device	Ref. PDB, TFAH	1		310–3000			
18	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
19	striker plate S-RS	Ref. PDB, TRSK						
on request								
20	tilt restrictor ..	TFKB0010- ...	1		310– 800			
21	mishandling device	TFBS0010- ...	1					
22	pressure piece	Ref. PDB, TFFD	1					
23	stop	Ref. PDB, FRZF01	1					
24	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

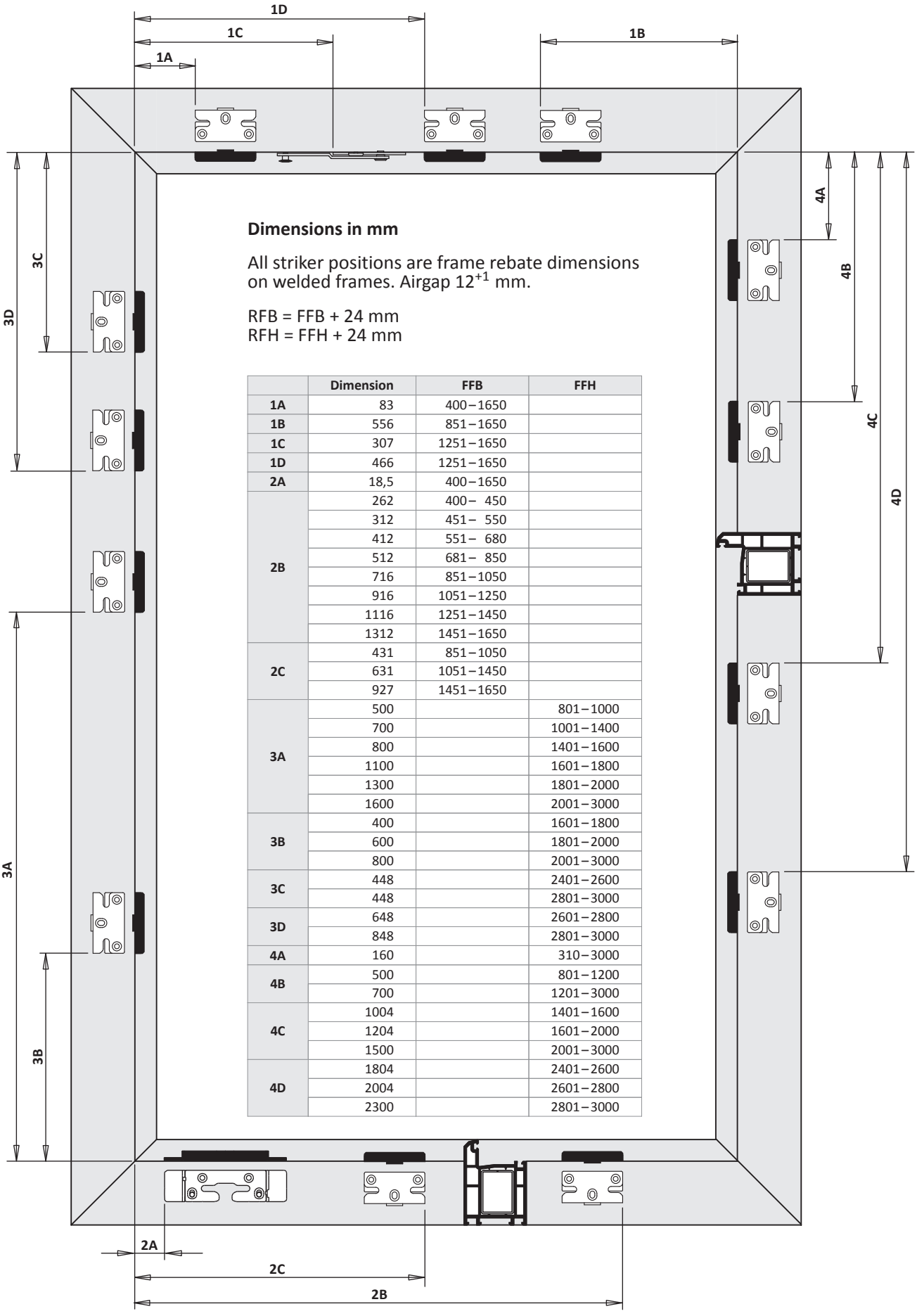
List of fittings

1-sash square tilt-turn
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
25	stay hinge DH	Ref. PDB, TBWB61			1	1
26	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
27	top hinge 100kg	Ref. PDB, TBSL61			1	
28	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
29	top hinge pin Poly	TBSB6020-1 ...			1	1
30	top hinge 130kg	Ref. PDB, TBSL62				1
31	bottom hinge 100kg	Ref. PDB, TBEL01			1	
32	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
33	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
34	bottom hinge 130kg	Ref. PDB, TBEL02				1
35	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
36	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
37	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

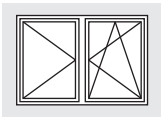
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3B	400		1601–1800
	600		1801–2000
	800		2001–3000
3C	448		2401–2600
	448		2801–3000
3D	648		2601–2800
	848		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



RC2
ECO

2-sash square tilt-turn/turn DS 16

PVC

RC2 ECO

fixed handle position

Hinge side TITAN

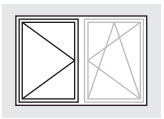
surface TS

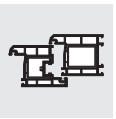
backset 15 mm

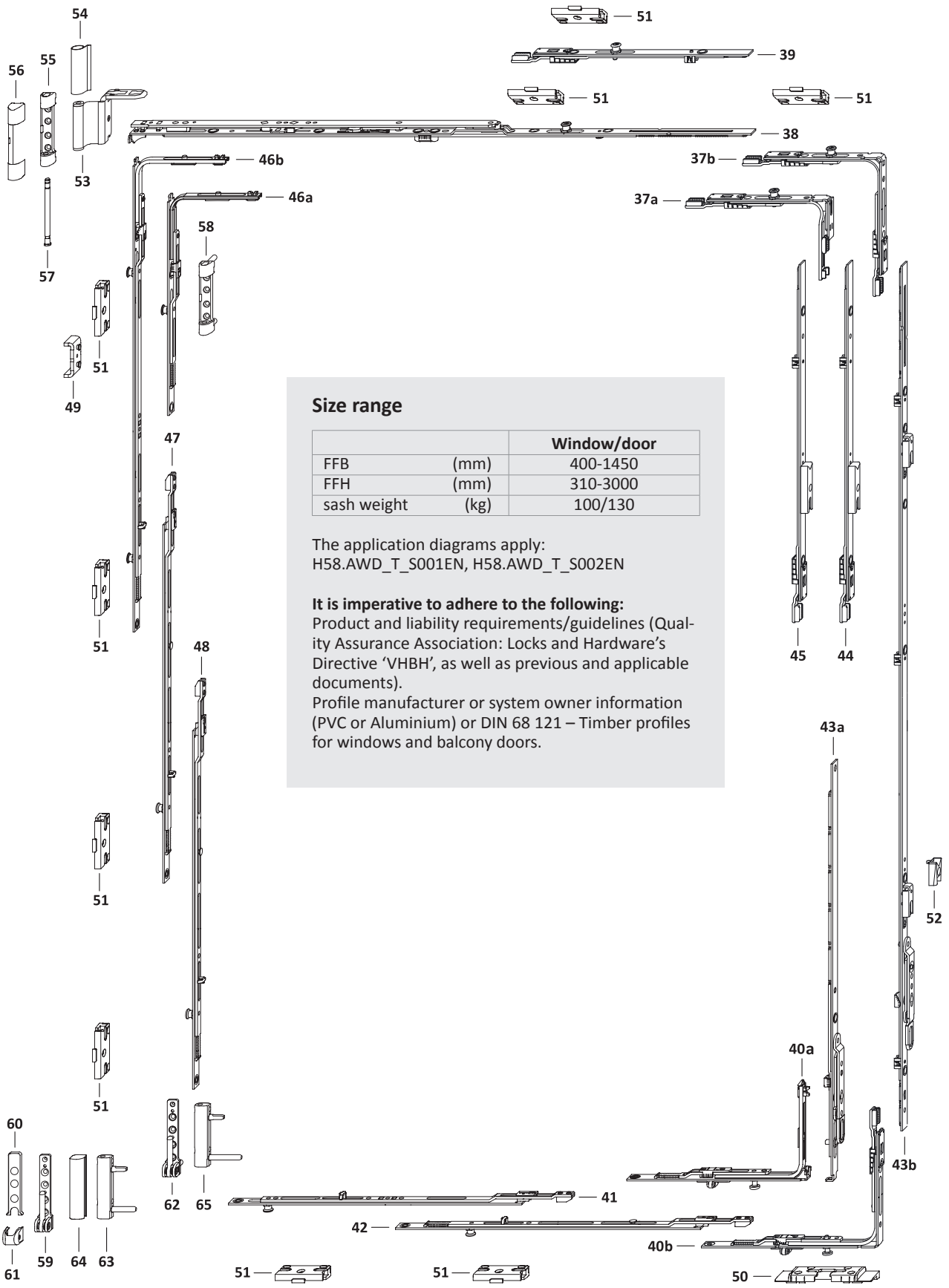
Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





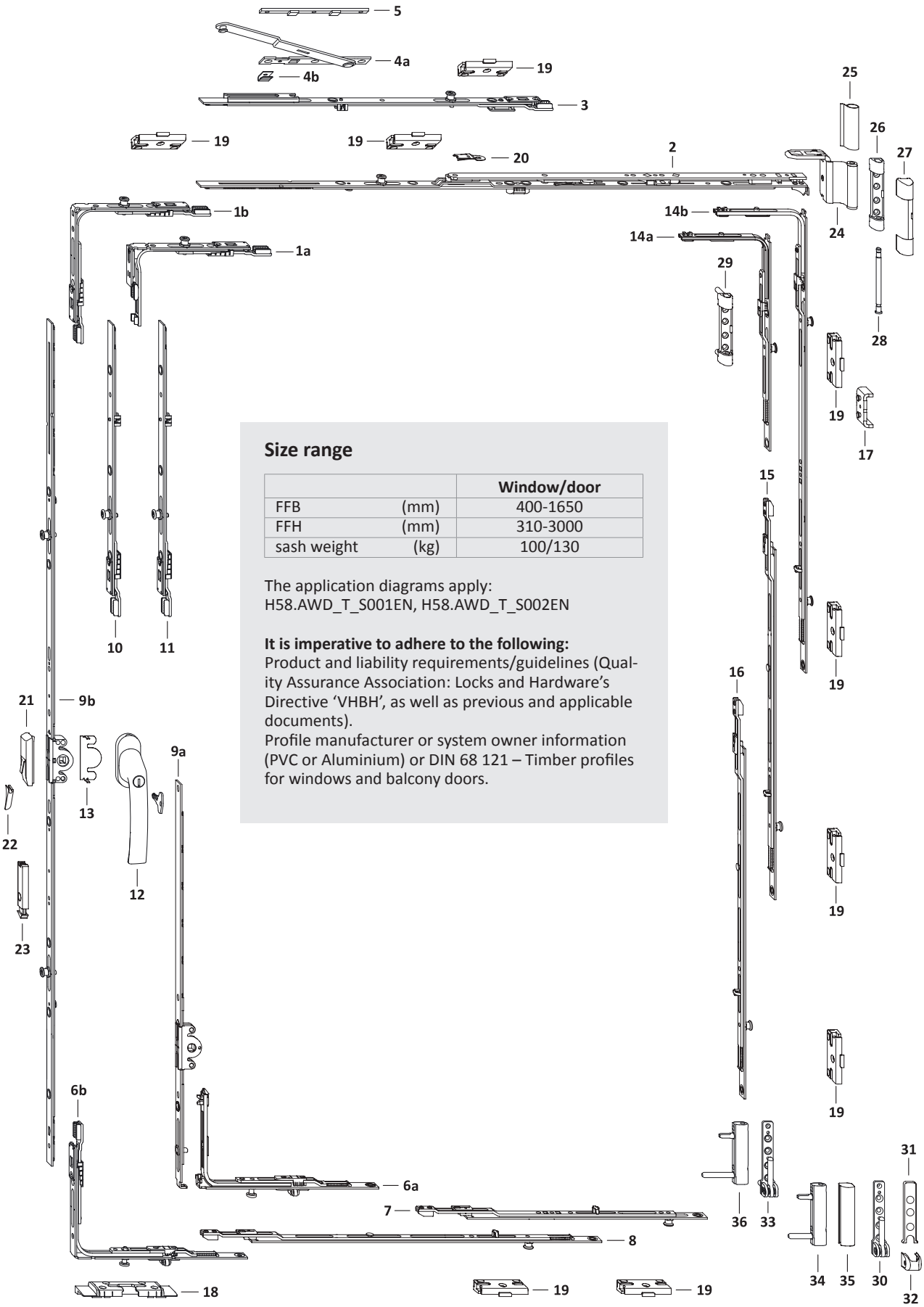


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

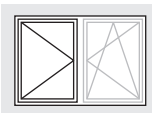
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

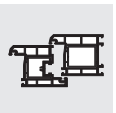
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8

List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



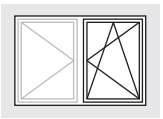


Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	50	51
37a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1
37b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1450	411–3000			1
38	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1
39	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
40a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1450	411– 800		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 410		1	
40b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1450	801–3000		1	
41	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
43a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400– 850	310– 410	180		
	sec.sash gear 16 sz 30	TGKS0010- ...		400–1250	411– 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300		
43b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600		
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000		
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000		
44	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
45	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
46a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1
46b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
47	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
48	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
49	anti-lift device	Ref. PDB, TFAH	1		310–3000			
50	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
51	striker plate S-RS	Ref. PDB, TRSK						
on request								
52	striker snapper AF A0767	TRST0100- ...	1		1801–3000			

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
53	stay hinge DH	Ref. PDB, TBWB61			1	1
54	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
55	top hinge 100kg	Ref. PDB, TBSL61			1	
56	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
57	top hinge pin Poly	TBSB6020-1 ...			1	1
58	top hinge 130kg	Ref. PDB, TBSL62				1
59	bottom hinge 100kg	Ref. PDB, TBEL01			1	
60	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
61	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
62	bottom hinge 130kg	Ref. PDB, TBEL02				1
63	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
64	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
65	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



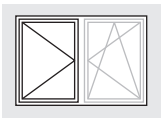


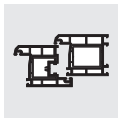
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							18	19
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	411–3000			1
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	411– 600		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 410		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	601–3000		1	
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
9a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180		
9b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		
10	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
11	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000			
13	anti-drill guard E	TGBS0010- ...	1		310–3000			
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
17	anti-lift device	Ref. PDB, TFAH	1		310–3000			
18	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
19	striker plate S-RS	Ref. PDB, TRSK						
on request								
20	tilt restrictor ..	TFKB0010- ...	1		310– 800			
21	mishandling device	TFBS0010- ...	1		601–3000			
22	pressure piece	Ref. PDB, TFFD	1		601–3000			
23	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

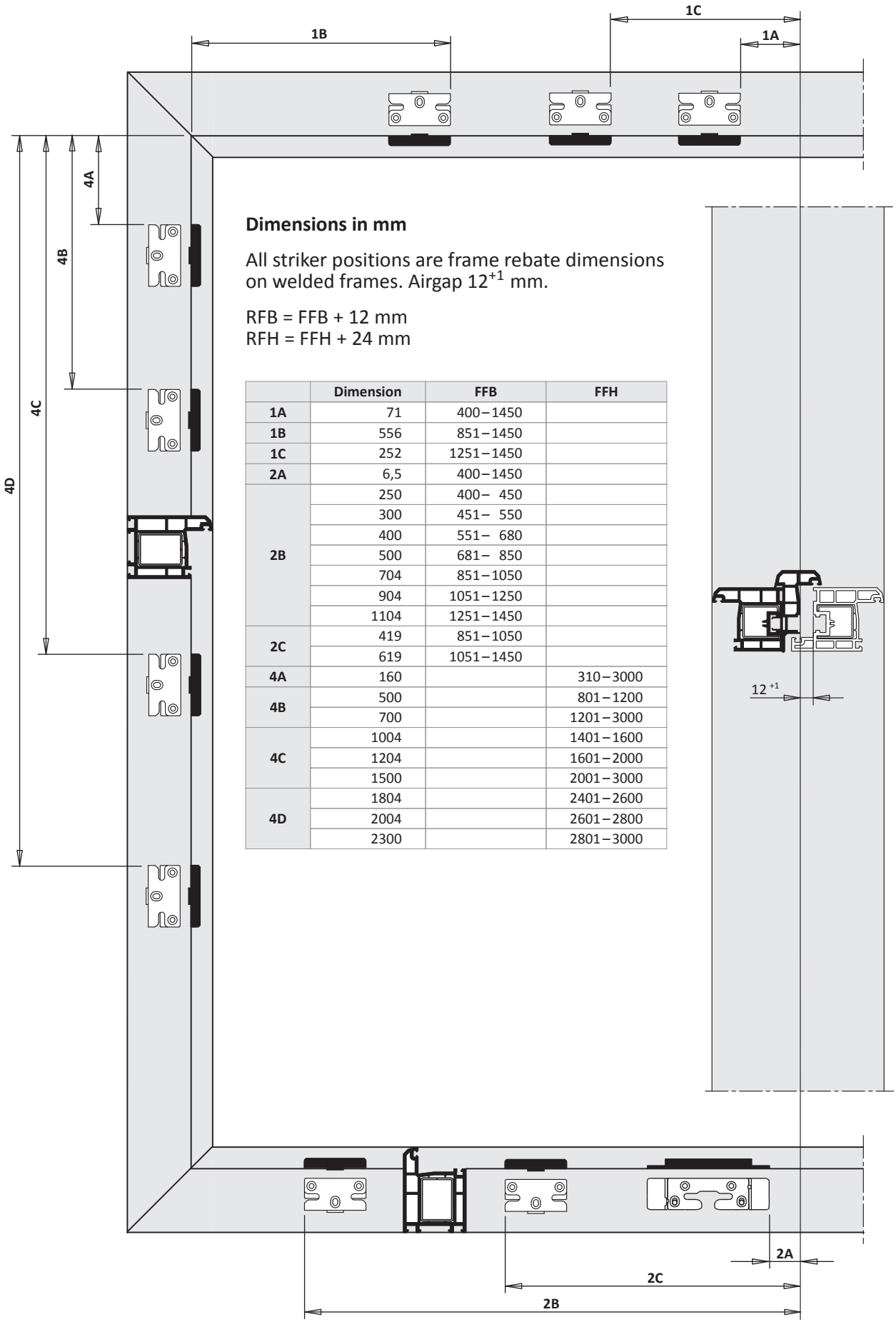
Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
24	stay hinge DH	Ref. PDB, TBWB61			1	1
25	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
26	top hinge 100kg	Ref. PDB, TBSL61			1	
27	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
28	top hinge pin Poly	TBSB6020-1 ...			1	1
29	top hinge 130kg	Ref. PDB, TBSL62				1
30	bottom hinge 100kg	Ref. PDB, TBEL01			1	
31	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
32	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
33	bottom hinge 130kg	Ref. PDB, TBEL02				1
34	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
35	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
36	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





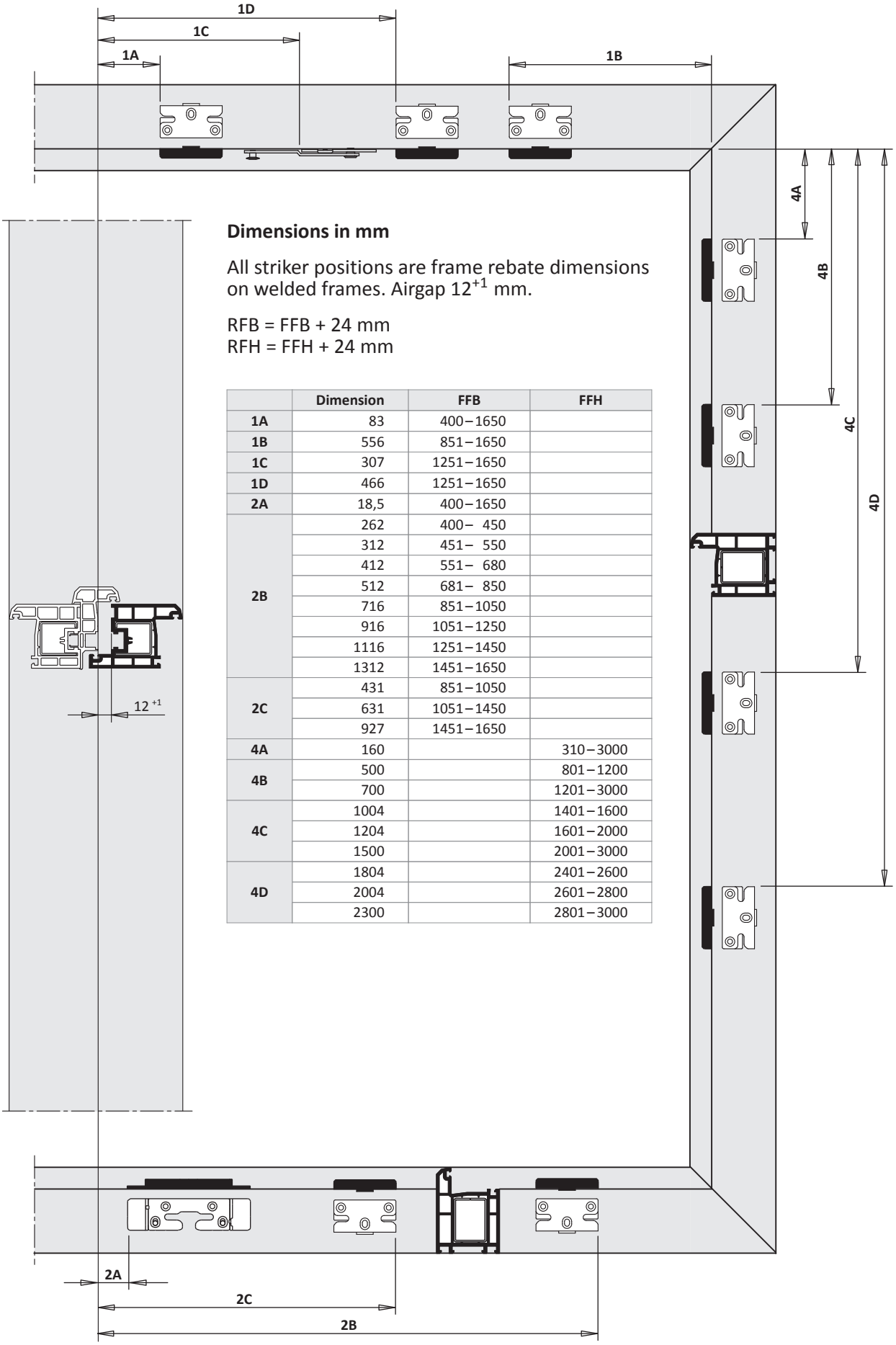


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	6,5	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1104	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

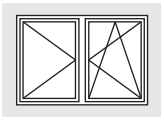
RFB = FFB + 24 mm
RFH = FFH + 24 mm

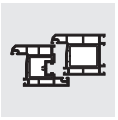
	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

8

TITAN AF

Installation instructions





RC2
ECO

2-sash square tilt-turn/turn DS 16 fitting groove

PVC

RC2 ECO

fixed handle position

Hinge side TITAN

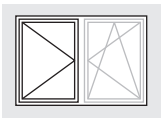
surface TS

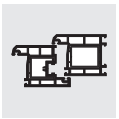
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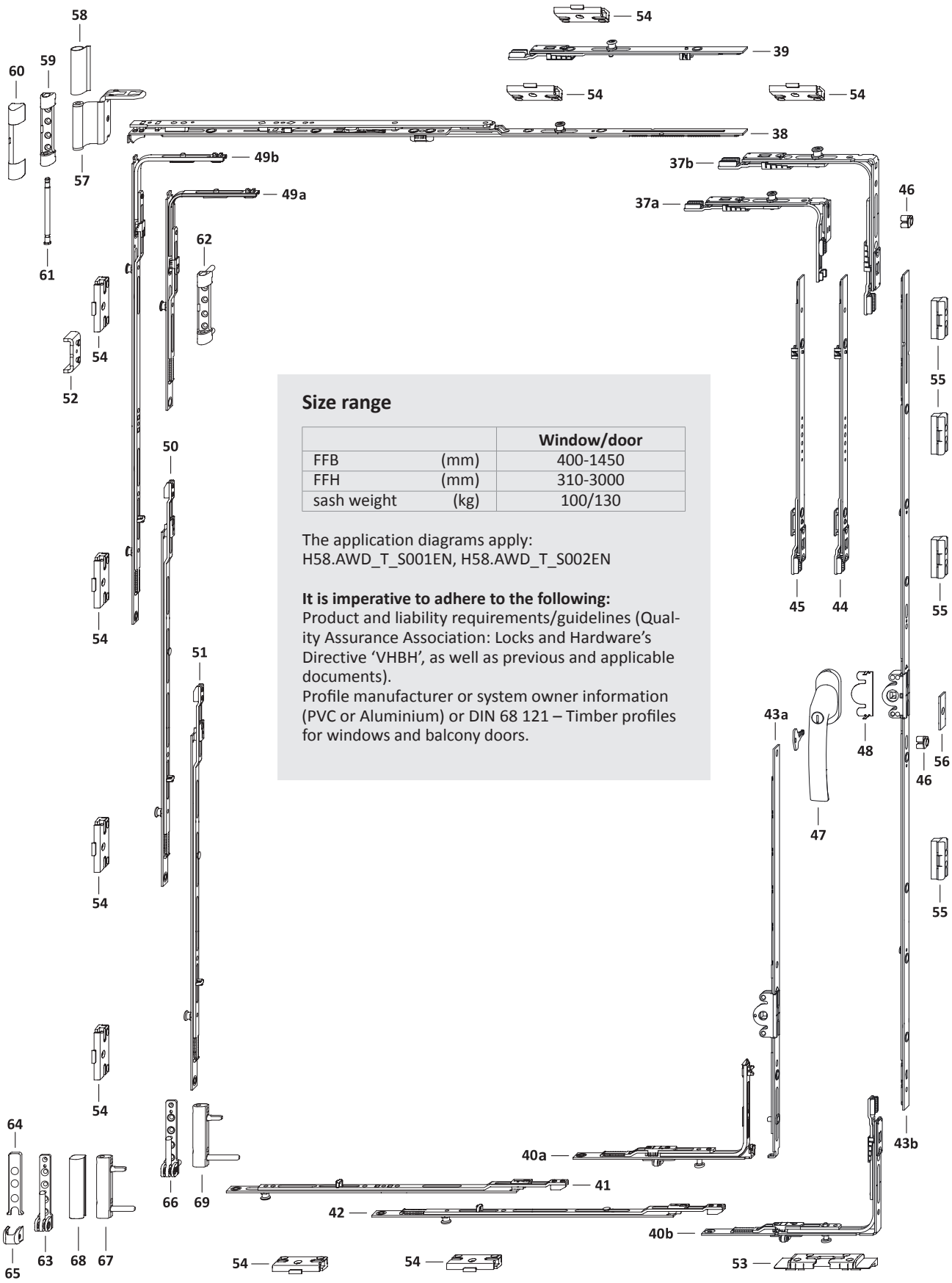
Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GK Hinge side TITAN





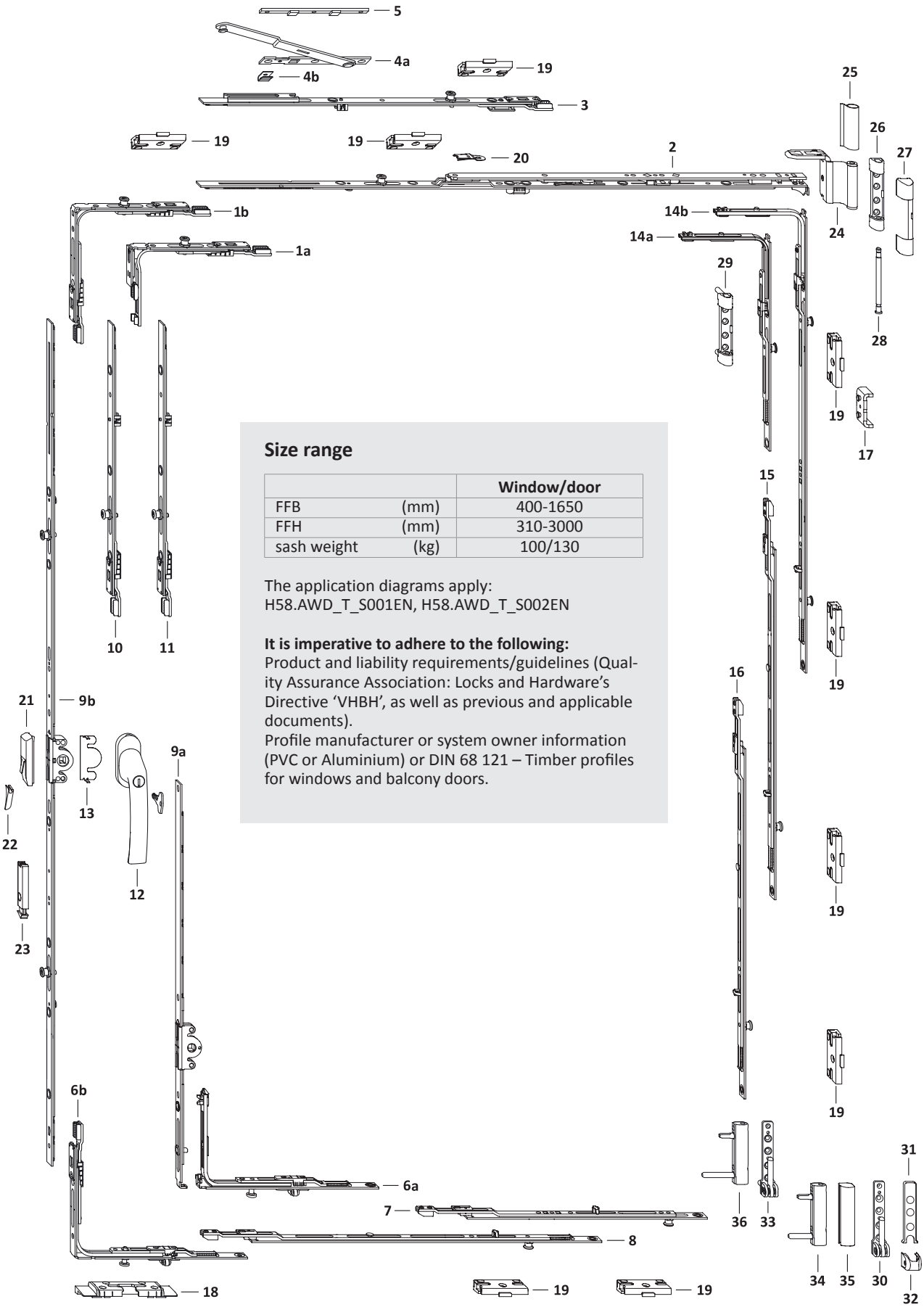


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

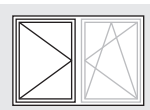
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

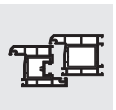
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Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

8

List of fittings slave sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GK Hinge side TITAN



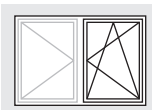


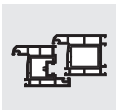
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	53	54	55
37a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1	
37b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1450	411–3000			1	
38	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 850					
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1	
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1	
39	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1	
40a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	411– 600		1		
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 410		1		
40b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1450	601–3000		1		
41	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1	
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1	
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1	
43a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180			
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180			
43b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300			
	gear 15 AF OZ sz 80/G400	TGKK9100- ...			801–1000	400			1
	gear 15 AF OZ sz 100/G500	TGKK9110- ...			1001–1200	500			1
	gear 15 AF OZ sz 120/G600	TGKK9120- ...			1201–1400	600			1
	gear 15 AF OZ sz 140/G700	TGKK9130- ...			1401–1600	700			1
	gear 15 AF OZ sz 160/G700	TGKK9170- ...			1601–1800	700			1
	gear 15 AF OZ sz 180/G1000	TGKK9180- ...			1801–2000	1000			1
	gear 15 AF OZ sz 200/G1000	TGKK9160- ...			2001–3000	1000			1
44	linkage AF sz 1	TZZS0150- ...	1		2201–2400				
	linkage KK/OZ sz 2	TZKK9020- ...			2401–2600				1
	linkage AF sz 1	TZZS0150- ...			2601–2800				
	linkage AF sz 2 A0767	TZKS1050- ...			2801–3000				1
45	linkage AF sz 2 A0767	TZKS1050- ...	1		2601–2800				1
	linkage AF sz 2 A0767	TZKS1050- ...			2801–3000				1
46	travel restrictor	TFHB0010- ...	1		310–3000				
47	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000				
48	anti-drill guard E	TGBS0010- ...	1		310–3000				
49a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1	
49b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2	
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2	
50	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1	
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1	
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1	
51	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1	
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1	
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1	
52	anti-lift device	Ref. PDB, TFAH	1		310–3000				
53	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
54	striker plate S-RS	Ref. PDB, TRSK							
55	striker plate S-RS A2000	TRSK0700- ...							
on request									
56	stop 2,2mm	710937	1		601–3000				

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
57	stay hinge DH	Ref. PDB, TBWB61			1	1
58	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
59	top hinge 100kg	Ref. PDB, TBSL61			1	
60	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
61	top hinge pin Poly	TBSB6020-1 ...			1	1
62	top hinge 130kg	Ref. PDB, TBSL62				1
63	bottom hinge 100kg	Ref. PDB, TBEL01			1	
64	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
65	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
66	bottom hinge 130kg	Ref. PDB, TBEL02				1
67	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
68	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
69	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GK Hinge side TITAN



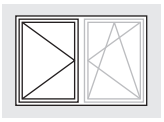


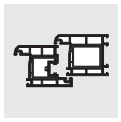
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							18	19
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	411–3000			1
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	411– 600		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 410		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	601–3000		1	
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
9a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180		
9b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		
10	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
11	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000			
13	anti-drill guard E	TGBS0010- ...	1		310–3000			
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
17	anti-lift device	Ref. PDB, TFAH	1		310–3000			
18	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
19	striker plate S-RS	Ref. PDB, TRSK						
on request								
20	tilt restrictor ..	TFKB0010- ...	1		310– 800			
21	mishandling device	TFBS0010- ...	1		601–3000			
22	pressure piece	Ref. PDB, TFFD	1		601–3000			
23	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

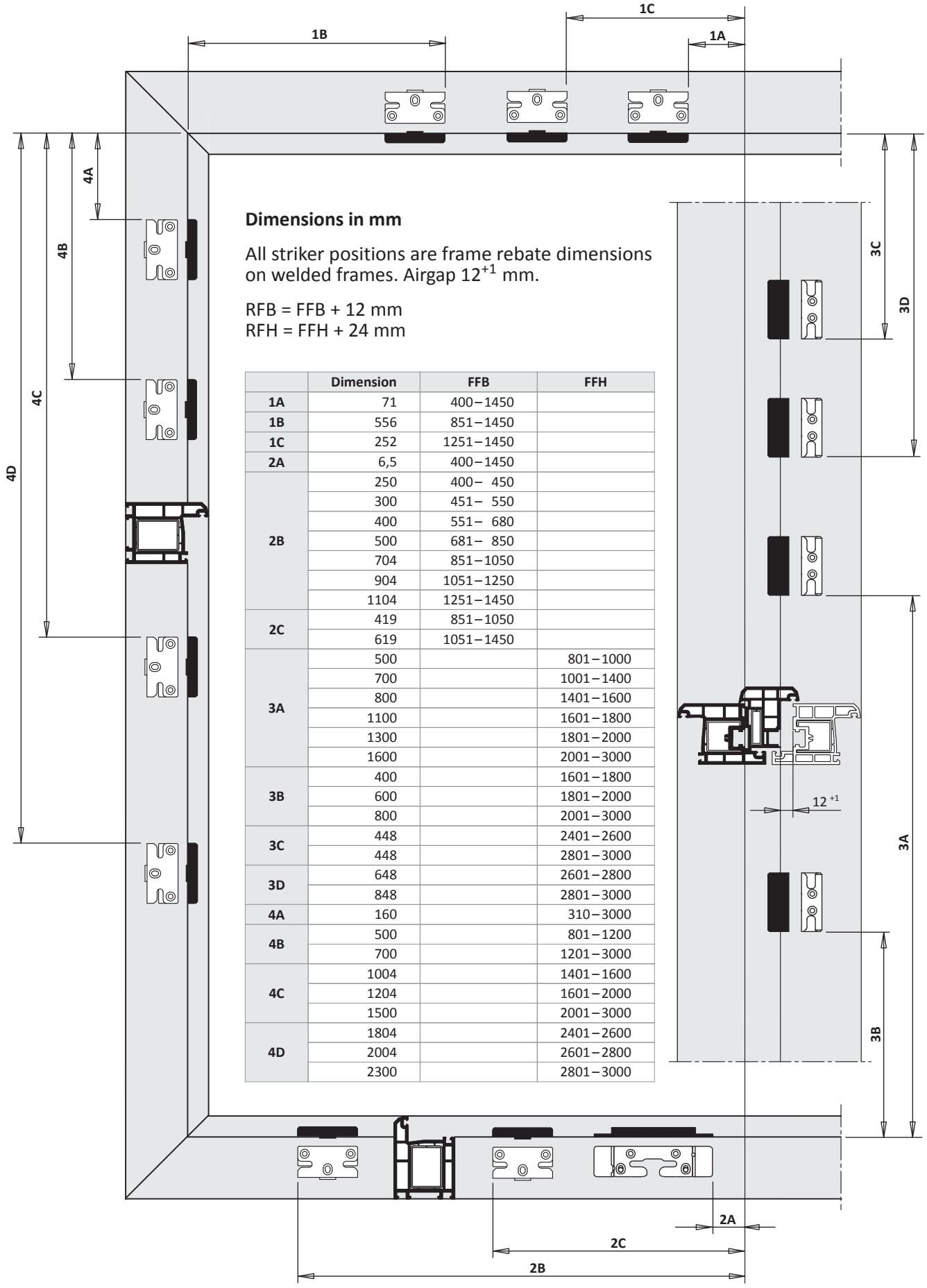
Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
24	stay hinge DH	Ref. PDB, TBWB61			1	1
25	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
26	top hinge 100kg	Ref. PDB, TBSL61			1	
27	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
28	top hinge pin Poly	TBSB6020-1 ...			1	1
29	top hinge 130kg	Ref. PDB, TBSL62				1
30	bottom hinge 100kg	Ref. PDB, TBEL01			1	
31	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
32	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
33	bottom hinge 130kg	Ref. PDB, TBEL02				1
34	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
35	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
36	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GK Hinge side TITAN





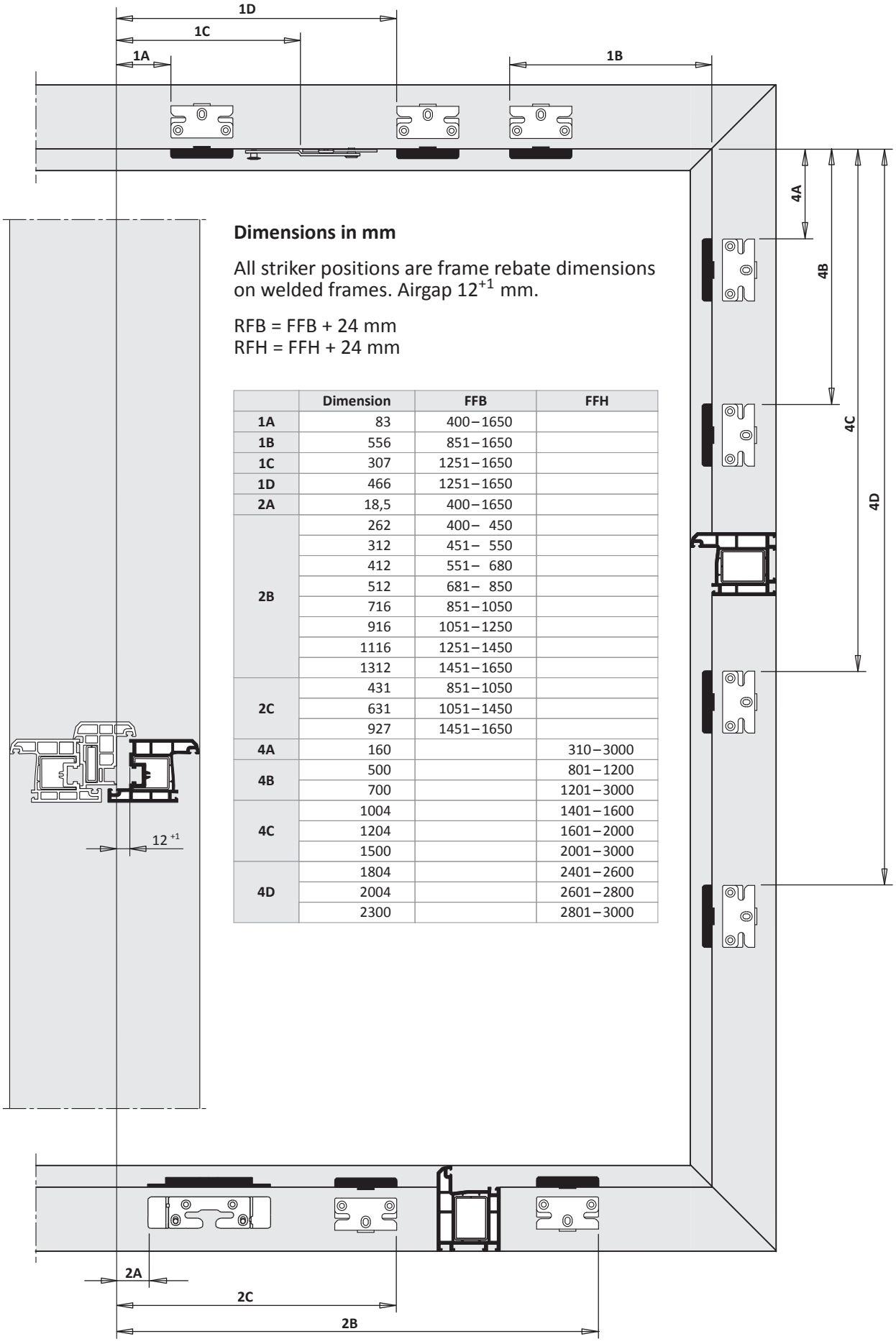


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	6,5	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1104	1251–1450	
2C	419	851–1050	
	619	1051–1450	
3A	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3B	400		1601–1800
	600		1801–2000
	800		2001–3000
3C	448		2401–2600
	448		2801–3000
3D	648		2601–2800
	848		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

8

TITAN AF

Installation instructions




RC2
ECO

1-sash square tilt before turn (TBT)

PVC

RC2 ECO

fixed handle position

Hinge side TITAN

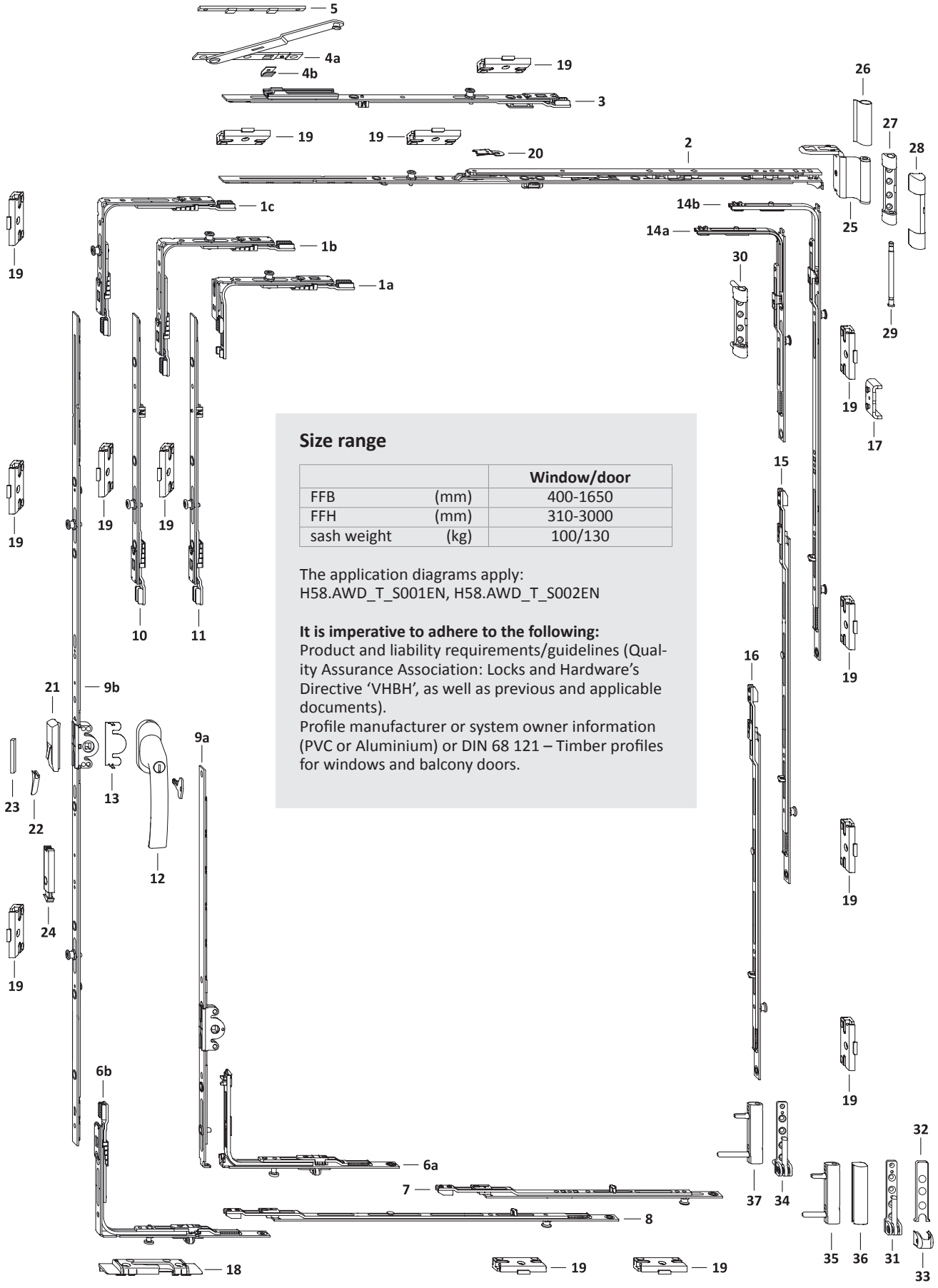
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt before turn (TBT)
PVC GK Hinge side TITAN

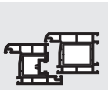


Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

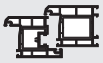



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							18	19
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1250	411–3000			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	1251–1650	411–3000			1
2	stay AF TBT sz 0	TSKT2000- ...	1	400– 450				
	stay AF TBT sz 1	TSKT2010- ...		451– 680				
	stay AF TBT sz 2 1RS	TSKT2120- ...		681– 850				
	stay AF TBT sz 3 1RS	TSKT2030- ...		851–1050				1
	stay AF TBT sz 4 1RS	TSKT2040- ...		1051–1250				1
	stay AF TBT sz 3 1RS	TSKT2030- ...		1251–1450				1
	stay AF TBT sz 4 1RS	TSKT2040- ...		1451–1650				1
3	linkage add. stay AF TBT RS	TZOT1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	411– 600		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 410		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	601–3000		1	
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
9a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180		
9b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		2
10	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			1
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
11	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
12	handle Globe TBT lockable	Ref.access. ZHGT	1		310–3000			
13	anti-drill guard E	TGBS0010- ...	1		310–3000			
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
17	anti-lift device	Ref. PDB, TFAH	1		310–3000			
18	tilt lock bear. S-ES FH TBT	Ref. PDB, FRKB						
19	striker plate S-RS	Ref. PDB, TRSK						
on request								
20	tilt restrictor ..	TFKB0010- ...	1		310– 800			
21	mishandling device	TFBS0010- ...	1					
22	pressure piece	Ref. PDB, TFFD	1					
23	stop	Ref. PDB, FRZF01	1					
24	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

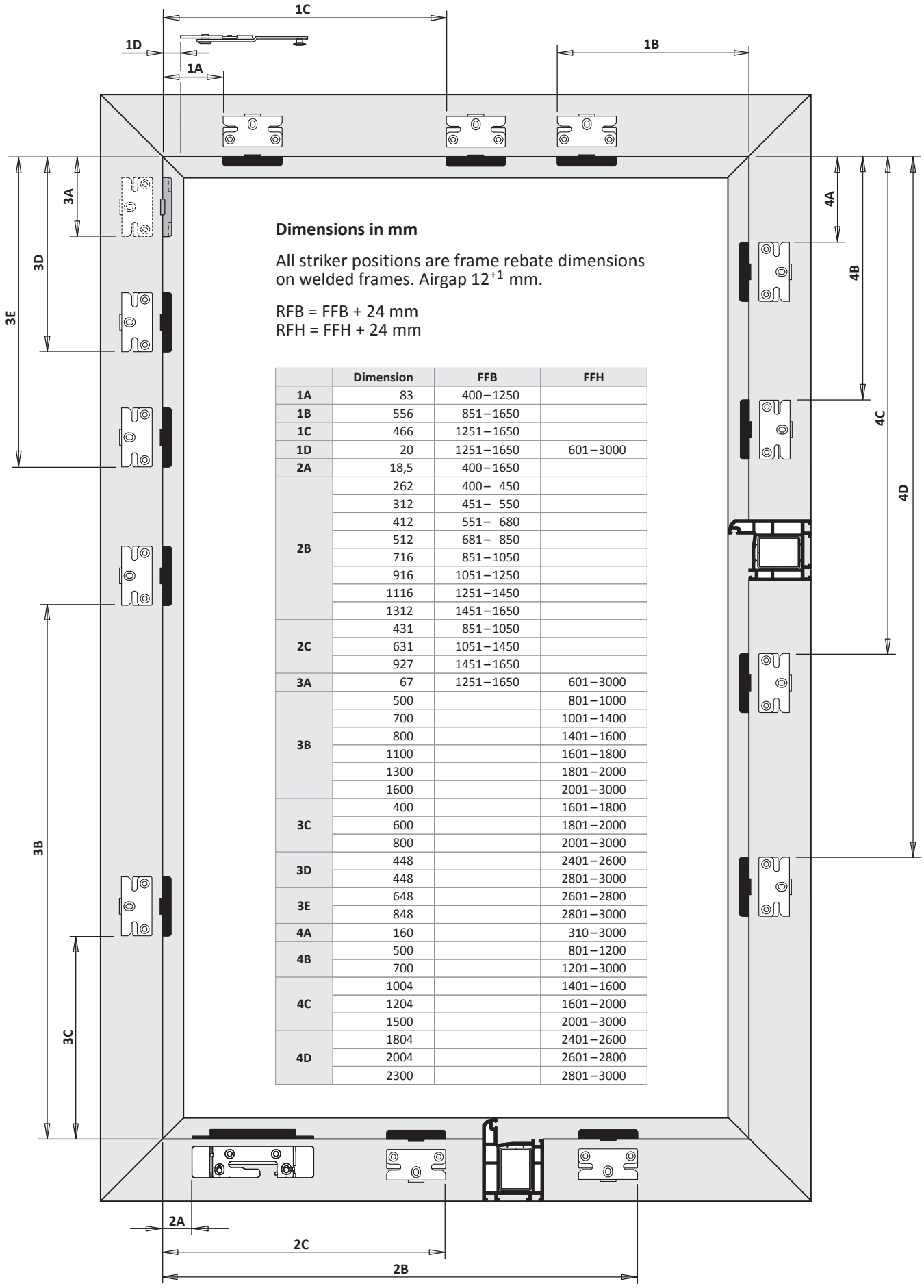
List of fittings

1-sash square tilt before turn (TBT)
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
25	stay hinge DH	Ref. PDB, TBWB61			1	1
26	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
27	top hinge 100kg	Ref. PDB, TBSL61			1	
28	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
29	top hinge pin Poly	TBSB6020-1 ...			1	1
30	top hinge 130kg	Ref. PDB, TBSL62				1
31	bottom hinge 100kg	Ref. PDB, TBEL01			1	
32	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
33	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
34	bottom hinge 130kg	Ref. PDB, TBEL02				1
35	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
36	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
37	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1250	
1B	556	851–1650	
1C	466	1251–1650	
1D	20	1251–1650	601–3000
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	1251–1650	601–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





RC2
ECO

1-sash square tilt-turn

PVC

RC2 ECO

fixed handle position

Hinge side TITAN

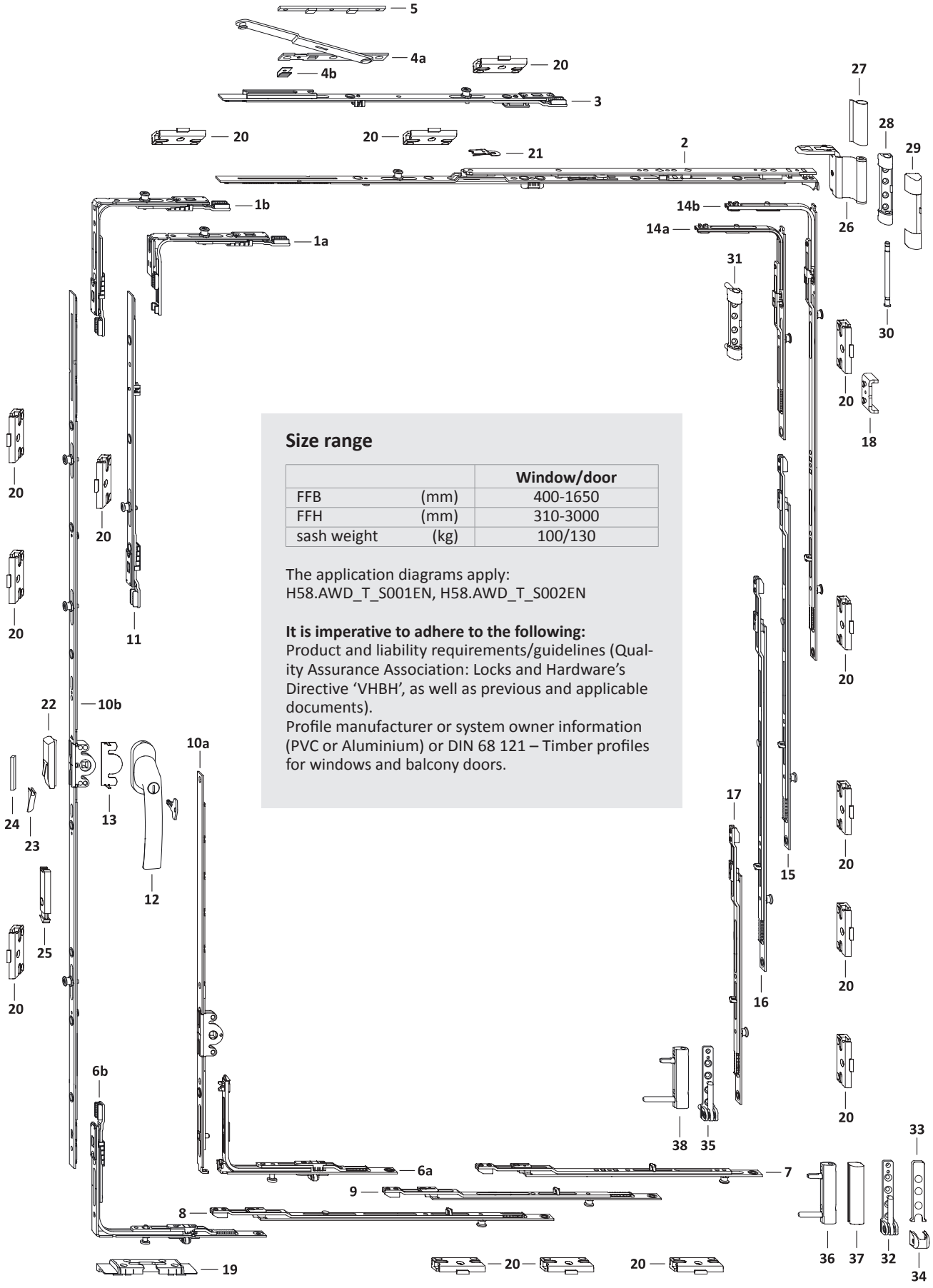
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GK Hinge side TITAN



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

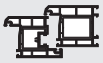
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							19	20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	411–3000			1
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	411– 600		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 410		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	601–3000		1	
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
10a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180		
10b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300		
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300		1
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700		2
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000		3
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000		3
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800			1
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000			1
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000			
13	anti-drill guard E	TGBS0010- ...	1		310–3000			
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
18	anti-lift device	Ref. PDB, TFAH	1		310–3000			
19	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
20	striker plate S-RS	Ref. PDB, TRSK						
on request								
21	tilt restrictor ..	TFKB0010- ...	1		310– 800			
22	mishandling device	TFBS0010- ...	1					
23	pressure piece	Ref. PDB, TFFD	1					
24	stop	Ref. PDB, FRZF01	1					
25	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

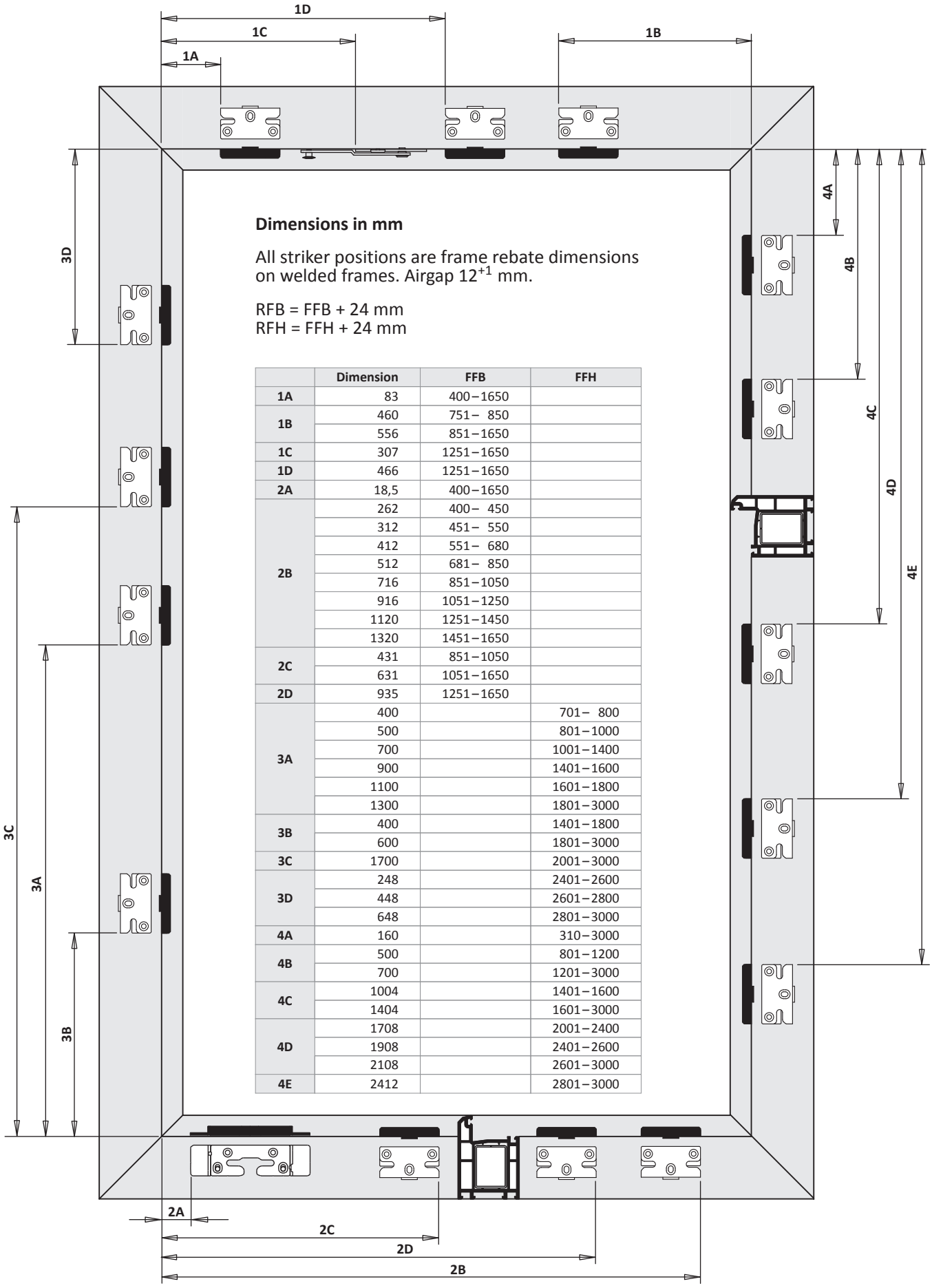
List of fittings

1-sash square tilt-turn
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
26	stay hinge DH	Ref. PDB, TBWB61			1	1
27	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
28	top hinge 100kg	Ref. PDB, TBSL61			1	
29	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
30	top hinge pin Poly	TBSB6020-1 ...			1	1
31	top hinge 130kg	Ref. PDB, TBSL62				1
32	bottom hinge 100kg	Ref. PDB, TBEL01			1	
33	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
34	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
35	bottom hinge 130kg	Ref. PDB, TBEL02				1
36	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
37	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
38	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

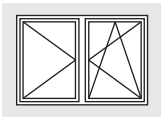
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
3A	400		701– 800
	500		801–1000
	700		1001–1400
	900		1401–1600
	1100		1601–1800
	1300		1801–3000
3B	400		1401–1800
	600		1801–3000
3C	1700		2001–3000
3D	248		2401–2600
	448		2601–2800
	648		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

TITAN AF

Installation instructions



RC2
ECO

2-sash square tilt-turn/turn DS 16

PVC

RC2 ECO

fixed handle position

Hinge side TITAN

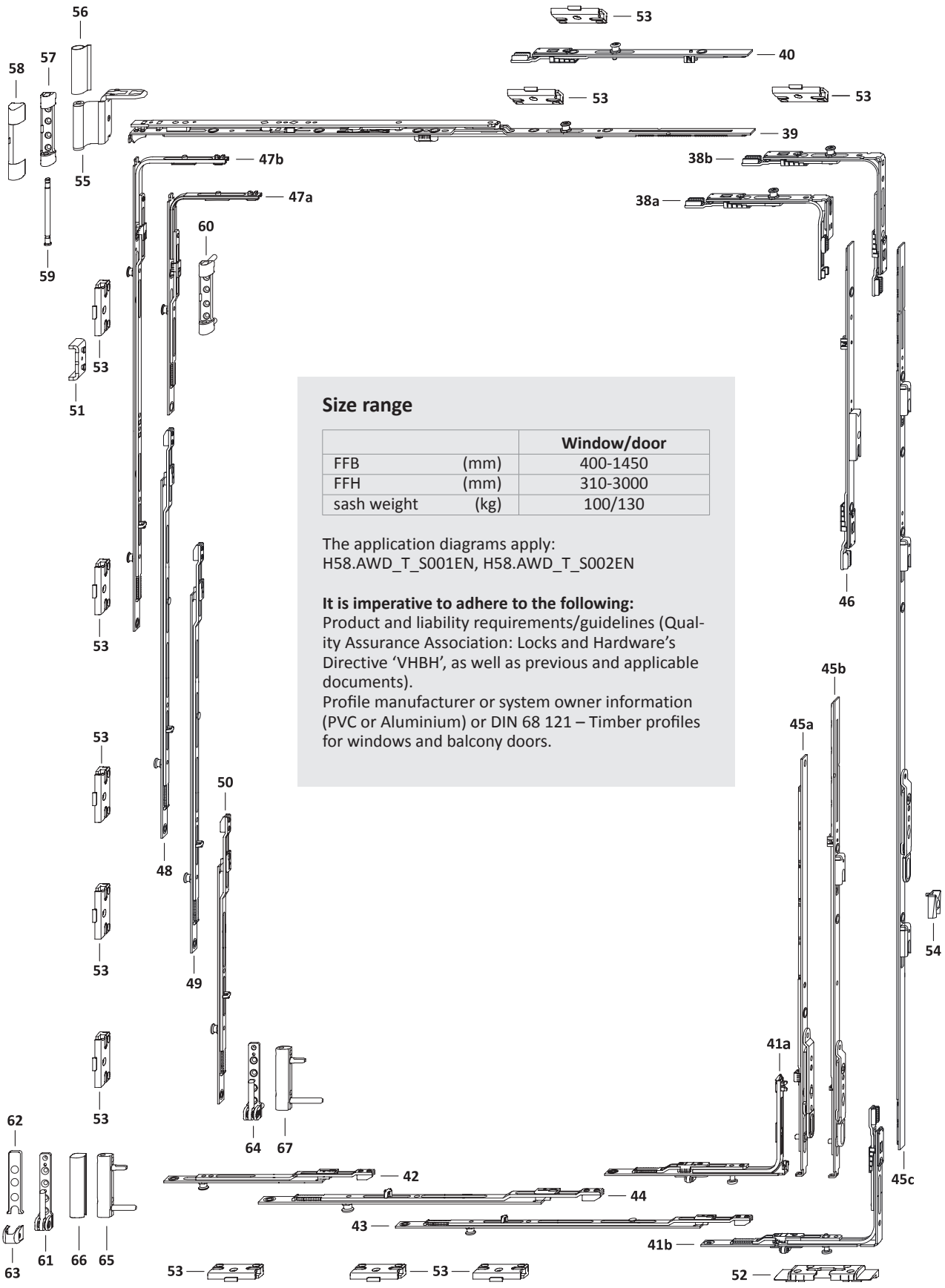
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

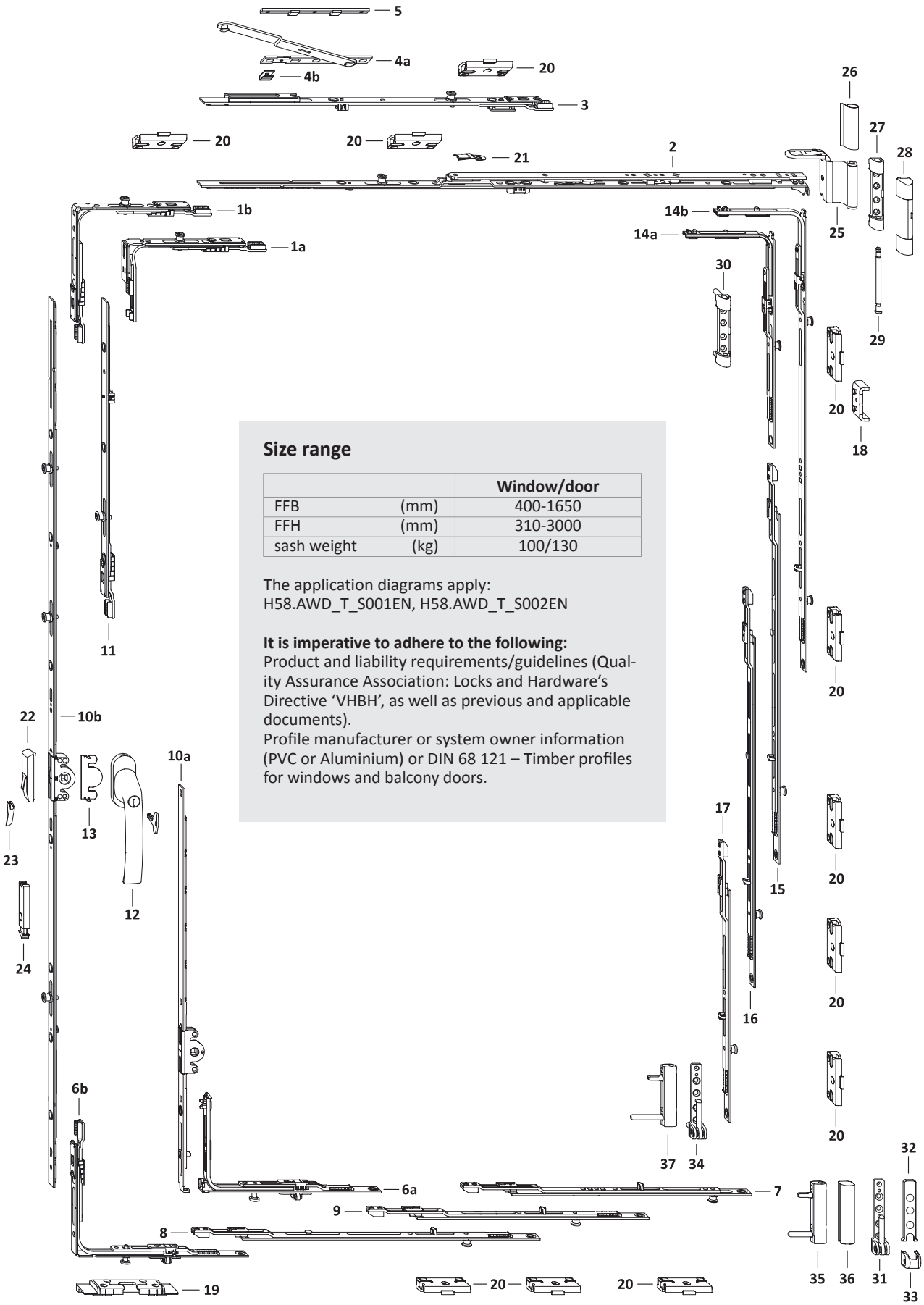


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

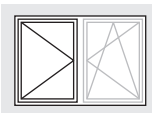
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

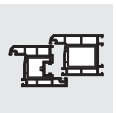
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8

List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



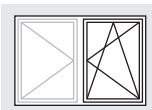


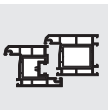
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	52	53
38a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1
38b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1450	411–3000			1
39	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1
40	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
41a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1450	411– 800		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 410		1	
41b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1450	801–3000		1	
42	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450				1
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1450				1
45a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400– 850	310– 410	180		
	sec.sash gear 16 sz 30	TGKS0010- ...		400–1250	411– 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300		
45b	sec.sash gear 16 AF70/G300 1SB	TGKS4040- ...	1		701– 800	300		
45c	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600		
	sec.sash gear 16 AF140/G700 2S 70	TGKS4290- ...			1401–1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000		
	sec.sash gear 16 AF200/G1000 3 70	TGKS4280- ...			2001–2200	1000		
	sec.sash gear 16 AF220/G1000 3 70	TGKS4320- ...			2201–3000	1000		
46	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2600			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2601–2800			
	linkage AF sz 3 1SB-RS	TZKS1080- ...			2801–3000			
47a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1
47b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
48	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
49	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
50	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
51	anti-lift device	Ref. PDB, TFAH	1		310–3000			
52	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
53	striker plate S-RS	Ref. PDB, TRSK						
on request								
54	striker snapper AF A0767	TRST0100- ...	1		1801–3000			

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
55	stay hinge DH	Ref. PDB, TBWB61			1	1
56	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
57	top hinge 100kg	Ref. PDB, TBSL61			1	
58	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
59	top hinge pin Poly	TBSB6020-1 ...			1	1
60	top hinge 130kg	Ref. PDB, TBSL62				1
61	bottom hinge 100kg	Ref. PDB, TBEL01			1	
62	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
63	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
64	bottom hinge 130kg	Ref. PDB, TBEL02				1
65	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
66	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
67	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



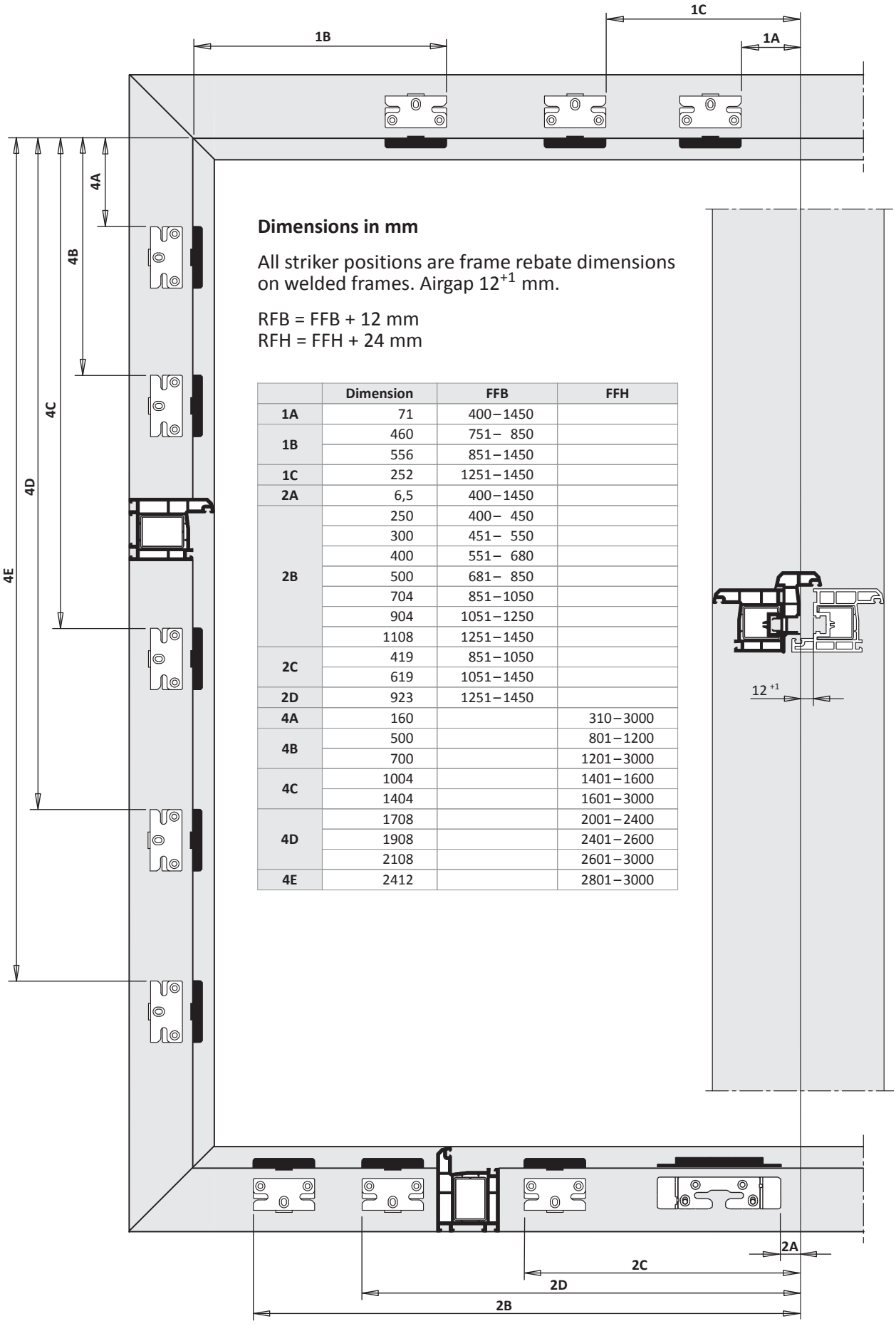


Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							19	20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	411–3000			1
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1250	411– 600		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 410		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	601–3000		1	
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
10a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180		
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180		
10b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300		
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000		
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000		
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800			
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000			
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000			
13	anti-drill guard E	TGBS0010- ...	1		310–3000			
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
18	anti-lift device	Ref. PDB, TFAH	1		310–3000			
19	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
20	striker plate S-RS	Ref. PDB, TRSK						
on request								
21	tilt restrictor ..	TFKB0010- ...	1		310– 800			
22	mishandling device	TFBS0010- ...	1		601–3000			
23	pressure piece	Ref. PDB, TFFD	1		601–3000			
24	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
25	stay hinge DH	Ref. PDB, TBWB61			1	1
26	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
27	top hinge 100kg	Ref. PDB, TBSL61			1	
28	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
29	top hinge pin Poly	TBSB6020-1 ...			1	1
30	top hinge 130kg	Ref. PDB, TBSL62				1
31	bottom hinge 100kg	Ref. PDB, TBEL01			1	
32	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
33	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
34	bottom hinge 130kg	Ref. PDB, TBEL02				1
35	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
36	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
37	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

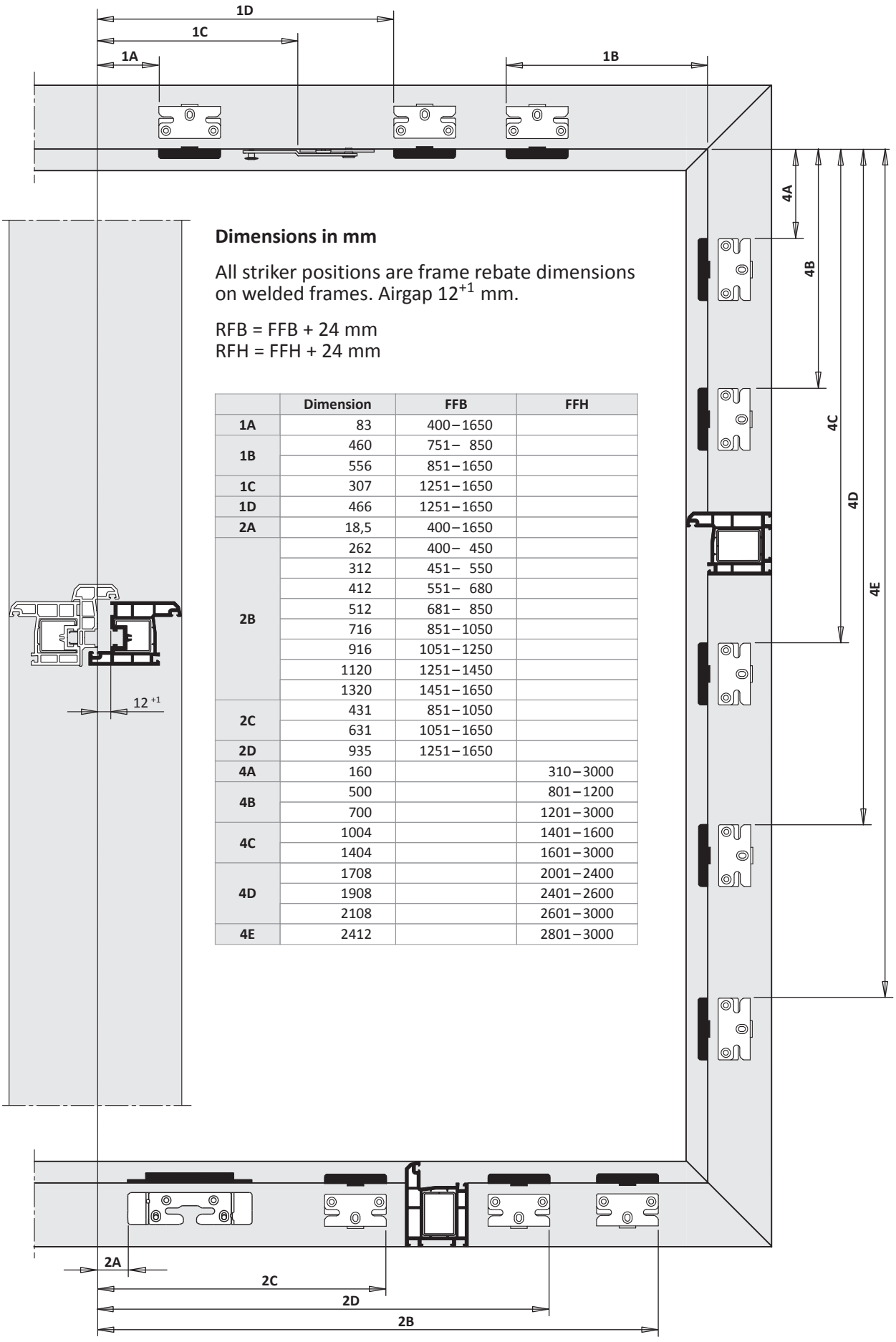


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	460	751– 850	
	556	851–1450	
1C	252	1251–1450	
2A	6,5	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1108	1251–1450	
2C	419	851–1050	
	619	1051–1450	
2D	923	1251–1450	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

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TITAN AF

Installation instructions




RC2
ECO

1-sash square tilt-turn

PVC

RC2 ECO

fixed handle position

Hinge side TITAN

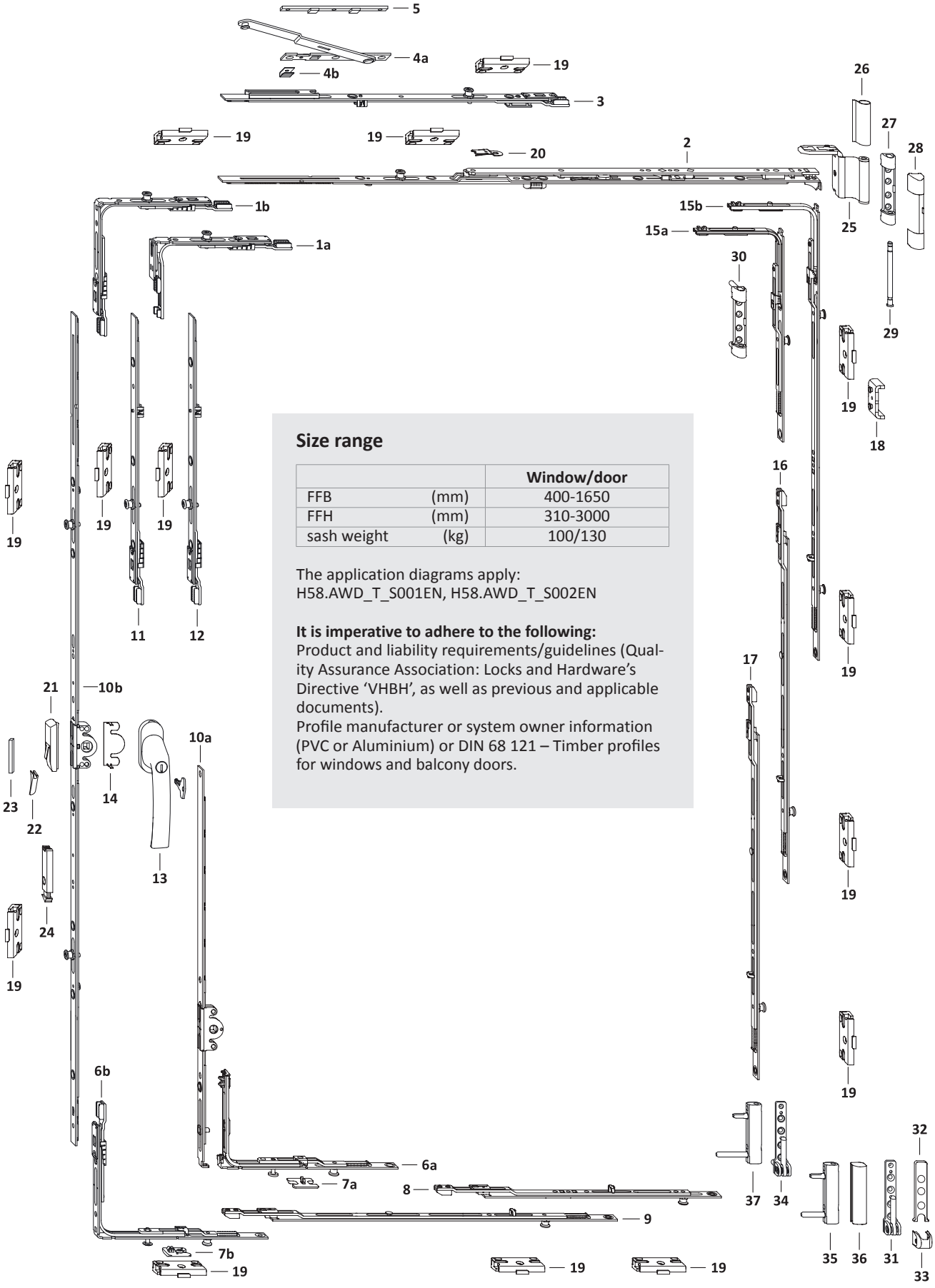
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GK Hinge side TITAN



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

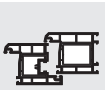
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Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							19
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410		1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	411–3000		1
2	stay AF sz 0	TSKK2000- ...	1	400– 450			
	stay AF sz 1	TSKK2010- ...		451– 680			
	stay AF sz 2	TSKK2020- ...		681– 850			
	stay AF sz 3 1RS	TSKK2030- ...		851–1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250			1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450			1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650			1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650			1
4	additional stay	Ref. PDB, TSZS	1	1251–1650			
5	packer Z	Ref. PDB, FRUP01	1	1251–1650			
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400–1250	411– 600		1
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		400– 850	310– 410		1
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1650	601–3000		1
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400–1250	411– 600		
	run-up plate FH KRL56	Ref. PDB, TRAL01		400– 850	310– 410		
7b	run up block AF 13 mm 13	TFFH0080- ...	1	400–1650	601–3000		
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450			1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650			1
10a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180	
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180	
10b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300	
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400	1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500	1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600	1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700	1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700	2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000	2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000	2
11	linkage AF sz 1	TZZS0150- ...	1		2201–2400		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600		1
	linkage AF sz 1	TZZS0150- ...			2601–2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000		1
12	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800		1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000		1
13	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000		
14	anti-drill guard E	TGBS0010- ...	1		310–3000		
15a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800		1
15b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000		1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000		1
18	anti-lift device	Ref. PDB, TFAH	1		310–3000		
19	striker plate S-RS	Ref. PDB, TRSK					
			on request				
20	tilt restrictor ..	TFKB0010- ...	1		310– 800		
21	mishandling device	TFBS0010- ...	1				
22	pressure piece	Ref. PDB, TFFD	1				
23	stop	Ref. PDB, FRZF01	1				

List of fittings

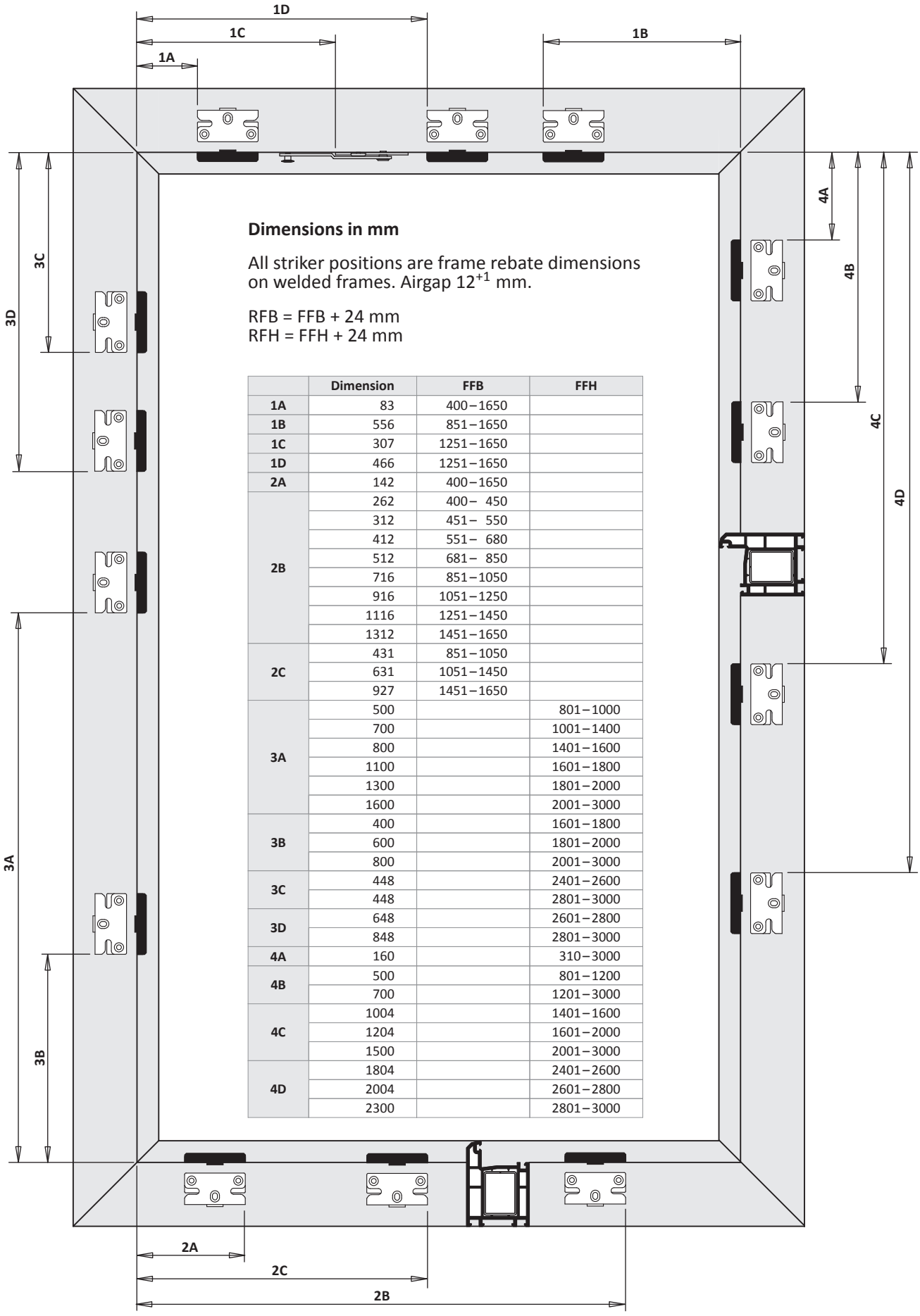
1-sash square tilt-turn
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							19
24	snapper rh.	TFST0021- ...	1		1801 – 3000		
	snapper lh.	TFST0022- ...			1801 – 3000		

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
25	stay hinge DH	Ref. PDB, TBWB61			1	1
26	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
27	top hinge 100kg	Ref. PDB, TBSL61			1	
28	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
29	top hinge pin Poly	TBSB6020-1 ...			1	1
30	top hinge 130kg	Ref. PDB, TBSL62				1
31	bottom hinge 100kg	Ref. PDB, TBEL01			1	
32	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
33	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
34	bottom hinge 130kg	Ref. PDB, TBEL02				1
35	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
36	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
37	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

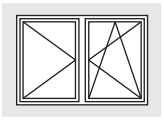
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

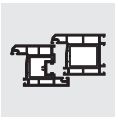
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3B	400		1601–1800
	600		1801–2000
	800		2001–3000
3C	448		2401–2600
	448		2801–3000
3D	648		2601–2800
	848		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





RC2
ECO

2-sash square tilt-turn/turn DS 16

PVC

RC2 ECO

fixed handle position

Hinge side TITAN

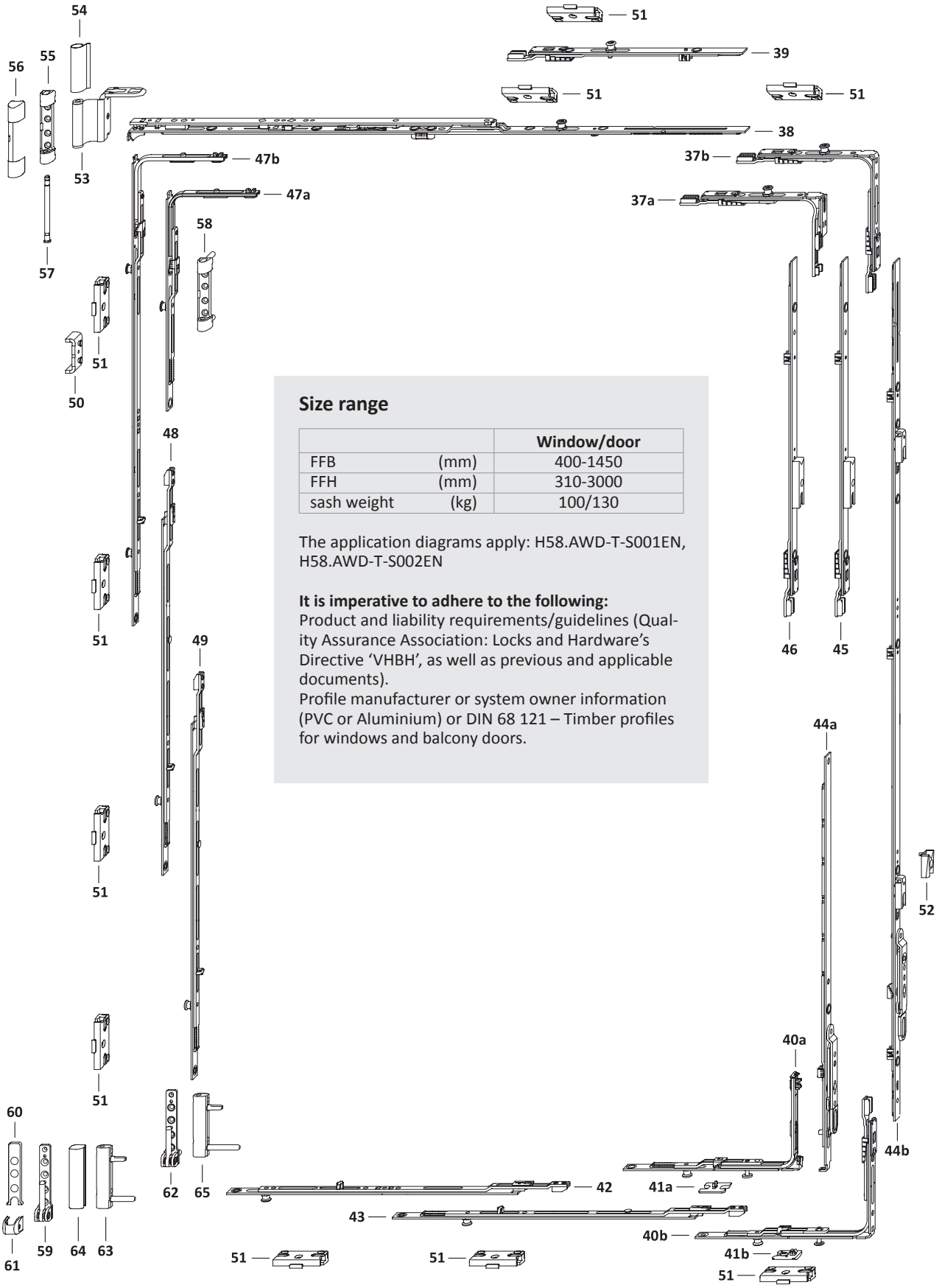
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN

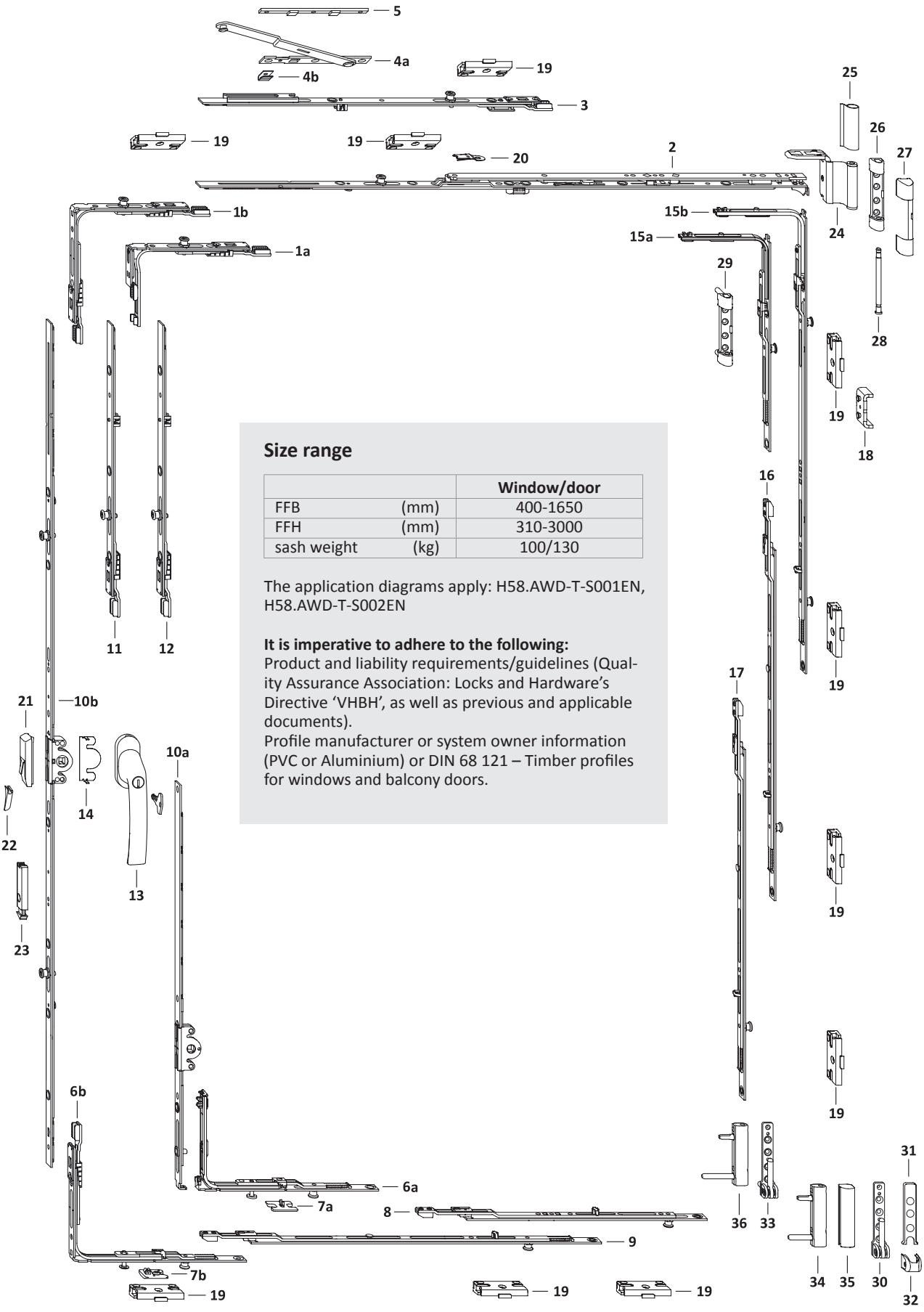


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply: H58.AWD-T-S001EN, H58.AWD-T-S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

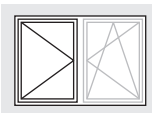
The application diagrams apply: H58.AWD-T-S001EN, H58.AWD-T-S002EN

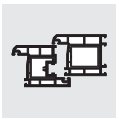
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

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List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



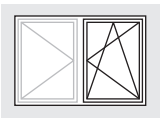


Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
						In the main sash	51
37a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410		1
37b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1450	411–3000		1
38	stay AF sz 0	TSKK2000- ...	1	400– 450			
	stay AF sz 1	TSKK2010- ...		451– 680			
	stay AF sz 2	TSKK2020- ...		681– 850			
	stay AF sz 3 1RS	TSKK2030- ...		851–1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450			1
39	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450			1
40a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400–1450	411– 800		1
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		400– 850	310– 410		1
40b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1450	801–3000		1
41a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400–1450	411– 800		
	run-up plate FH KRL56	Ref. PDB, TRAL01		400– 850	310– 410		
41b	run up plate AF 13 mm 13	TFFH0080- ...	1	400–1450	801–3000		
42	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450			1
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450			1
44a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400– 850	310– 410	180	
	sec.sash gear 16 sz 30	TGKS0010- ...		400–1250	411– 600	180	
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300	
44b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400	
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500	
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600	
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700	
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700	
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000	
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000	
45	linkage AF sz 1	TZZS0150- ...	1		2201–2400		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600		
	linkage AF sz 1	TZZS0150- ...			2601–2800		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000		
46	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000		
47a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800		1
47b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
48	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000		1
49	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000		1
50	anti-lift device	Ref. PDB, TFAH	1		310–3000		
51	striker plate S-RS	Ref. PDB, TRSK					
on request							
52	striker snapper AF A0767	TRST0100- ...	1		1801–3000		

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
53	stay hinge DH	Ref. PDB, TBWB61			1	1
54	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
55	top hinge 100kg	Ref. PDB, TBSL61			1	
56	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
57	top hinge pin Poly	TBSB6020-1 ...			1	1
58	top hinge 130kg	Ref. PDB, TBSL62				1
59	bottom hinge 100kg	Ref. PDB, TBEL01			1	
60	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
61	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
62	bottom hinge 130kg	Ref. PDB, TBEL02				1
63	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
64	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
65	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



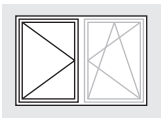


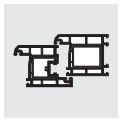
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							19
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410		1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	411–3000		1
2	stay AF sz 0	TSKK2000- ...	1	400– 450			
	stay AF sz 1	TSKK2010- ...		451– 680			
	stay AF sz 2	TSKK2020- ...		681– 850			
	stay AF sz 3 1RS	TSKK2030- ...		851–1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250			1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450			1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650			1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650			1
4	additional stay	Ref. PDB, TSZS	1	1251–1650			
5	packer Z	Ref. PDB, FRUP01	1	1251–1650			
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400–1250	411– 600		1
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		400– 850	310– 410		1
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1650	601–3000		1
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400–1250	411– 600		
	run-up plate FH KRL56	Ref. PDB, TRAL01		400– 850	310– 410		
7b	run up plate AF 13 mm 13	TFFH0080- ...	1	400–1650	601–3000		
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450			1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650			1
10a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180	
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180	
10b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300	
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400	
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500	
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600	
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700	
	gear 15 AF sz 160/G700 2RS 70	TGKK4280- ...			1601–1800	700	
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000	
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000	
11	linkage AF sz 1	TZZS0150- ...	1		2201–2400		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600		
	linkage AF sz 1	TZZS0150- ...			2601–2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000		
12	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000		
13	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000		
14	anti-drill guard E	TGBS0010- ...	1		310–3000		
15a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800		1
15b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000		1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000		1
18	anti-lift device	Ref. PDB, TFAH	1		310–3000		
19	striker plate S-RS	Ref. PDB, TRSK					
			on request				
20	tilt restrictor ..	TFKB0010- ...	1		310– 800		
21	mishandling device	TFBS0010- ...	1		601–3000		
22	pressure piece	Ref. PDB, TFFD	1		601–3000		
23	snapper rh.	TFST0021- ...	1		1801–3000		
	snapper lh.	TFST0022- ...			1801–3000		

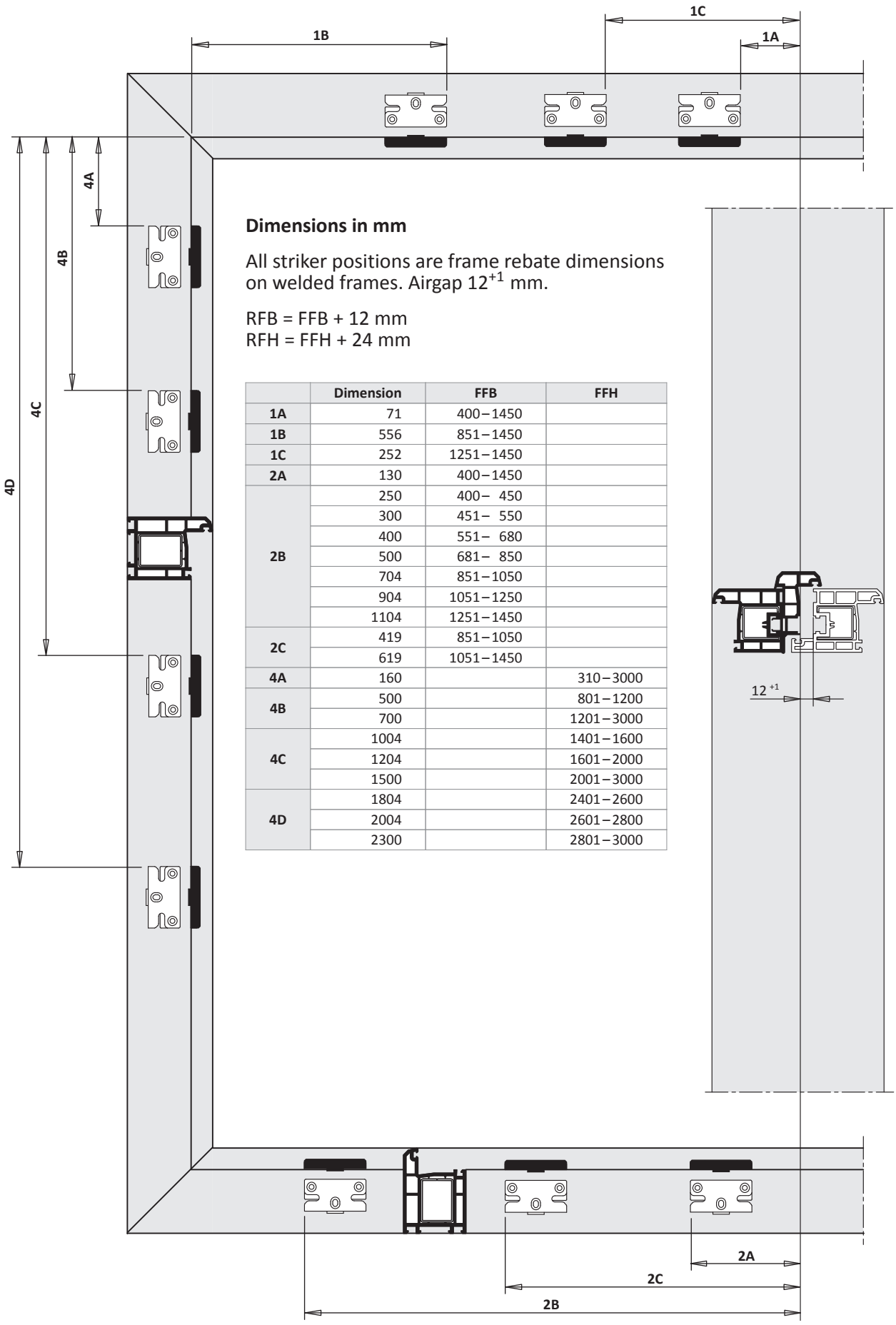
Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
24	stay hinge DH	Ref. PDB, TBWB61			1	1
25	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
26	top hinge 100kg	Ref. PDB, TBSL61			1	
27	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
28	top hinge pin Poly	TBSB6020-1 ...			1	1
29	top hinge 130kg	Ref. PDB, TBSL62				1
30	bottom hinge 100kg	Ref. PDB, TBEL01			1	
31	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
32	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
33	bottom hinge 130kg	Ref. PDB, TBEL02				1
34	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
35	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
36	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





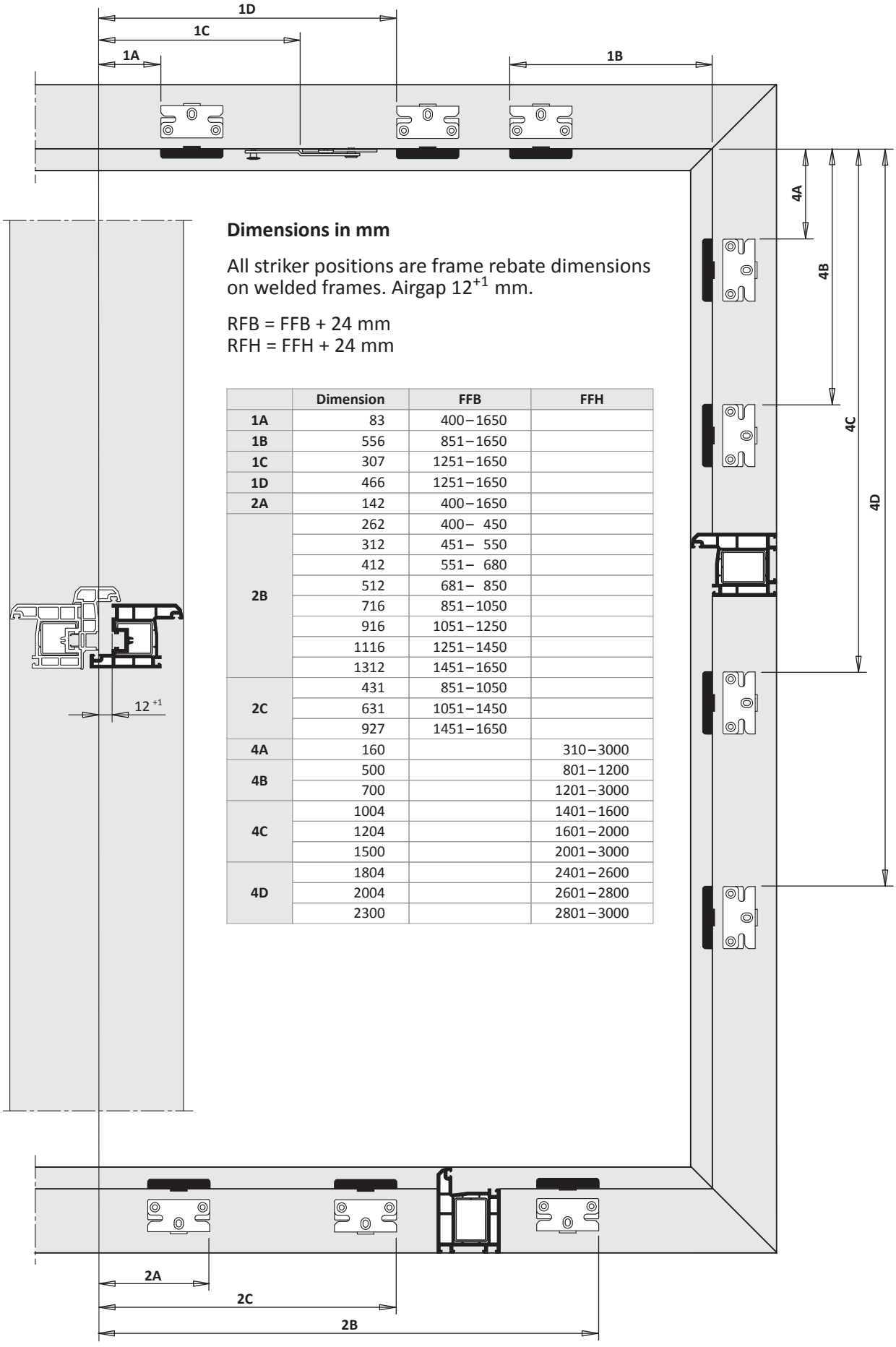


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	130	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1104	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

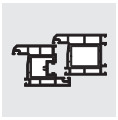
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





RC2
ECO

1-sash square tilt-turn

PVC

RC2 ECO

fixed handle position

Hinge side TITAN

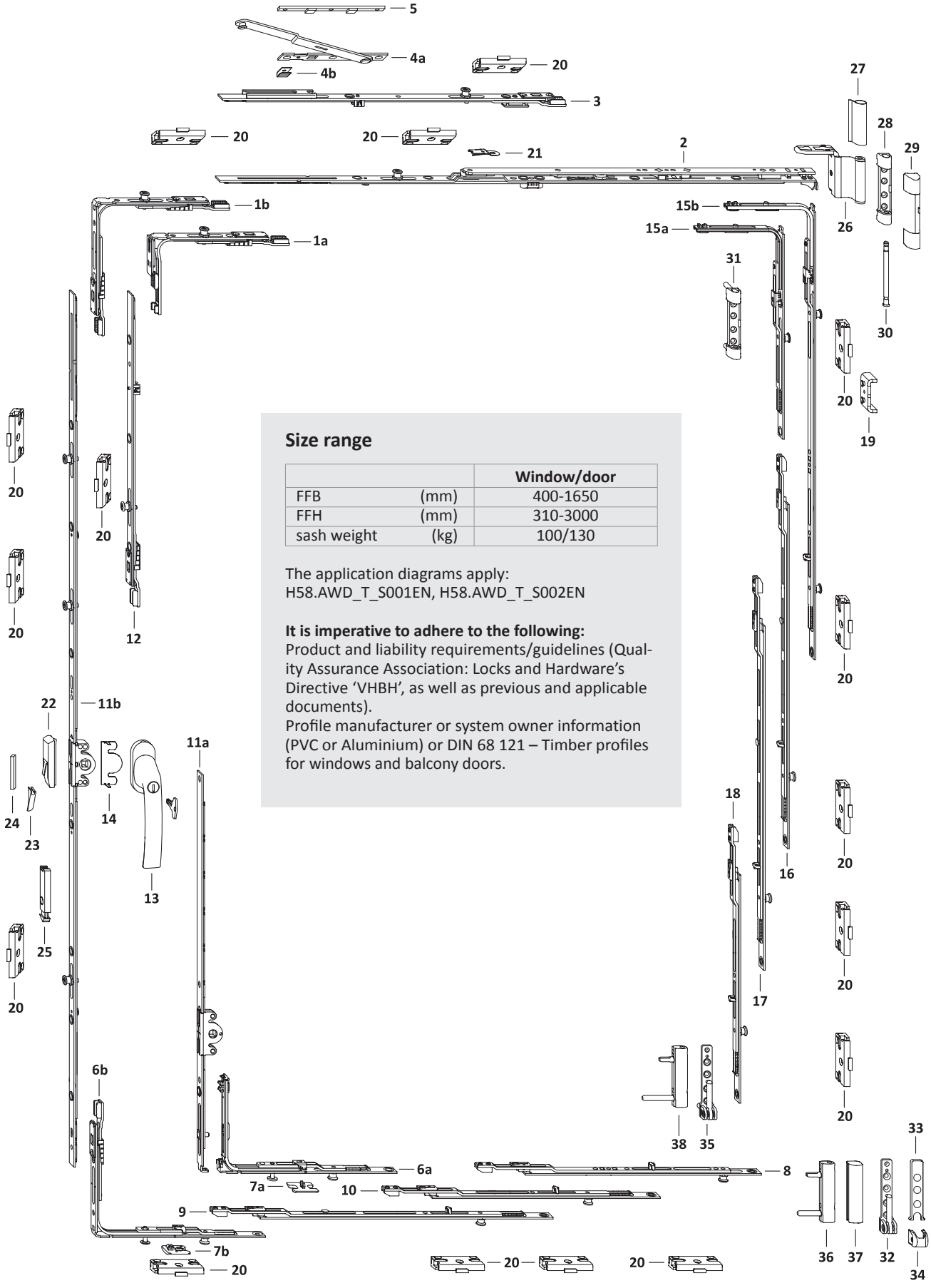
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GK Hinge side TITAN



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

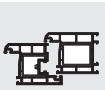
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Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410		1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	411–3000		1
2	stay AF sz 0	TSKK2000- ...	1	400– 450			
	stay AF sz 1	TSKK2010- ...		451– 680			
	stay AF sz 2	TSKK2020- ...		681– 750			
	stay AF sz 2 1RS	TSKK2120- ...		751– 850			1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250			1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450			1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650			1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650			1
4	additional stay	Ref. PDB, TSZS	1	1251–1650			
5	packer Z	Ref. PDB, FRUP01	1	1251–1650			
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400–1250	411– 600		1
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		400– 850	310– 410		1
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1650	601–3000		1
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400–1250	411– 600		
	run-up plate FH KRL56	Ref. PDB, TRAL01		400– 850	310– 410		
7b	run up block AF 13 mm 13	TFFH0080- ...	1	400–1650	601–3000		
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450			1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650			1
10	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650			1
11a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180	
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180	
11b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300	
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300	1
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400	1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500	1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600	1
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700	2
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700	2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000	2
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000	3
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000	3
12	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600		1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800		1
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000		1
13	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000		
14	anti-drill guard E	TGBS0010- ...	1		310–3000		
15a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800		1
15b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000		1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000		1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000		1
19	anti-lift device	Ref. PDB, TFAH	1		310–3000		
20	striker plate S-RS	Ref. PDB, TRSK					
			on request				
21	tilt restrictor ..	TFKB0010- ...	1		310– 800		
22	mishandling device	TFBS0010- ...	1				
23	pressure piece	Ref. PDB, TFFD	1				
24	stop	Ref. PDB, FRZF01	1				

List of fittings

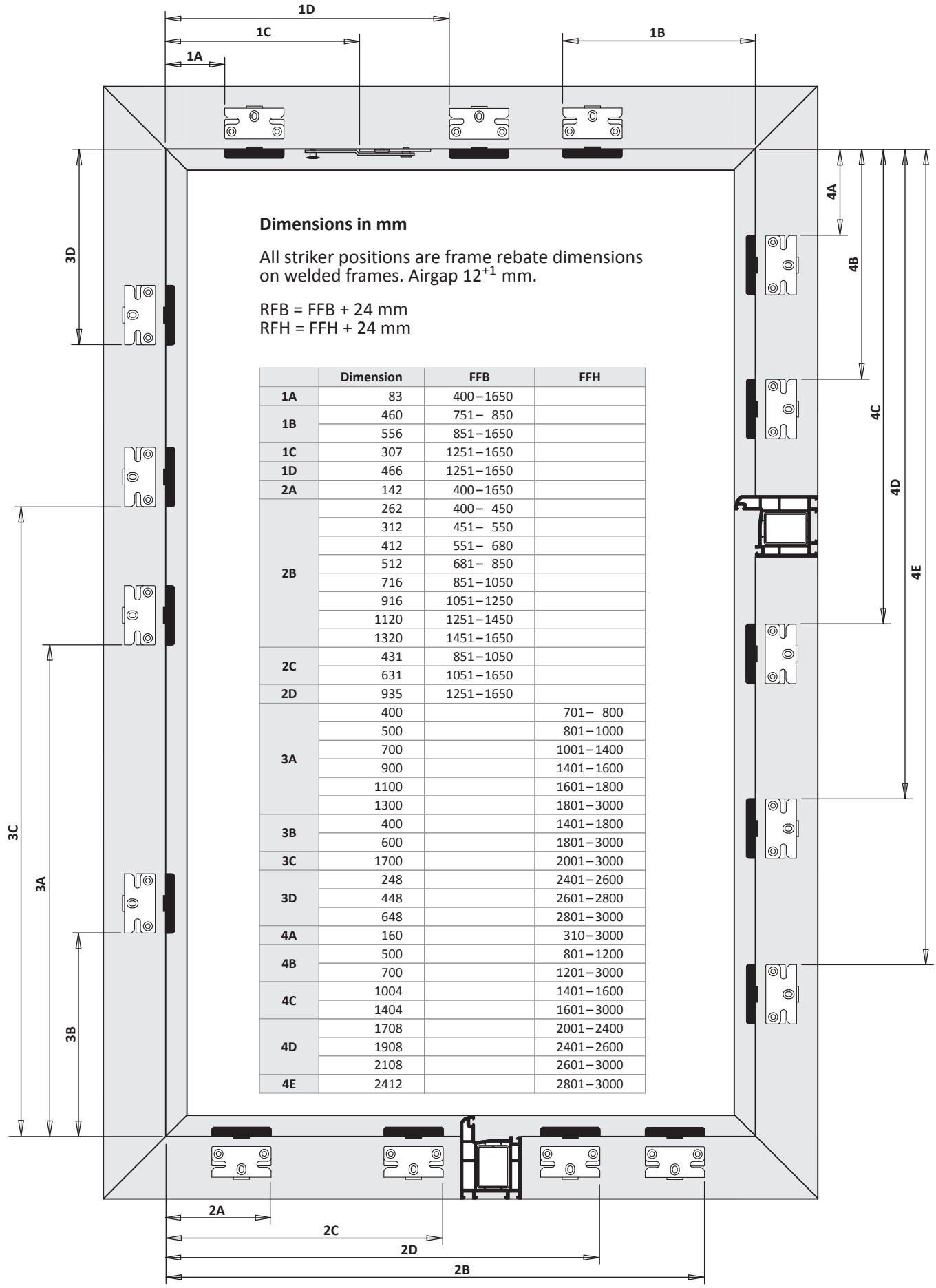
1-sash square tilt-turn
PVC GK Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							20
25	snapper rh.	TFST0021- ...	1		1801 – 3000		
	snapper lh.	TFST0022- ...			1801 – 3000		

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
26	stay hinge DH	Ref. PDB, TBWB61			1	1
27	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
28	top hinge 100kg	Ref. PDB, TBSL61			1	
29	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
30	top hinge pin Poly	TBSB6020-1 ...			1	1
31	top hinge 130kg	Ref. PDB, TBSL62				1
32	bottom hinge 100kg	Ref. PDB, TBEL01			1	
33	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
34	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
35	bottom hinge 130kg	Ref. PDB, TBEL02				1
36	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
37	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
38	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

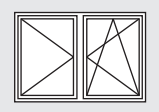
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
3A	400		701– 800
	500		801–1000
	700		1001–1400
	900		1401–1600
	1100		1601–1800
	1300		1801–3000
3B	400		1401–1800
	600		1801–3000
3C	1700		2001–3000
3D	248		2401–2600
	448		2601–2800
	648		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

TITAN AF

Installation instructions



RC2
ECO

2-sash square tilt-turn/turn DS 16

PVC

RC2 ECO

fixed handle position

Hinge side TITAN

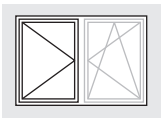
surface TS

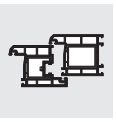
backset 15 mm

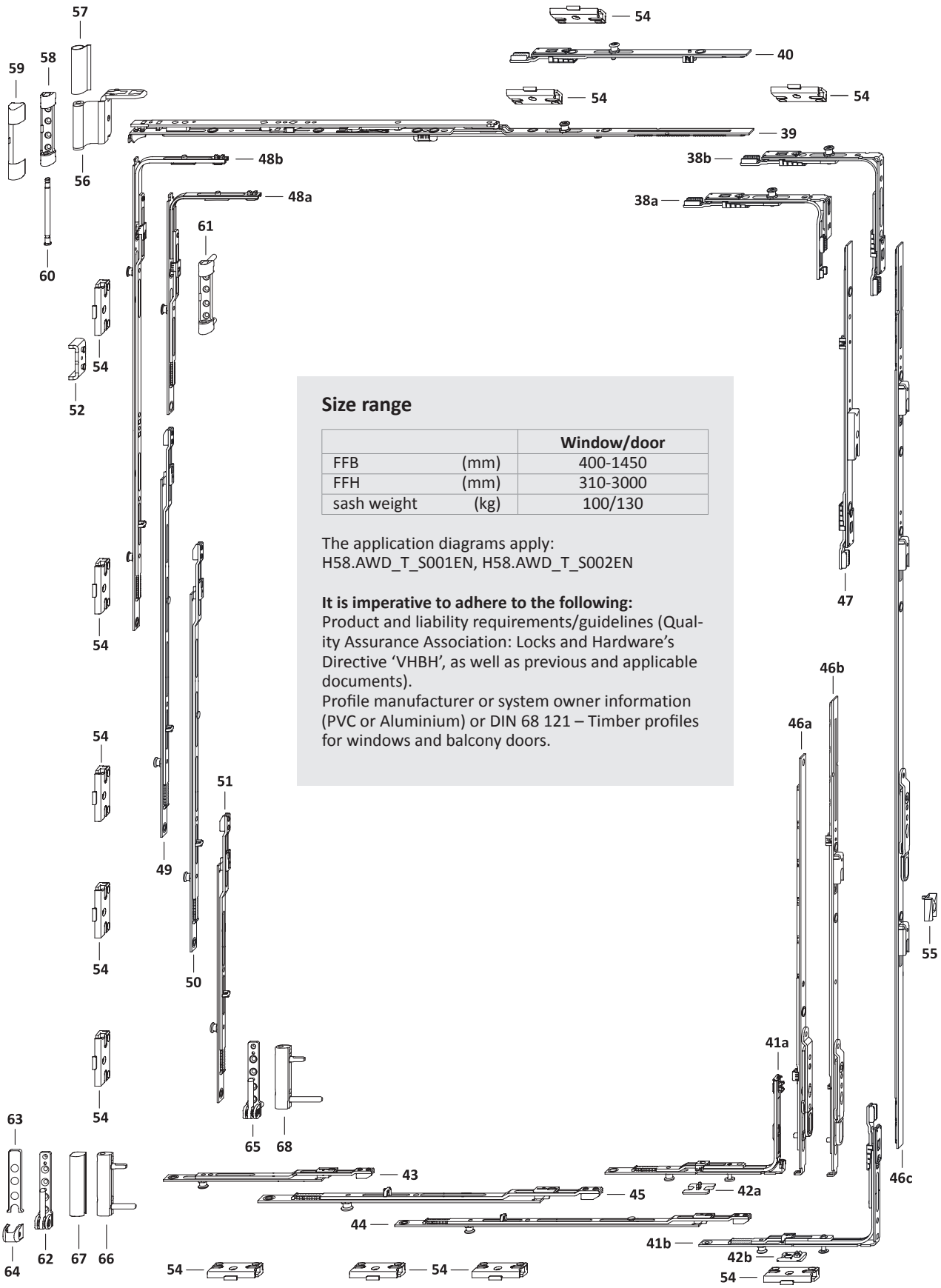
Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





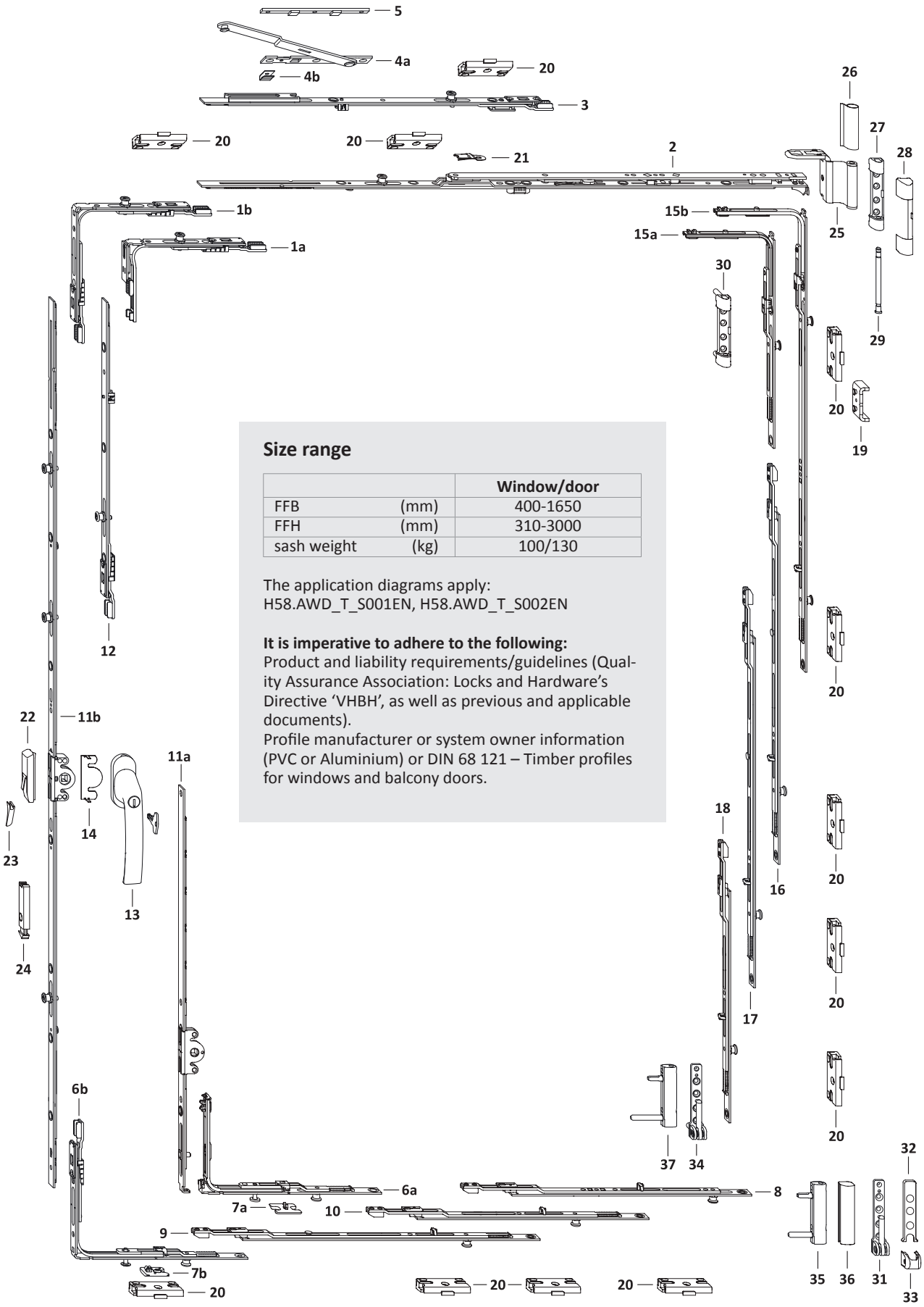


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

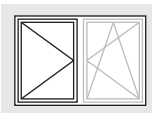
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

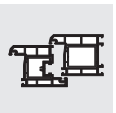
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

8

List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



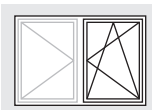


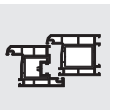
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	53	54
38a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410			1
38b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1450	411–3000			1
39	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1
40	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
41a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400–1450	411– 800		1	
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		400– 850	310– 410		1	
41b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1450	801–3000		1	
42a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400–1450	411– 800			
	run-up plate FH KRL56	Ref. PDB, TRAL01		400– 850	310– 410			
42b	run up block AF 13 mm 13	TFFH0080- ...	1	400–1450	801–3000			
43	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450				1
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
45	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1450				1
46a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400– 850	310– 410	180		
	sec.sash gear 16 sz 30	TGKS0010- ...		400–1250	411– 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300		
46b	sec.sash gear 16 AF70/G300 1SB	TGKS4040- ...	1		701– 800	300		
46c	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600		
	sec.sash gear 16 AF140/G700 2S 70	TGKS4290- ...			1401–1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000		
	sec.sash gear 16 AF200/G1000 3 70	TGKS4280- ...			2001–2200	1000		
	sec.sash gear 16 AF220/G1000 3 70	TGKS4320- ...			2201–3000	1000		
47	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2600			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2601–2800			
	linkage AF sz 3 1SB-RS	TZKS1080- ...			2801–3000			
48a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1
48b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
49	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
50	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
51	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
52	anti-lift device	Ref. PDB, TFAH	1		310–3000			
53	tilt lock bear. 56 S-RS	Ref. PDB, TRKF						
54	striker plate S-RS	Ref. PDB, TRSK						
on request								
55	striker snapper AF A0767	TRST0100- ...	1		1801–3000			

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
56	stay hinge DH	Ref. PDB, TBWB61			1	1
57	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
58	top hinge 100kg	Ref. PDB, TBSL61			1	
59	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
60	top hinge pin Poly	TBSB6020-1 ...			1	1
61	top hinge 130kg	Ref. PDB, TBSL62				1
62	bottom hinge 100kg	Ref. PDB, TBEL01			1	
63	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
64	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
65	bottom hinge 130kg	Ref. PDB, TBEL02				1
66	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
67	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
68	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN



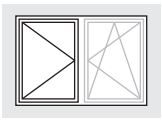


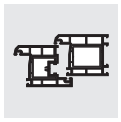
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 410		1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	411–3000		1
2	stay AF sz 0	TSKK2000- ...	1	400– 450			
	stay AF sz 1	TSKK2010- ...		451– 680			
	stay AF sz 2	TSKK2020- ...		681– 750			
	stay AF sz 2 1RS	TSKK2120- ...		751– 850			1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250			1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450			1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650			1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650			1
4	additional stay	Ref. PDB, TSZS	1	1251–1650			
5	packer Z	Ref. PDB, FRUP01	1	1251–1650			
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400–1250	411– 600		1
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		400– 850	310– 410		1
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1650	601–3000		1
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400–1250	411– 600		
	run-up plate FH KRL56	Ref. PDB, TRAL01		400– 850	310– 410		
7b	run up block AF 13 mm 13	TFFH0080- ...	1	400–1650	601–3000		
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450			1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650			1
10	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650			1
11a	gear 15 sz 30/G180	TGKK3010- ...	1	400– 850	310– 410	180	
	gear 15 sz 30/G180	TGKK3010- ...		400–1250	411– 600	180	
11b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300	
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300	
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400	
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500	
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600	
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700	
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700	
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000	
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000	
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000	
12	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800		
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000		
13	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000		
14	anti-drill guard E	TGBS0010- ...	1		310–3000		
15a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800		1
15b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000		1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000		1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000		1
19	anti-lift device	Ref. PDB, TFAH	1		310–3000		
20	striker plate S-RS	Ref. PDB, TRSK					
				on request			
21	tilt restrictor ..	TFKB0010- ...	1		310– 800		
22	mishandling device	TFBS0010- ...	1		601–3000		
23	pressure piece	Ref. PDB, TFFD	1		601–3000		
24	snapper rh.	TFST0021- ...	1		1801–3000		
	snapper lh.	TFST0022- ...			1801–3000		

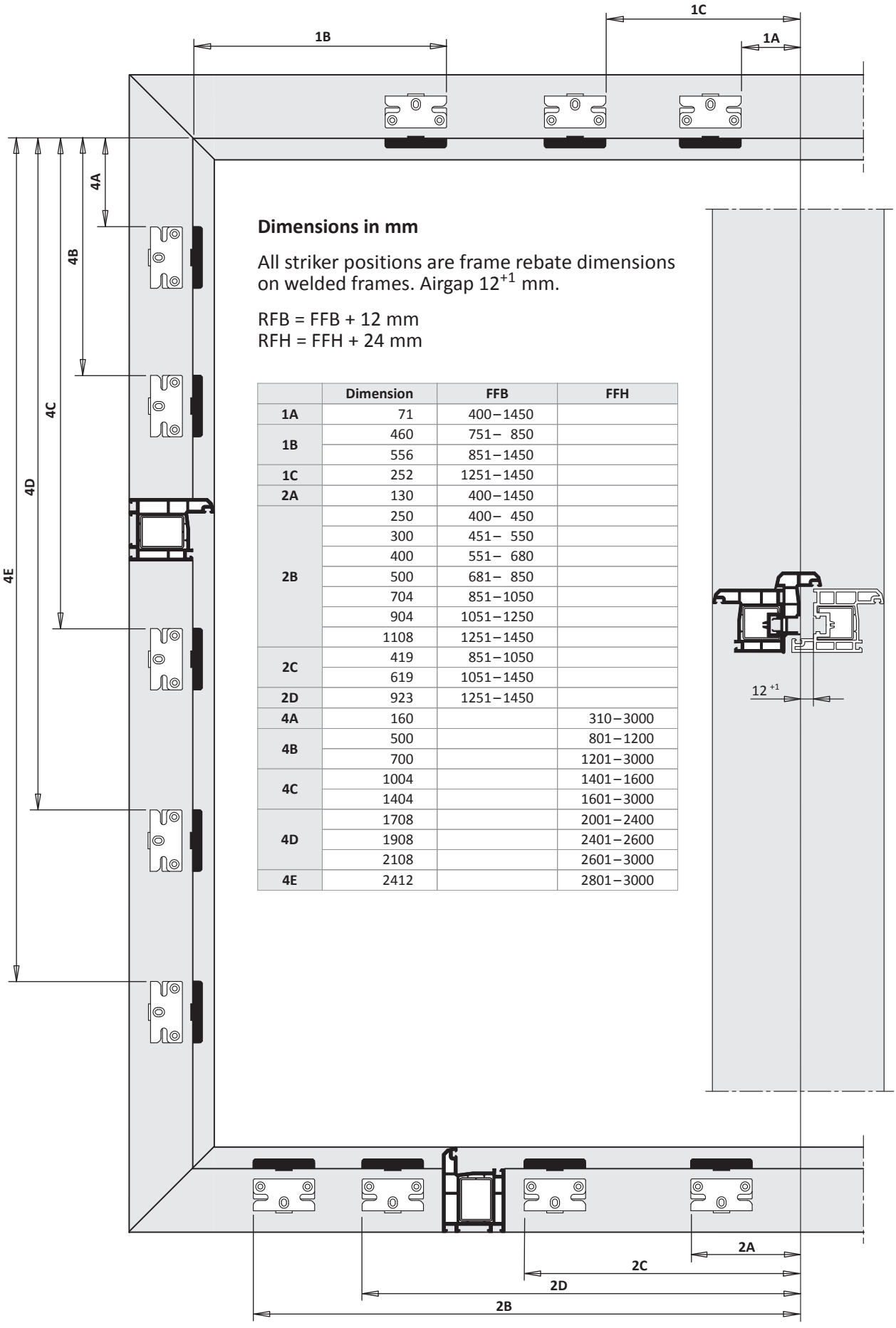
Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
25	stay hinge DH	Ref. PDB, TBWB61			1	1
26	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
27	top hinge 100kg	Ref. PDB, TBSL61			1	
28	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
29	top hinge pin Poly	TBSB6020-1 ...			1	1
30	top hinge 130kg	Ref. PDB, TBSL62				1
31	bottom hinge 100kg	Ref. PDB, TBEL01			1	
32	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
33	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
34	bottom hinge 130kg	Ref. PDB, TBEL02				1
35	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
36	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
37	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side TITAN





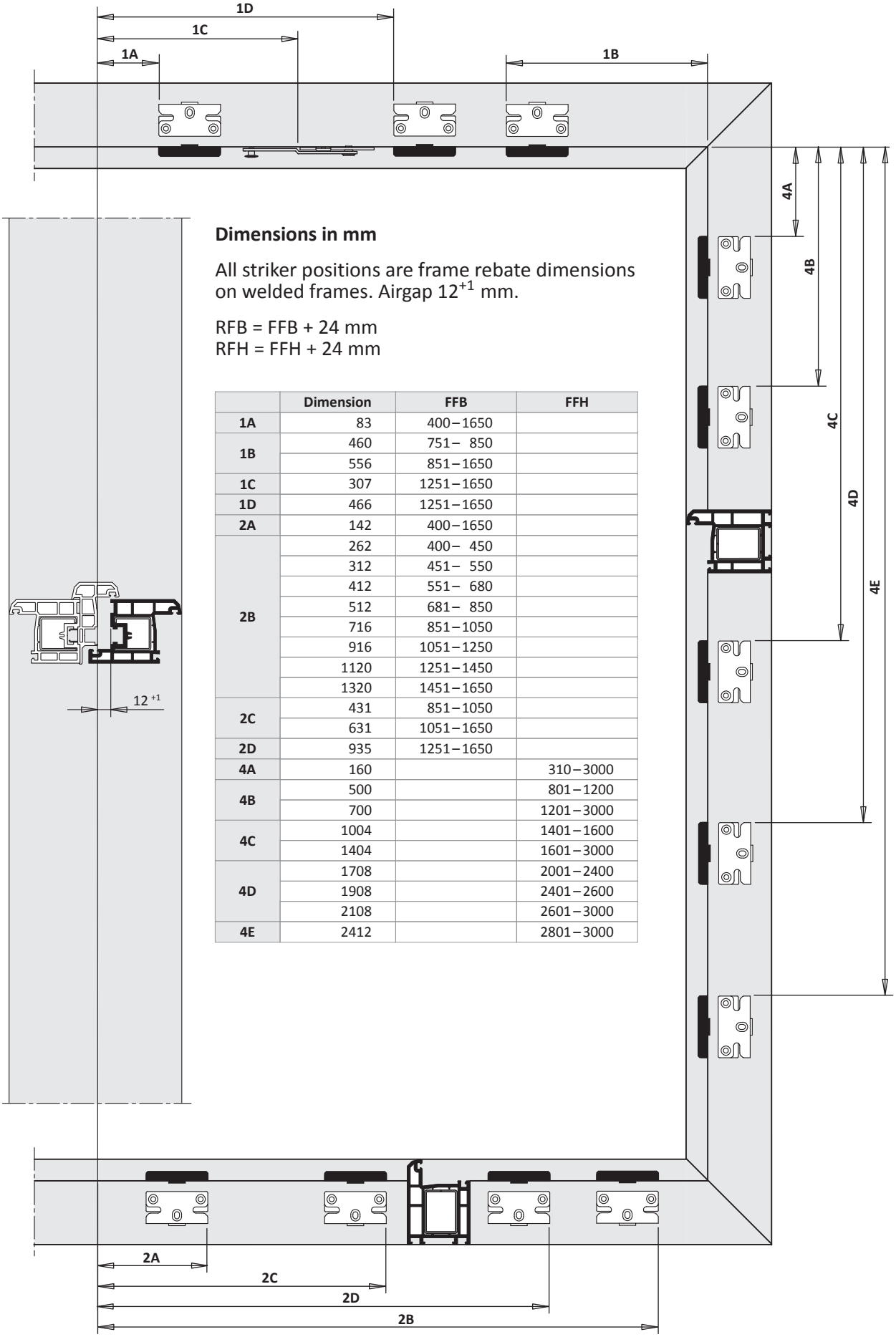


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	460	751– 850	
	556	851–1450	
1C	252	1251–1450	
2A	130	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1108	1251–1450	
2C	419	851–1050	
	619	1051–1450	
2D	923	1251–1450	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

8

Bottom: Inliner

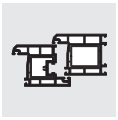
1-sash square tilt-turn	H48.TAFKFM2S001EN	9 - 3
2-sash square tilt-turn/turn DS 16	H48.TAFKFM2S002EN	9 - 9
2-sash square tilt-turn/turn DS BAN	H48.TAFKFM2S013EN	9 - 17
Tilt before turn (TBT)		
1-sash square tilt before turn (TBT)	H48.TAFKFM2S005EN	9 - 25
Locking-points distance 700		
1-sash square tilt-turn	H48.TAFKFM2S301EN	9 - 31
2-sash square tilt-turn/turn DS 16	H48.TAFKFM2S302EN	9 - 37

Bottom: Double cam SB R-RS

1-sash square tilt-turn	H48.TAFKFM2S401EN	9 - 47
2-sash square tilt-turn/turn DS 16	H48.TAFKFM2S402EN	9 - 53
Locking-points distance 700		
1-sash square tilt-turn	H48.TAFKFM2S305EN	9 - 61
2-sash square tilt-turn/turn DS 16	H48.TAFKFM2S306EN	9 - 67

TITAN AF

Installation instructions

RC2
ECO

1-sash square tilt-turn

PVC

RC2 ECO

centre handle pos. (variable)

Hinge side TITAN

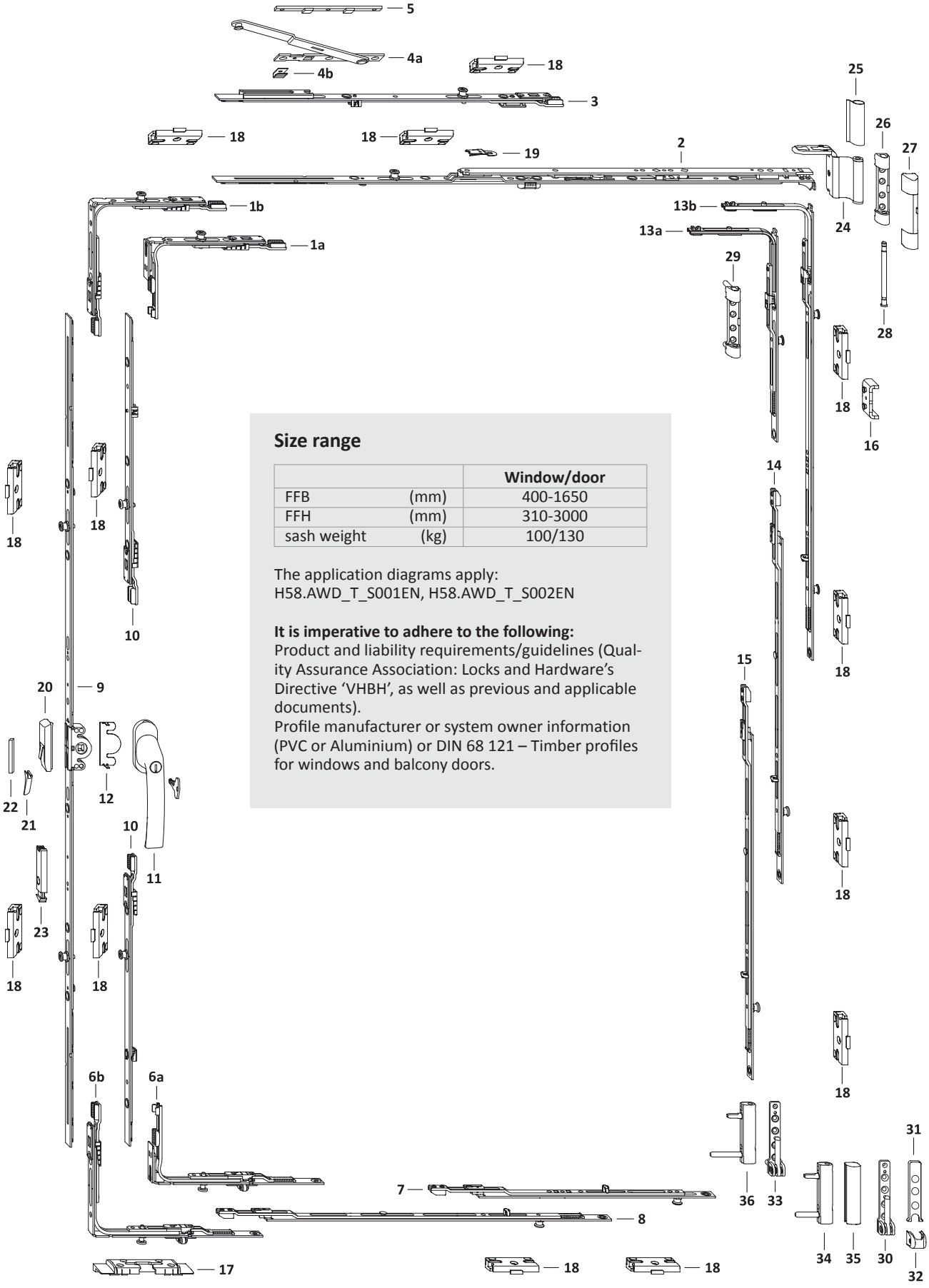
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GM Hinge side TITAN

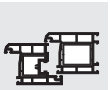


Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

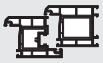



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							17	18
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	461–3000			1
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	400– 850	310– 460		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	461–3000		1	
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
9	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	310– 460	225– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
11	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000			
12	anti-drill guard E	TGBS0010- ...	1		310–3000			
13a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1
13b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
16	anti-lift device	Ref. PDB, TFAH	1		310–3000			
17	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
18	striker plate S-RS	Ref. PDB, TRSK						
on request								
19	tilt restrictor ..	TFKB0010- ...	1		310– 800			
20	mishandling device	TFBS0010- ...	1					
21	pressure piece	Ref. PDB, TFFD	1					
22	stop	Ref. PDB, FRZF01	1					
23	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

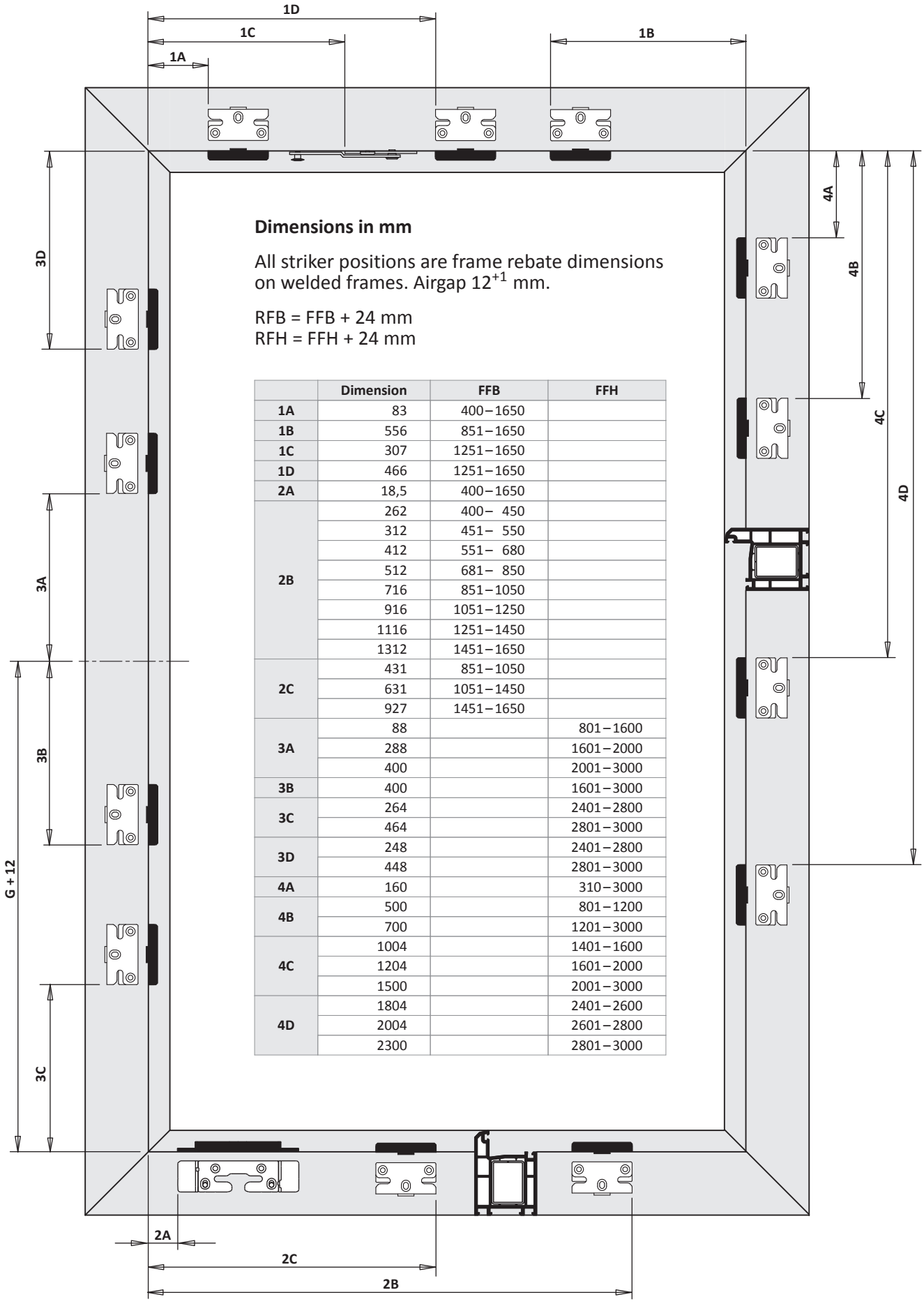
List of fittings

1-sash square tilt-turn
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
24	stay hinge DH	Ref. PDB, TBWB61			1	1
25	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
26	top hinge 100kg	Ref. PDB, TBSL61			1	
27	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
28	top hinge pin Poly	TBSB6020-1 ...			1	1
29	top hinge 130kg	Ref. PDB, TBSL62				1
30	bottom hinge 100kg	Ref. PDB, TBEL01			1	
31	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
32	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
33	bottom hinge 130kg	Ref. PDB, TBEL02				1
34	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
35	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
36	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

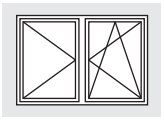
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

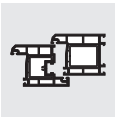
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	88		801–1600
	288		1601–2000
	400		2001–3000
3B	400		1601–3000
3C	264		2401–2800
	464		2801–3000
3D	248		2401–2800
	448		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





RC2
ECO

2-sash square tilt-turn/turn DS 16

PVC

RC2 ECO

centre handle pos. (variable)

Hinge side TITAN

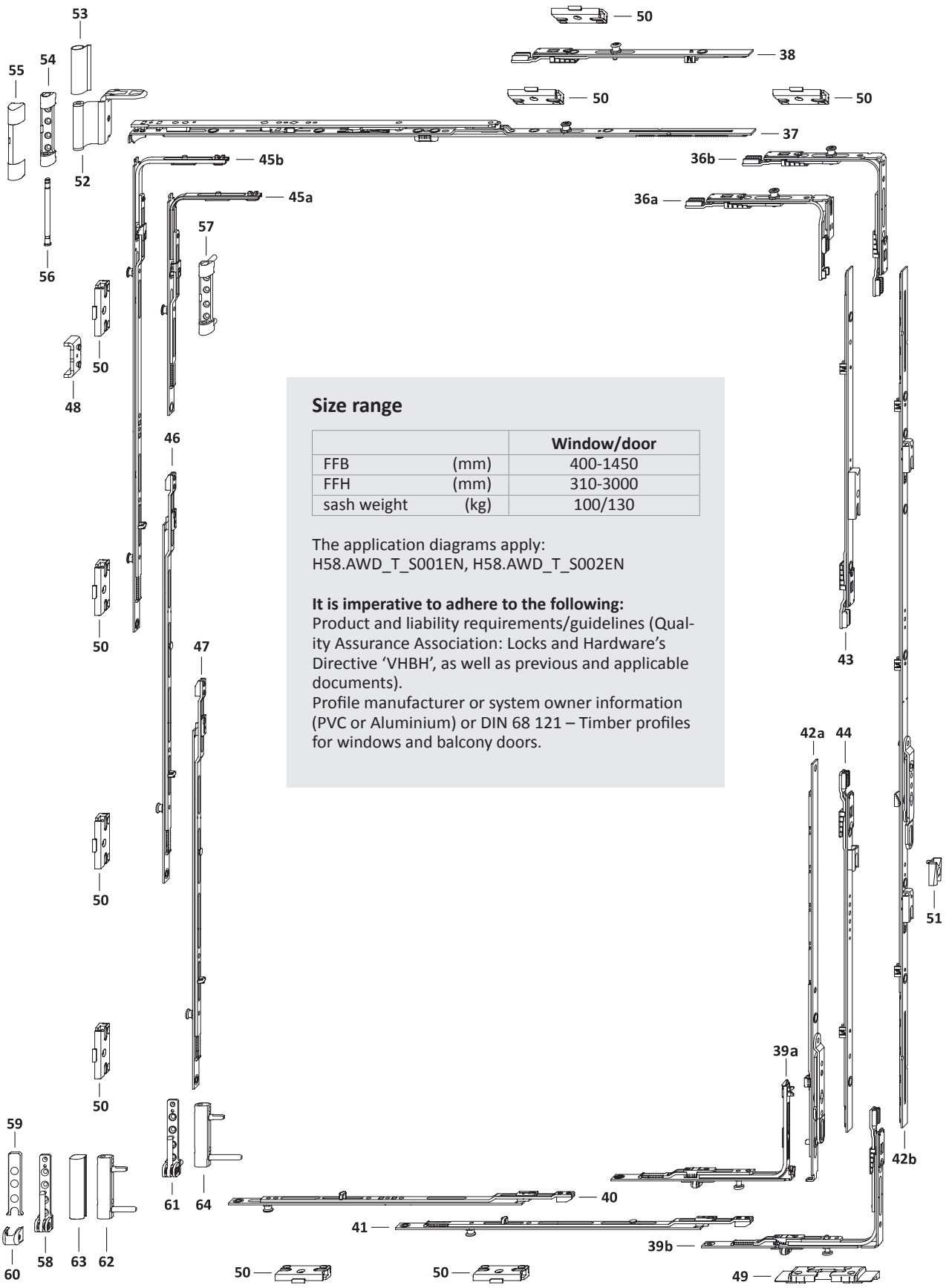
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

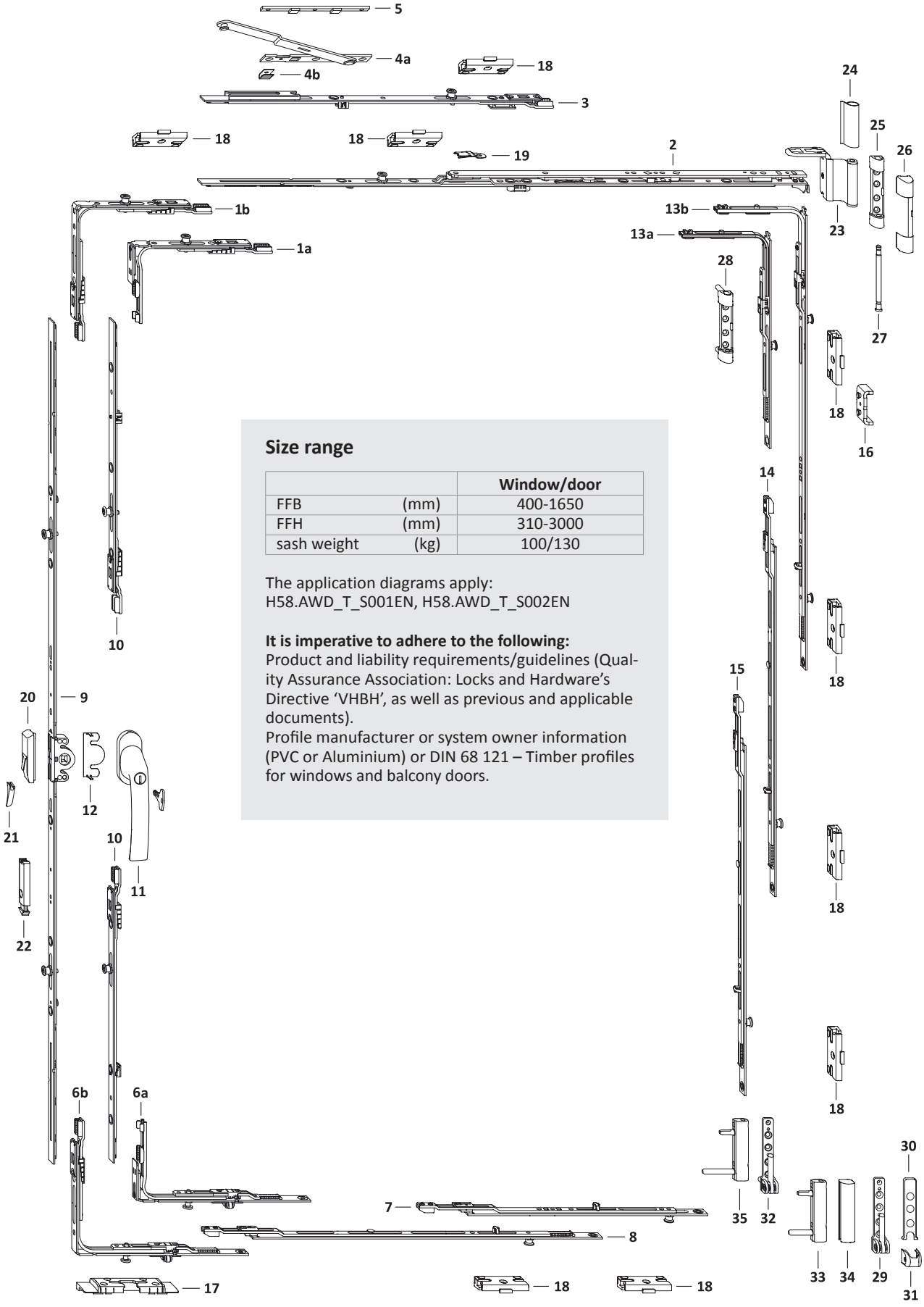


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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Size range

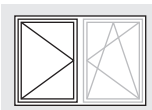
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

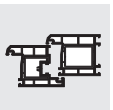
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

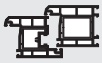
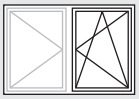
2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	49	50
36a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460			1
36b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1450	461–3000			1
37	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1
38	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
39a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1450	461– 800		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 460		1	
39b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1450	801–3000		1	
40	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1
41	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
42a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400– 850	310– 460	155– 230		
	sec.sash gear 16 sz 30	TGKS0010- ...			461– 600	230– 300		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300– 400		
42b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801–1200	400– 600		
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201–1600	600– 800		
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000		
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001–3000	1000–1500		
43	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
44	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800			
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000			
45a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1
45b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
46	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
47	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
48	anti-lift device	Ref. PDB, TFAH	1		310–3000			
49	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
50	striker plate S-RS	Ref. PDB, TRSK						
on request								
51	striker snapper AF A0767	TRST0100- ...	1		1601–3000			

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
52	stay hinge DH	Ref. PDB, TBWB61			1	1
53	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
54	top hinge 100kg	Ref. PDB, TBSL61			1	
55	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
56	top hinge pin Poly	TBSB6020-1 ...			1	1
57	top hinge 130kg	Ref. PDB, TBSL62				1
58	bottom hinge 100kg	Ref. PDB, TBEL01			1	
59	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
60	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
61	bottom hinge 130kg	Ref. PDB, TBEL02				1
62	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
63	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
64	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

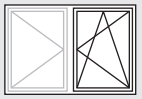
TITAN AF

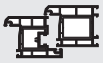
RC2 ECO

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							17	18
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	461–3000			1
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	400– 850	310– 460		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	461–3000		1	
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
9	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	310– 460	155– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
11	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000			
12	anti-drill guard E	TGBS0010- ...	1		310–3000			
13a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1
13b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
16	anti-lift device	Ref. PDB, TFAH	1		310–3000			
17	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
18	striker plate S-RS	Ref. PDB, TRSK						
on request								
19	tilt restrictor ..	TFKB0010- ...	1		310– 800			
20	mishandling device	TFBS0010- ...	1		601–3000			
21	pressure piece	Ref. PDB, TFFD	1		601–3000			
22	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

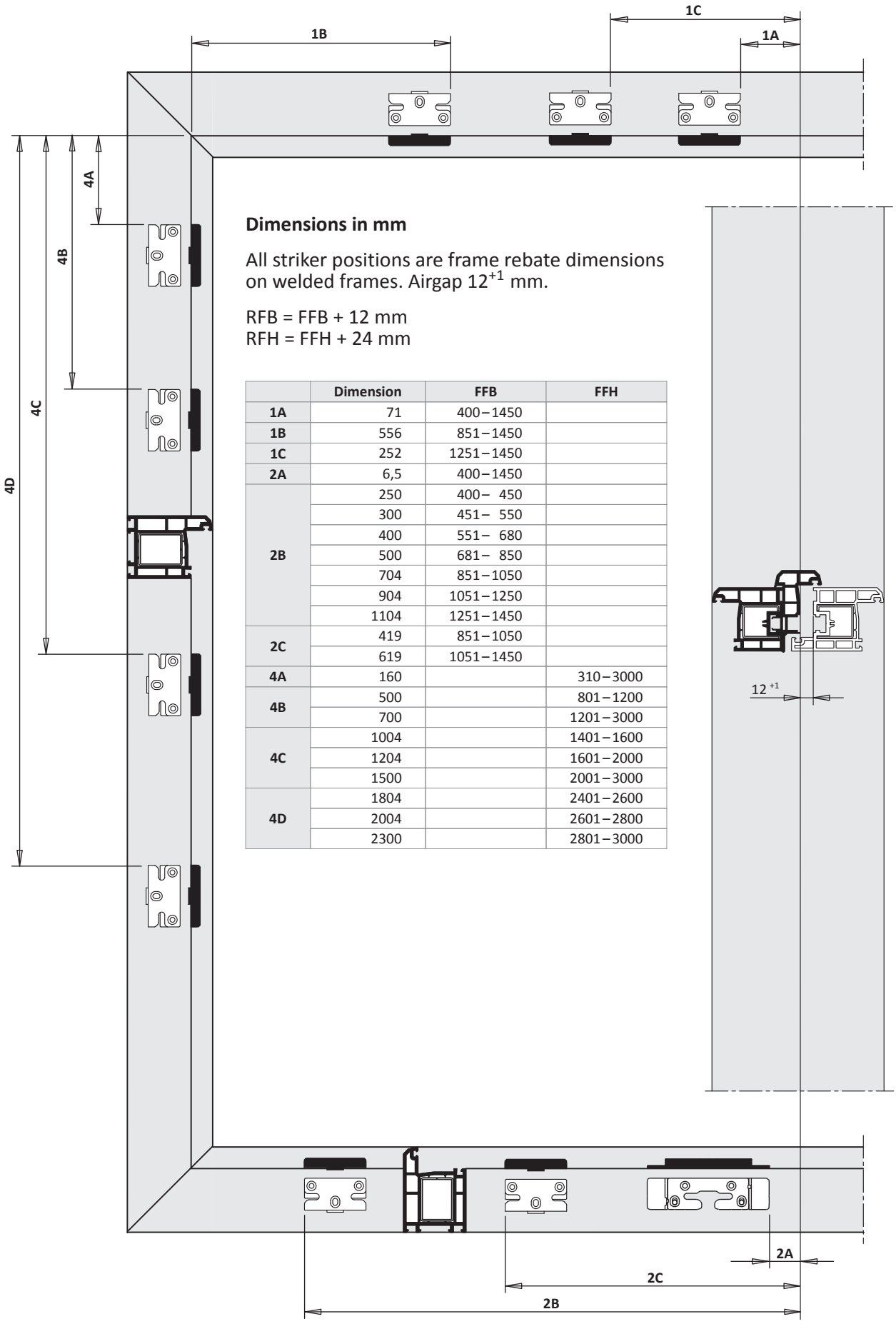
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
23	stay hinge DH	Ref. PDB, TBWB61			1	1
24	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
25	top hinge 100kg	Ref. PDB, TBSL61			1	
26	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
27	top hinge pin Poly	TBSB6020-1 ...			1	1
28	top hinge 130kg	Ref. PDB, TBSL62				1
29	bottom hinge 100kg	Ref. PDB, TBEL01			1	
30	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
31	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
32	bottom hinge 130kg	Ref. PDB, TBEL02				1
33	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
34	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
35	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

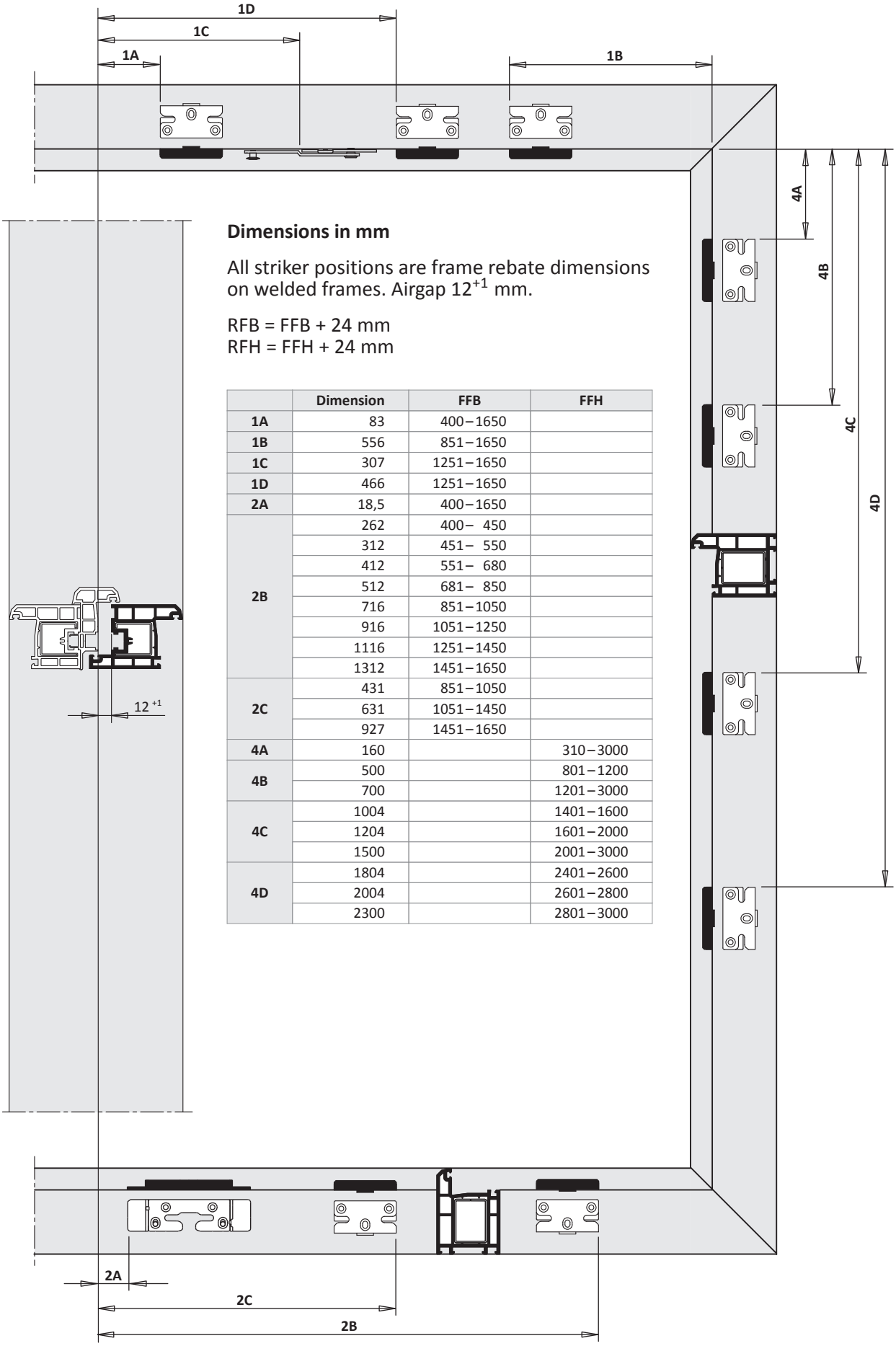
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	6,5	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1104	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN



Dimensions in mm

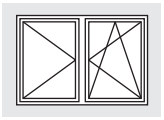
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



RC2
ECO

2-sash square tilt-turn/turn DS 16 fitting groove

PVC

RC2 ECO

centre handle pos. (variable)

Hinge side TITAN

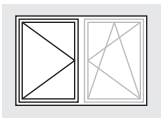
surface TS

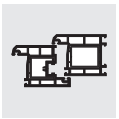
backset 15 mm

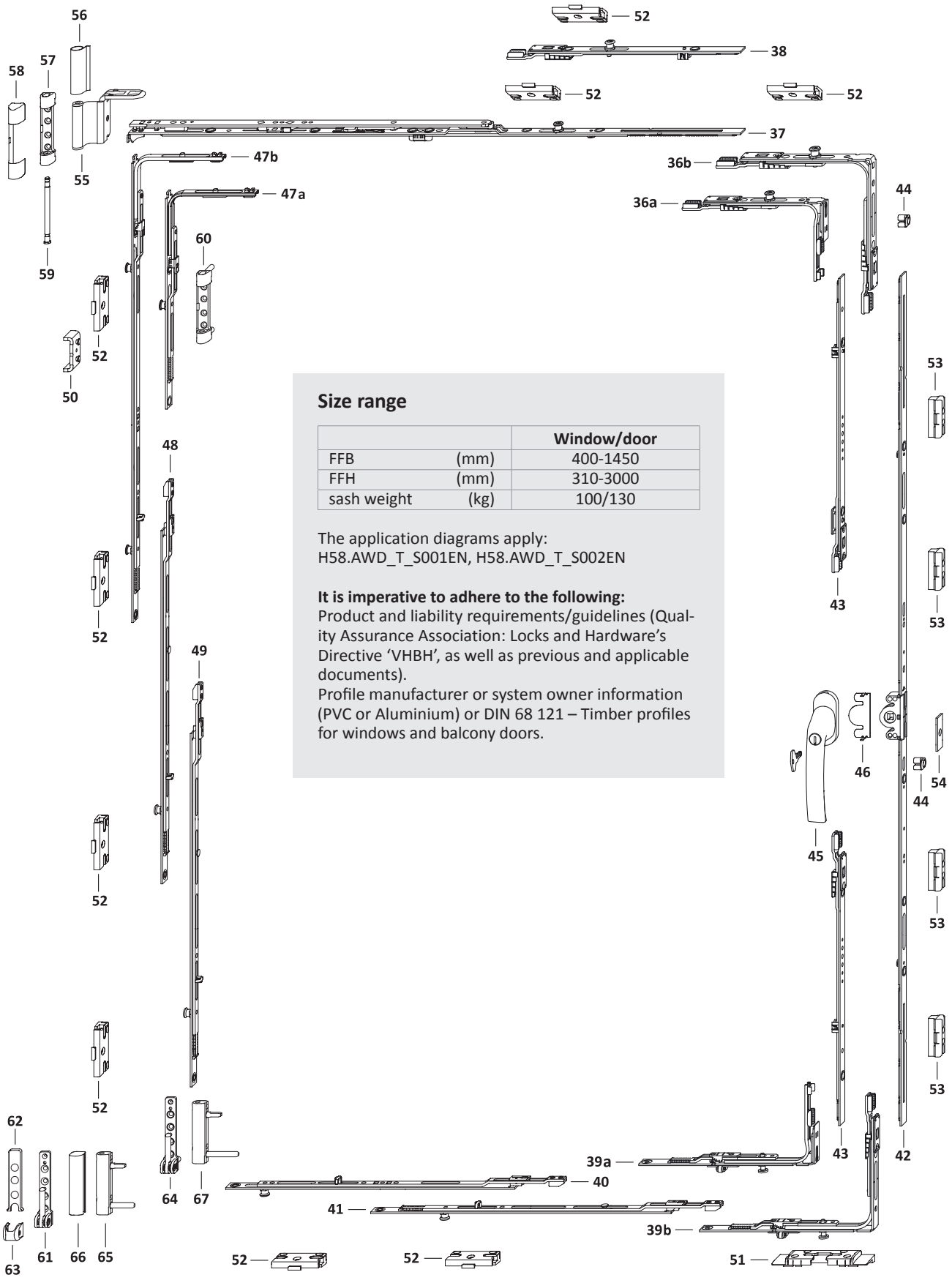
Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN





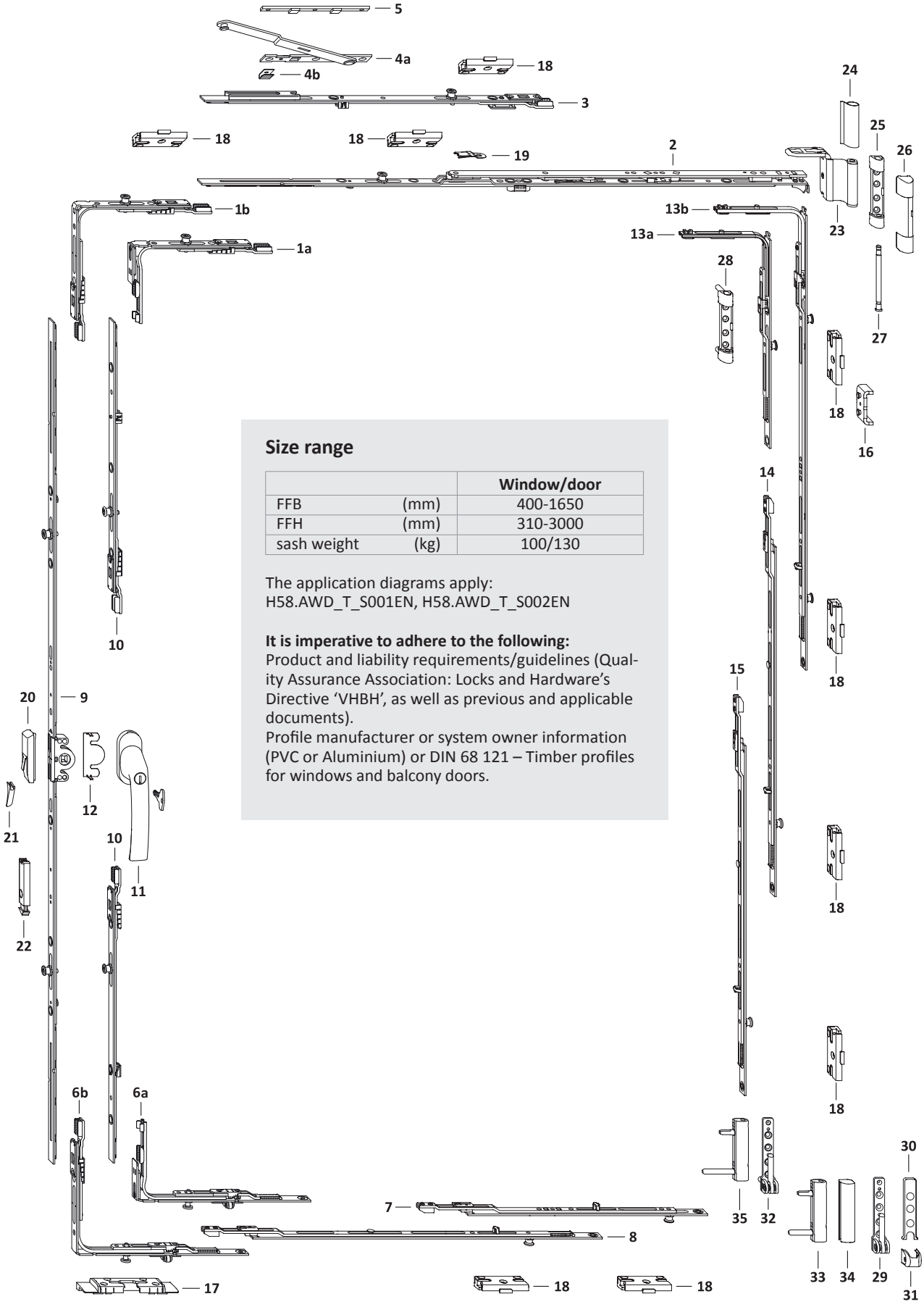


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

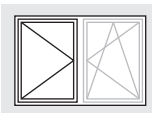
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

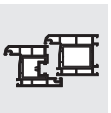
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

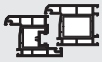
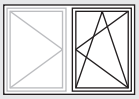
2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	51	52	53
36a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460			1	
36b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1450	461–3000			1	
37	stay AF sz 0	TSKK2000- ...	1	400– 450					
	stay AF sz 1	TSKK2010- ...		451– 680					
	stay AF sz 2	TSKK2020- ...		681– 850					
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1	
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1	
38	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1	
39a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	400– 850	310– 460		1		
39b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1450	461–3000		1		
40	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1	
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1	
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1	
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1	
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1	
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1	
41	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1	
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1	
42	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	310– 460	155– 230			
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300			
	gear 15 AF sz 60	TGMK4020- ...			601–1000	300– 500			
	gear 15 AF sz 80 1RS	TGMK9080- ...			1001–1200	500– 600			1
	gear 15 AF sz 120 1RS	TGMK9090- ...			1201–1600	600– 800			1
	gear 15 AF sz 160 2RS 70	TGMK9120- ...			1601–2000	800–1000			2
	gear 15 AF sz 200 2RS	TGMK9110- ...			2001–3000	1000–1500			2
43	linkage KK/AF sz 1 1RS	TZKS1040- ...	2		2401–2800				2
	linkage KK/AF sz 2 1RS	TZKS1050- ...			2801–3000				2
44	travel restrictor	TFHB0010- ...	1		310–3000				
45	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000				
46	anti-drill guard E	TGBS0010- ...	1		310–3000				
47a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1	
47b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2	
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2	
48	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1	
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1	
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1	
49	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1	
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1	
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1	
50	anti-lift device	Ref. PDB, TFAH	1		310–3000				
51	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
52	striker plate S-RS	Ref. PDB, TRSK							
53	striker plate S-RS A2000	TRSK0700- ...							
on request									
54	stop 2,2mm	710937	1		601–3000				

Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
55	stay hinge DH	Ref. PDB, TBWB61			1	1
56	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
57	top hinge 100kg	Ref. PDB, TBSL61			1	
58	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
59	top hinge pin Poly	TBSB6020-1 ...			1	1
60	top hinge 130kg	Ref. PDB, TBSL62				1
61	bottom hinge 100kg	Ref. PDB, TBEL01			1	
62	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
63	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
64	bottom hinge 130kg	Ref. PDB, TBEL02				1
65	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
66	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
67	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN

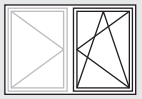
TITAN AF

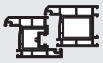
RC2 ECO

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							17	18
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	461–3000			1
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	400– 850	310– 460		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	461–3000		1	
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
9	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	310– 460	155– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
11	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000			
12	anti-drill guard E	TGBS0010- ...	1		310–3000			
13a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1
13b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
16	anti-lift device	Ref. PDB, TFAH	1		310–3000			
17	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
18	striker plate S-RS	Ref. PDB, TRSK						
on request								
19	tilt restrictor ..	TFKB0010- ...	1		310– 800			
20	mishandling device	TFBS0010- ...	1		601–3000			
21	pressure piece	Ref. PDB, TFFD	1		601–3000			
22	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

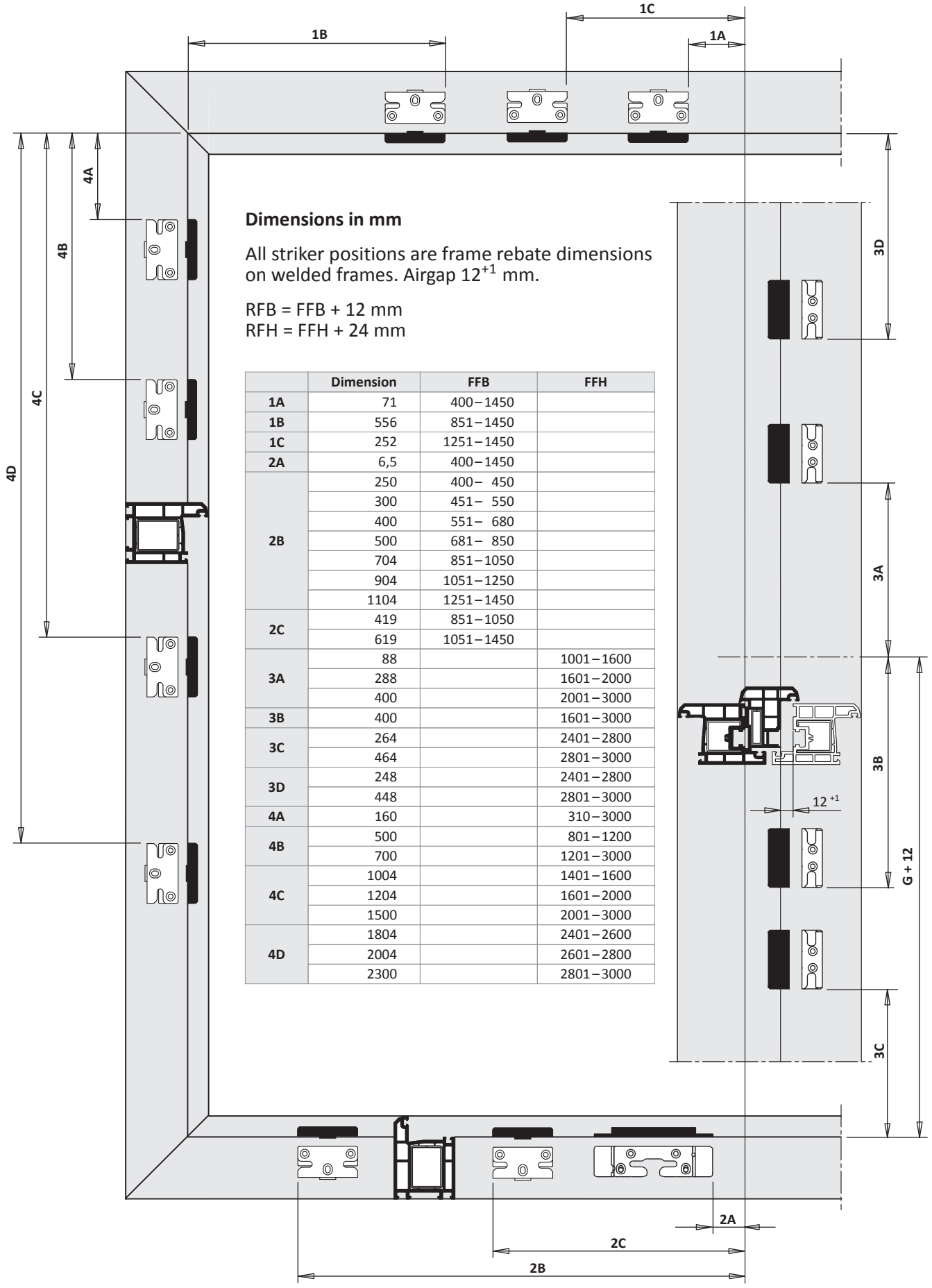
List of fittings main sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
23	stay hinge DH	Ref. PDB, TBWB61			1	1
24	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
25	top hinge 100kg	Ref. PDB, TBSL61			1	
26	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
27	top hinge pin Poly	TBSB6020-1 ...			1	1
28	top hinge 130kg	Ref. PDB, TBSL62				1
29	bottom hinge 100kg	Ref. PDB, TBEL01			1	
30	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
31	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
32	bottom hinge 130kg	Ref. PDB, TBEL02				1
33	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
34	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
35	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

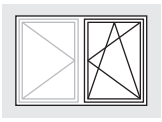
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

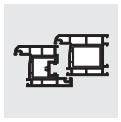
RFB = FFB + 12 mm
RFH = FFH + 24 mm

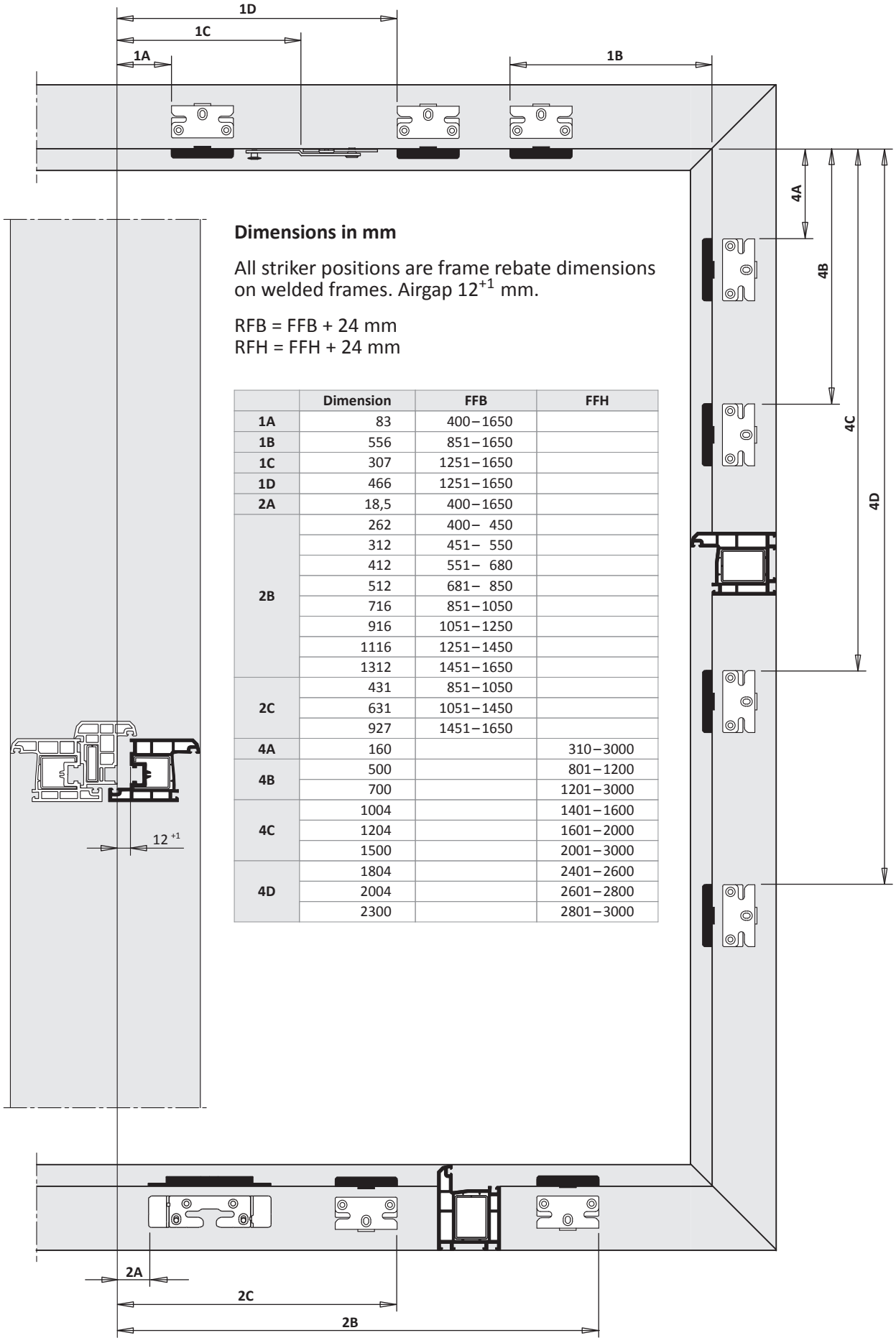
	Dimension	FFB	FFH
1A	71	400–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	6,5	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1104	1251–1450	
2C	419	851–1050	
	619	1051–1450	
3A	88		1001–1600
	288		1601–2000
	400		2001–3000
3B	400		1601–3000
3C	264		2401–2800
	464		2801–3000
3D	248		2401–2800
	448		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16 fitting groove
PVC GM Hinge side TITAN







Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

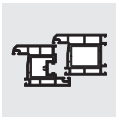
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





RC2
ECO

1-sash square tilt before turn (TBT)

PVC

RC2 ECO

centre handle pos. (variable)

Hinge side TITAN

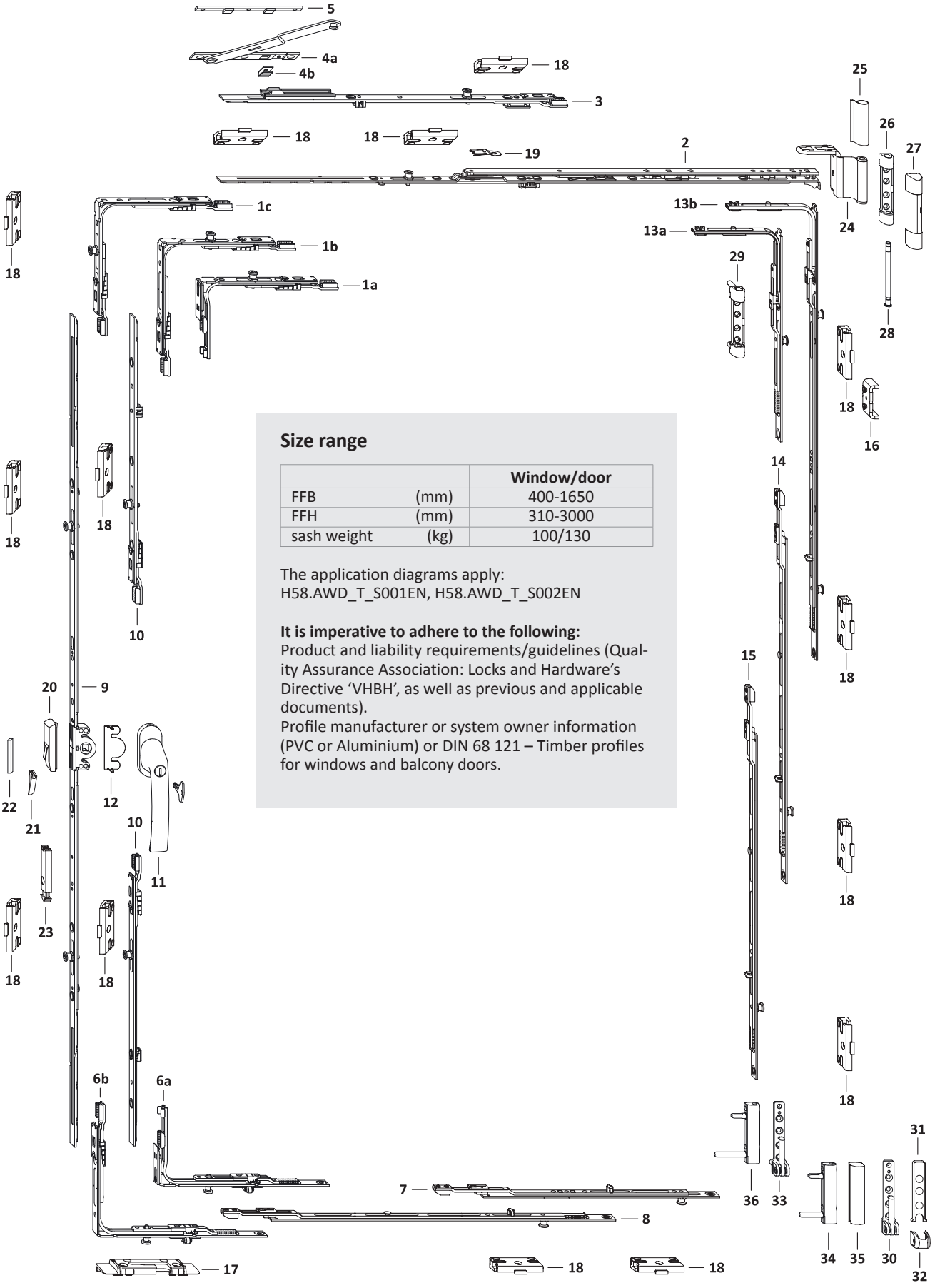
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt before turn (TBT)
PVC GM Hinge side TITAN

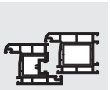
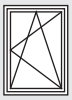


Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

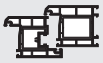



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							17	18
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1250	461–3000			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	1251–1650	461–3000			1
2	stay AF TBT sz 0	TSKT2000- ...	1	400– 450				
	stay AF TBT sz 1	TSKT2010- ...		451– 680				
	stay AF TBT sz 2 1RS	TSKT2120- ...		681– 850				
	stay AF TBT sz 3 1RS	TSKT2030- ...		851–1050				1
	stay AF TBT sz 4 1RS	TSKT2040- ...		1051–1250				1
	stay AF TBT sz 3 1RS	TSKT2030- ...		1251–1450				1
	stay AF TBT sz 4 1RS	TSKT2040- ...		1451–1650				1
3	linkage add. stay AF TBT RS	TZOT1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	400– 850	310– 460		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	461–3000		1	
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
9	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	310– 460	225– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
11	handle Globe TBT lockable	Ref.access. ZHGT	1		310–3000			
12	anti-drill guard E	TGBS0010- ...	1		310–3000			
13a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1
13b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
16	anti-lift device	Ref. PDB, TFAH	1		310–3000			
17	tilt lock bear. S-ES FH TBT	Ref. PDB, FRKB						
18	striker plate S-RS	Ref. PDB, TRSK						
on request								
19	tilt restrictor ..	TFKB0010- ...	1		310– 800			
20	mishandling device	TFBS0010- ...	1					
21	pressure piece	Ref. PDB, TFFD	1					
22	stop	Ref. PDB, FRZF01	1					
23	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

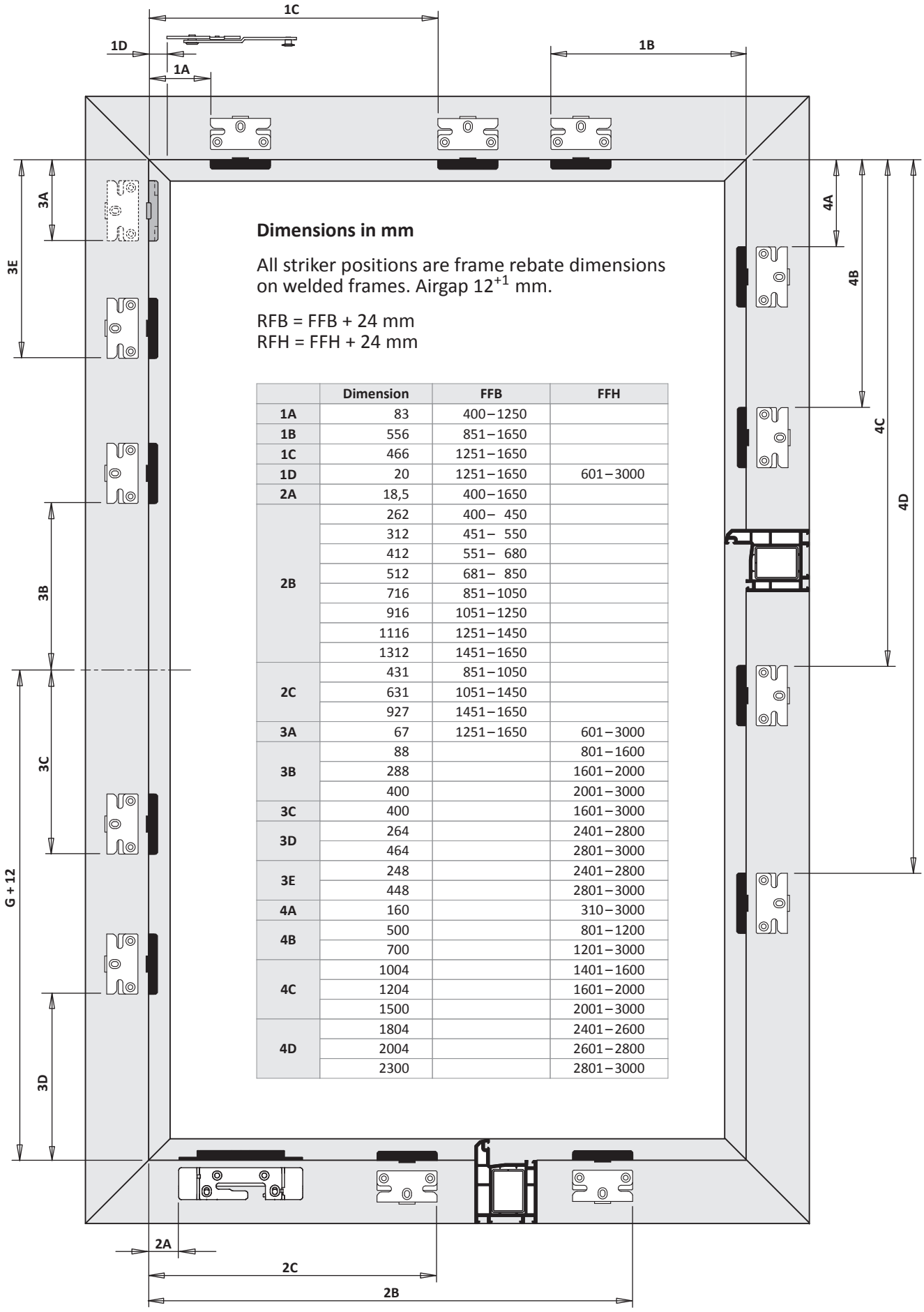
List of fittings

1-sash square tilt before turn (TBT)
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
24	stay hinge DH	Ref. PDB, TBWB61			1	1
25	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
26	top hinge 100kg	Ref. PDB, TBSL61			1	
27	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
28	top hinge pin Poly	TBSB6020-1 ...			1	1
29	top hinge 130kg	Ref. PDB, TBSL62				1
30	bottom hinge 100kg	Ref. PDB, TBEL01			1	
31	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
32	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
33	bottom hinge 130kg	Ref. PDB, TBEL02				1
34	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
35	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
36	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

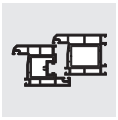
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1250	
1B	556	851–1650	
1C	466	1251–1650	
1D	20	1251–1650	601–3000
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	1251–1650	601–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions

RC2
ECO

1-sash square tilt-turn

PVC

RC2 ECO

centre handle pos. (variable)

Hinge side TITAN

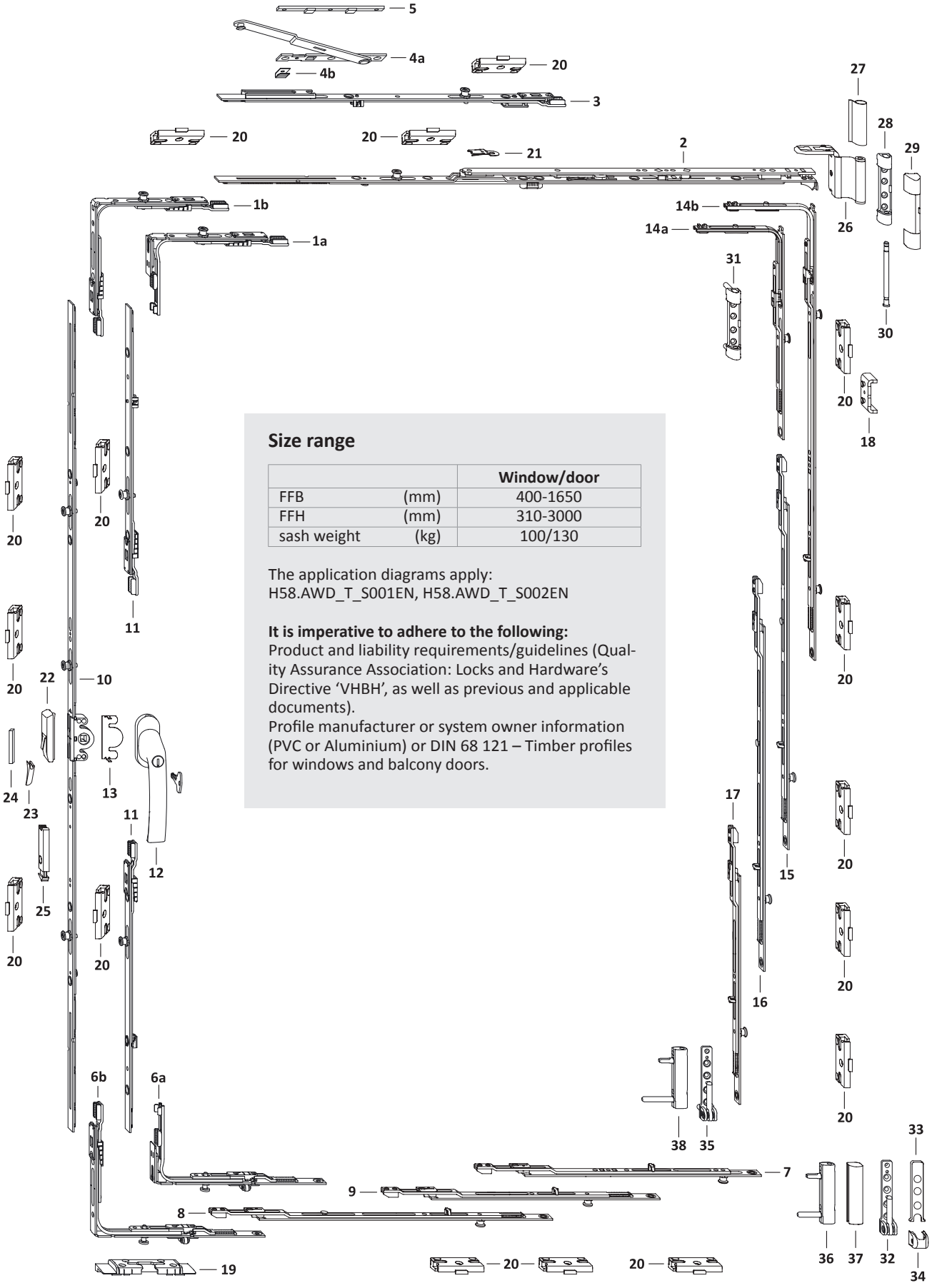
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GM Hinge side TITAN

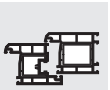
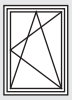


Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

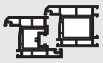



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							19	20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	461–3000			1
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	400– 850	310– 460		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	461–3000		1	
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
10	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	310– 460	225– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350		
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400		1
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800		2
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500		3
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000			
13	anti-drill guard E	TGBS0010- ...	1		310–3000			
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
18	anti-lift device	Ref. PDB, TFAH	1		310–3000			
19	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
20	striker plate S-RS	Ref. PDB, TRSK						
on request								
21	tilt restrictor ..	TFKB0010- ...	1		310– 800			
22	mishandling device	TFBS0010- ...	1					
23	pressure piece	Ref. PDB, TFFD	1					
24	stop	Ref. PDB, FRZF01	1					
25	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

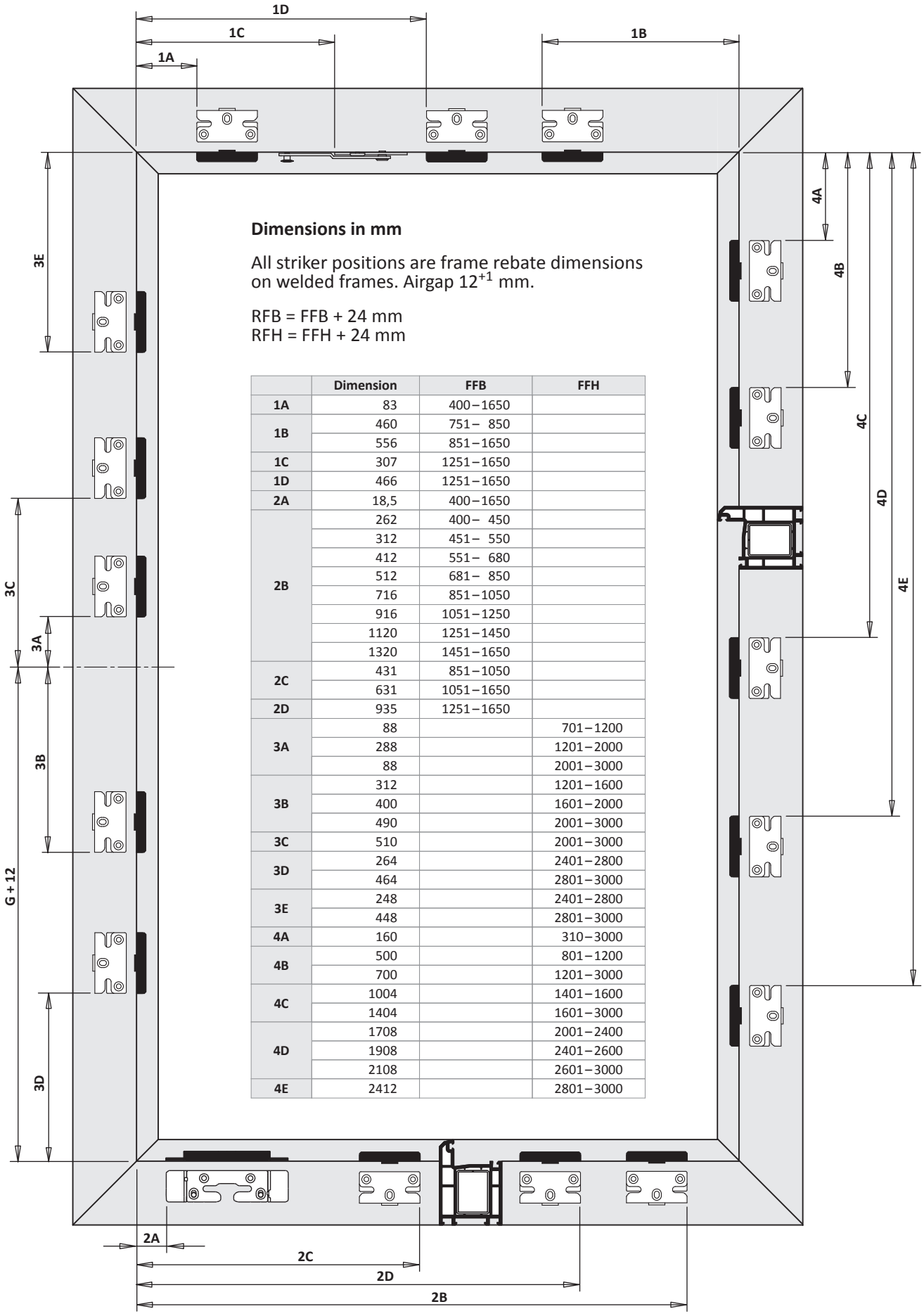
List of fittings

1-sash square tilt-turn
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
26	stay hinge DH	Ref. PDB, TBWB61			1	1
27	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
28	top hinge 100kg	Ref. PDB, TBSL61			1	
29	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
30	top hinge pin Poly	TBSB6020-1 ...			1	1
31	top hinge 130kg	Ref. PDB, TBSL62				1
32	bottom hinge 100kg	Ref. PDB, TBEL01			1	
33	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
34	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
35	bottom hinge 130kg	Ref. PDB, TBEL02				1
36	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
37	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
38	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

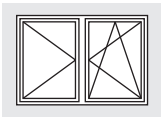
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
3A	88		701–1200
	288		1201–2000
	88		2001–3000
3B	312		1201–1600
	400		1601–2000
	490		2001–3000
3C	510		2001–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

TITAN AF

Installation instructions



RC2
ECO

2-sash square tilt-turn/turn DS 16

PVC

RC2 ECO

centre handle pos. (variable)

Hinge side TITAN

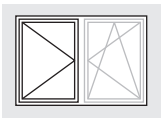
surface TS

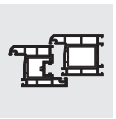
backset 15 mm

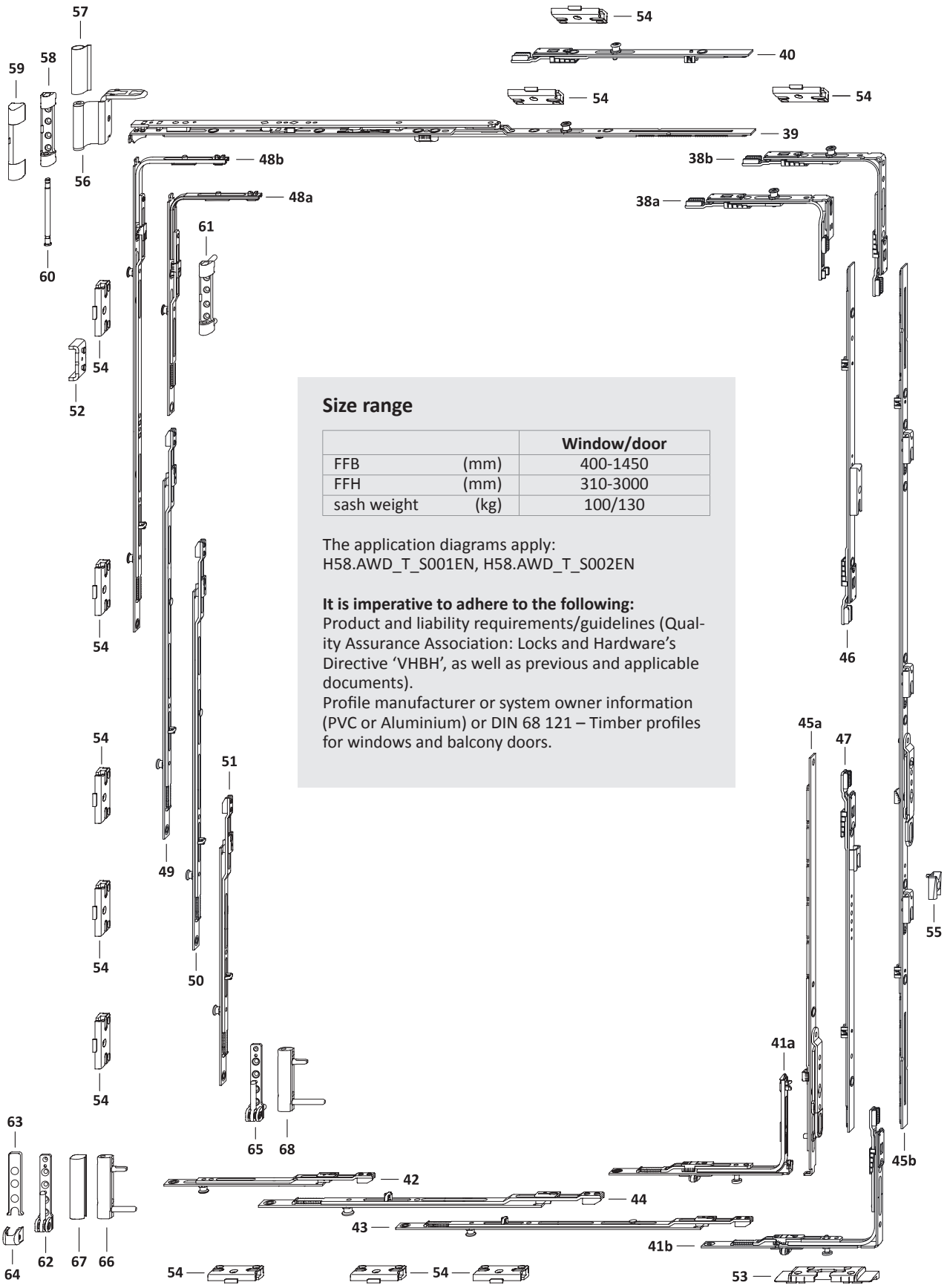
Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





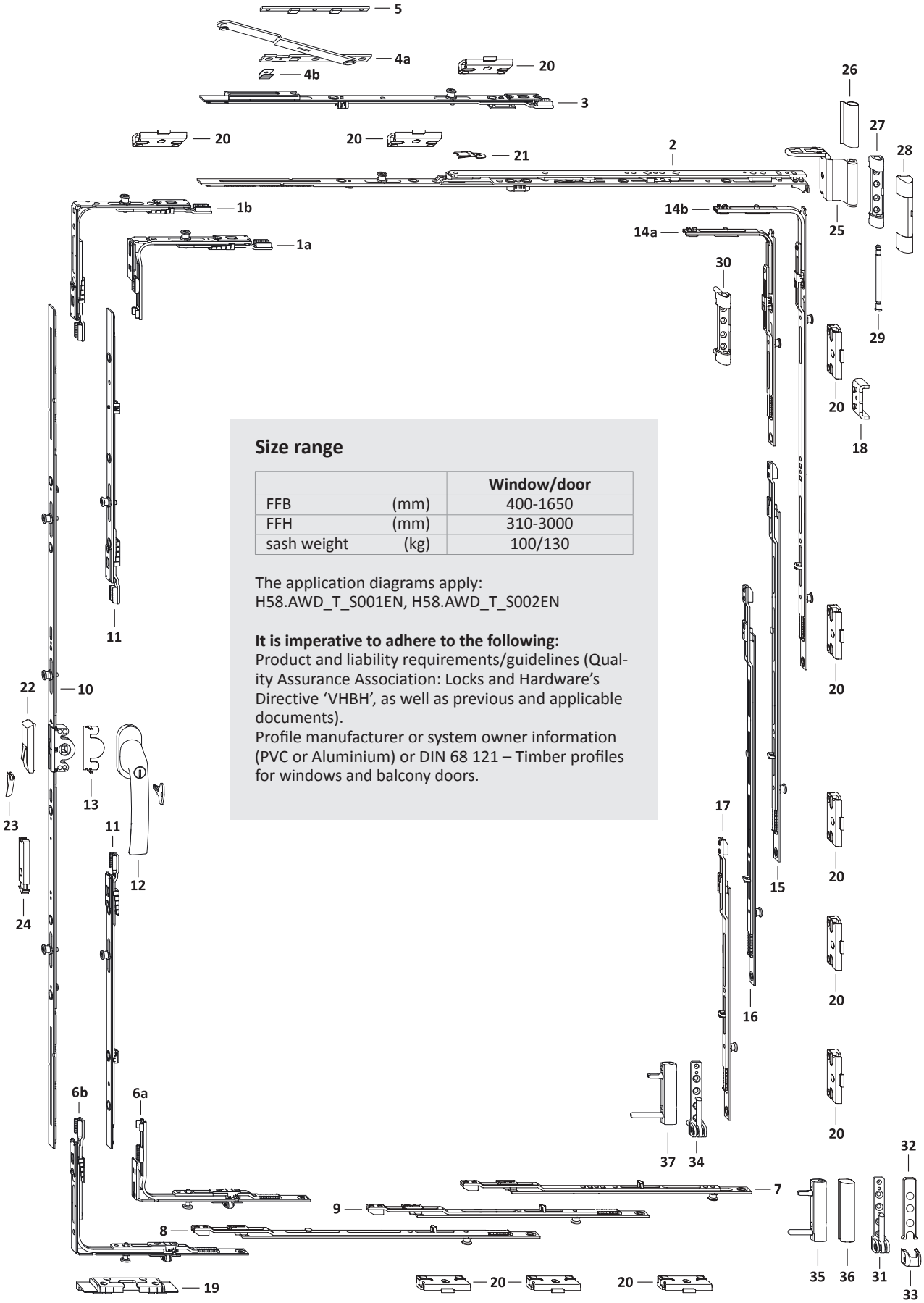


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

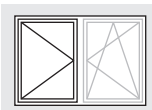
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

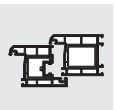
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN



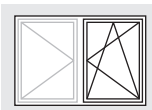


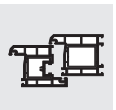
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	53	54
38a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460			1
38b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1450	461–3000			1
39	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450				1
40	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
41a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	400–1450	461– 700		1	
	locking part VSU/K FH+ 1S	TEVR1400- ...		400– 850	310– 460		1	
41b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1450	701–3000		1	
42	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450				1
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1450				1
45a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400– 850	310– 460	155– 230		
	sec.sash gear 16 sz 30	TGKS0010- ...			461– 600	230– 300		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300– 350		
45b	sec.sash gear 16 AF sz 70 1SB	TGMS4030- ...	1		701– 800	350– 400		
	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...			801–1200	400– 600		
	sec.sash gear 16 AF 120 2SB 70	TGMS4120- ...			1201–1600	600– 800		
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000		
	sec.sash gear 16 AF 200 3SB 70	TGMS4100- ...			2001–3000	1000–1500		
46	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
47	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800			
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000			
48a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1
48b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
49	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
50	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
51	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
52	anti-lift device	Ref. PDB, TFAH	1		310–3000			
53	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
54	striker plate S-RS	Ref. PDB, TRSK						
on request								
55	striker snapper AF A0767	TRST0100- ...	1		1601–3000			

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
56	stay hinge DH	Ref. PDB, TBWB61			1	1
57	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
58	top hinge 100kg	Ref. PDB, TBSL61			1	
59	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
60	top hinge pin Poly	TBSB6020-1 ...			1	1
61	top hinge 130kg	Ref. PDB, TBSL62				1
62	bottom hinge 100kg	Ref. PDB, TBEL01			1	
63	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
64	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
65	bottom hinge 130kg	Ref. PDB, TBEL02				1
66	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
67	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
68	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN



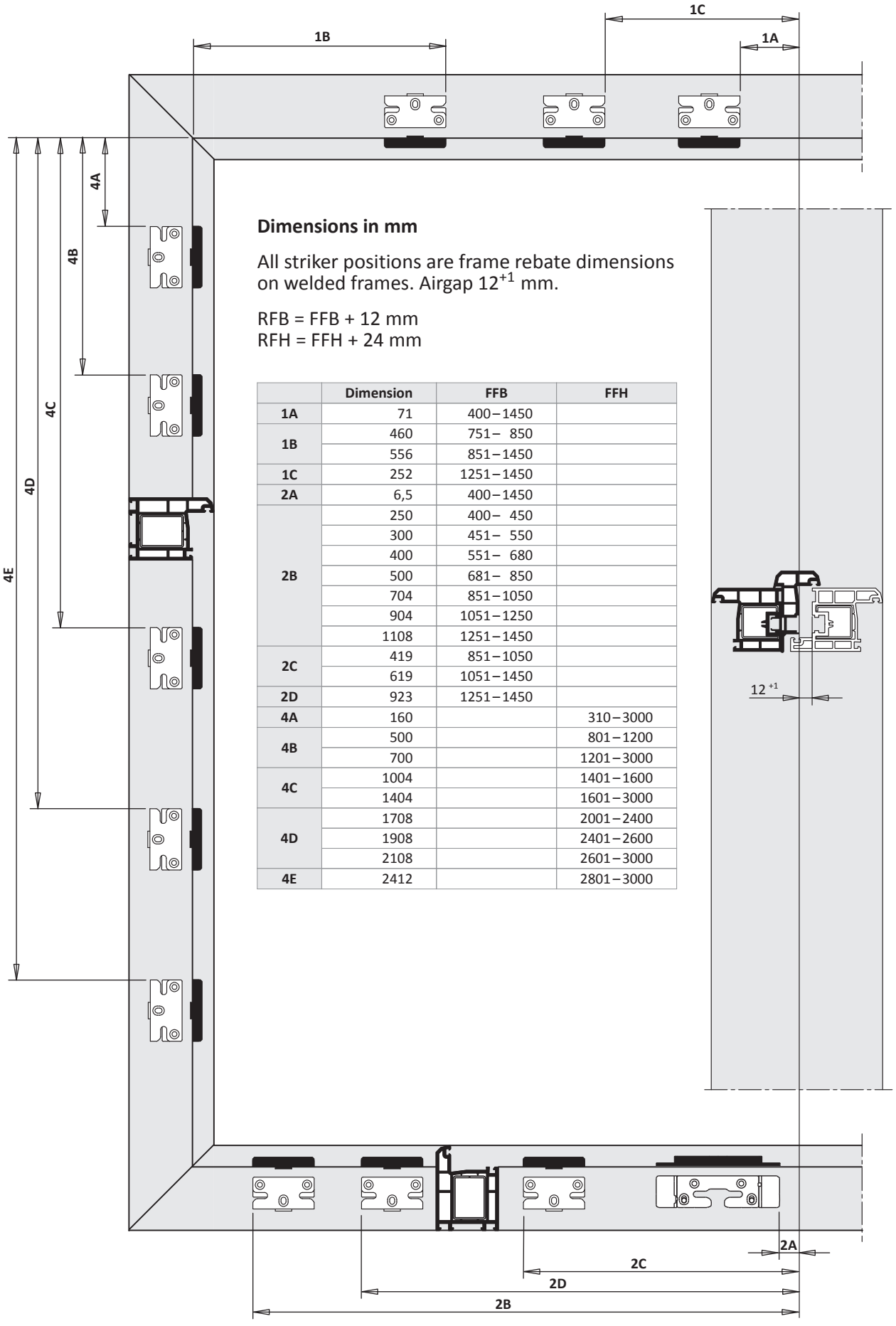


Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							19	20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	461–3000			1
2	stay AF sz 0	TSKK2000- ...	1	400– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 750				
	stay AF sz 2 1RS	TSKK2120- ...		751– 850				1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6a	corn.drive AF VSU/K+ nar.FH 1S	TEUL5090- ...	1	400– 850	310– 460		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	400–1650	461–3000		1	
7	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450				1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550				1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680				1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850				1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250				1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450				1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650				1
8	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
10	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	310– 460	155– 230		
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350		
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500		
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000			
13	anti-drill guard E	TGBS0010- ...	1		310–3000			
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800			1
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
18	anti-lift device	Ref. PDB, TFAH	1		310–3000			
19	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
20	striker plate S-RS	Ref. PDB, TRSK						
on request								
21	tilt restrictor ..	TFKB0010- ...	1		310– 800			
22	mishandling device	TFBS0010- ...	1					
23	pressure piece	Ref. PDB, TFFD	1					
24	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
25	stay hinge DH	Ref. PDB, TBWB61			1	1
26	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
27	top hinge 100kg	Ref. PDB, TBSL61			1	
28	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
29	top hinge pin Poly	TBSB6020-1 ...			1	1
30	top hinge 130kg	Ref. PDB, TBSL62				1
31	bottom hinge 100kg	Ref. PDB, TBEL01			1	
32	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
33	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
34	bottom hinge 130kg	Ref. PDB, TBEL02				1
35	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
36	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
37	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

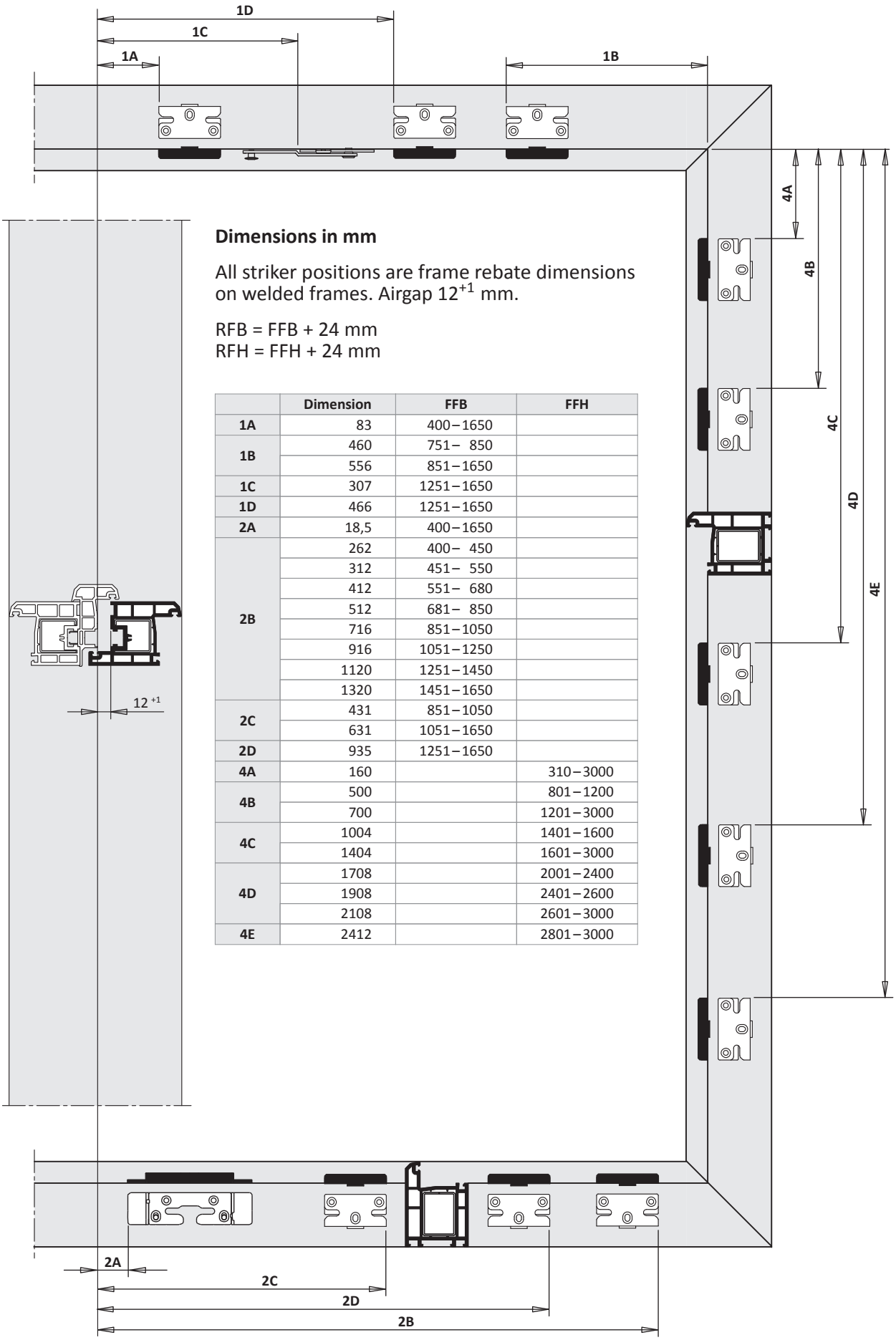


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	460	751– 850	
	556	851–1450	
1C	252	1251–1450	
2A	6,5	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1108	1251–1450	
2C	419	851–1050	
	619	1051–1450	
2D	923	1251–1450	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

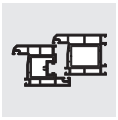
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

TITAN AF

Installation instructions





RC2
ECO

1-sash square tilt-turn

PVC

RC2 ECO

centre handle pos. (variable)

Hinge side TITAN

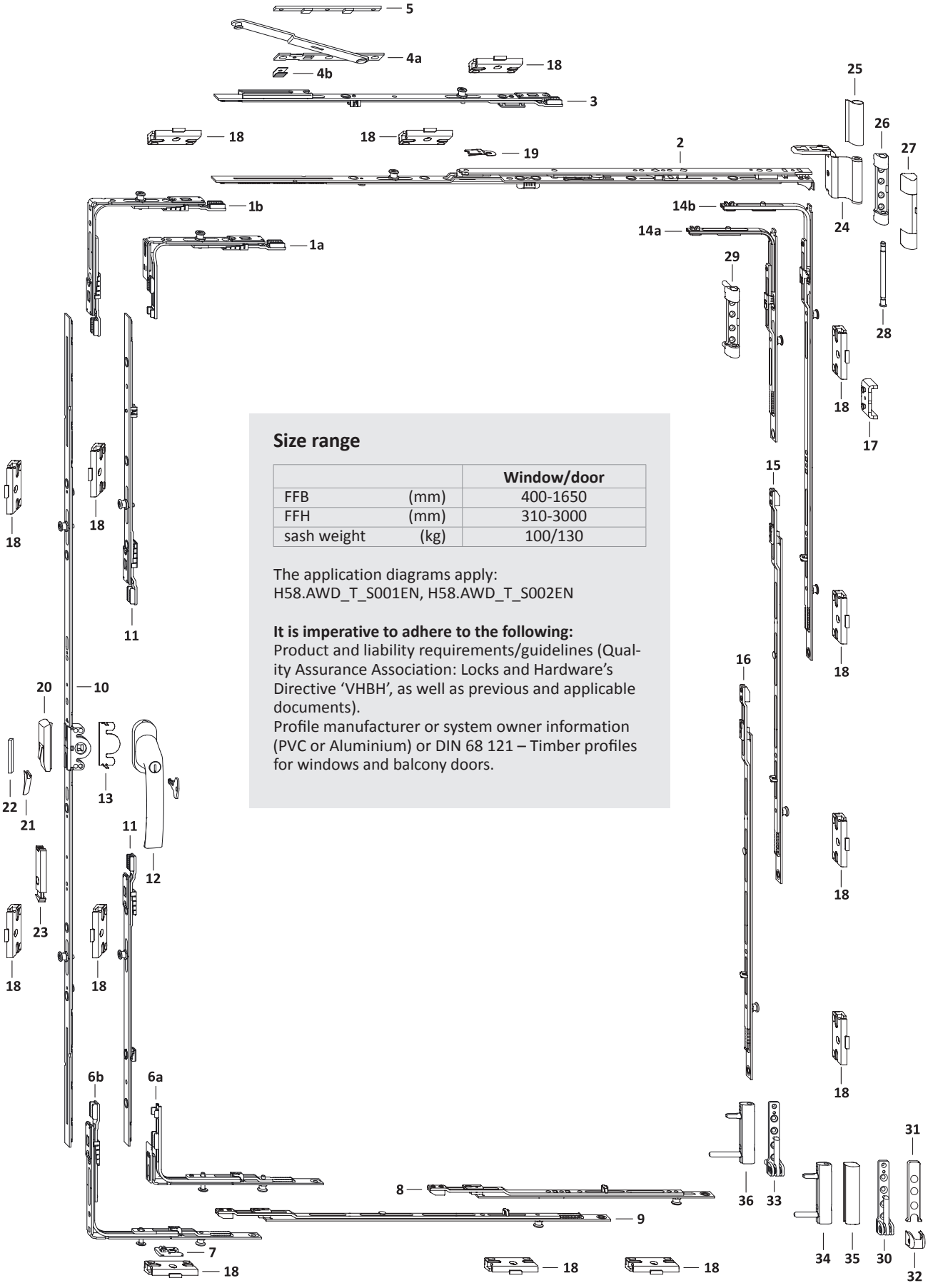
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GM Hinge side TITAN



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

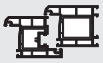
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Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							18
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460		1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	461–3000		1
2	stay AF sz 0	TSKK2000- ...	1	400– 450			
	stay AF sz 1	TSKK2010- ...		451– 680			
	stay AF sz 2	TSKK2020- ...		681– 850			
	stay AF sz 3 1RS	TSKK2030- ...		851–1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250			1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450			1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650			1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650			1
4	additional stay	Ref. PDB, TSZS	1	1251–1650			
5	packer Z	Ref. PDB, FRUP01	1	1251–1650			
6a	corn.drive AFVSU/K56+nar.1S1RS	TEUL5100- ...	1	400– 850	310– 460		1
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1650	461–3000		1
7	run up block AF 13 mm 13	TFFH0080- ...	1	400–1650			
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450			1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650			1
10	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	310– 460	225– 230	
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300	
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400	
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600	1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800	1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000	2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500	2
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800		2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000		2
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000		
13	anti-drill guard E	TGBS0010- ...	1		310–3000		
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800		1
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000		1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000		1
17	anti-lift device	Ref. PDB, TFAH	1		310–3000		
18	striker plate S-RS	Ref. PDB, TRSK					
			on request				
19	tilt restrictor ..	TFKB0010- ...	1		310– 800		
20	mishandling device	TFBS0010- ...	1				
21	pressure piece	Ref. PDB, TFFD	1				
22	stop	Ref. PDB, FRZF01	1				
23	snapper rh.	TFST0021- ...	1		1601–3000		
	snapper lh.	TFST0022- ...			1601–3000		

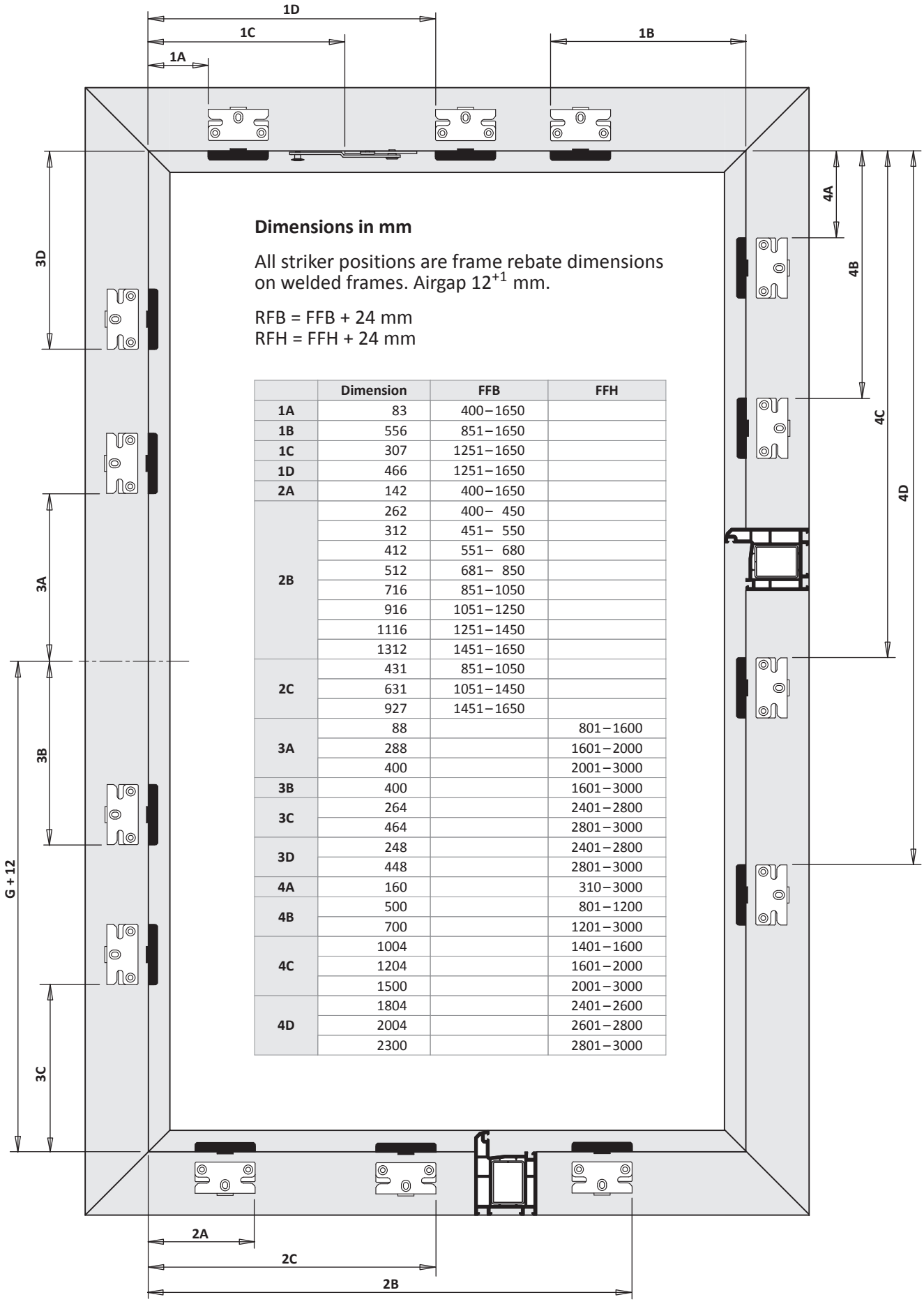
List of fittings

1-sash square tilt-turn
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
24	stay hinge DH	Ref. PDB, TBWB61			1	1
25	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
26	top hinge 100kg	Ref. PDB, TBSL61			1	
27	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
28	top hinge pin Poly	TBSB6020-1 ...			1	1
29	top hinge 130kg	Ref. PDB, TBSL62				1
30	bottom hinge 100kg	Ref. PDB, TBEL01			1	
31	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
32	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
33	bottom hinge 130kg	Ref. PDB, TBEL02				1
34	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
35	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
36	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

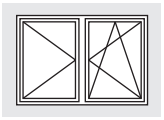
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	88		801–1600
	288		1601–2000
	400		2001–3000
3B	400		1601–3000
3C	264		2401–2800
	464		2801–3000
3D	248		2401–2800
	448		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



RC2
ECO

2-sash square tilt-turn/turn DS 16

PVC

RC2 ECO

centre handle pos. (variable)

Hinge side TITAN

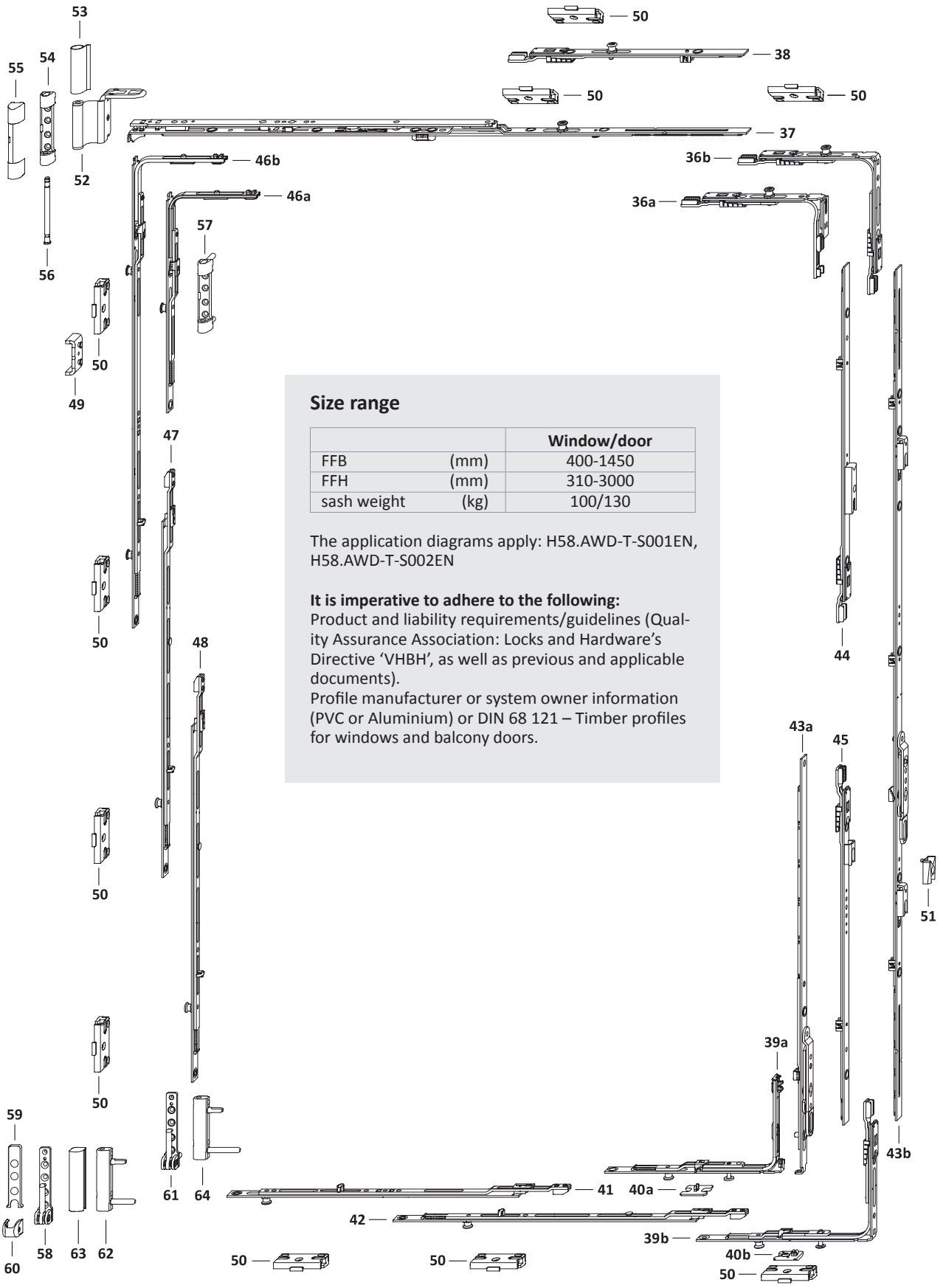
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

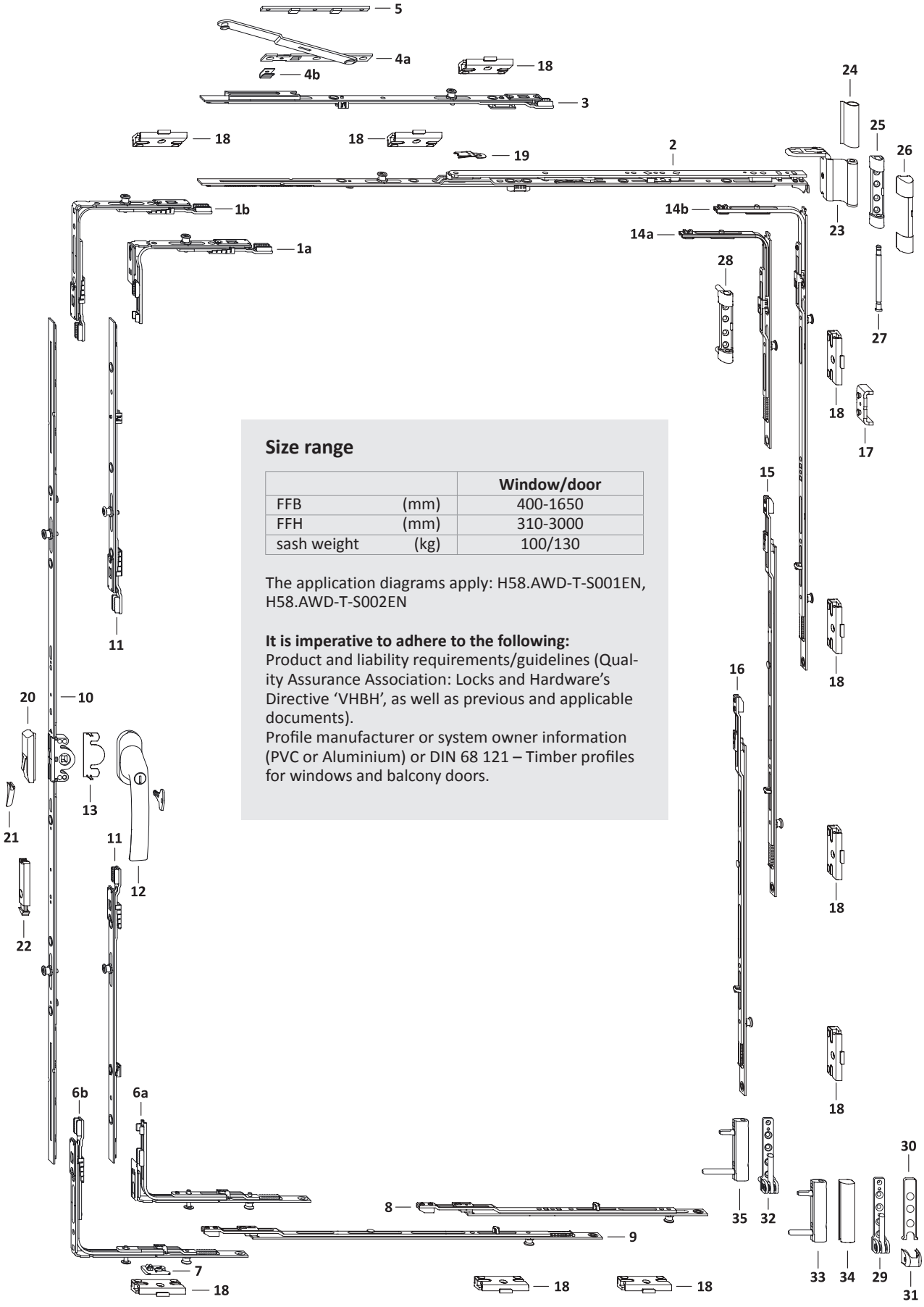


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply: H58.AWD-T-S001EN, H58.AWD-T-S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

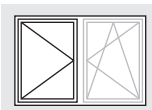
The application diagrams apply: H58.AWD-T-S001EN, H58.AWD-T-S002EN

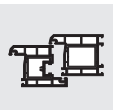
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

9

List of fittings slave sash

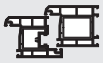
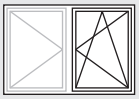
2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
						In the main sash	50
36a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400 – 850	310 – 460		1
36b	corn.drive VSO 1RS	TEUL4010- ...	1	400 – 1450	461 – 3000		1
37	stay AF sz 0	TSKK2000- ...	1	400 – 450			
	stay AF sz 1	TSKK2010- ...		451 – 680			
	stay AF sz 2	TSKK2020- ...		681 – 850			
	stay AF sz 3 1RS	TSKK2030- ...		851 – 1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051 – 1450			1
38	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251 – 1450			1
39a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400 – 1450	461 – 800		1
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		400 – 850	310 – 460		1
39b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400 – 1450	801 – 3000		1
40a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400 – 1450	461 – 800		
	run-up plate FH KRL56	Ref. PDB, TRAL01		400 – 850	310 – 460		
40b	run up plate AF 13 mm 13	TFFH0080- ...	1	400 – 1450	801 – 3000		
41	extension sz 1+ 1RS	TVSO0200- ...	1	400 – 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451 – 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551 – 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681 – 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851 – 1250			1
	extension sz 5+ 1RS	TVSL0350- ...		1251 – 1450			1
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450			1
43a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400 – 850	310 – 460	155 – 230	
	sec.sash gear 16 sz 30	TGKS0010- ...			461 – 600	230 – 300	
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601 – 800	300 – 400	
43b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801 – 1200	400 – 600	
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201 – 1600	600 – 800	
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601 – 2000	800 – 1000	
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001 – 3000	1000 – 1500	
44	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401 – 2800		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000		
45	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401 – 2800		
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801 – 3000		
46a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310 – 800		1
46b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2
47	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000		1
48	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000		1
49	anti-lift device	Ref. PDB, TFAH	1		310 – 3000		
50	striker plate S-RS	Ref. PDB, TRSK					
on request							
51	striker snapper AF A0767	TRST0100- ...	1		1601 – 3000		

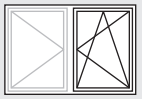
Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
52	stay hinge DH	Ref. PDB, TBWB61			1	1
53	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
54	top hinge 100kg	Ref. PDB, TBSL61			1	
55	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
56	top hinge pin Poly	TBSB6020-1 ...			1	1
57	top hinge 130kg	Ref. PDB, TBSL62				1
58	bottom hinge 100kg	Ref. PDB, TBEL01			1	
59	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
60	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
61	bottom hinge 130kg	Ref. PDB, TBEL02				1
62	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
63	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
64	corner hinge PVC130kg	Ref. PDB, TBEB63				1

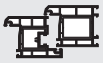



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							18
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460		1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	461–3000		1
2	stay AF sz 0	TSKK2000- ...	1	400– 450			
	stay AF sz 1	TSKK2010- ...		451– 680			
	stay AF sz 2	TSKK2020- ...		681– 850			
	stay AF sz 3 1RS	TSKK2030- ...		851–1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250			1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450			1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650			1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650			1
4	additional stay	Ref. PDB, TSZS	1	1251–1650			
5	packer Z	Ref. PDB, FRUP01	1	1251–1650			
6a	corn.drive AFVSU/K56+nar.1S1RS	TEUL5100- ...	1	400– 850	310– 460		1
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1650	461–3000		1
7	run up plate AF 13 mm 13	TFFH0080- ...	1	400–1650			
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1
	extension sz 5+ 1RS	TVSL0350- ...		1251–1450			1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650			1
10	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	310– 460	155– 230	
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300	
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400	
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600	
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800	
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000	
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500	
11	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000		
12	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000		
13	anti-drill guard E	TGBS0010- ...	1		310–3000		
14a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800		1
14b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000		1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000		1
17	anti-lift device	Ref. PDB, TFAH	1		310–3000		
18	striker plate S-RS	Ref. PDB, TRSK					
			on request				
19	tilt restrictor ..	TFKB0010- ...	1		310– 800		
20	mishandling device	TFBS0010- ...	1		601–3000		
21	pressure piece	Ref. PDB, TFFD	1		601–3000		
22	snapper rh.	TFST0021- ...	1		1601–3000		
	snapper lh.	TFST0022- ...			1601–3000		

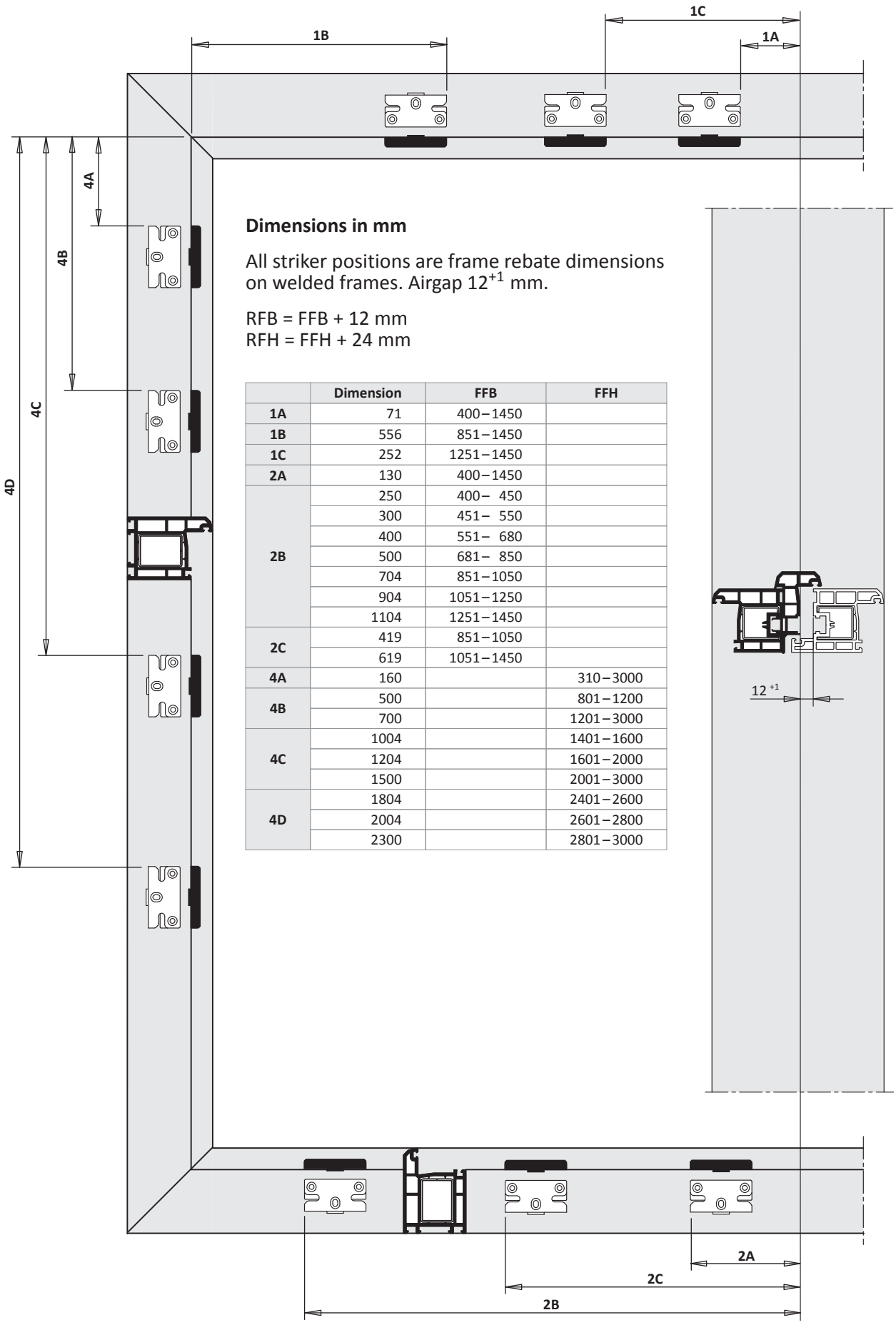
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	Description	Part number			required as per sash weight	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
23	stay hinge DH	Ref. PDB, TBWB61			1	1
24	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
25	top hinge 100kg	Ref. PDB, TBSL61			1	
26	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
27	top hinge pin Poly	TBSB6020-1 ...			1	1
28	top hinge 130kg	Ref. PDB, TBSL62				1
29	bottom hinge 100kg	Ref. PDB, TBEL01			1	
30	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
31	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
32	bottom hinge 130kg	Ref. PDB, TBEL02				1
33	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
34	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
35	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

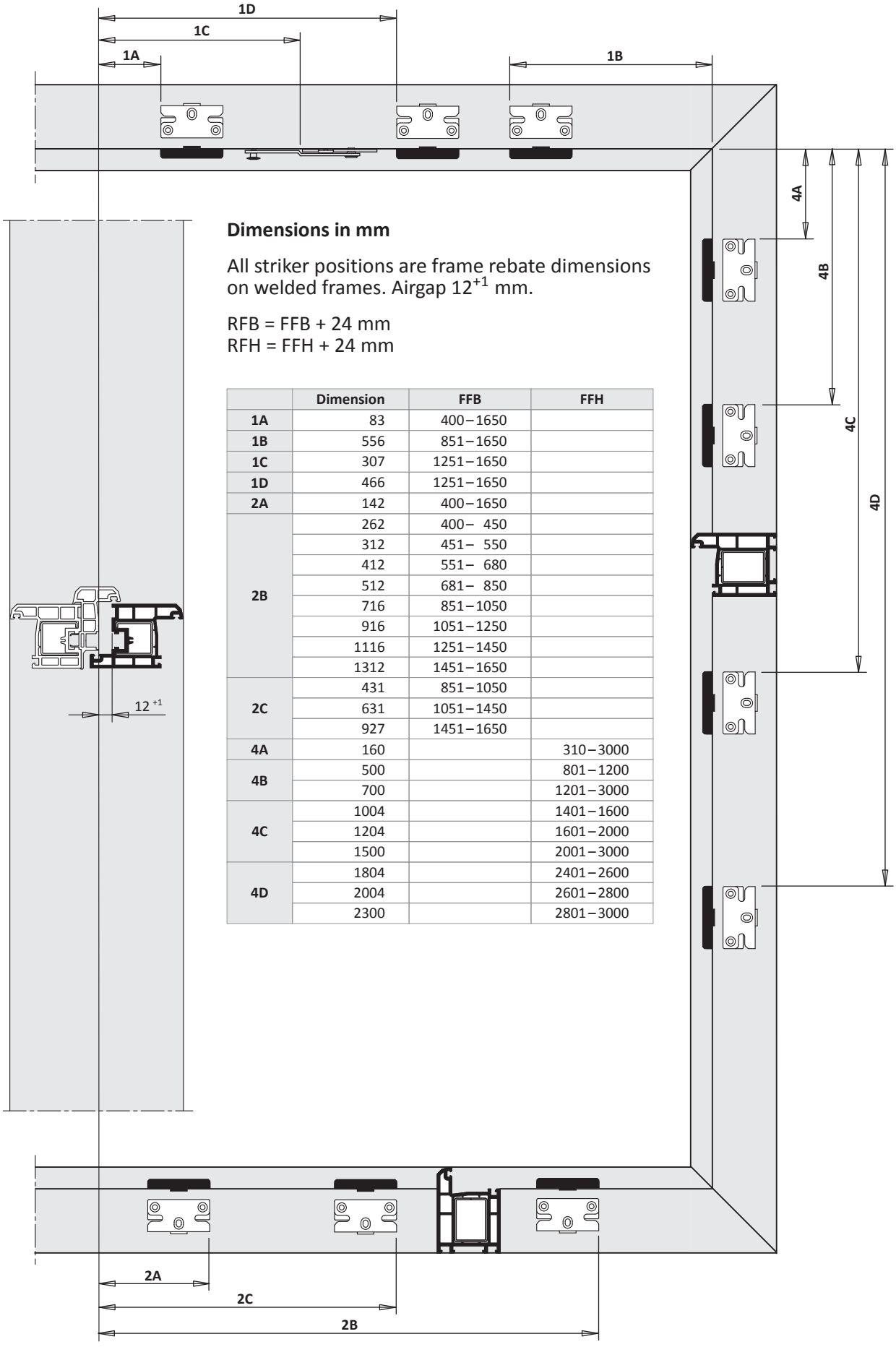
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	556	851–1450	
1C	252	1251–1450	
2A	130	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1104	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

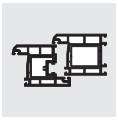
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1116	1251–1450	
	1312	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





RC2
ECO

1-sash square tilt-turn

PVC

RC2 ECO

centre handle pos. (variable)

Hinge side TITAN

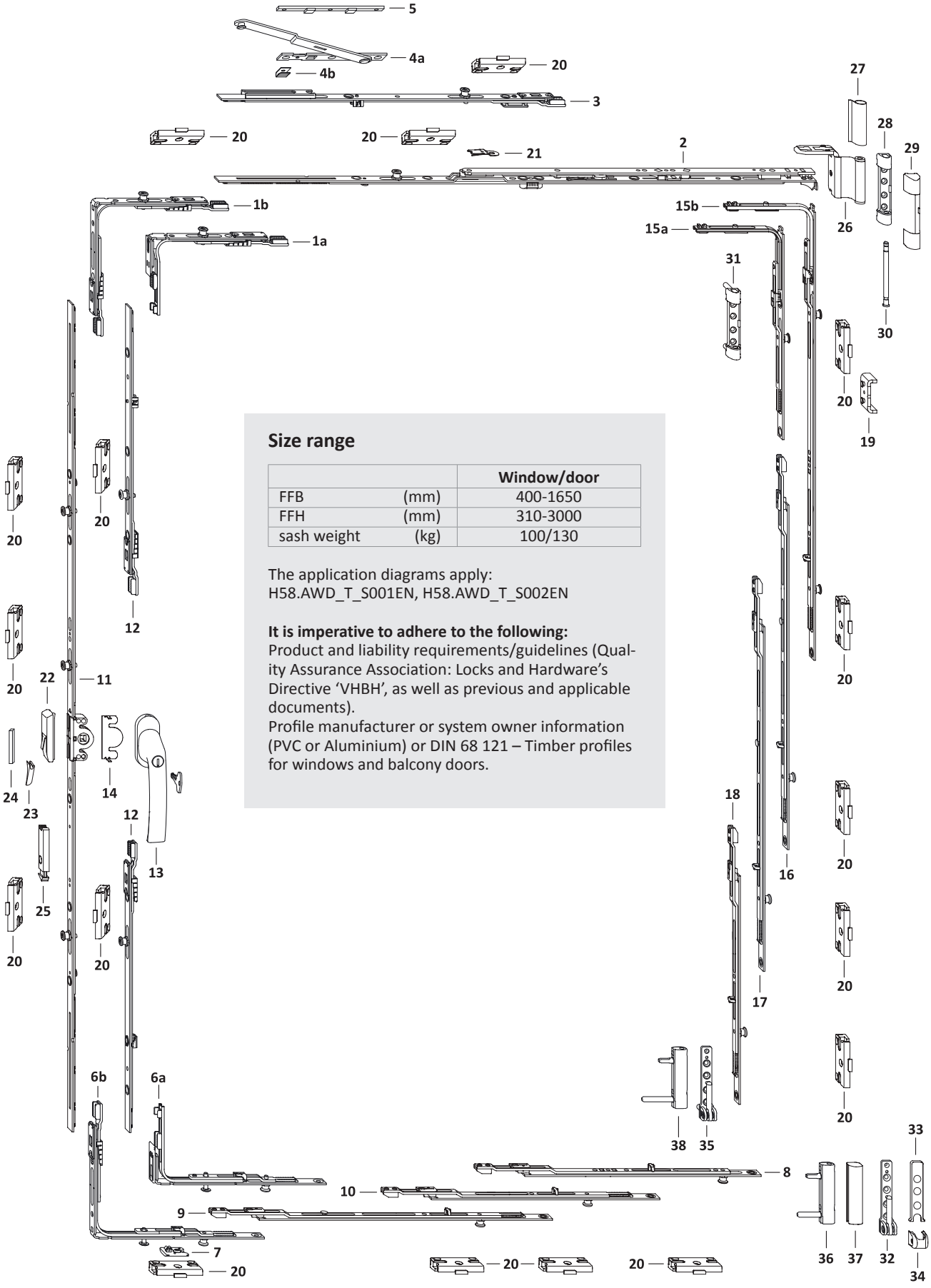
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GM Hinge side TITAN



Size range

		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

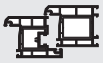
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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460		1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	461–3000		1
2	stay AF sz 0	TSKK2000- ...	1	400– 450			
	stay AF sz 1	TSKK2010- ...		451– 680			
	stay AF sz 2	TSKK2020- ...		681– 750			
	stay AF sz 2 1RS	TSKK2120- ...		751– 850			1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250			1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450			1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650			1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650			1
4	additional stay	Ref. PDB, TSZS	1	1251–1650			
5	packer Z	Ref. PDB, FRUP01	1	1251–1650			
6a	corn.drive AFVSU/K56+nar.1S1RS	TEUL5100- ...	1	400– 850	310– 460		1
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1650	461–3000		1
7	run up block AF 13 mm 13	TFFH0080- ...	1	400–1650			
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450			1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650			1
10	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650			1
11	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	310– 460	225– 230	
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300	
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350	
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400	1
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600	1
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800	2
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000	2
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500	3
12	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800		2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000		2
13	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000		
14	anti-drill guard E	TGBS0010- ...	1		310–3000		
15a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800		1
15b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000		1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000		1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000		1
19	anti-lift device	Ref. PDB, TFAH	1		310–3000		
20	striker plate S-RS	Ref. PDB, TRSK					
on request							
21	tilt restrictor ..	TFKB0010- ...	1		310– 800		
22	mishandling device	TFBS0010- ...	1				
23	pressure piece	Ref. PDB, TFFD	1				
24	stop	Ref. PDB, FRZF01	1				
25	snapper rh.	TFST0021- ...	1		1601–3000		
	snapper lh.	TFST0022- ...			1601–3000		

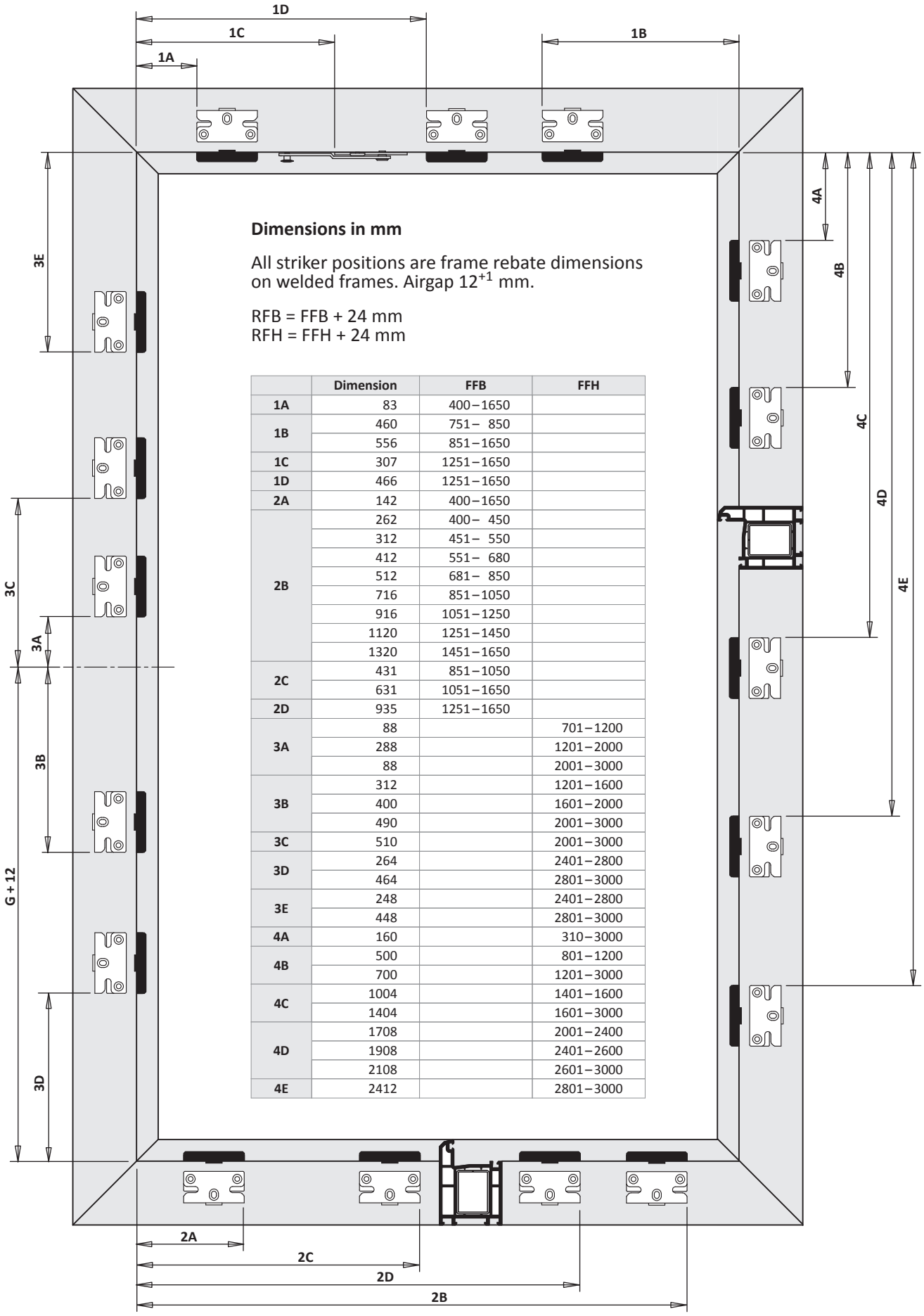
List of fittings

1-sash square tilt-turn
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
26	stay hinge DH	Ref. PDB, TBWB61			1	1
27	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
28	top hinge 100kg	Ref. PDB, TBSL61			1	
29	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
30	top hinge pin Poly	TBSB6020-1 ...			1	1
31	top hinge 130kg	Ref. PDB, TBSL62				1
32	bottom hinge 100kg	Ref. PDB, TBEL01			1	
33	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
34	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
35	bottom hinge 130kg	Ref. PDB, TBEL02				1
36	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
37	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
38	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

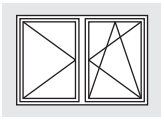
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
3A	88		701–1200
	288		1201–2000
	88		2001–3000
3B	312		1201–1600
	400		1601–2000
	490		2001–3000
3C	510		2001–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

TITAN AF

Installation instructions



RC2
ECO

2-sash square tilt-turn/turn DS 16

PVC

RC2 ECO

centre handle pos. (variable)

Hinge side TITAN

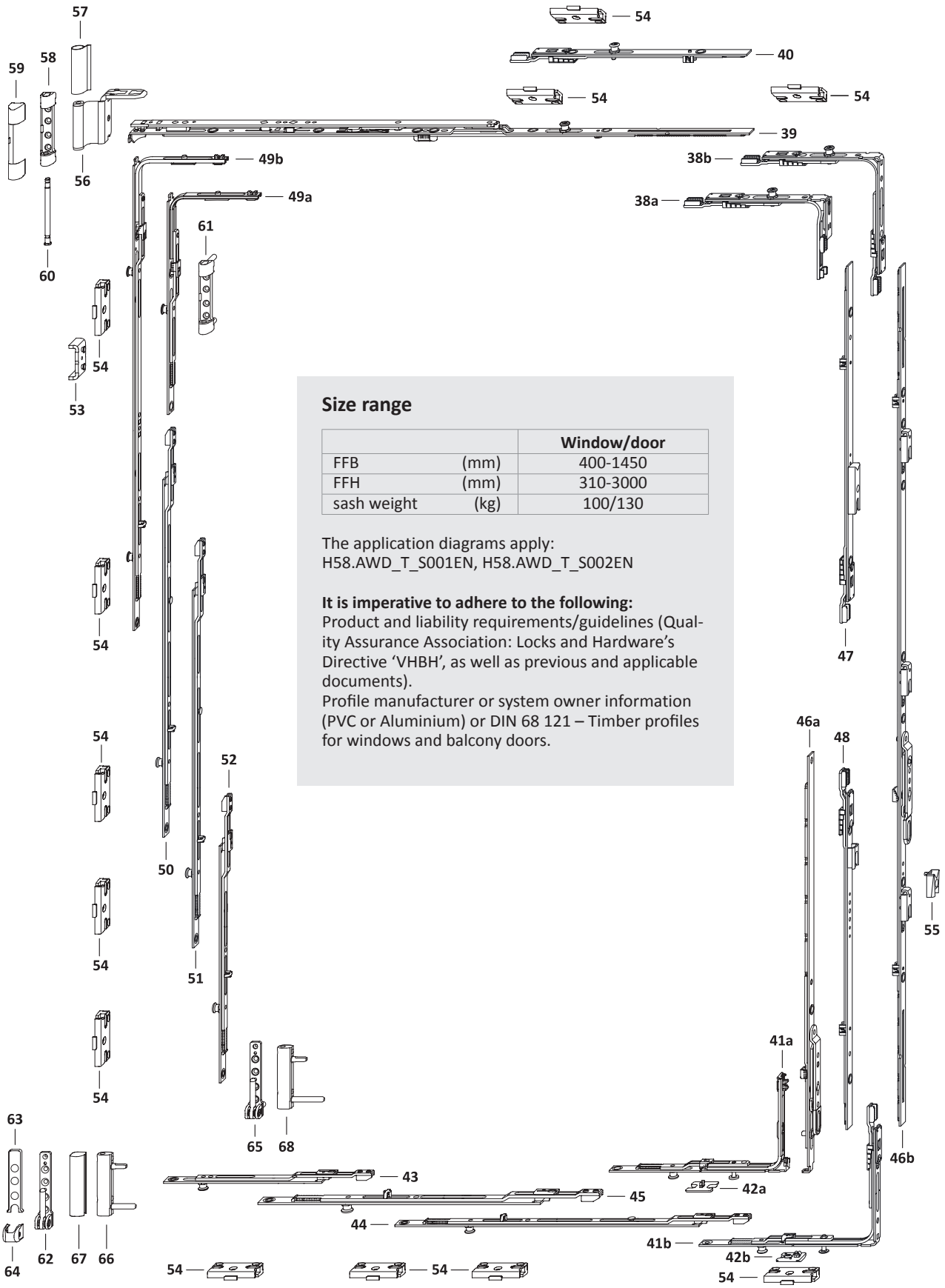
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	one-piece stay
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS
Hinge side turning points	Standard

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

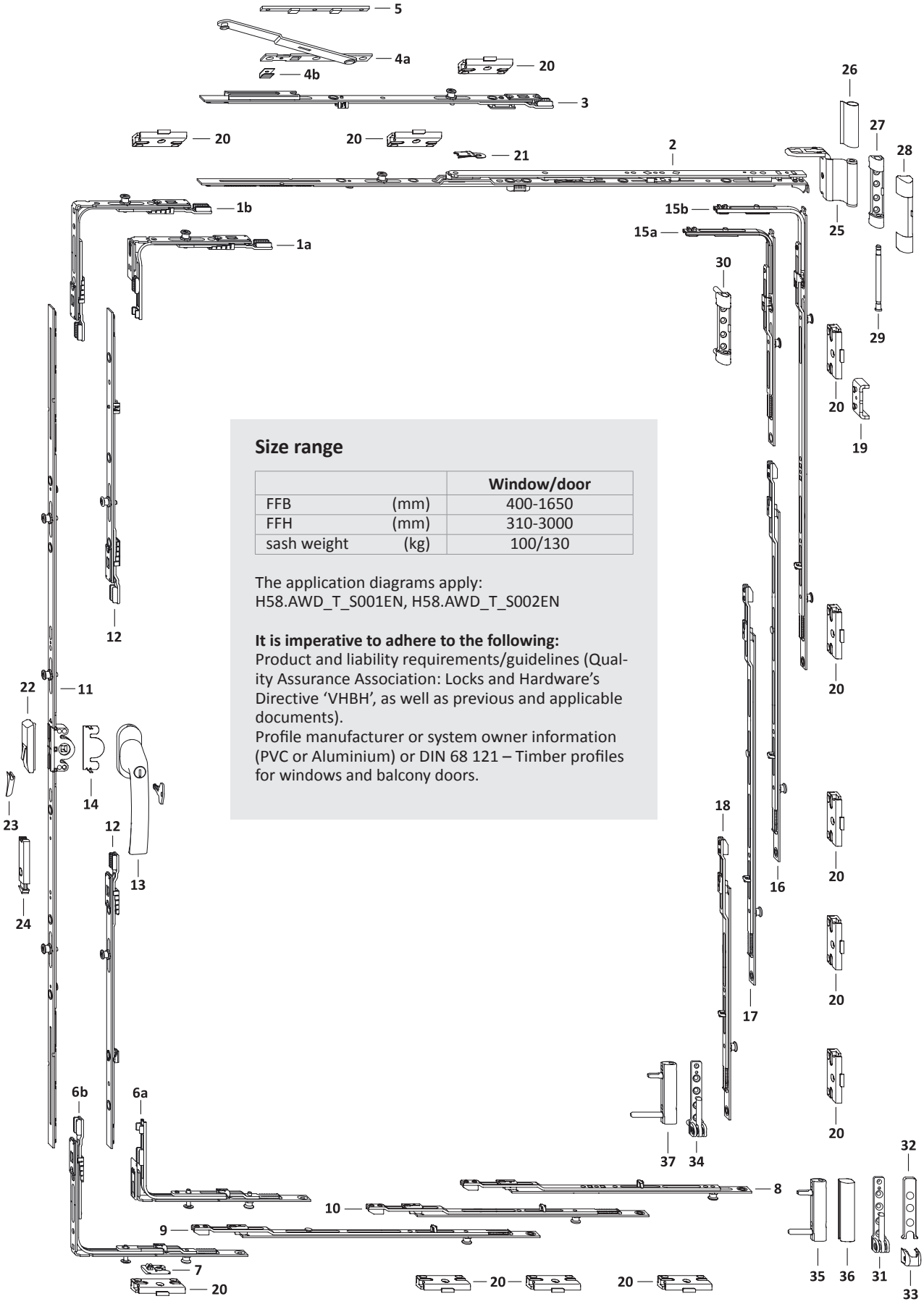


Size range

		Window/door
FFB	(mm)	400-1450
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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Size range

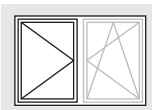
		Window/door
FFB	(mm)	400-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

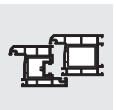
The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
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List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN



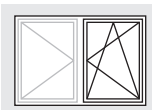


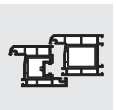
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
						In the main sash	54
38a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460		1
38b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1450	461–3000		1
39	stay AF sz 0	TSKK2000- ...	1	400– 450			
	stay AF sz 1	TSKK2010- ...		451– 680			
	stay AF sz 2	TSKK2020- ...		681– 750			
	stay AF sz 2 1RS	TSKK2120- ...		751– 850			1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1450			1
40	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450			1
41a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	400–1450	461– 700		1
	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...		400– 850	310– 460		1
41b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1450	701–3000		1
42a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	400–1450	461– 700		
	run-up plate FH KRL56	Ref. PDB, TRAL01		400– 850	310– 460		
42b	run up block AF 13 mm 13	TFFH0080- ...	1	400–1450	701–3000		
43	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450			1
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450			1
45	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1450			1
46a	sec.sash gear 16 sz 30	TGKS0010- ...	1	400– 850	310– 460	155– 230	
	sec.sash gear 16 sz 30	TGKS0010- ...			461– 600	230– 300	
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300– 350	
46b	sec.sash gear 16 AF sz 70 1SB	TGMS4030- ...	1		701– 800	350– 400	
	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...			801–1200	400– 600	
	sec.sash gear 16 AF 120 2SB 70	TGMS4120- ...			1201–1600	600– 800	
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000	
	sec.sash gear 16 AF 200 3SB 70	TGMS4100- ...			2001–3000	1000–1500	
47	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000		
48	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800		
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000		
49a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800		1
49b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
50	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000		1
51	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000		1
52	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000		1
53	anti-lift device	Ref. PDB, TFAH	1		310–3000		
54	striker plate S-RS	Ref. PDB, TRSK					
on request							
55	striker snapper AF A0767	TRST0100- ...	1		1601–3000		

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
56	stay hinge DH	Ref. PDB, TBWB61			1	1
57	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
58	top hinge 100kg	Ref. PDB, TBSL61			1	
59	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
60	top hinge pin Poly	TBSB6020-1 ...			1	1
61	top hinge 130kg	Ref. PDB, TBSL62				1
62	bottom hinge 100kg	Ref. PDB, TBEL01			1	
63	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
64	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
65	bottom hinge 130kg	Ref. PDB, TBEL02				1
66	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
67	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
68	corner hinge PVC130kg	Ref. PDB, TBEB63				1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN



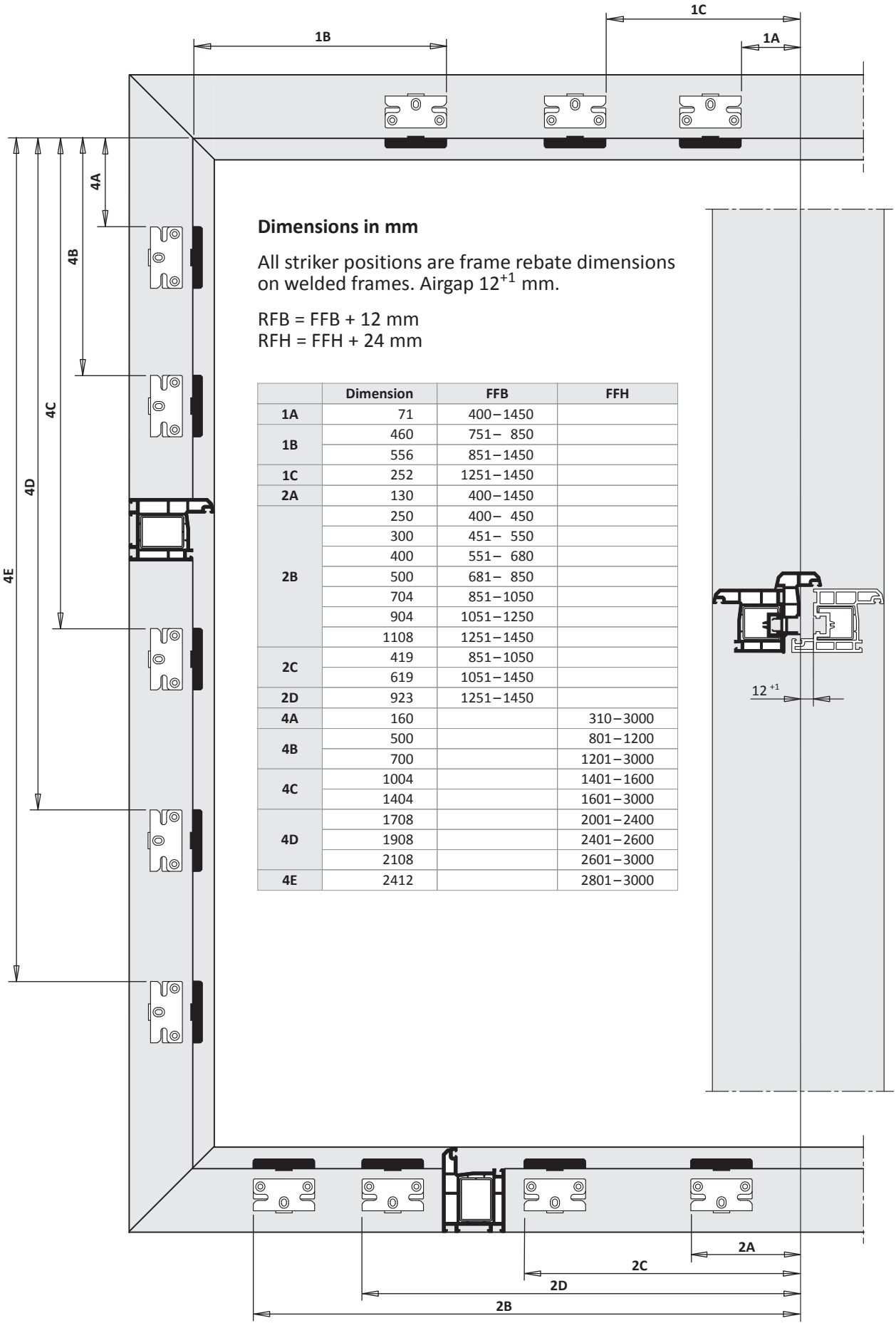


Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	400– 850	310– 460		1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	400–1650	461–3000		1
2	stay AF sz 0	TSKK2000- ...	1	400– 450			
	stay AF sz 1	TSKK2010- ...		451– 680			
	stay AF sz 2	TSKK2020- ...		681– 750			
	stay AF sz 2 1RS	TSKK2120- ...		751– 850			1
	stay AF sz 3 1RS	TSKK2030- ...		851–1050			1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250			1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450			1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650			1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650			1
4	additional stay	Ref. PDB, TSZS	1	1251–1650			
5	packer Z	Ref. PDB, FRUP01	1	1251–1650			
6a	corn.drive AFVSU/K56+nar.1S1RS	TEUL5100- ...	1	400– 850	310– 460		1
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	400–1650	461–3000		1
7	run up block AF 13 mm 13	TFFH0080- ...	1	400–1650			
8	extension sz 1+ 1RS	TVSO0200- ...	1	400– 450			1
	extension sz 2+ 1RS	TVSL0320- ...		451– 550			1
	extension sz 3+ 1RS	TVSL0330- ...		551– 680			1
	extension sz 4+ 1RS	TVSL0340- ...		681– 850			1
	extension sz 3+ 1RS	TVSL0330- ...		851–1250			1
	extension sz 2+ 1RS	TVSL0320- ...		1251–1450			1
	extension sz 4+ 1RS	TVSL0340- ...		1451–1650			1
9	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650			1
10	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650			1
11	gear 15 AF sz 20	TGMK4010- ...	1	400– 850	310– 460	155– 230	
	gear 15 AF sz 20	TGMK4010- ...			461– 600	230– 300	
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350	
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400	
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600	
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800	
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000	
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500	
12	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000		
13	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		310–3000		
14	anti-drill guard E	TGBS0010- ...	1		310–3000		
15a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		310– 800		1
15b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000		1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000		1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000		1
19	anti-lift device	Ref. PDB, TFAH	1		310–3000		
20	striker plate S-RS	Ref. PDB, TRSK					
on request							
21	tilt restrictor ..	TFKB0010- ...	1		310– 800		
22	mishandling device	TFBS0010- ...	1				
23	pressure piece	Ref. PDB, TFFD	1				
24	snapper rh.	TFST0021- ...	1		1601–3000		
	snapper lh.	TFST0022- ...			1601–3000		

Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
25	stay hinge DH	Ref. PDB, TBWB61			1	1
26	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
27	top hinge 100kg	Ref. PDB, TBSL61			1	
28	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
29	top hinge pin Poly	TBSB6020-1 ...			1	1
30	top hinge 130kg	Ref. PDB, TBSL62				1
31	bottom hinge 100kg	Ref. PDB, TBEL01			1	
32	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
33	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
34	bottom hinge 130kg	Ref. PDB, TBEL02				1
35	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
36	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
37	corner hinge PVC130kg	Ref. PDB, TBEB63				1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side TITAN

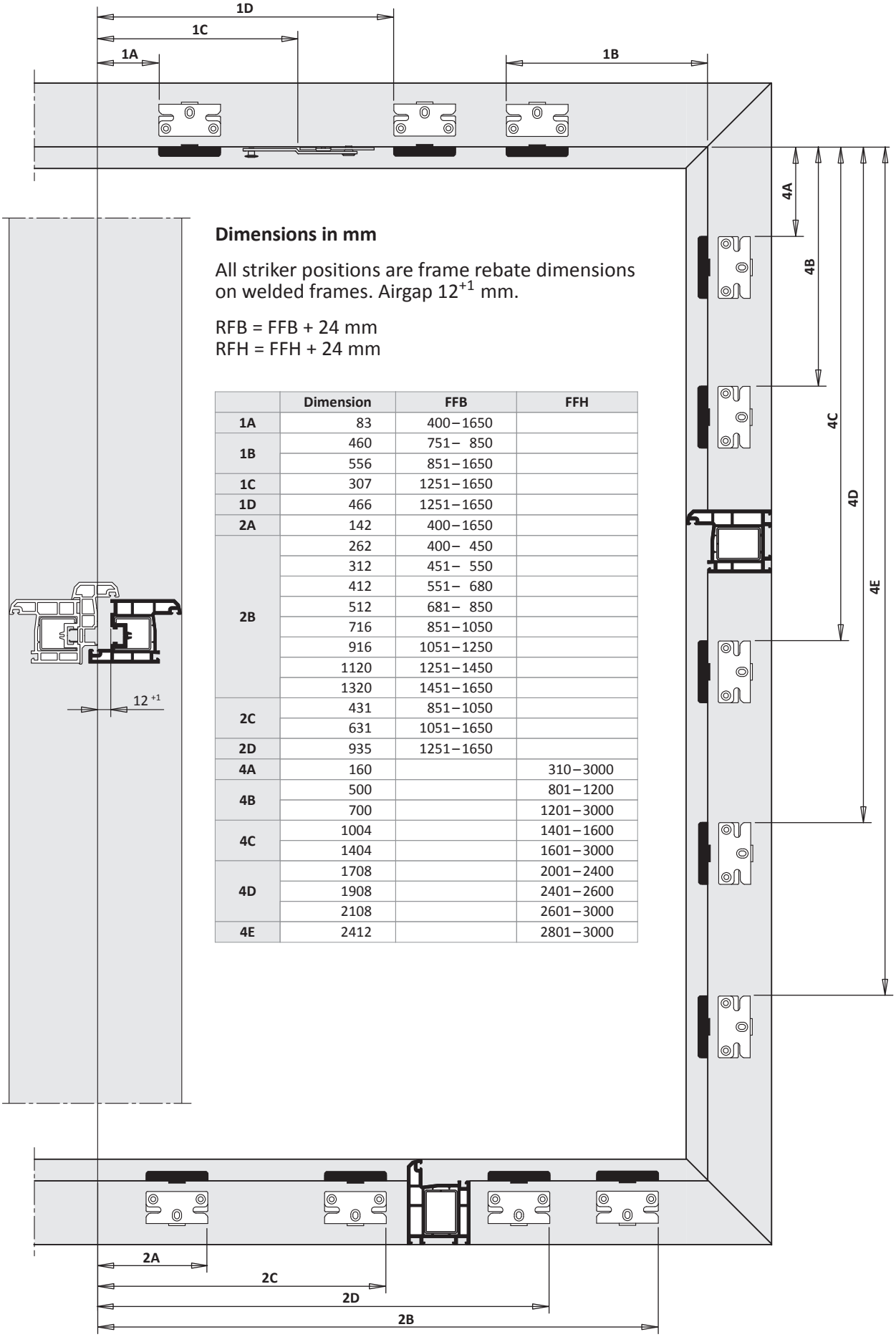


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	400–1450	
1B	460	751– 850	
	556	851–1450	
1C	252	1251–1450	
2A	130	400–1450	
2B	250	400– 450	
	300	451– 550	
	400	551– 680	
	500	681– 850	
	704	851–1050	
	904	1051–1250	
	1108	1251–1450	
2C	419	851–1050	
	619	1051–1450	
2D	923	1251–1450	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	400–1650	
1B	460	751– 850	
	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	400–1650	
2B	262	400– 450	
	312	451– 550	
	412	551– 680	
	512	681– 850	
	716	851–1050	
	916	1051–1250	
	1120	1251–1450	
	1320	1451–1650	
2C	431	851–1050	
	631	1051–1650	
2D	935	1251–1650	
4A	160		310–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

Basic security

1-sash square tilt H48.TAFKFM0S014EN 10 - 3

RC1

1-sash square tilt H48.TAFKFM1S022EN 10 - 7

RC2

1-sash square tilt H48.TAFKFM2+S016EN 10 - 11

TITAN AF

Installation instructions




GS

1-sash square tilt

PVC

basic security

centre handle pos. (variable)

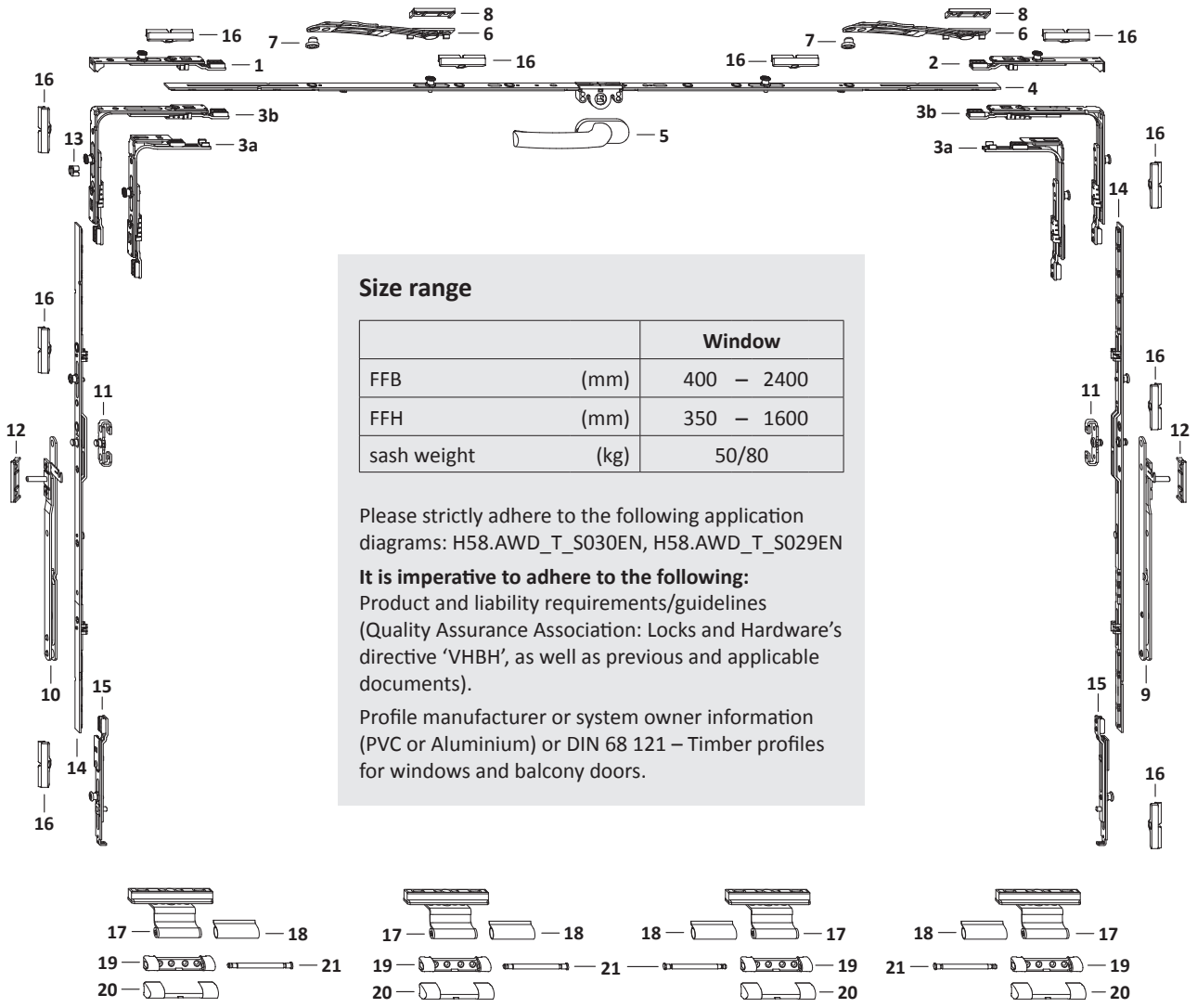
Hinge side TITAN

surface TS

backset 15 mm

Hardware layout

1-sash square tilt
PVC GM hinge side TITAN



Size range

		Window
FFB	(mm)	400 – 2400
FFH	(mm)	350 – 1600
sash weight	(kg)	50/80

Please strictly adhere to the following application diagrams: H58.AWD_T_S030EN, H58.AWD_T_S029EN

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Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

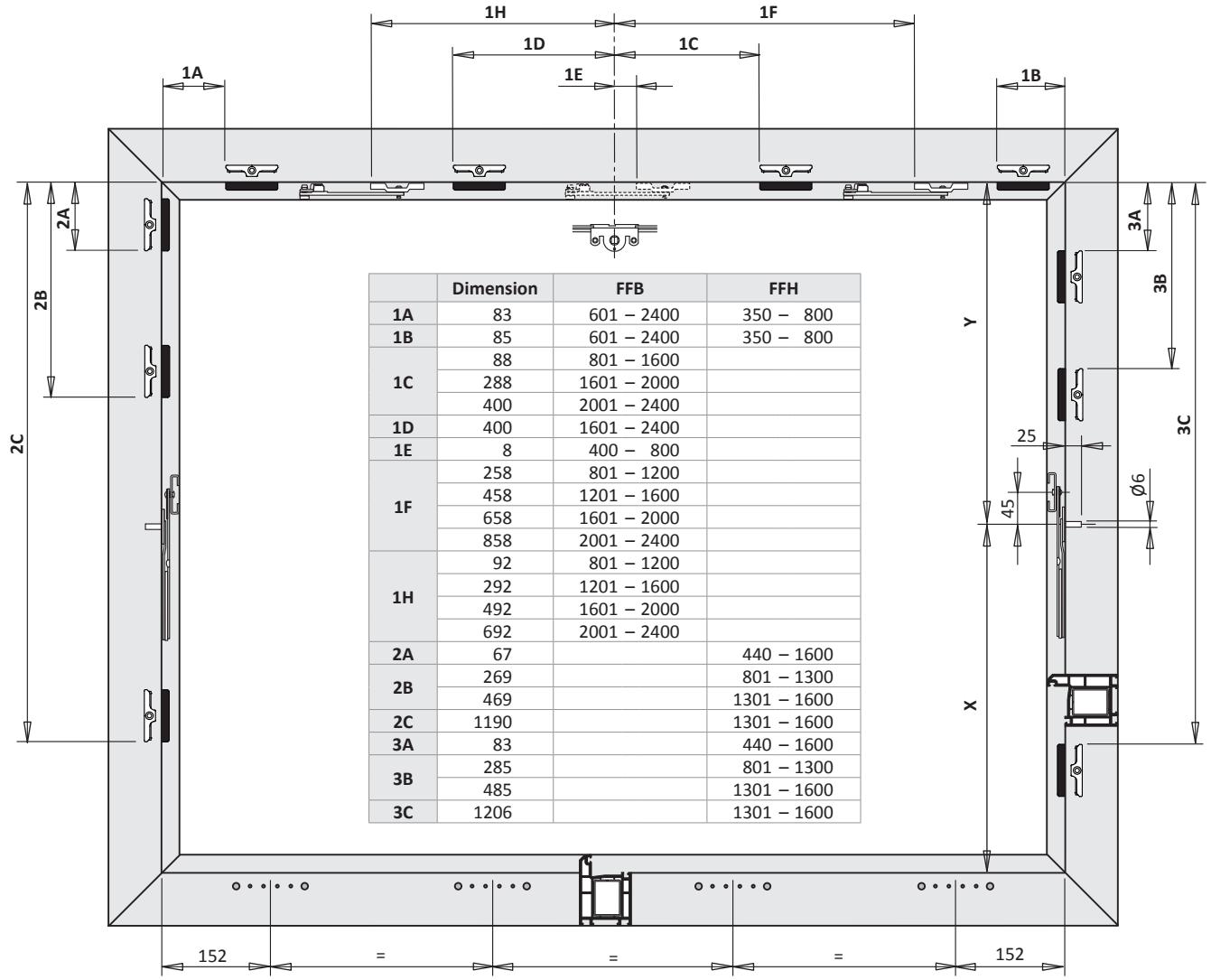
10

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Frame Parts Pos. 16
1	locking bolt AF VS 180° 1RS	TESC2020–...	1	601 – 2400	350 – 800		1
2	locking bolt AF tilt 90° 1RS	TESC2010–...	1	601 – 2400	350 – 800		1
3a	corner drive AF VSO narrow 1RS	TEUL4020–...	2	400 – 600	440 – 1600		2
3b	corner drive AF VSO 1RS	TEUL4010–...		601 – 2400	801 – 1600		2
4	gear 15 AF sz 60	TGMK4020–...	1	400 – 800		200 – 400	
	gear 15 AF sz 80 1RS	TGMK4040–...		801 – 1200		400 – 600	1
	gear 15 AF sz 120 1RS	TGMK4050–...		1201 – 1600		600 – 800	1
	gear 15 AF sz 160 2RS 70	TGMK4170–...		1601 – 2000		800 – 1000	2
	gear 15 AF sz 200 2RS	TGMK4080–...		2001 – 2400		1000 – 1200	2
5	handle Globe	Ref. EBS, ZHGS	1	400 – 2400			
6	telescopic tilt only stay	TSKF0020–...	1	400 – 800			
			2	801 – 2400			
7	lock.bolt f.rais.ring facepl.	TFZB0050–...	1	400 – 800			
			2	801 – 2400			
8	packer RB/FPS A....	Ref. PDB, FRUP02	1	400 – 800			
			2	801 – 2400			
9	tilt only safety stay 25 sz 1 rh.	ASFP0031–...	1	400 – 600	440 – 590		
	tilt only safety stay 25 sz 2 rh.	ASFP0041–...			591 – 800		
	tilt only safety stay 25 sz 1 rh.	ASFP0031–...			801 – 1000		
	tilt only safety stay 25 sz 2 rh.	ASFP0041–...			1001 – 1600		
	tilt only safety stay 25 sz 1 rh.	ASFP0031–...		601 – 2400	350 – 500		
	tilt only safety stay 25 sz 2 rh.	ASFP0041–...			501 – 800		
	tilt only safety stay 25 sz 1 rh.	ASFP0031–...			801 – 1000		
	tilt only safety stay 25 sz 2 rh.	ASFP0041–...			1001 – 1600		
10	tilt only safety stay 25 sz 1 lh.	ASFP0032–...	1	400 – 600	440 – 590		
	tilt only safety stay 25 sz 2 lh.	ASFP0042–...			591 – 800		
	tilt only safety stay 25 sz 1 lh.	ASFP0032–...			801 – 1000		
	tilt only safety stay 25 sz 2 lh.	ASFP0042–...			1001 – 1600		
	tilt only safety stay 25 sz 1 lh.	ASFP0032–...		601 – 2400	350 – 500		
	tilt only safety stay 25 sz 2 lh.	ASFP0042–...			501 – 800		
	tilt only safety stay 25 sz 1 lh.	ASFP0032–...			801 – 1000		
	tilt only safety stay 25 sz 2 lh.	ASFP0042–...			1001 – 1600		
11	fixing claw UGRP	ZFFP0010–...	2		350 – 800		
12	packer RB/FPS A....	Ref. PDB, FRUP02	2		350 – 1600		
13	travel restrictor	TFHB0010–...	1		440 – 1600		
14	linkage FPS/ZZ 1RS (200 mm cutting above)	TZZZ0040–...	2		801 – 1300		2
	linkage FPS/ZZ 1RS				1301 – 1600		
15	locking bolt AF VSU/K 1RS	TESC3020–...	2		1301 – 1600		2
16	striker plate S 56 A....	Ref. PDB, TRSM					

Hinge side turning points							
Pos.	Description	Part number			QTY - FFB		
		surface TS	RAL9016	RAL8022	400 – 800	801 – 1800	1801 – 2400
17	tilt sash hinge PVC	Ref. PDB, TBKF			2	3	4
18	cover cap W PVC		TKWB0010– 004...	TKWB0010– 012...	2	3	4
19	top hinge DH PVC	Ref. PDB, TBSL61			2	3	4
20	cover cap S		TKSL0020– 004...	TKSL0020– 012...	2	3	4
21	top hinge pin Poly	TBSB6020– 1...			2	3	4

Frame dimensions

1-sash square tilt
PVC GM hinge side TITAN



	Dimension	FFB	FFH
1A	83	601 – 2400	350 – 800
1B	85	601 – 2400	350 – 800
1C	88	801 – 1600	
	288	1601 – 2000	
	400	2001 – 2400	
1D	400	1601 – 2400	
1E	8	400 – 800	
1F	258	801 – 1200	
	458	1201 – 1600	
	658	1601 – 2000	
	858	2001 – 2400	
1H	92	801 – 1200	
	292	1201 – 1600	
	492	1601 – 2000	
	692	2001 – 2400	
2A	67		440 – 1600
2B	269		801 – 1300
	469		1301 – 1600
2C	1190		1301 – 1600
3A	83		440 – 1600
3B	285		801 – 1300
	485		1301 – 1600
3C	1206		1301 – 1600

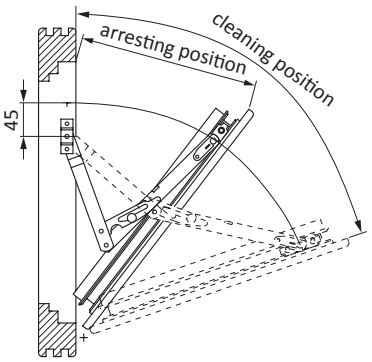
Dimensions in mm

All striker positions are frame rebate dimensions on assembled frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

10

50 kg	Dim.	FFB	FFH	ASFP	Opening width – arresting position	Opening angle – cleaning position
X	230	601 – 2400	350 – 500	Gr.1	278 – 385	ca. 78°
	370		501 – 800	Gr.2	238 – 370	ca. 80°
80 kg						
Y	272	400 – 600	440 – 590	Gr.1	400 – 319	95° – 53°
	272		591 – 800	Gr.2	298 – 258	87° – 53°
	402		801 – 1000	Gr.1	351 – 305	43° – 30°
	402		1001 – 1300	Gr.2	285 – 253	47° – 32°
	602		1301 – 1600	Gr.2	319 – 281	40° – 29°
	120	601 – 2400	350 – 500	Gr.1	256 – 235	71° – 45°
	120		501 – 800	Gr.2	220 – 205	72° – 41°
	402		801 – 1000	Gr.1	351 – 305	43° – 30°
	402		1001 – 1300	Gr.2	285 – 253	47° – 32°
	602		1301 – 1600	Gr.2	319 – 281	40° – 29°



TITAN AF

Installation instructions



RC1

1-sash square tilt

PVC

RC1

centre handle pos. (variable)

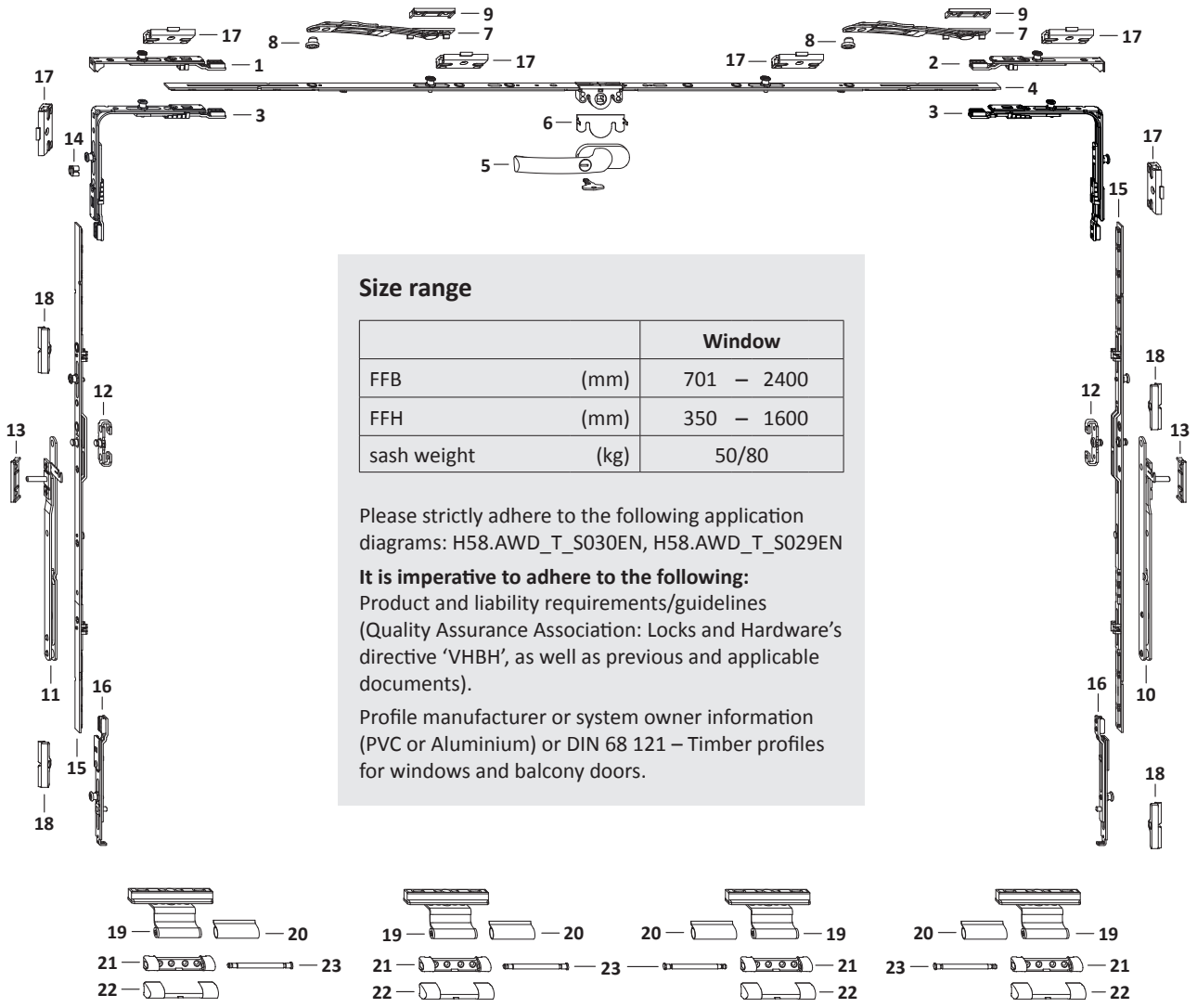
Hinge side TITAN

surface TS

backset 15 mm

Hardware layout

1-sash square tilt
PVC GM hinge side TITAN



Size range

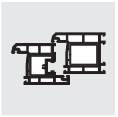
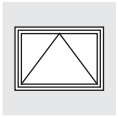
		Window
FFB	(mm)	701 – 2400
FFH	(mm)	350 – 1600
sash weight	(kg)	50/80

Please strictly adhere to the following application diagrams: H58.AWD_T_S030EN, H58.AWD_T_S029EN

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10

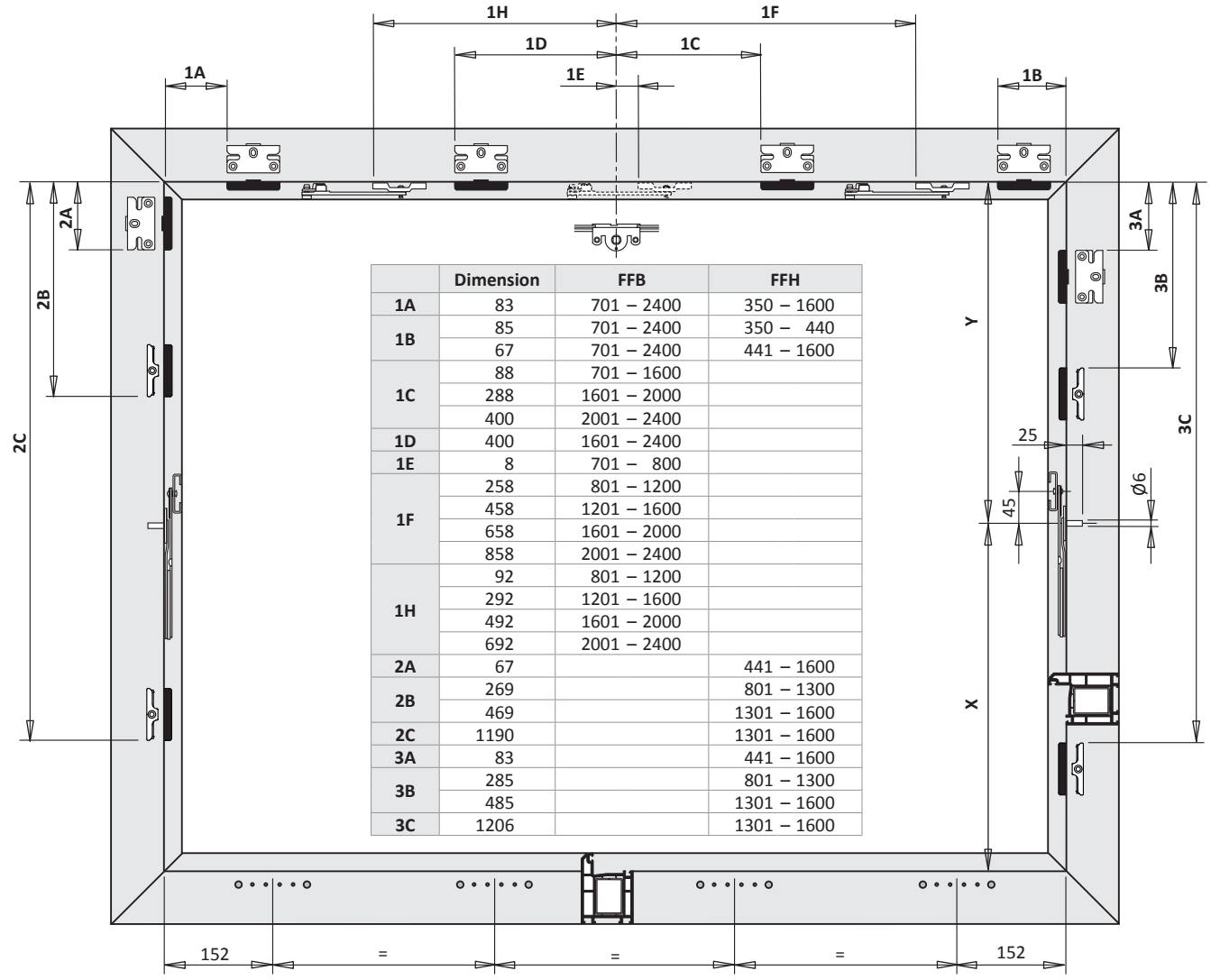



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Frame Parts	
							Pos. 17	Pos. 18
1	locking bolt AF VS 180° 1RS	TESC2020–...	1	701 – 2400	350 – 440		1	
2	locking bolt AF tilt 90° 1RS	TESC2010–...	1	701 – 2400	350 – 440		1	
3	corner drive AF VSO 2RS A0055	TEUL4070–...	2	701 – 2400	441 – 1600		4	
4	gear 15 AF sz 70 1RS	TGMK4030–...	1	701 – 800		350 – 400	1	
	gear 15 AF sz 80 1RS	TGMK4040–...		801 – 1200		400 – 600	1	
	gear 15 AF sz 120 1RS	TGMK4050–...		1201 – 1600		600 – 800	1	
	gear 15 AF sz 160 2RS 70	TGMK4170–...		1601 – 2000		800 – 1000	2	
	gear 15 AF sz 200 2RS	TGMK4080–...		2001 – 2400		1000 – 1200	2	
5	handle Globe ABS 100Nm	Ref. EBS, ZHGA100	1	701 – 2400				
6	anti-drill guard E	TGBS0010–...	1	701 – 2400				
7	telescopic tilt only stay	TSKF0020–...	1	701 – 800				
			2	801 – 2400				
8	lock.bolt f.rais.ring facepl.	TFZB0050–...	1	701 – 800				
			2	801 – 2400				
9	packer RB/FPS A....	Ref. PDB, FRUP02	1	701 – 800				
			2	801 – 2400				
10	tilt only safety stay 25 sz 1 rh.	ASFP0031–...	1		350 – 590			
	tilt only safety stay 25 sz 2 rh.	ASFP0041–...			591 – 800			
	tilt only safety stay 25 sz 1 rh.	ASFP0031–...			801 – 1000			
	tilt only safety stay 25 sz 2 rh.	ASFP0041–...			1001 – 1600			
11	tilt only safety stay 25 sz 1 lh.	ASFP0032–...	1		350 – 590			
	tilt only safety stay 25 sz 2 lh.	ASFP0042–...			591 – 800			
	tilt only safety stay 25 sz 1 lh.	ASFP0032–...			801 – 1000			
	tilt only safety stay 25 sz 2 lh.	ASFP0042–...			1001 – 1600			
12	fixing claw UGRP	ZFFP0010–...	2		350 – 800			
13	packer RB/FPS A....	Ref. PDB, FRUP02	2		350 – 1600			
14	travel restrictor	TFHB0010–...	1		441 – 1600			
15	linkage FPS/ZZ 1RS (200 mm cutting above)	TZZZ0040–...	2		801 – 1300			2
	linkage FPS/ZZ 1RS				1301 – 1600			
16	locking bolt AF VSU/K 1RS	TESC3020–...	2		1301 – 1600			2
17	striker plate S-RS A....	Ref. PDB, TRSK						
18	striker plate S 56 A....	Ref. PDB, TRSM						

Hinge side turning points						
Pos.	Description	Part number			QTY - FFB	
		surface TS	RAL9016	RAL8022	701 – 1800	1801 – 2400
19	tilt sash hinge PVC	Ref. PDB, TBKF			3	4
20	cover cap W PVC		TKWB0010– 004...	TKWB0010– 012...	3	4
21	top hinge DH PVC	Ref. PDB, TBSL61			3	4
22	cover cap S		TKSL0020– 004...	TKSL0020– 012...	3	4
23	top hinge pin Poly	TBSB6020– 1...			3	4

Frame dimensions

1-sash square tilt
PVC GM hinge side TITAN



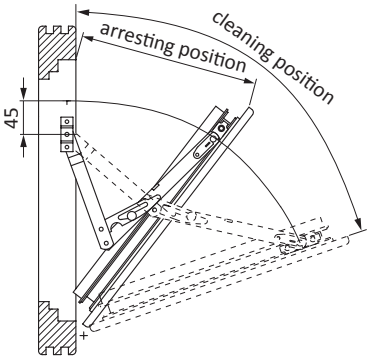
	Dimension	FFB	FFH
1A	83	701 – 2400	350 – 1600
1B	85	701 – 2400	350 – 440
	67	701 – 2400	441 – 1600
1C	88	701 – 1600	
	288	1601 – 2000	
	400	2001 – 2400	
1D	400	1601 – 2400	
1E	8	701 – 800	
1F	258	801 – 1200	
	458	1201 – 1600	
	658	1601 – 2000	
	858	2001 – 2400	
1H	92	801 – 1200	
	292	1201 – 1600	
	492	1601 – 2000	
	692	2001 – 2400	
2A	67		441 – 1600
2B	269		801 – 1300
	469		1301 – 1600
2C	1190		1301 – 1600
3A	83		441 – 1600
3B	285		801 – 1300
	485		1301 – 1600
3C	1206		1301 – 1600

Dimensions in mm

All striker positions are frame rebate dimensions on assembled frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

50 kg	Maß	FFB	FFH	ASFP	Opening width – arresting position	Opening angle – cleaning position
X	230	701 – 2400	350 – 440	Gr.1	278 – 343	ca. 78°
80 kg						
Y	272	701 – 2400	441 – 590	Gr.1	400 – 319	95° – 53°
	272		591 – 800	Gr.2	298 – 258	87° – 53°
	402		801 – 1000	Gr.1	351 – 305	43° – 30°
	402		1001 – 1300	Gr.2	285 – 253	47° – 32°
	602		1301 – 1600	Gr.2	319 – 281	40° – 29°



TITAN AF

Installation instructions




RC2

1-sash square tilt

PVC

RC2

centre handle pos. (variable)

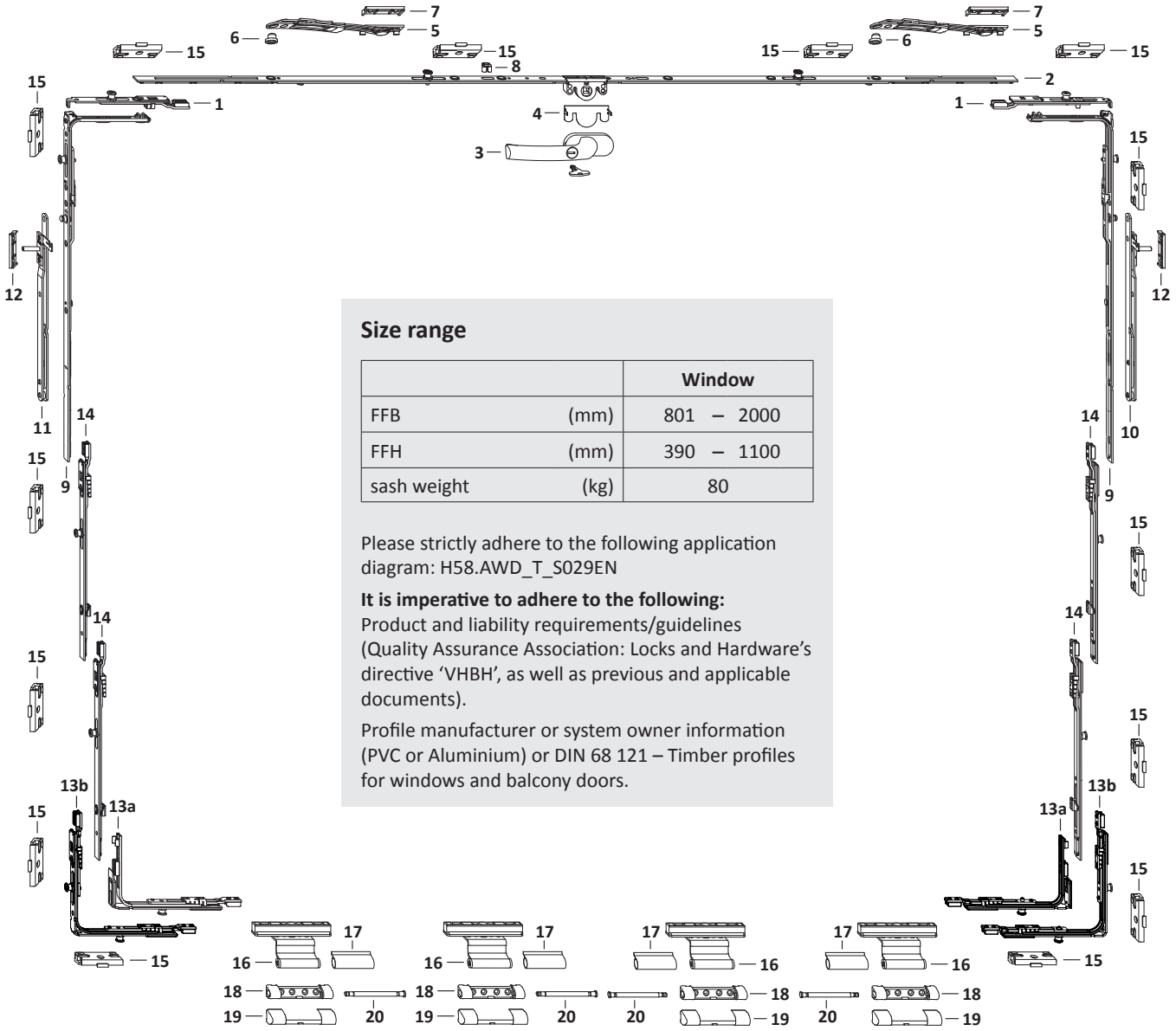
Hinge side TITAN

surface TS

backset 15 mm

Hardware layout

1-sash square tilt
PVC GM hinge side TITAN



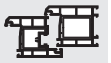
Size range

		Window
FFB	(mm)	801 – 2000
FFH	(mm)	390 – 1100
sash weight	(kg)	80

Please strictly adhere to the following application diagram: H58.AWD_T_S029EN

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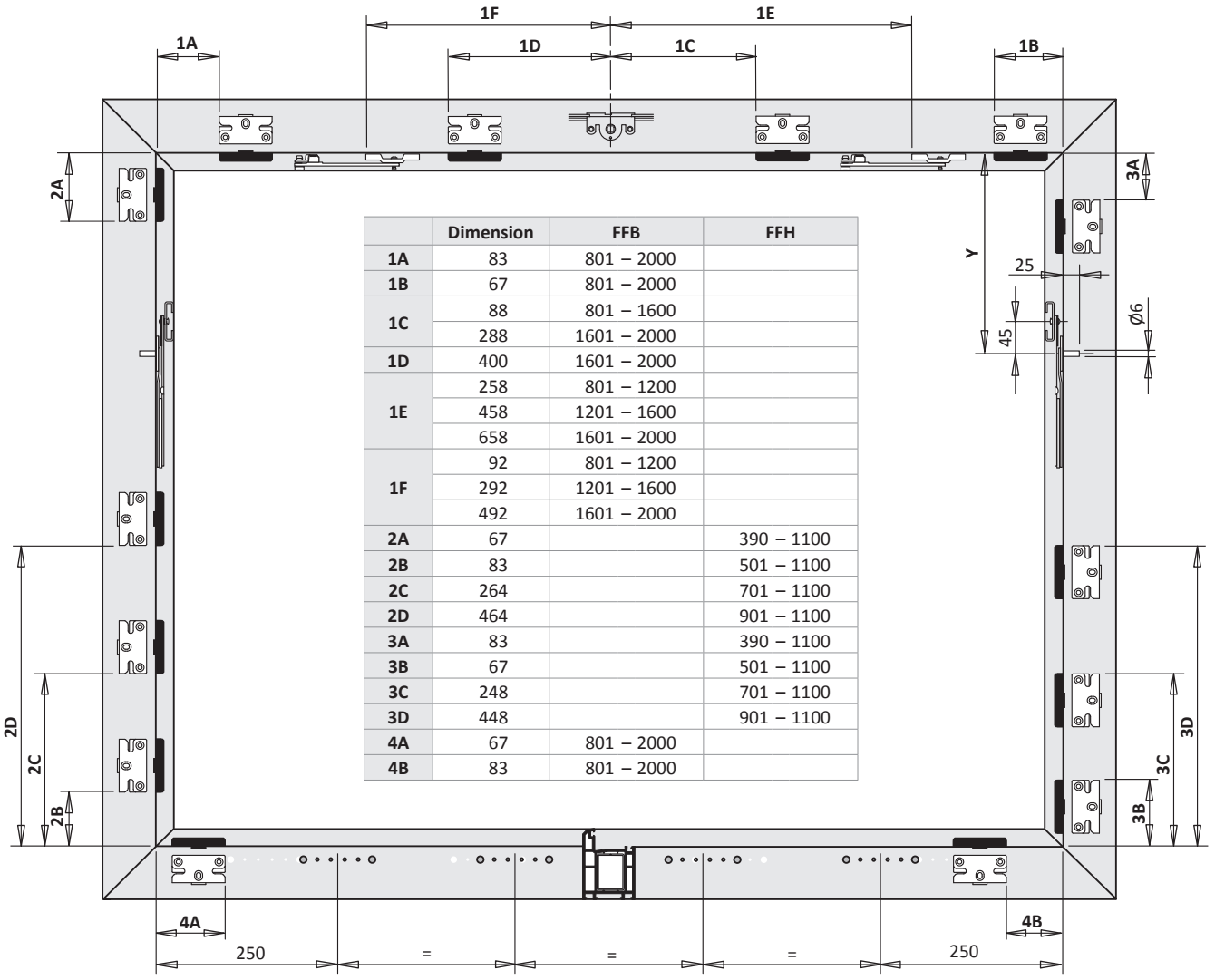



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Frame Parts Pos. 15
1	locking bolt AF VSU/K 1RS	TESC3020–...	2	801 – 2000			2
2	gear 15 AF sz 80 1RS	TGMK4040–...	1	801 – 1200		400 – 600	1
	gear 15 AF sz 120 1RS	TGMK4050–...		1201 – 1600		600 – 800	1
	gear 15 AF sz 160 2RS 70	TGMK4170–...		1601 – 2000		800 – 1000	2
3	handle Globe ABS 100Nm	Ref. EBS, ZHGA100	1	801 – 2000			
4	anti-drill guard E	TGBS0010–...	1	801 – 2000			
5	telescopic tilt only stay	TSKF0020–...	2	801 – 2000			
6	lock.bolt f.rais.ring facepl.	TFZB0050–...	2	801 – 2000			
7	packer RB/FPS A....	Ref. PDB, FRUP02	2	801 – 2000			
8	travel restrictor	TFHB0010–...	1	801 – 2000			
9	locking part FPS/A 1RS	TEVR0380–...	2		390 – 1100		2
10	tilt only safety stay 25 sz 1 rh.	ASFP0031–...	1		390 – 1100		
11	tilt only safety stay 25 sz 1 lh.	ASFP0032–...	1		390 – 1100		
12	packer RB/FPS A....	Ref. PDB, FRUP02	2		390 – 1100		
13a	corner drive AF VSO schmal 1RS	TEUL4020–...	2		390 – 500		2
13b	corner drive AF VSO 2RS	TEUL4070–...			501 – 1100		4
14	linkage KK/AF sz 1 1RS	TZKK1010–...	2		701 – 900		2
			4		901 – 1100		4
15	striker plate S-RS A....	Ref. PDB, TRSK					

Hinge side turning points							
Pos.	Description	Part number			QTY - FFB		
		surface TS	RAL9016	RAL8022	801 – 1200	1201 – 1600	1601 – 2000
16	Kippflügelband KF	s. PDB, TBKF			2	3	4
17	Abdeckkappe W KF		TKWB0010– 004...	TKWB0010– 012...	2	3	4
18	Scherenlager DH KF	s. PDB, TBSL61			2	3	4
19	Abdeckkappe S		TKSL0020– 004...	TKSL0020– 012...	2	3	4
20	Scherenlagerbolzen Poly	TBSB6020– 1...			2	3	4

Frame dimensions

1-sash square tilt
PVC GM hinge side TITAN



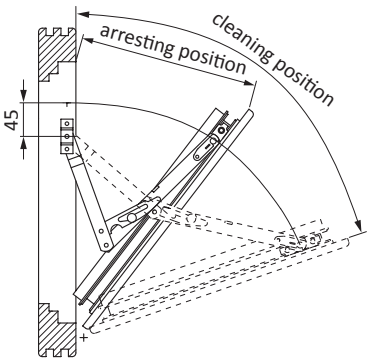
	Dimension	FFB	FFH
1A	83	801 – 2000	
1B	67	801 – 2000	
1C	88	801 – 1600	
	288	1601 – 2000	
1D	400	1601 – 2000	
1E	258	801 – 1200	
	458	1201 – 1600	
	658	1601 – 2000	
1F	92	801 – 1200	
	292	1201 – 1600	
	492	1601 – 2000	
2A	67		390 – 1100
2B	83		501 – 1100
2C	264		701 – 1100
2D	464		901 – 1100
3A	83		390 – 1100
3B	67		501 – 1100
3C	248		701 – 1100
3D	448		901 – 1100
4A	67	801 – 2000	
4B	83	801 – 2000	

Dimensions in mm

All striker positions are frame rebate dimensions on assembled frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

80 kg	Dim.	FFB	FFH	ASFP	Opening width – arresting position	Opening angle – cleaning position
Y	201	801 – 2000	390 – 1100	Gr.1	328 – 230	84° – 20°



Basic security

1-sash square tilt-turn H48.TAFKFN0S001EN 11 - 3

2-sash square tilt-turn/turn DS 16 H48.TAFKFN0S002EN 11 - 5

Tilt sash

1-sash square tilt H48.TAFKFM0S043EN 11 - 9

RC1

1-sash square tilt-turn H48.TAFKFN1S001EN 11 - 13

2-sash square tilt-turn/turn DS 16 H48.TAFKFN1S002EN 11 - 15

RC2

1-sash square tilt-turn H48.TAFKFN2+S001EN 11 - 19

2-sash square tilt-turn/turn DS 16 H48.TAFKFN2+S002EN 11 - 21

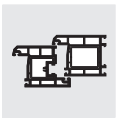
RC2 ECO

1-sash square tilt-turn H48.TAFKFN2S001EN 11 - 25

2-sash square tilt-turn/turn DS 16 H48.TAFKFN2S002EN 11 - 27

TITAN AF

Installation instructions



GS

AEROCONTROL

1-sash square tilt-turn

PVC

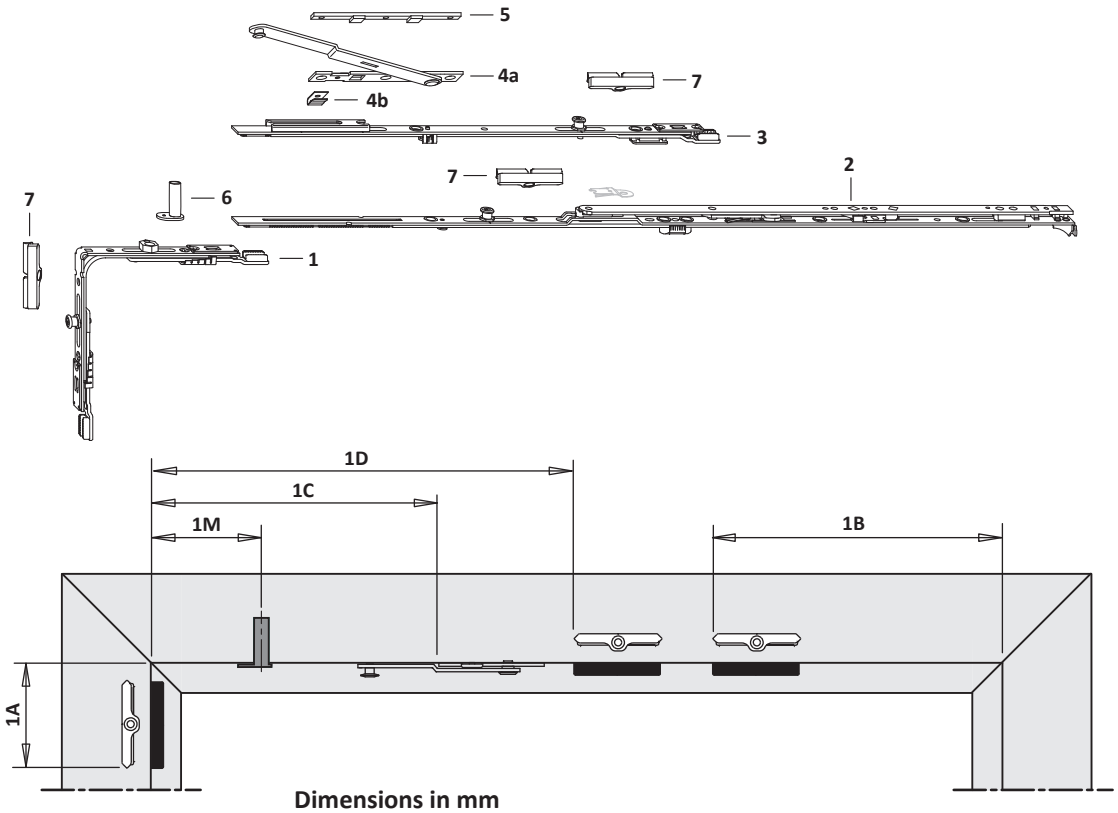
basic security

fixed handle position and centre handle pos. (variable)

surface TS

All further necessary information on the AEROCONTROL programme (opening and closure monitoring) like magnetic switches, assembly and connection instructions and the extensive accessory programme can be taken from our separate product catalogue DRIVE - AEROCONTROL.

FFB 330 – 1650



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

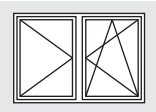
	Dimension	FFB
1M	103	330 – 1650
1A	67	330 – 1650
1B	556	851 – 1650
1C	307	1251 – 1650
1D	466	1251 – 1650

11

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre (variable)	Frame Parts Pos. 7
1	corner drive AF VSO UE 1M 1RS	TEUL4100–...	1	330 – 1650	410 – 3000	460 – 3000	1
2	stay AF sz 0	TSKK2000–...	1	330 – 450			
	stay AF sz 1	TSKK2010–...		451 – 680			
	stay AF sz 2	TSKK2020–...		681 – 850			
	stay AF sz 3 1RS	TSKK2030–...		851 – 1050			1
	stay AF sz 4 1RS	TSKK2040–...		1051 – 1250			1
	stay AF sz 3 1RS	TSKK2030–...		1251 – 1450			1
	stay AF sz 4 1RS	TSKK2040–...		1451 – 1650			1
3	linkage additional stay 1RS	TZOK1010–...	1	1251 – 1650			1
4	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
5	packer Z A....	Ref. PDB, FRUP01	1	1251 – 1650			
6	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	330 – 1650			
7	striker plate S 56 A....	Ref. PDB, TRSM					

TITAN AF

Installation instructions



GS

AEROCONTROL

2-sash square tilt-turn/turn DS 16

PVC

basic security

fixed handle position and centre handle pos. (variable)

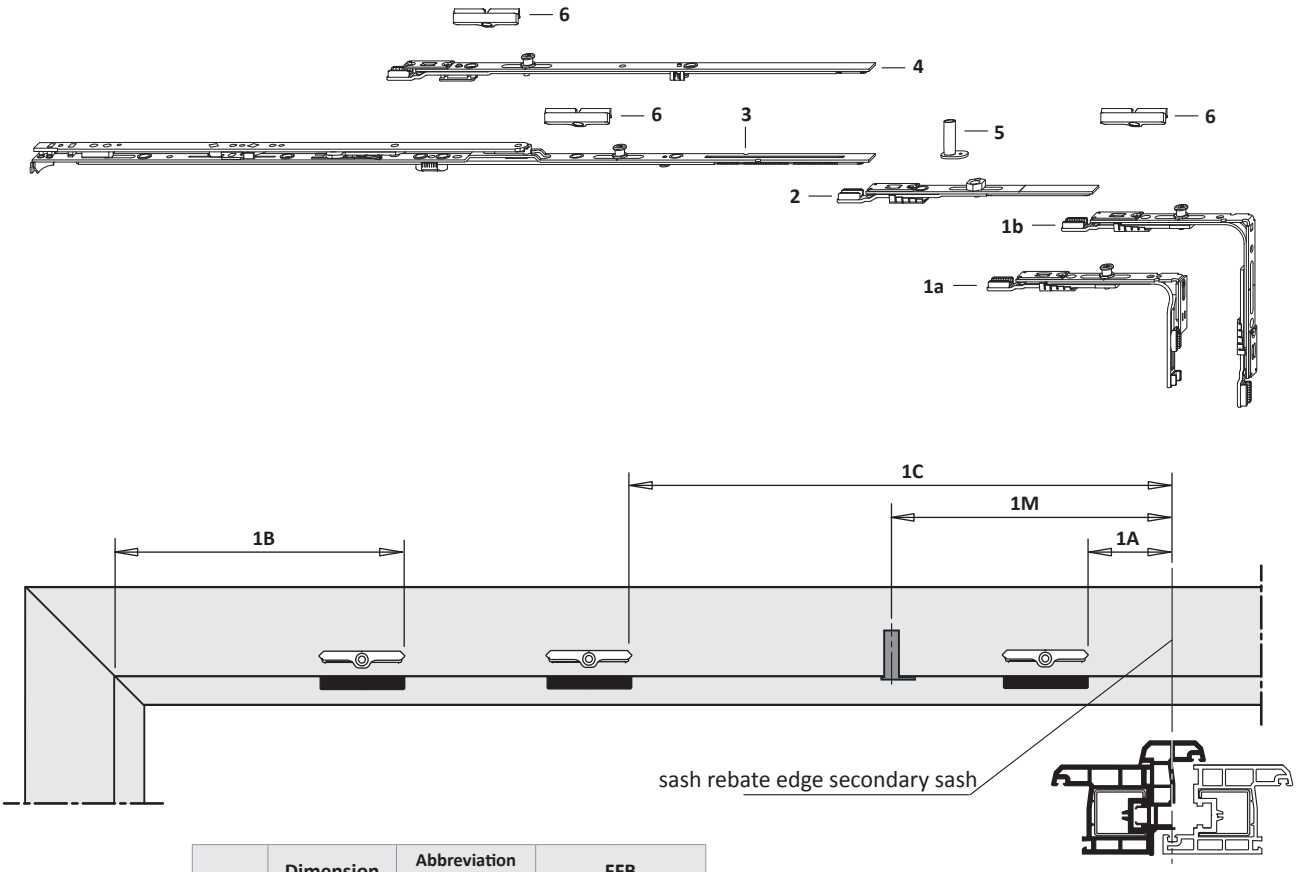
surface TS

All further necessary information on the AEROCONTROL programme (opening and closure monitoring) like magnetic switches, assembly and connection instructions and the extensive accessory programme can be taken from our separate product catalogue DRIVE - AEROCONTROL.

AEROCONTROL slave sash

2-sash square tilt-turn/turn DS 16
PVC

FFB 465 – 1480



	Dimension	Abbreviation linkage AF UE	FFB
1M	209	65	465 – 530
	274		531 – 1480
1A	71		465 – 1480
1B	460		881 – 1080
	556		1081 – 1250
	460		1281 – 1480
1C	654		1251 – 1480

Dimensions in mm

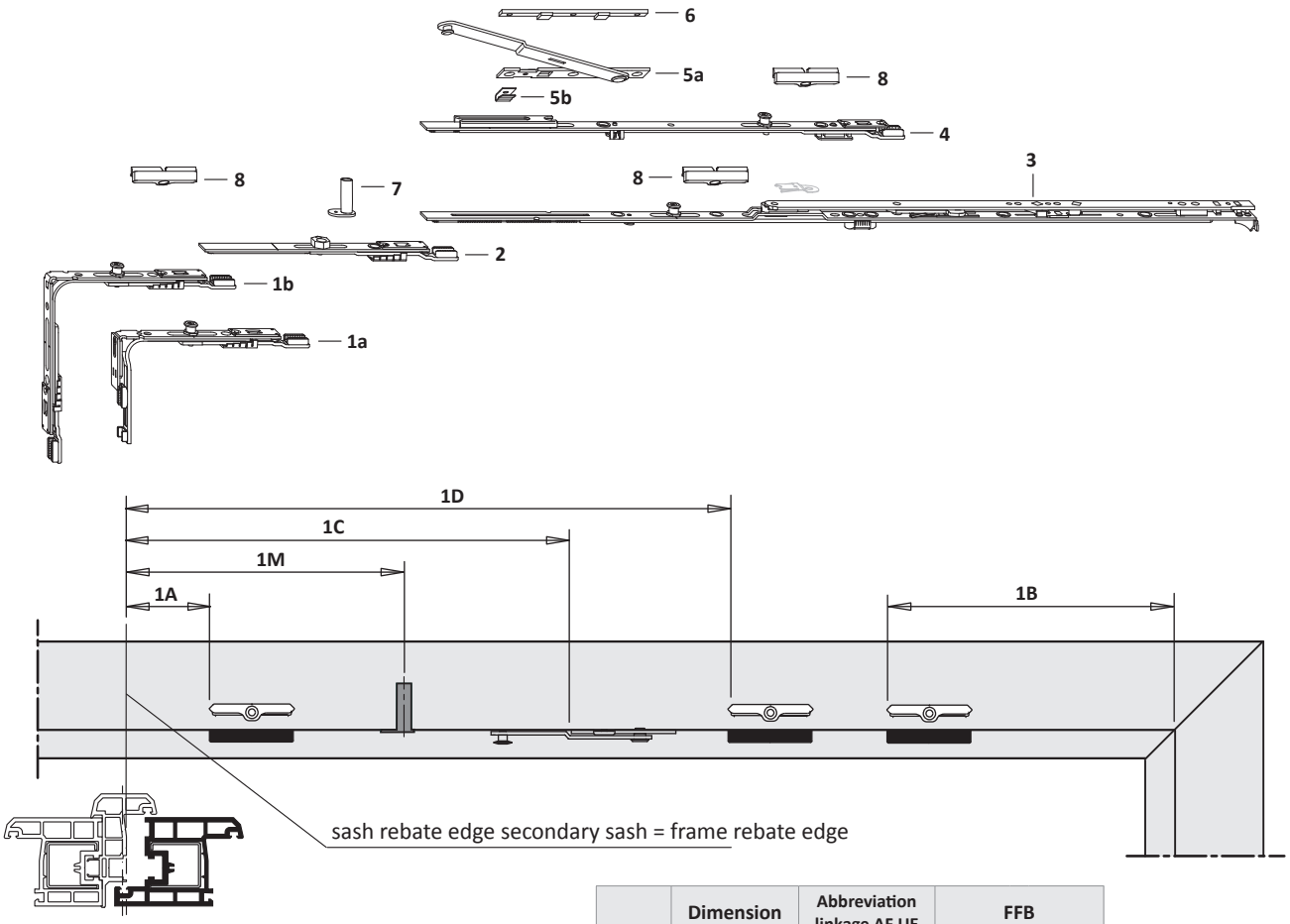
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

11

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre (variable)	Frame Parts Pos. 6
1a	corner drive AF VSO narrow 1RS	TEUL4020–...	1	465 – 1480	310 – 410	310 – 460	1
1b	corner drive AF VSO 1RS	TEUL4010–...		465 – 1480	411 – 3000	461 – 3000	1
2	linkage AF UE sz 1 1M	TZZS0160–...	1	465 – 1480			
3	stay AF sz 0	TSKK2000–...	1	465 – 680			
	stay AF sz 1	TSKK2010–...		681 – 880			
	stay AF sz 2 1RS	TSKK2120–...		881 – 1080			1
	stay AF sz 3 1RS	TSKK2030–...		1081 – 1250			1
	stay AF sz 1	TSKK2010–...		1251 – 1280			
	stay AF sz 2 1RS	TSKK2120–...		1281 – 1480			1
4	linkage KK/AF sz 2 1RS	TZKK1020–...	1	1251 – 1480			1
5	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	465 – 1480			
6	striker plate S 56 A....	Ref. PDB, TRSM					

FFB 465 – 1650



Dimensions in mm
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	Abbreviation linkage AF UE	FFB
1M	221	65	465 – 530
	286		531 – 1650
1A	83		465 – 1650
1B	460		881 – 1080
	556		1081 – 1250
	460		1281 – 1480
	556		1481 – 1650
1C	507		1251 – 1650
1D	666		1251 – 1650

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre (variable)	Frame Parts Pos. 8
1a	corner drive AF VSO narrow 1RS	TEUL4020–...	1	465 – 1650	310 – 410	310 – 460	1
1b	corner drive AF VSO 1RS	TEUL4010–...		465 – 1650	411 – 3000	461 – 3000	1
2	linkage AF UE sz 1 1M	TZZS0160–...	1	465 – 1650			
3	stay AF sz 0	TSKK2000–...	1	465 – 680			
	stay AF sz 1	TSKK2010–...		681 – 880			
	stay AF sz 2 1RS	TSKK2120–...		881 – 1080			1
	stay AF sz 3 1RS	TSKK2030–...		1081 – 1250			1
	stay AF sz 1	TSKK2010–...		1251 – 1280			
	stay AF sz 2 1RS	TSKK2120–...		1281 – 1480			1
	stay AF sz 3 1RS	TSKK2030–...		1481 – 1650			1
4	linkage additional stay 1RS	TZOK1010–...	1	1251 – 1650			1
5	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
6	packer Z A....	Ref. PDB, FRUP01	1	1251 – 1650			
7	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	465 – 1650			
8	striker plate S 56 A....	Ref. PDB, TRSM					

TITAN AF

Installation instructions




GS

AEROCONTROL

1-sash square tilt

PVC

basic security

centre handle pos. (variable)

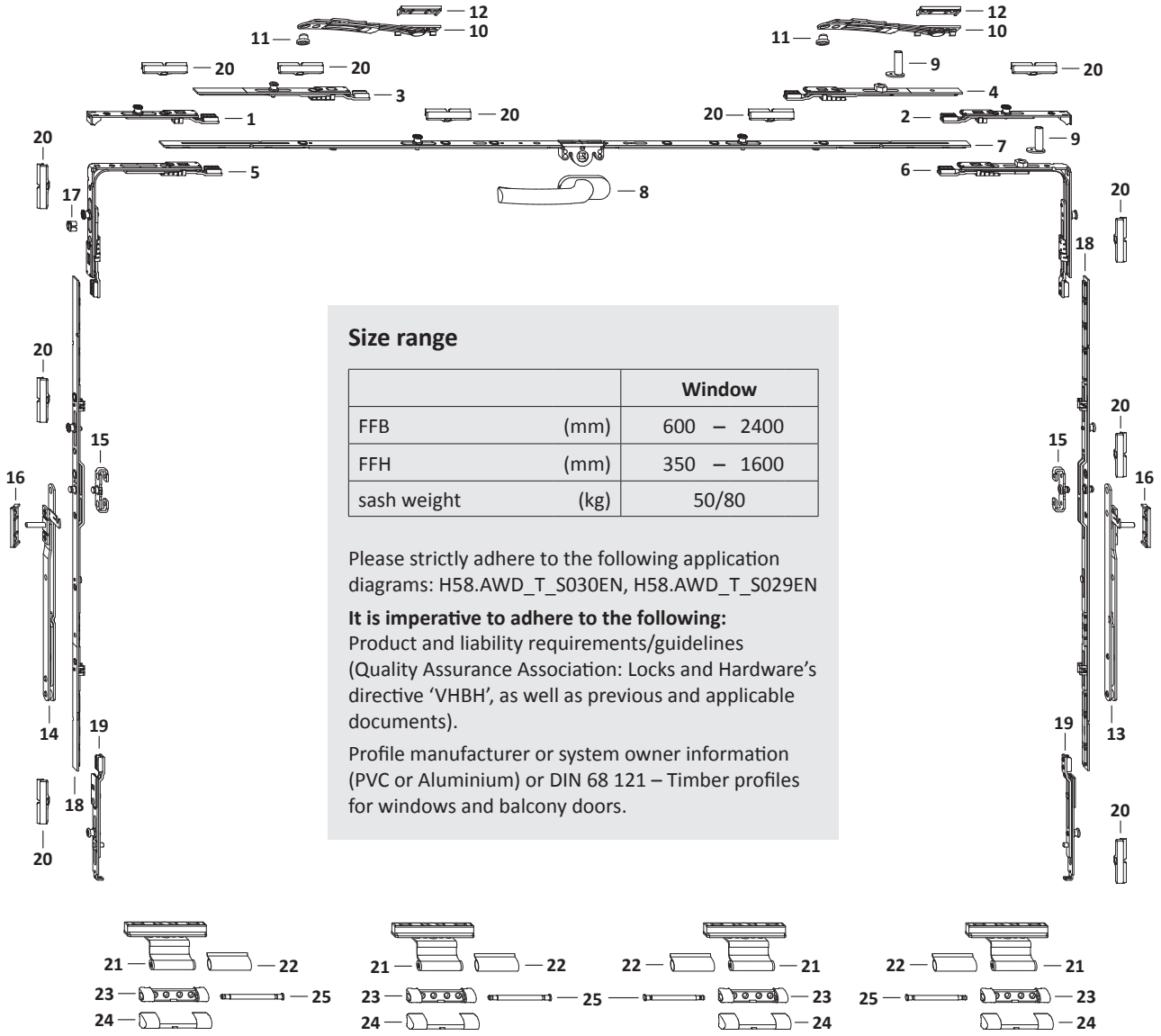
Hinge side TITAN

surface TS

backset 15 mm

Hardware layout AEROCONTROL

1-sash square tilt
PVC GM hinge side TITAN



Size range

		Window
FFB	(mm)	600 – 2400
FFH	(mm)	350 – 1600
sash weight	(kg)	50/80

Please strictly adhere to the following application diagrams: H58.AWD_T_S030EN, H58.AWD_T_S029EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's directive 'VHBH', as well as previous and applicable documents).

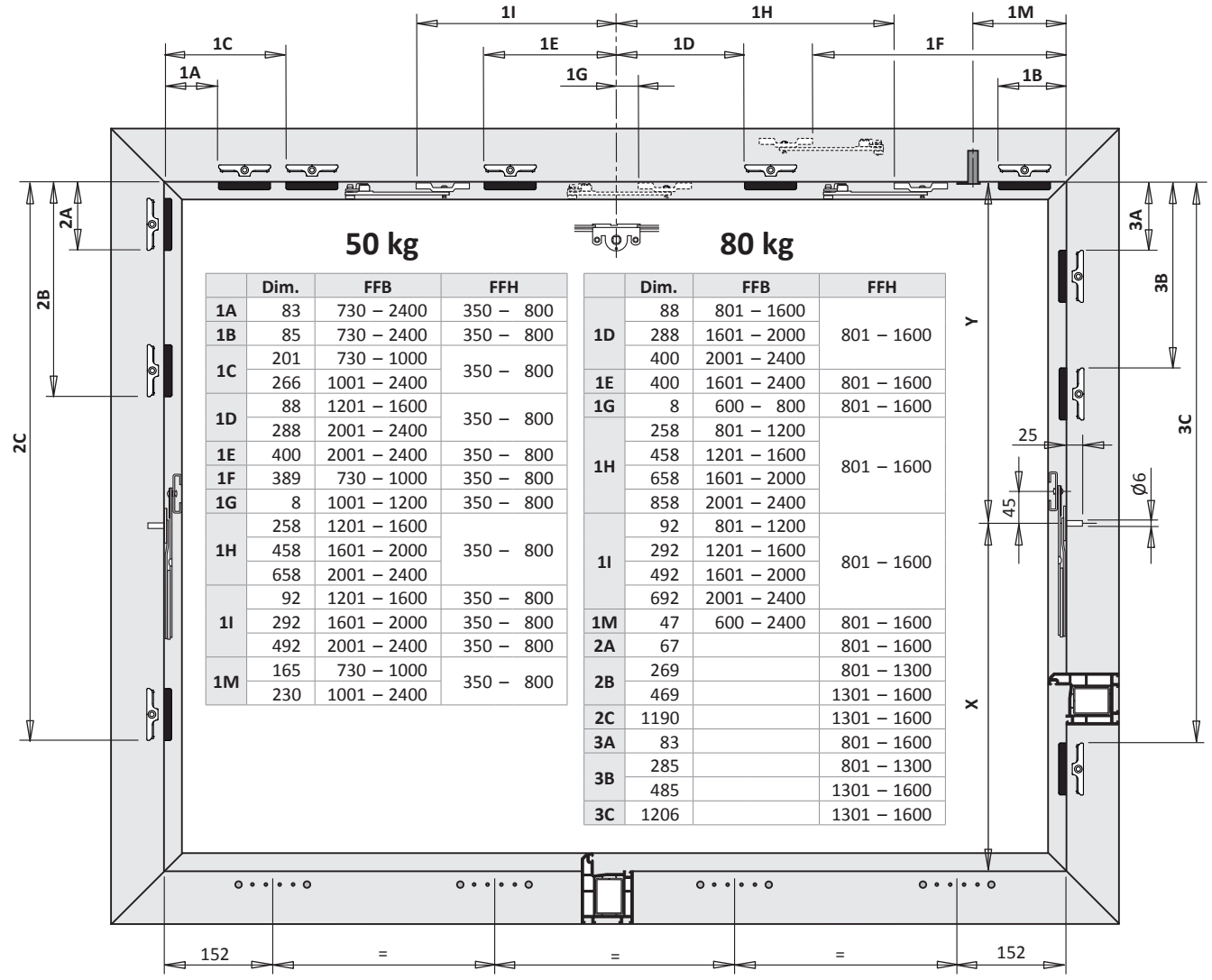
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Frame Parts Pos. 20
1	locking bolt AF VS 180° 1RS	TESC2020–...	1	730 – 2400	350 – 800		1
2	locking bolt AF tilt 90° 1RS	TESC2010–...	1	730 – 2400	350 – 800		1
3	linkage AF sz 1 1RS/A (65 mm cutting)	TZZS0200–...	1	730 – 1000	350 – 800		1
	linkage AF sz 1 1RS/A			1001 – 2400			
4	linkage AF UE sz 1 1M (65 mm cutting)	TZZS0160–...	1	730 – 1000	350 – 800		
	linkage AF UE sz 1 1M			1001 – 2400			
5	corner drive AF VSO 1RS	TEUL4010–...	1	600 – 2400	801 – 1600		1
6	corner drive AF VSO UE 1M 1RS	TEUL4100–...	1	600 – 2400	801 – 1600		
7	gear 15 AF sz 20	TGMK4010–...	1	730 – 1000	350 – 800	365 – 500	
	gear 15 AF sz 60	TGMK4020–...		1001 – 1200		500 – 600	
	gear 15 AF sz 80 1RS	TGMK4040–...		1201 – 1600		600 – 800	1
	gear 15 AF sz 120 1RS	TGMK4050–...		1601 – 2000		800 – 1000	1
	gear 15 AF sz 160 2RS 70	TGMK4170–...		2001 – 2400		1000 – 1200	2
	gear 15 AF sz 60	TGMK4020–...		600 – 800	801 – 1600	300 – 400	
	gear 15 AF sz 80 1RS	TGMK4040–...		801 – 1200		400 – 600	1
	gear 15 AF sz 120 1RS	TGMK4050–...		1201 – 1600		600 – 800	1
	gear 15 AF sz 160 2RS 70	TGMK4170–...		1601 – 2000		800 – 1000	2
	gear 15 AF sz 200 2RS	TGMK4080–...		2001 – 2400		1000 – 1200	2
8	handle Globe	Ref. EBS, ZHGS	1	600 – 2400			
9	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	600 – 2400			
10	telescopic tilt only stay	TSKF0020–...	1	730 – 1200	350 – 800		
			2	1201 – 2400			
			1	600 – 800	801 – 1600		
			2	801 – 2400			
11	lock.bolt f.rais.ring facepl.	TFZB0050–...	1	730 – 1200	350 – 800		
			2	1201 – 2400			
			1	600 – 800	801 – 1600		
			2	801 – 2400			
12	packer RB/FPS A....	Ref. PDB, FRUP02	1	730 – 1200	350 – 800		
			2	1201 – 2400			
			1	600 – 800	801 – 1600		
			2	801 – 2400			
13	tilt only safety stay 25 sz 1 rh.	ASFP0031–...	1	600 – 2400	350 – 500		
	tilt only safety stay 25 sz 2 rh.	ASFP0041–...			501 – 800		
	tilt only safety stay 25 sz 1 rh.	ASFP0031–...			801 – 1000		
	tilt only safety stay 25 sz 2 rh.	ASFP0041–...			1001 – 1600		
14	tilt only safety stay 25 sz 1 lh.	ASFP0032–...	1	600 – 2400	350 – 500		
	tilt only safety stay 25 sz 2 lh.	ASFP0042–...			501 – 800		
	tilt only safety stay 25 sz 1 lh.	ASFP0032–...			801 – 1000		
	tilt only safety stay 25 sz 2 lh.	ASFP0042–...			1001 – 1600		
15	fixing claw UGRP	ZFFP0010–...	2		350 – 800		
16	packer RB/FPS A....	Ref. PDB, FRUP02	2		350 – 1600		
17	travel restrictor	TFHB0010–...	1		801 – 1600		
18	linkage FPS/ZZ 1RS (200 mm cutting above)	TZZZ0040–...	2		801 – 1300		2
	linkage FPS/ZZ 1RS				1301 – 1600		
19	locking bolt AF VSU/K 1RS	TESC3020–...	2		1301 – 1600		2
20	striker plate S 56 A....	Ref. PDB, TRSM					

Hinge side turning points							
Pos.	Description	Part number			QTY - FFB		
		Oberfläche TS	RAL9016	RAL8022	600 – 800	801 – 1800	1801 – 2400
21	tilt sash hinge PVC	Ref. PDB, TBKF			2	3	4
22	cover cap W PVC		TKWB0010– 004...	TKWB0010– 012...	2	3	4
23	top hinge DH PVC	Ref. PDB, TBSL61			2	3	4
24	cover cap S		TKSL0020– 004...	TKSL0020– 012...	2	3	4
25	top hinge pin Poly	TBSB6020– 1...			2	3	4

Frame dimensions AEROCONTROL

1-sash square tilt
PVC GM hinge side TITAN



50 kg

	Dim.	FFB	FFH
1A	83	730 – 2400	350 – 800
1B	85	730 – 2400	350 – 800
1C	201	730 – 1000	350 – 800
	266	1001 – 2400	
1D	88	1201 – 1600	350 – 800
	288	2001 – 2400	
1E	400	2001 – 2400	350 – 800
1F	389	730 – 1000	350 – 800
1G	8	1001 – 1200	350 – 800
1H	258	1201 – 1600	350 – 800
	458	1601 – 2000	
	658	2001 – 2400	
1I	92	1201 – 1600	350 – 800
	292	1601 – 2000	350 – 800
	492	2001 – 2400	350 – 800
1M	165	730 – 1000	350 – 800
	230	1001 – 2400	

80 kg

	Dim.	FFB	FFH
1D	88	801 – 1600	801 – 1600
	288	1601 – 2000	
	400	2001 – 2400	
1E	400	1601 – 2400	801 – 1600
1G	8	600 – 800	801 – 1600
1H	258	801 – 1200	801 – 1600
	458	1201 – 1600	
	658	1601 – 2000	
	858	2001 – 2400	
1I	92	801 – 1200	801 – 1600
	292	1201 – 1600	
	492	1601 – 2000	
	692	2001 – 2400	
1M	47	600 – 2400	801 – 1600
2A	67		801 – 1600
2B	269		801 – 1300
	469		1301 – 1600
2C	1190		1301 – 1600
3A	83		801 – 1600
3B	285		801 – 1300
	485		1301 – 1600
3C	1206		1301 – 1600

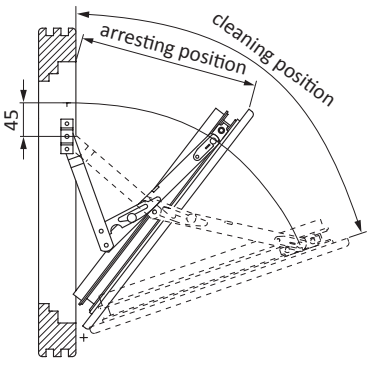
Dimensions in mm

All striker positions are frame rebate dimensions on assembled frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

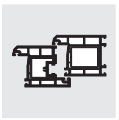
11

50 kg	Dim.	FFB	FFH	ASFP	Opening width – arresting position	Opening angle – cleaning position
X	230	730 – 2400	350 – 500	Gr.1	278 – 385	ca. 78°
	370		501 – 800	Gr.2	238 – 370	ca. 80°
80 kg						
Y	120	600 – 2400	350 – 500	Gr.1	256 – 235	71° – 45°
	120		501 – 800	Gr.2	220 – 205	72° – 41°
	402		801 – 1000	Gr.1	351 – 305	43° – 30°
	402		1001 – 1300	Gr.2	285 – 253	47° – 32°
	602		1301 – 1600	Gr.2	319 – 281	40° – 29°



TITAN AF

Installation instructions



RC1

AEROCONTROL

1-sash square tilt-turn

PVC

RC1

fixed handle position and centre handle pos. (variable)

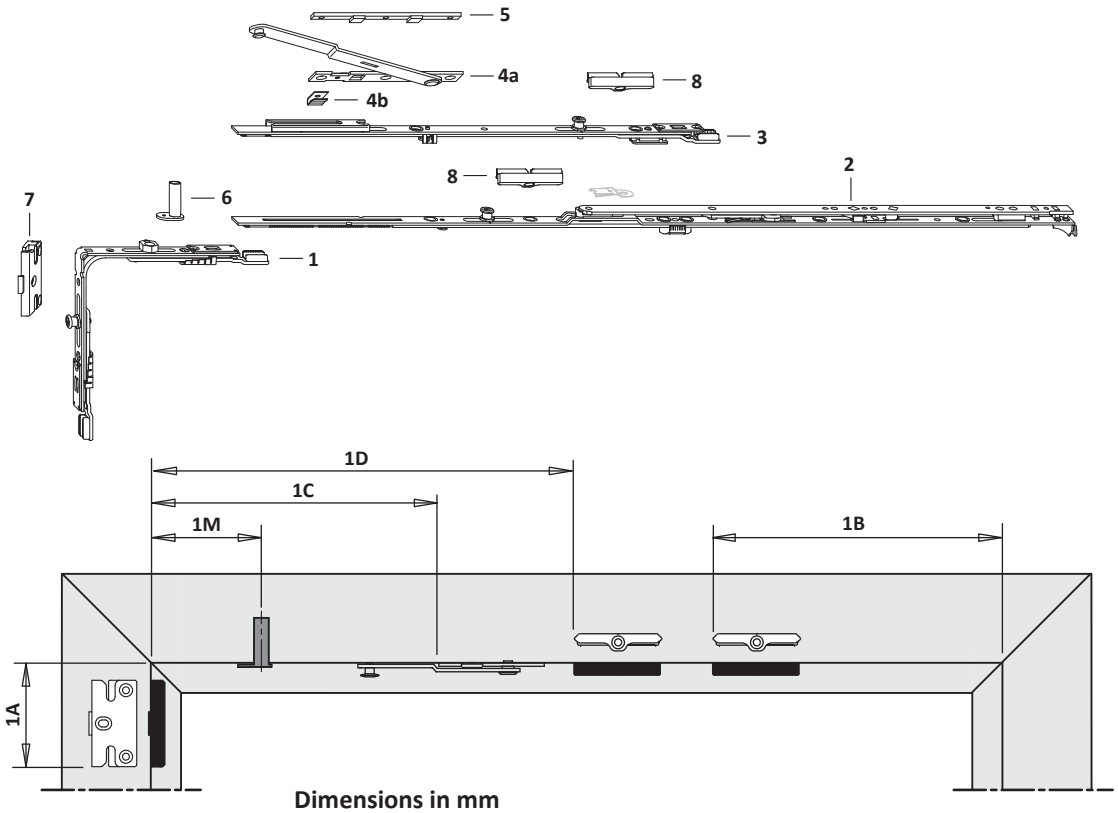
surface TS

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AEROCONTROL

1-sash square tilt-turn
PVC

FFB 330 – 1650



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

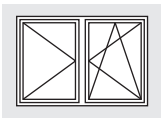
RFB = FFB + 24 mm
RFH = FFH + 24 mm

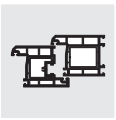
	Dimension	FFB
1M	103	330 – 1650
1A	67	330 – 1650
1B	556	851 – 1650
1C	307	1251 – 1650
1D	466	1251 – 1650

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre (variable)	Frame Parts Pos. 7	Frame Parts Pos. 8
1	corner drive AF VSO UE 1M 1RS	TEUL4100–...	1	330 – 1650	410 – 3000	460 – 3000	1	
2	stay AF sz 0	TSKK2000–...	1	330 – 450				
	stay AF sz 1	TSKK2010–...		451 – 680				
	stay AF sz 2	TSKK2020–...		681 – 850				
	stay AF sz 3 1RS	TSKK2030–...		851 – 1050				1
	stay AF sz 4 1RS	TSKK2040–...		1051 – 1250				1
	stay AF sz 3 1RS	TSKK2030–...		1251 – 1450				1
	stay AF sz 4 1RS	TSKK2040–...		1451 – 1650				1
3	linkage additional stay 1RS	TZOK1010–...	1	1251 – 1650				1
4	additional stay	Ref. PDB, TSZS	1	1251 – 1650				
5	packer Z A....	Ref. PDB, FRUP01	1	1251 – 1650				
6	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	330 – 1650				
7	striker plate S-RS A....	Ref. PDB, TRSK						
8	striker plate S 56 A....	Ref. PDB, TRSM						

TITAN AF

Installation instructions





RC1

AEROCONTROL

2-sash square tilt-turn/turn DS 16

PVC

RC1

fixed handle position and centre handle pos. (variable)

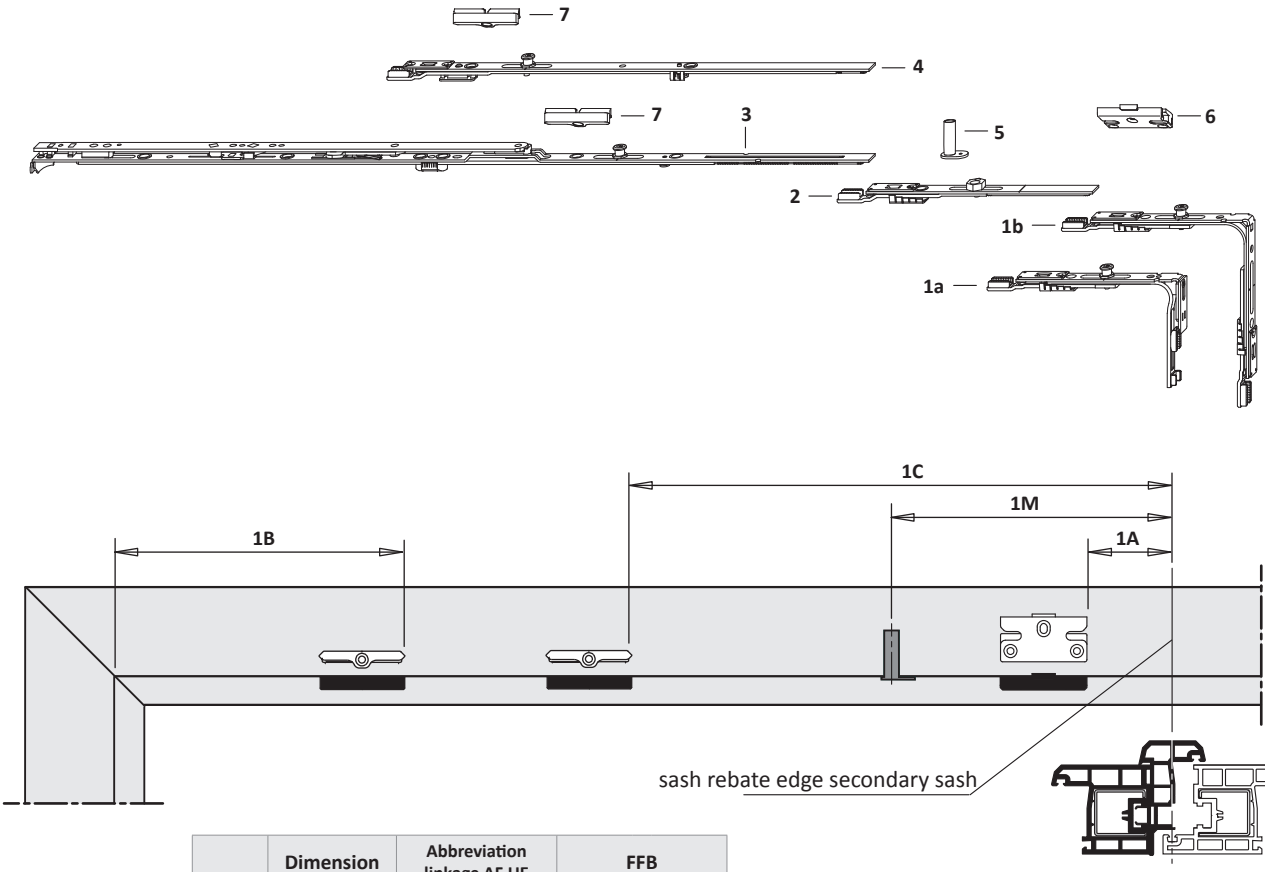
surface TS

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AEROCONTROL slave sash

2-sash square tilt-turn/turn DS 16
PVC

FFB 465 – 1480



	Dimension	Abbreviation linkage AF UE	FFB
1M	209	65	465 – 530
	274		531 – 1480
1A	71		465 – 1480
1B	460		881 – 1080
	556		1081 – 1250
	460		1281 – 1480
1C	654		1251 – 1480

Dimensions in mm

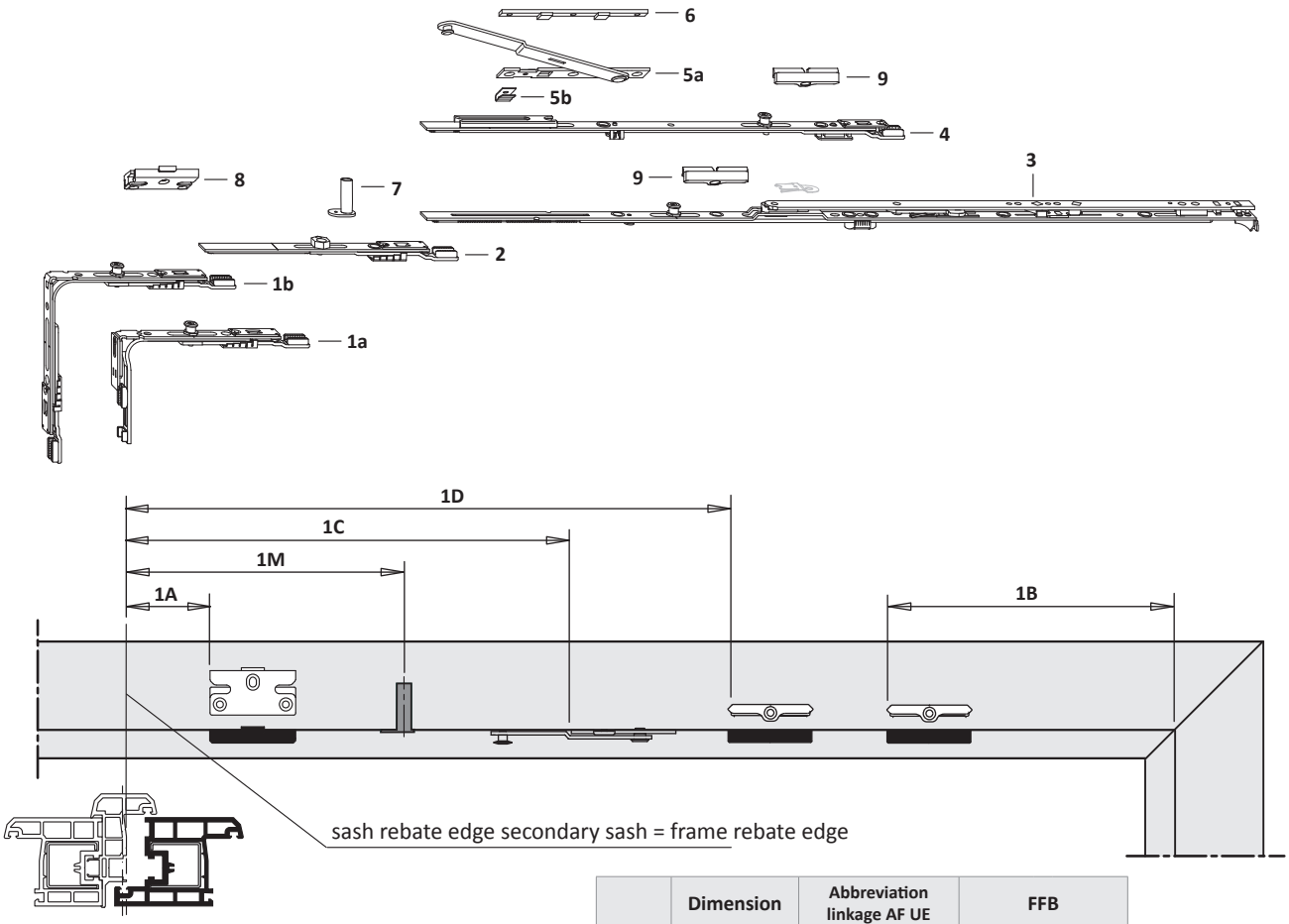
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

11

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre (variable)	Frame Parts Pos. 6	Frame Parts Pos. 7
1a	corner drive AF VSO narrow 1RS	TEUL4020–...	1	465 – 1480	310 – 410	310 – 460	1	
1b	corner drive AF VSO 1RS	TEUL4010–...		465 – 1480	411 – 3000	461 – 3000	1	
2	linkage AF UE sz 1 1M	TZZS0160–...	1	465 – 1480				
3	stay AF sz 0	TSKK2000–...	1	465 – 680				
	stay AF sz 1	TSKK2010–...		681 – 880				
	stay AF sz 2 1RS	TSKK2120–...		881 – 1080				1
	stay AF sz 3 1RS	TSKK2030–...		1081 – 1250				1
	stay AF sz 1	TSKK2010–...		1251 – 1280				
	stay AF sz 2 1RS	TSKK2120–...		1281 – 1480				1
4	linkage KK/AF sz 2 1RS	TZKK1020–...	1	1251 – 1480				1
5	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	465 – 1480				
6	striker plate S-RS A....	Ref. PDB, TRSK						
7	striker plate S 56 A....	Ref. PDB, TRSM						

FFB 465 – 1650



	Dimension	Abbreviation linkage AF UE	FFB
1M	221	65	465 – 530
	286		531 – 1650
1A	83		465 – 1650
1B	460		881 – 1080
	556		1081 – 1250
	460		1281 – 1480
	556		1481 – 1650
1C	507		1251 – 1650
1D	666		1251 – 1650

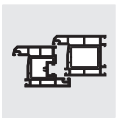
Dimensions in mm
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre (variable)	Frame Parts Pos. 8	Frame Parts Pos. 9
1a	corner drive AF VSO narrow 1RS	TEUL4020–...	1	465 – 1650	310 – 410	310 – 460	1	
1b	corner drive AF VSO 1RS	TEUL4010–...		465 – 1650	411 – 3000	461 – 3000	1	
2	linkage AF UE sz 1 1M	TZZS0160–...	1	465 – 1650				
3	stay AF sz 0	TSKK2000–...	1	465 – 680				
	stay AF sz 1	TSKK2010–...		681 – 880				
	stay AF sz 2 1RS	TSKK2120–...		881 – 1080				1
	stay AF sz 3 1RS	TSKK2030–...		1081 – 1250				1
	stay AF sz 1	TSKK2010–...		1251 – 1280				
	stay AF sz 2 1RS	TSKK2120–...		1281 – 1480				1
	stay AF sz 3 1RS	TSKK2030–...		1481 – 1650				1
4	linkage additional stay 1RS	TZOK1010–...	1	1251 – 1650				1
5	additional stay	Ref. PDB, TSZS	1	1251 – 1650				
6	packer Z A....	Ref. PDB, FRUP01	1	1251 – 1650				
7	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	465 – 1650				
8	striker plate S-RS A....	Ref. PDB, TRSK						
9	striker plate S 56 A....	Ref. PDB, TRSM						

TITAN AF

Installation instructions



RC2

AEROCONTROL

1-sash square tilt-turn

PVC

RC2

fixed handle position and centre handle pos. (variable)

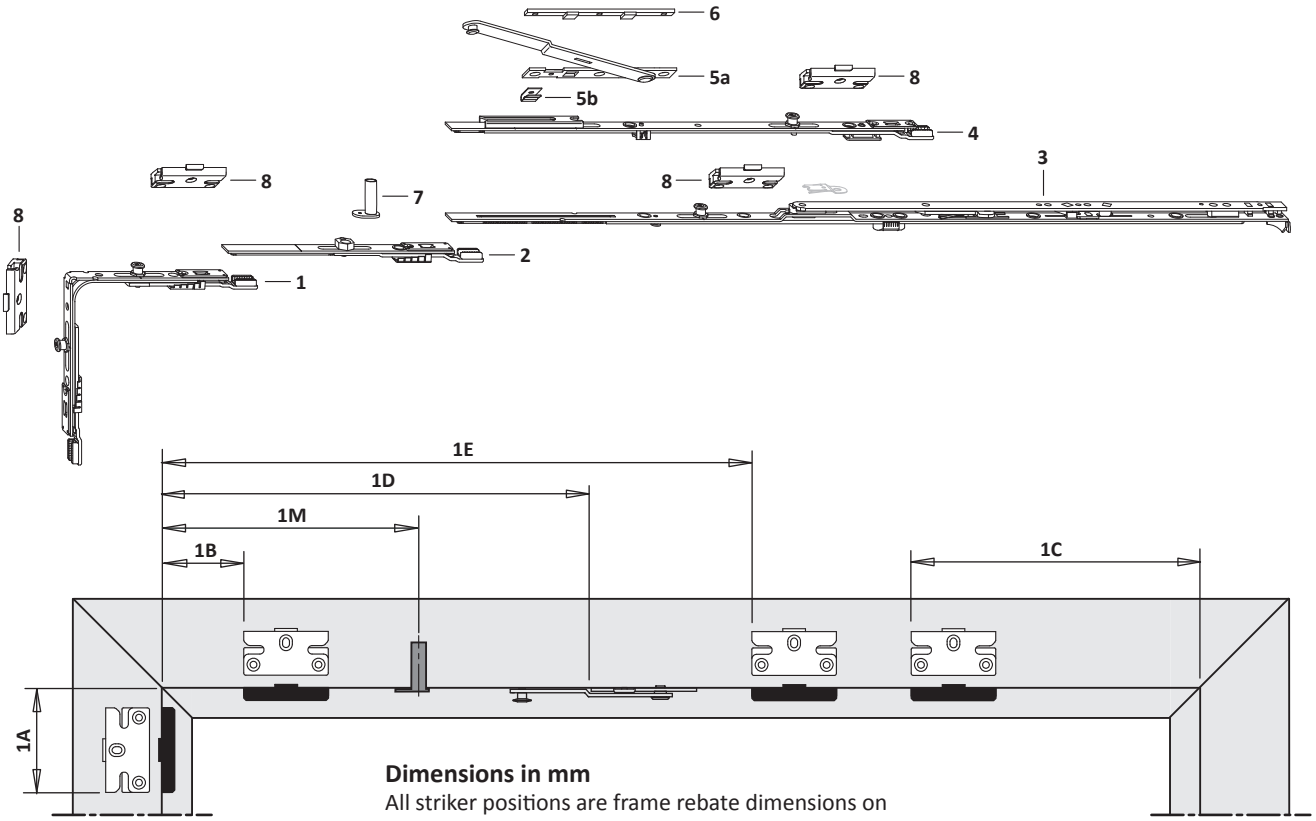
surface TS

All further necessary information on the AEROCONTROL programme (opening and closure monitoring) like magnetic switches, assembly and connection instructions and the extensive accessory programme can be taken from our separate product catalogue DRIVE - AEROCONTROL.

AEROCONTROL

1-sash square tilt-turn
PVC

FFB 465 – 1650



Dimensions in mm
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

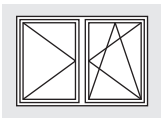
RFB = FFB + 24 mm
RFH = FFH + 24 mm

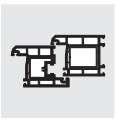
	Dimension	Abbreviation linkage AF UE	FFB
1M	221	65	465 – 530
	286		531 – 1650
1A	67		465 – 1650
1B	83		465 – 1650
1C	460		881 – 1080
	556		1081 – 1250
	460		1281 – 1480
	556		1481 – 1650
1D	507		1251 – 1650
1E	666		1251 – 1650

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre (variable)	Frame Parts Pos. 8
1	corner drive AF VSO 2RS A0055	TEUL4070–...	1	465 – 1650	410 – 3000	460 – 3000	2
2	linkage AF UE sz 1 1M	TZZS0160–...	1	465 – 1650			
3	stay AF sz 0	TSKK2000–...	1	465 – 680			
	stay AF sz 1	TSKK2010–...		681 – 880			
	stay AF sz 2 1RS	TSKK2120–...		881 – 1080			1
	stay AF sz 3 1RS	TSKK2030–...		1081 – 1250			1
	stay AF sz 1	TSKK2010–...		1251 – 1280			
	stay AF sz 2 1RS	TSKK2120–...		1281 – 1480			1
	stay AF sz 3 1RS	TSKK2030–...		1481 – 1650			1
4	linkage additional stay 1RS	TZOK1010–...	1	1251 – 1650			1
5	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
6	packer Z A....	Ref. PDB, FRUP01	1	1251 – 1650			
7	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	465 – 1650			
8	striker plate S-RS A....	Ref. PDB, TRSK					

TITAN AF

Installation instructions





RC2

AEROCONTROL

2-sash square tilt-turn/turn DS 16

PVC

RC2

fixed handle position and centre handle pos. (variable)

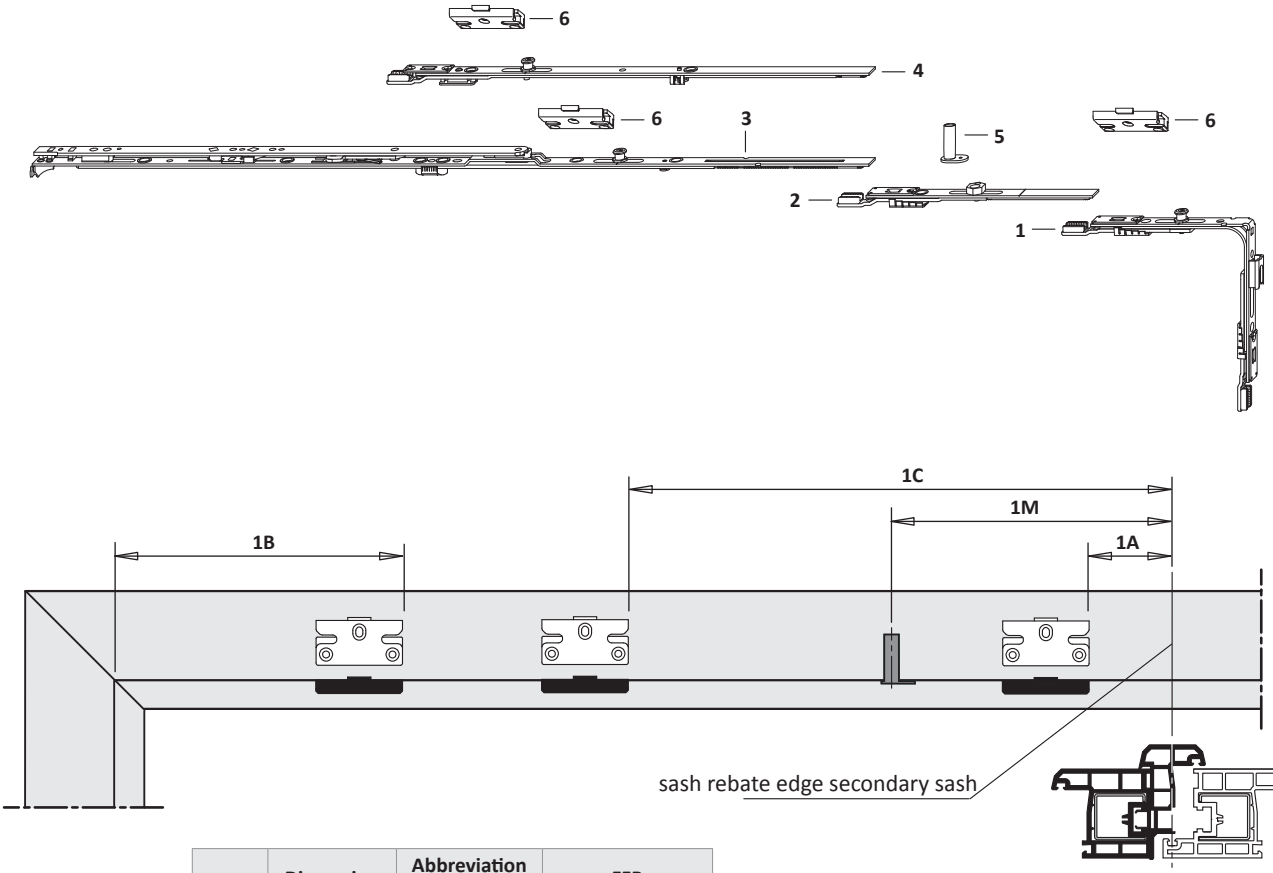
surface TS

All further necessary information on the AEROCONTROL programme (opening and closure monitoring) like magnetic switches, assembly and connection instructions and the extensive accessory programme can be taken from our separate product catalogue DRIVE - AEROCONTROL.

AEROCONTROL AEROCONTROL slave sash

2-sash square tilt-turn/turn DS 16
PVC

FFB 465 – 1480



	Dimension	Abbreviation Pos. 2	FFB
1M	209	65	465 – 530
	274		531 – 1480
1A	71		465 – 1480
1B	460		881 – 1080
	556		1081 – 1250
	460		1281 – 1480
1C	654		1251 – 1480

Dimensions in mm

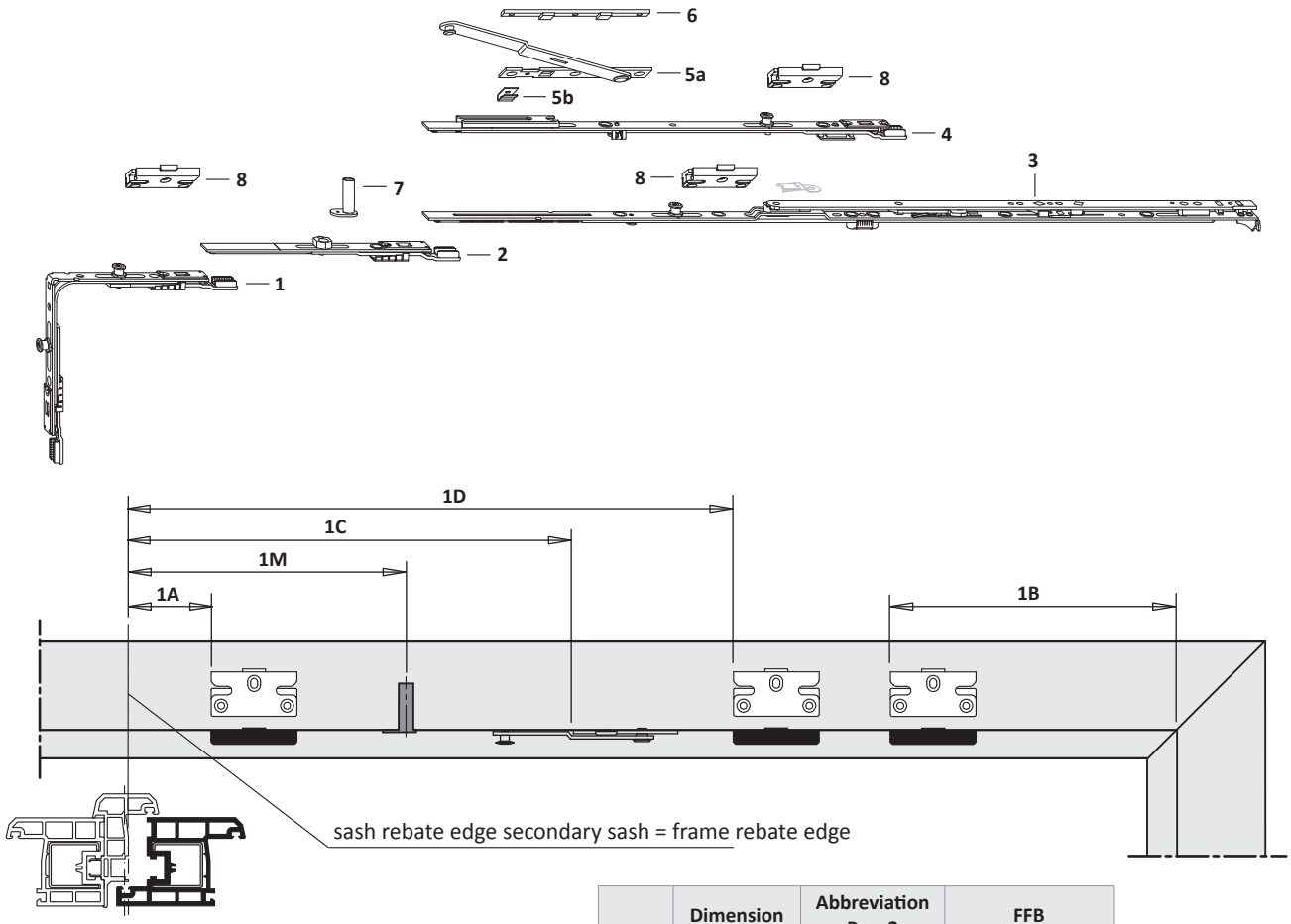
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

11

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre (variable)	Frame Parts Pos. 6
1	corner drive AF VSO WK2 SB 1RS	TEUL4080–...	1	465 – 1480	410 – 3000	460 – 3000	1
2	linkage AF UE sz 1 1M	TZZS0160–...	1	465 – 1480			
3	stay AF sz 0	TSKK2000–...	1	465 – 680			
	stay AF sz 1	TSKK2010–...		681 – 880			
	stay AF sz 2 1RS	TSKK2120–...		881 – 1080			1
	stay AF sz 3 1RS	TSKK2030–...		1081 – 1250			1
	stay AF sz 1	TSKK2010–...		1251 – 1280			
	stay AF sz 2 1RS	TSKK2120–...		1281 – 1480			1
4	linkage KK/AF sz 2 1RS	TZKK1020–...	1	1251 – 1480			1
5	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	465 – 1480			
6	striker plate S-RS A....	Ref. PDB, TRSK					

FFB 465 – 1650



Dimensions in mm
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

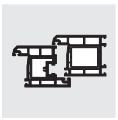
	Dimension	Abbreviation Pos. 2	FFB
1M	221	65	465 – 530
	286		531 – 1650
1A	83		465 – 1650
1B	460		881 – 1080
	556		1081 – 1250
	460		1281 – 1480
	556		1481 – 1650
1C	507		1251 – 1650
1D	666		1251 – 1650

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre (variable)	Frame Parts Pos. 8
1	corner drive AF VSO 2RS A0055	TEUL4070–...	1	465 – 1650	410 – 3000	460 – 3000	1
2	linkage AF UE sz 1 1M	TZZS0160–...	1	465 – 1650			
3	stay AF sz 0	TSKK2000–...	1	465 – 680			
	stay AF sz 1	TSKK2010–...		681 – 880			
	stay AF sz 2 1RS	TSKK2120–...		881 – 1080			1
	stay AF sz 3 1RS	TSKK2030–...		1081 – 1250			1
	stay AF sz 1	TSKK2010–...		1251 – 1280			
	stay AF sz 2 1RS	TSKK2120–...		1281 – 1480			1
	stay AF sz 3 1RS	TSKK2030–...		1481 – 1650			1
4	linkage additional stay 1RS	TZOK1010–...	1	1251 – 1650			1
5	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
6	packer Z A....	Ref. PDB, FRUP01	1	1251 – 1650			
7	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	465 – 1650			
8	striker plate S-RS A....	Ref. PDB, TRSK					

TITAN AF

Installation instructions





RC2
ECO

AEROCONTROL

1-sash square tilt-turn

PVC

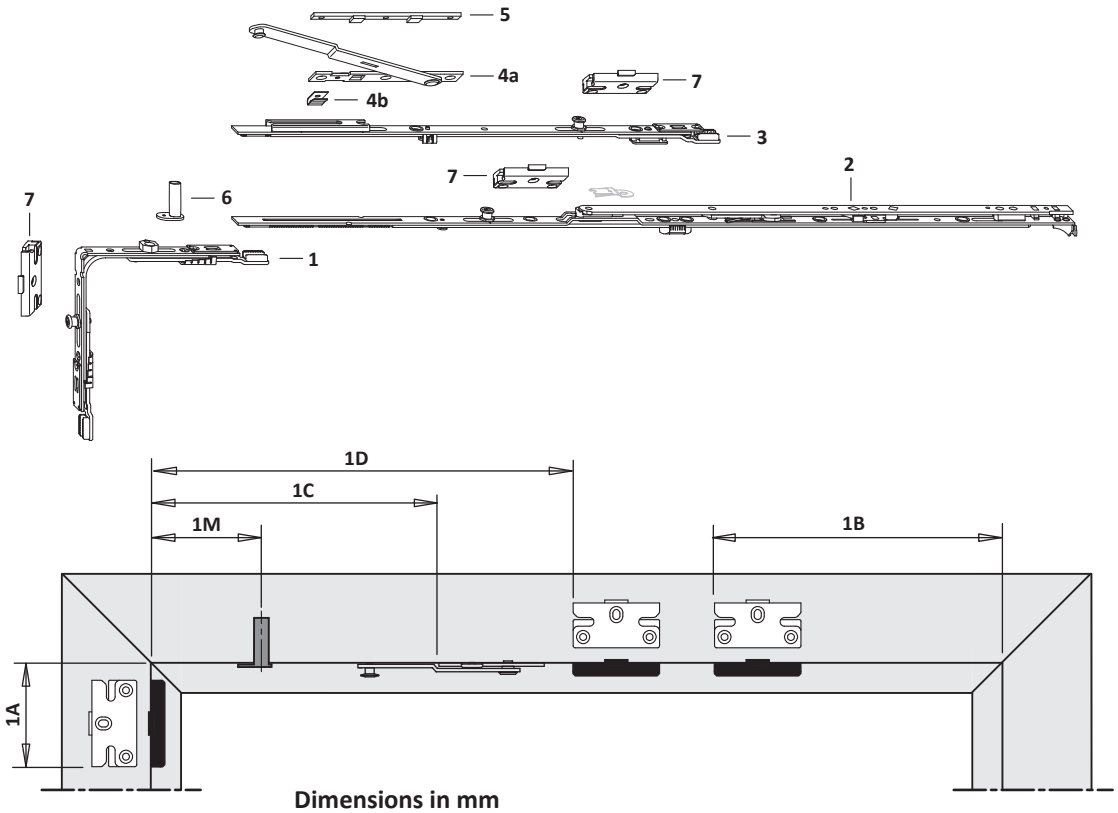
RC2 ECO

fixed handle position and centre handle pos. (variable)

surface TS

All further necessary information on the AEROCONTROL programme (opening and closure monitoring) like magnetic switches, assembly and connection instructions and the extensive accessory programme can be taken from our separate product catalogue DRIVE - AEROCONTROL.

FFB 330 – 1650



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

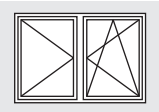
	Dimension	FFB
1M	103	330 – 1650
1A	67	330 – 1650
1B	556	851 – 1650
1C	307	1251 – 1650
1D	466	1251 – 1650

11

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre (variable)	Frame Parts Pos. 7
1	corner drive AF VSO UE 1M 1RS	TEUL4100–...	1	330 – 1650	410 – 3000	460 – 3000	1
2	stay AF sz 0	TSKK2000–...	1	330 – 450			
	stay AF sz 1	TSKK2010–...		451 – 680			
	stay AF sz 2	TSKK2020–...		681 – 850			
	stay AF sz 3 1RS	TSKK2030–...		851 – 1050			1
	stay AF sz 4 1RS	TSKK2040–...		1051 – 1250			1
	stay AF sz 3 1RS	TSKK2030–...		1251 – 1450			1
	stay AF sz 4 1RS	TSKK2040–...		1451 – 1650			1
3	linkage additional stay 1RS	TZOK1010–...	1	1251 – 1650			1
4	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
5	packer Z A....	Ref. PDB, FRUP01	1	1251 – 1650			
6	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	330 – 1650			
7	striker plate S-RS A....	Ref. PDB, TRSK					

TITAN AF

Installation instructions



RC2
ECO

AEROCONTROL

2-sash square tilt-turn/turn DS 16

PVC

RC2 ECO

fixed handle position and centre handle pos. (variable)

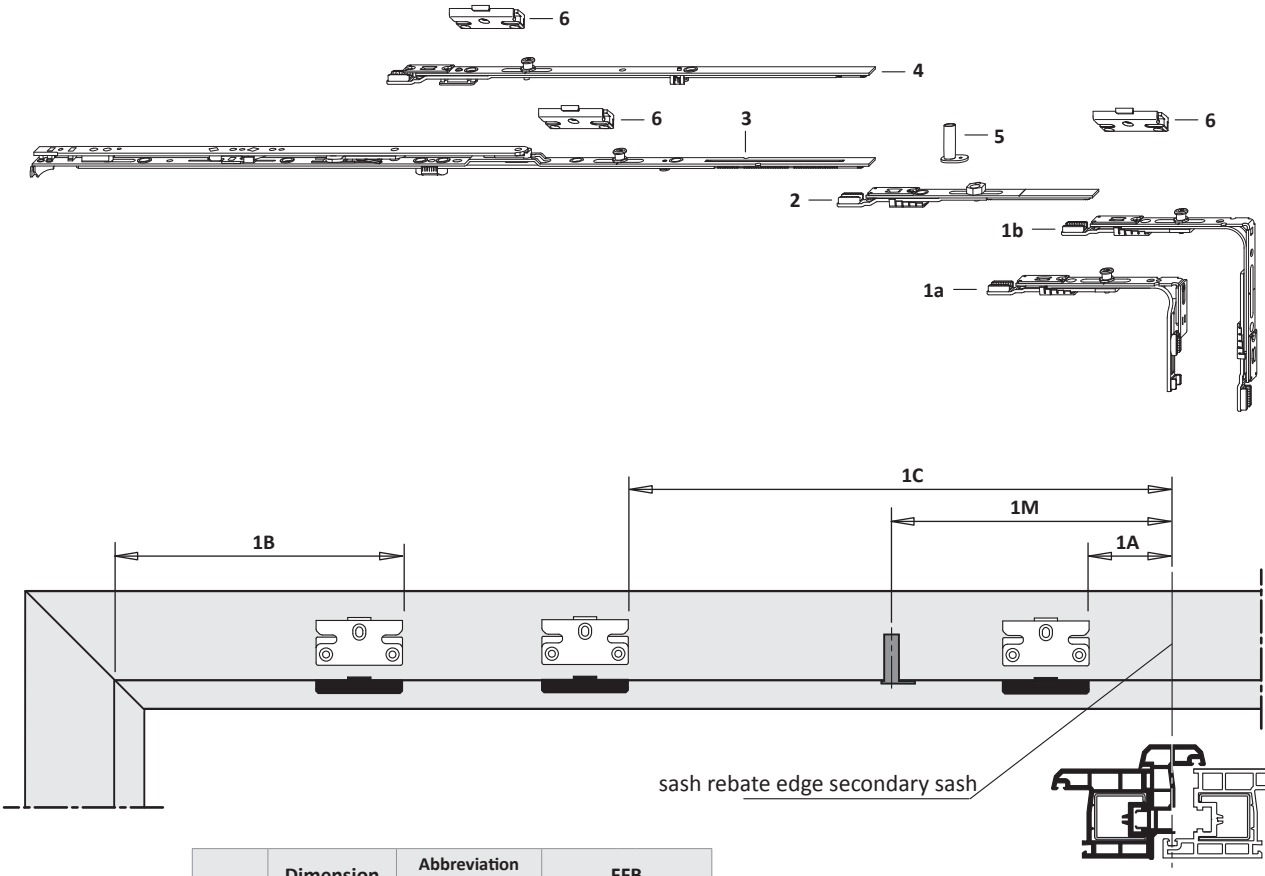
surface TS

All further necessary information on the AEROCONTROL programme (opening and closure monitoring) like magnetic switches, assembly and connection instructions and the extensive accessory programme can be taken from our separate product catalogue DRIVE - AEROCONTROL.

AEROCONTROL slave sash

2-sash square tilt-turn/turn DS 16
PVC

FFB 465 – 1480



	Dimension	Abbreviation Pos. 2	FFB
1M	209	65	465 – 530
	274		531 – 1480
1A	71		465 – 1480
1B	460		881 – 1080
	556		1081 – 1250
	460		1281 – 1480
1C	654		1251 – 1480

Dimensions in mm

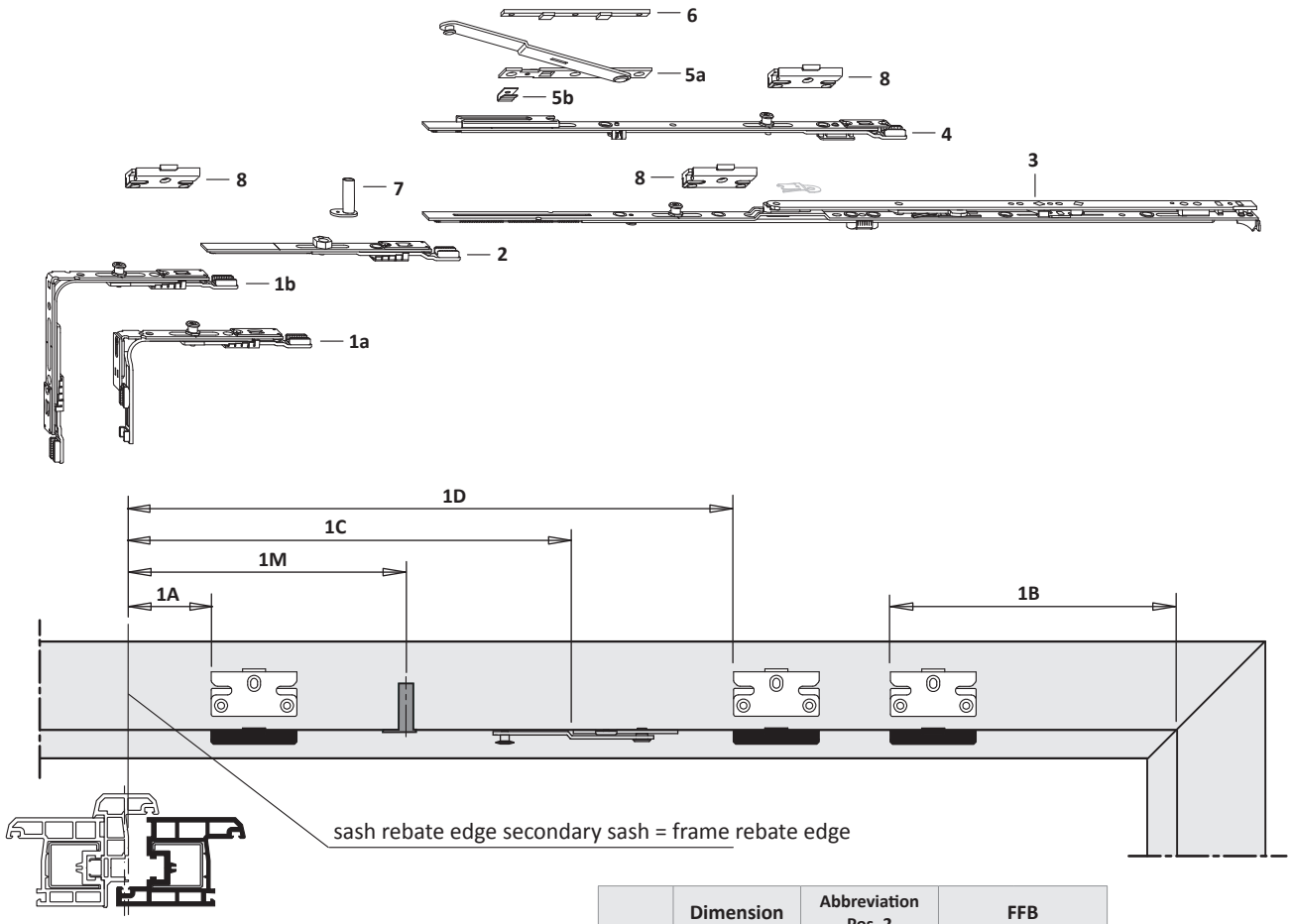
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

11

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre (variable)	Frame Parts Pos. 6
1a	corner drive AF VSO narrow 1RS	TEUL4020–...	1	465 – 1480	310 – 410	310 – 460	1
1b	corner drive AF VSO 1RS	TEUL4010–...		465 – 1480	411 – 3000	461 – 3000	1
2	linkage AF UE sz 1 1M	TZZS0160–...	1	465 – 1480			
3	stay AF sz 0	TSKK2000–...	1	465 – 680			
	stay AF sz 1	TSKK2010–...		681 – 880			
	stay AF sz 2 1RS	TSKK2120–...		881 – 1080			1
	stay AF sz 3 1RS	TSKK2030–...		1081 – 1250			1
	stay AF sz 1	TSKK2010–...		1251 – 1280			
	stay AF sz 2 1RS	TSKK2120–...		1281 – 1480			1
4	linkage KK/AF sz 2 1RS	TZKK1020–...	1	1251 – 1480			1
5	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	465 – 1480			
6	striker plate S-RS A....	Ref. PDB, TRSK					

FFB 465 – 1650



Dimensions in mm
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	Abbreviation Pos. 2	FFB
1M	221	65	465 – 530
	286		531 – 1650
1A	83		465 – 1650
1B	460		881 – 1080
	556		1081 – 1250
	460		1281 – 1480
	556		1481 – 1650
1C	507		1251 – 1650
1D	666		1251 – 1650

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre (variable)	Frame Parts Pos. 8
1a	corner drive AF VSO narrow 1RS	TEUL4020–...	1	465 – 1650	310 – 410	310 – 460	1
1b	corner drive AF VSO 1RS	TEUL4010–...		465 – 1650	411 – 3000	461 – 3000	1
2	linkage AF UE sz 1 1M	TZZS0160–...	1	465 – 1650			
3	stay AF sz 0	TSKK2000–...	1	465 – 680			
	stay AF sz 1	TSKK2010–...		681 – 880			
	stay AF sz 2 1RS	TSKK2120–...		881 – 1080			1
	stay AF sz 3 1RS	TSKK2030–...		1081 – 1250			1
	stay AF sz 1	TSKK2010–...		1251 – 1280			
	stay AF sz 2 1RS	TSKK2120–...		1281 – 1480			1
	stay AF sz 3 1RS	TSKK2030–...		1481 – 1650			1
4	linkage additional stay 1RS	TZOK1010–...	1	1251 – 1650			1
5	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
6	packer Z A....	Ref. PDB, FRUP01	1	1251 – 1650			
7	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	465 – 1650			
8	striker plate S-RS A....	Ref. PDB, TRSK					

Basic security

1-sash square tilt-turn	H48.TAFKFK0S031EN	12 - 3

RC1

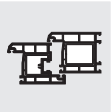
1-sash square tilt-turn	H48.TAFKFK1S018EN	12 - 9

RC2

1-sash square tilt-turn	H48.TAFKFK2+S009EN	12 - 15

TITAN AF

Installation instructions



GS

1-sash square tilt-turn

stay handle driven

PVC

basic security

fixed handle position

hinge side TITAN

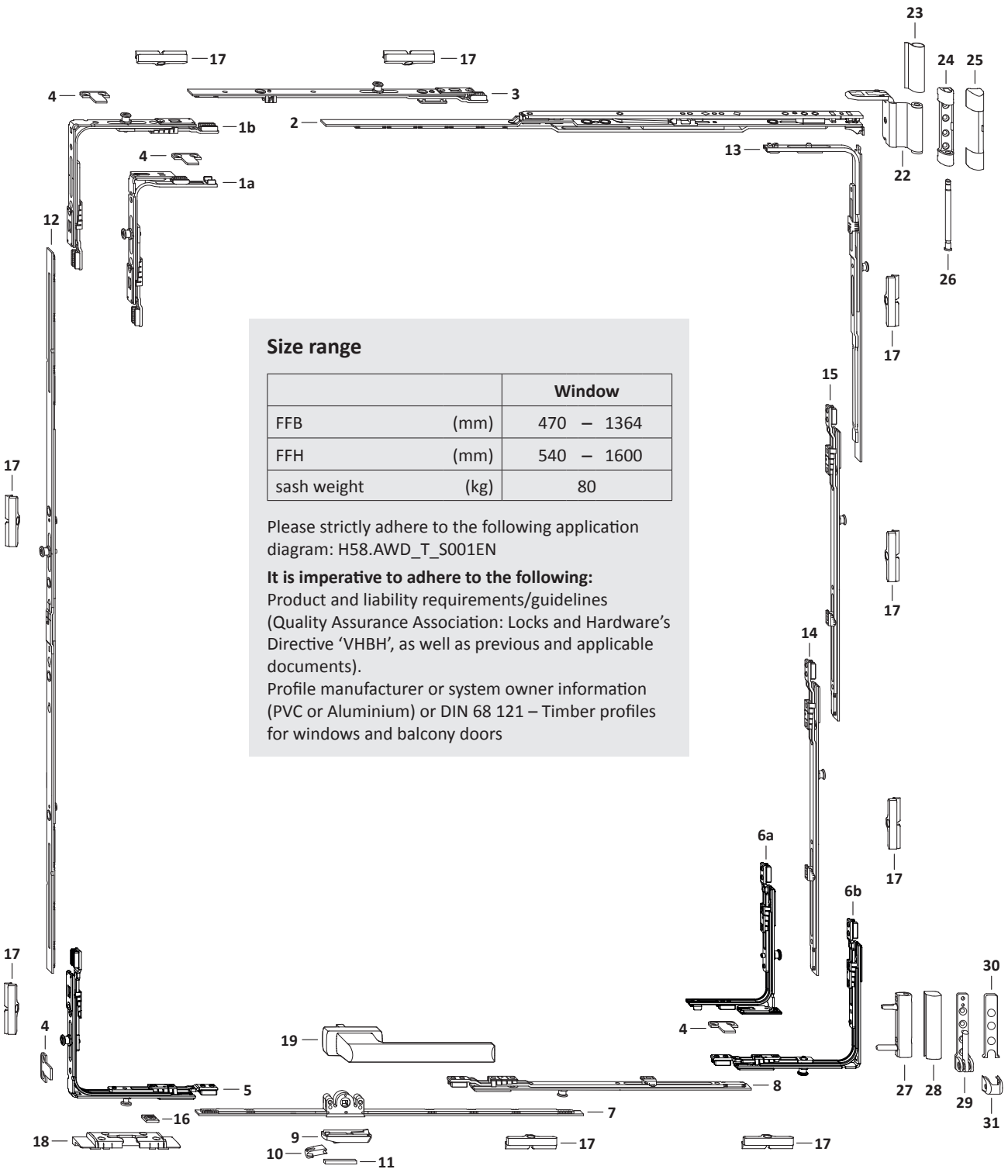
surface TS

backset 15 mm

bottom: Inliner

Hardware layout

1-sash square tilt-turn
PVC GK hinge side TITAN



Size range

		Window
FFB	(mm)	470 – 1364
FFH	(mm)	540 – 1600
sash weight	(kg)	80

Please strictly adhere to the following application diagram: H58.AWD_T_S001EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors

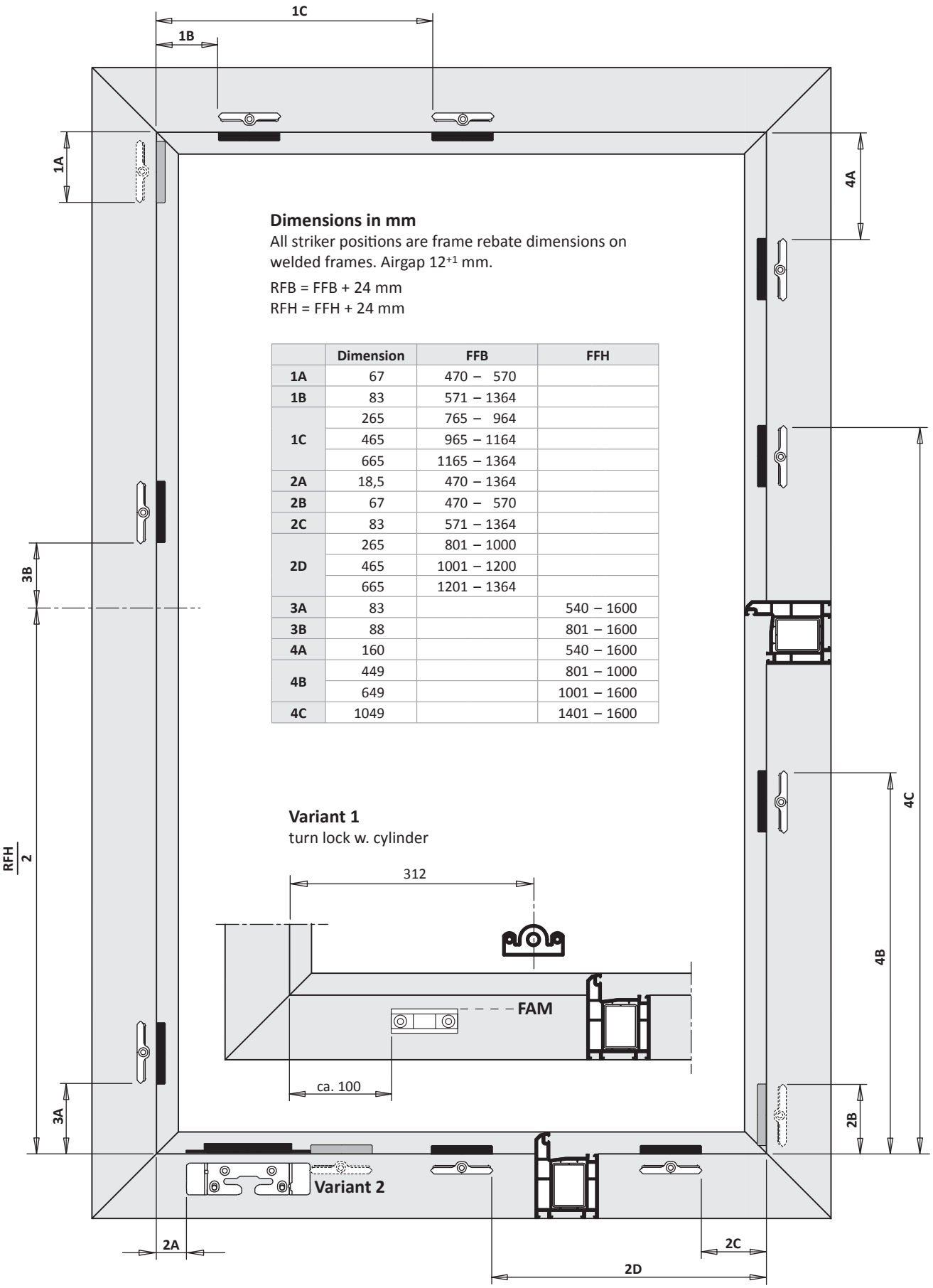
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Frame Parts	
							Pos. 17	Pos. 18
1a	corner drive AF VSO narrow 1RS	TEUL4020–...	1	470 – 570			1	
1b	corner drive AF VSO 1RS	TEUL4010–...		571 – 1364			1	
2	stay AF/iP Z rh.	TSZK0011–...	1	470 – 1364				
	stay AF/iP Z lh.	TSZK0012–...						
3	linkage KK/AF sz 1 1RS	TZKK1010–...	1	765 – 964			1	
	linkage KK/AF sz 2 1RS	TZKK1020–...		965 – 1164			1	
	linkage KK/AF sz 3 1RS	TZKK1050–...		1165 – 1364			1	
4	fastening plate sec. sash A0204	ZFAP0020–...	3	470 – 570				
			2	571 – 1364				
5	corner drive AF/PSK 1S 1RS	PEUJ0010–...	1	470 – 1364			1	1
6a	corner drive AF VSO schmal 1RS	TEUL4020–...	1	470 – 570			1	
6b	corner drive AF VSO 1RS	TEUL4010–...		571 – 1364			1	
7	gear 15 AF sz 60/G300	TGKK4030–...	1	470 – 1364		300		
8	linkage KK/AF sz 1 1RS	TZKK1010–...	1	801 – 1000			1	
	linkage KK/AF sz 2 1RS	TZKK1020–...		1001 – 1200			1	
	linkage KK/AF sz 3 1RS	TZKK1050–...		1201 – 1364			1	
9	mishandling device	TFBS0010–...	1	470 – 1364				
10	pressure piece rh./lh.	Ref. PDB, TFFD	1	470 – 1364				
11	stop FBS	Ref. PDB, FRZF01	1	470 – 1364				
12	gear OS-AF sz 60	TGMK0500–...	1		540 – 800			
	gear OS-AF sz 80 1RS	TGMK0510–...			801 – 1200		1	
	gear OS-AF sz 120 1RS	TGMK0520–...			1201 – 1600		1	
13	corner drive BSO/A3 1RS	TEUL2300–...	1		540 – 1600		1	
14	linkage AF sz 1	TZZS0150–...	1		601 – 800			
	linkage KK/AF sz 2 1RS	TZKK1020–...			801 – 1000		1	
	linkage KK/AF sz 3 1RS	TZKK1050–...			1001 – 1600		1	
15	linkage AF sz 1	TZZS0150–...	1		1201 – 1400			
	linkage KK/AF sz 2 1RS	TZKK1020–...			1401 – 1600		1	
16	run-up	884959	1					
17	striker plate S 56 A....	Ref. PDB, TRSM						
18	tilt lock bear. S-ES FH A....	Ref. PDB, FRKA						

Accessories							
Pos.	Description	Part number					
		surface TS	St.	RAL9016	RAL9003	RAL8022	RAL8019
19	handle Si-line PSK 31		1	NHIE0040–502..	858264	895634	NHIE0040–511..
	Variant 1						
20a	packer turn lock (clearance > 3 mm)	801277	1		801284		801291
20b	turn lock w. cylinder (incl. 1 key)	ZMDS0040-100...	1		ZMDS0040-002...		ZMDS0040-011...
20c	compens. pc 5° for turn lock	801215	1		801215		801215
	Variant 2						
21a	turning lock concealed		1	ZMDS0010–004..			ZMDS0010–011..
21b	key DSV		1	ZSDS0010–1..			ZSDS0010–1..

Hinge side turning points					
Pos.	Description	Part number			required as per sash weight
		surface TS	RAL9016	RAL8022	80 kg
22	stay hinge DH PVC	Ref. PDB, TBWB61			1
23	cover cap W PVC		TKWB0010– 004...	TKWB0010– 012...	1
24	top hinge DH PVC	Ref. PDB, TBSL61			1
25	cover cap S		TKSL0020– 004...	TKSL0020– 012...	1
26	top hinge pin Poly	TBSB6020– 1...			1
27	corner hinge PVC	Ref. PDB, TBEB62			1
28	cover cap EB		TKEB0020– 004...	TKEB0020– 012...	1
29	bottom hinge PVC	Ref. PDB, TBEL01			1
30	cover cap EL O MB		TKEO0010– 004...	TKEO0010– 012...	1
31	cover cap EL U		TKEU0010– 004...	TKEU0010– 012...	1

Frame dimensions

1-sash square tilt-turn
PVC GK hinge side TITAN



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

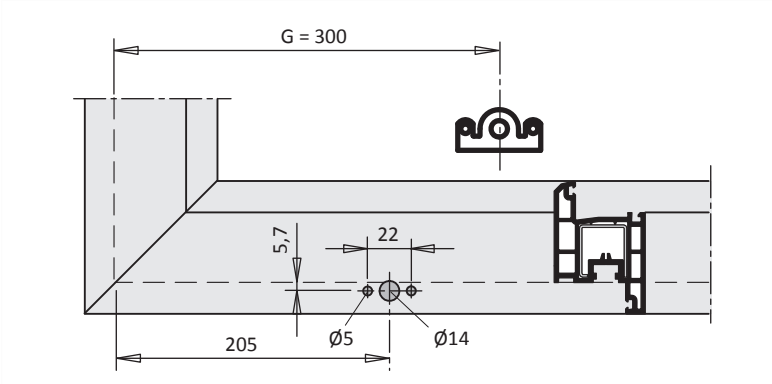
	Dimension	FFB	FFH
1A	67	470 – 570	
1B	83	571 – 1364	
1C	265	765 – 964	
	465	965 – 1164	
	665	1165 – 1364	
2A	18,5	470 – 1364	
2B	67	470 – 570	
2C	83	571 – 1364	
2D	265	801 – 1000	
	465	1001 – 1200	
	665	1201 – 1364	
3A	83		540 – 1600
3B	88		801 – 1600
4A	160		540 – 1600
4B	449		801 – 1000
	649		1001 – 1600
4C	1049		1401 – 1600

Variant 1
turn lock w. cylinder

Please note:

- The gear driven scissor stay AF/iP Z makes it possible to have a horizontal handle position on the bottom sash rail allowing tilt open or close operation of the sash by turning the operating handle through 180°.
- Opening in the turn position for cleaning is possible by turning the handle through 90° but the use of a turn lock is recommended for safety and to prevent mishandling should be fitted on the sash bottom rail.
- Aufgrund des Drehmoments wird der Einsatz des PSK-Handhebels und Anschraubplatten an den Umlenkungen vorgegeben.
- For ease of operation a larger PSK handleis used because of the increased torque required and in addition the fastening plates are fitted to prevent deflection of the corner drives.
- If the sash does not tilt the 90 -100mm you can adjust the gear driven scissor stay AF/iP Z buy one tooth at a time in the direction of the handle jamb to achieve these dimensions.
- It is possible for the operation to be automated using a motorised handle from the SIEGENIA-AUBI SI-Motion product range (eg., Motor Lever MH10) and can be combined with automated building ventilation systems. They will also provide ease of use.
- If a motorised operation is specified the width (FFB) of 1200mm should not be exceeded.
- For correct operation the windows must be fitted plumb and square within the masonry openings.

Drilling variant 2 (sash)
turning lock concealed
(alternatively with jig DSV ZABL0030-....)



12

TITAN AF

Installation instructions



RC1

1-sash square tilt-turn

stay handle driven

PVC

RC1

fixed handle position

hinge side TITAN

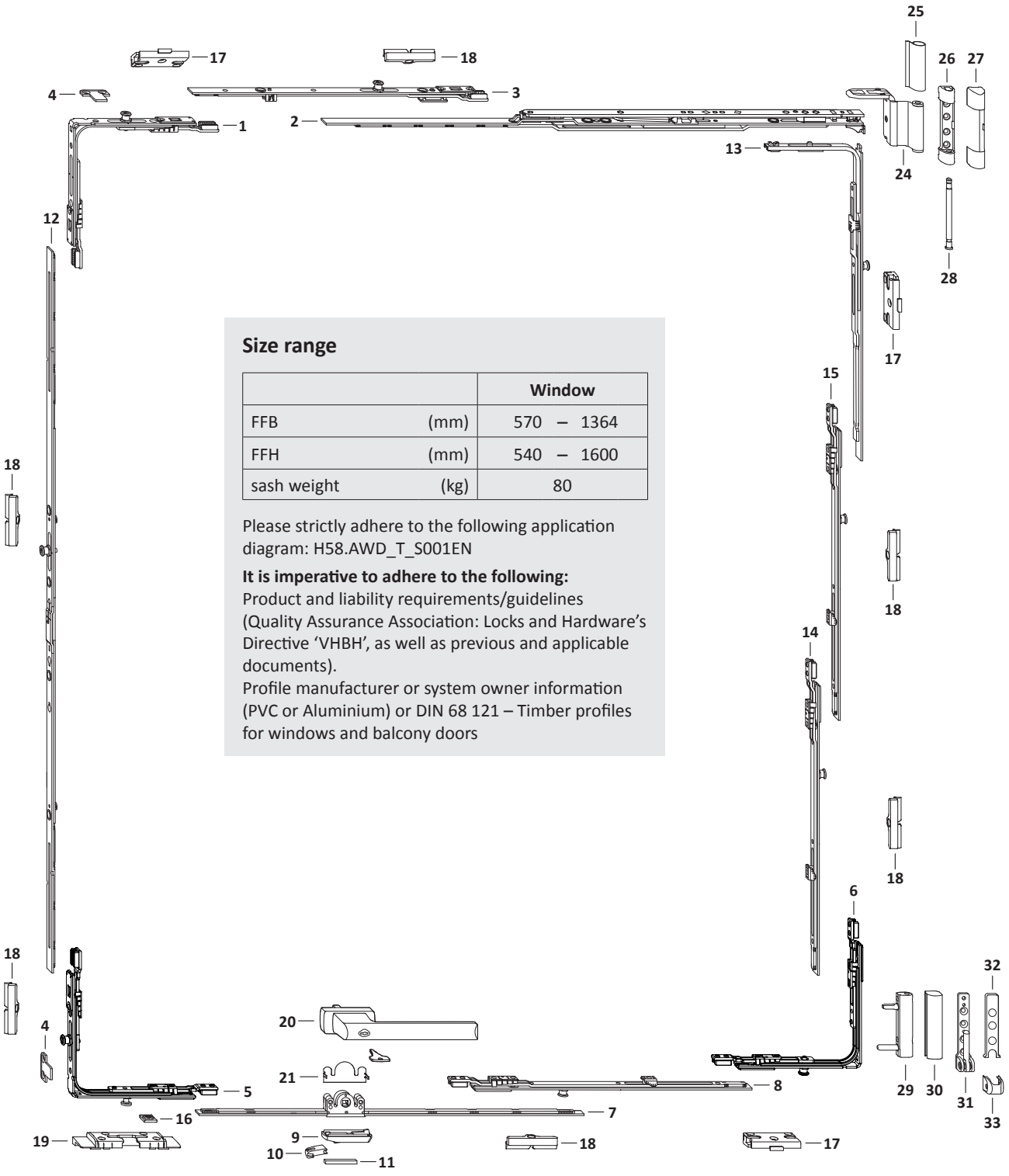
surface TS

backset 15 mm

bottom: Inliner

Hardware layout

1-sash square tilt-turn
PVC GK hinge side TITAN

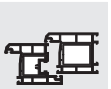


Size range

		Window
FFB	(mm)	570 – 1364
FFH	(mm)	540 – 1600
sash weight	(kg)	80

Please strictly adhere to the following application diagram: H58.AWD_T_S001EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors




Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Frame Parts		
							Pos. 17	Pos. 18	Pos. 19
1	corner drive AF VSO 1RS	TEUL4010–...	1	570 – 1364			1		
2	stay AF/iP Z rh.	TSZK0011–...	1	570 – 1364					
	stay AF/iP Z lh.	TSZK0012–...							
3	linkage KK/AF sz 1 1RS	TZKK1010–...	1	765 – 964				1	
	linkage KK/AF sz 2 1RS	TZKK1020–...		965 – 1164				1	
	linkage KK/AF sz 3 1RS	TZKK1050–...		1165 – 1364				1	
4	fastening plate sec. sash A0204	ZFAP0020–...	2	570 – 1364					
5	corner drive AF/PSK 1S 1RS	PEUJ0010–...	1	570 – 1364				1	1
6	corner drive AF VSO 1RS	TEUL4010–...	1	570 – 1364			1		
7	gear 15 AF sz 60/G300	TGKK4030–...	1	570 – 1364		300			
8	linkage KK/AF sz 1 1RS	TZKK1010–...	1	801 – 1000				1	
	linkage KK/AF sz 2 1RS	TZKK1020–...		1001 – 1200				1	
	linkage KK/AF sz 3 1RS	TZKK1050–...		1201 – 1364				1	
9	mishandling device	TFBS0010–...	1	570 – 1364					
10	pressure piece rh./lh.	Ref. PDB, TFFD	1	570 – 1364					
11	stop FBS	Ref. PDB, FRZF01	1	570 – 1364					
12	gear OS-AF sz 60	TGMK0500–...	1		540 – 800				
	gear OS-AF sz 80 1RS	TGMK0510–...			801 – 1200			1	
	gear OS-AF sz 120 1RS	TGMK0520–...			1201 – 1600			1	
13	corner drive BSO/A3 1RS	TEUL2300–...	1		540 – 1600		1		
14	linkage AF sz 1	TZZS0150–...	1		601 – 800				
	linkage KK/AF sz 2 1RS	TZKK1020–...			801 – 1000			1	
	linkage KK/AF sz 3 1RS	TZKK1050–...			1001 – 1600			1	
15	linkage AF sz 1	TZZS0150–...	1		1201 – 1400				
	linkage KK/AF sz 2 1RS	TZKK1020–...			1401 – 1600			1	
16	run-up	884959	1						
17	striker plate S-RS A....	Ref. PDB, TRSK							
18	striker plate S 56 A....	Ref. PDB, TRSM							
19	tilt lock bear. S-ES FH A....	Ref. PDB, FRKA							

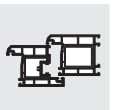
Accessories							
Pos.	Description	Part number					
		surface TS	St.	RAL9016	RAL9003	RAL8022	RAL8019
20	handle Si-line PSK ABS 31		1		858318	895641	858325
21	anti-drill guard E	TGBS0010–...	1				
	Variant 1						
22a	turn lock w. cylinder (incl. 1 key)	713433	1		880906		880913
22b	packer turn lock (clearance > 3 mm)	801277	1		801284		801291
22c	compens. pc 5° for turn lock	801215	1		801215		801215
	Variant 2						
23a	turning lock concealed		1	ZMDS0010–004..			ZMDS0010–011..
23b	key DSV		1	ZSDS0010–1..			ZSDS0010–1..

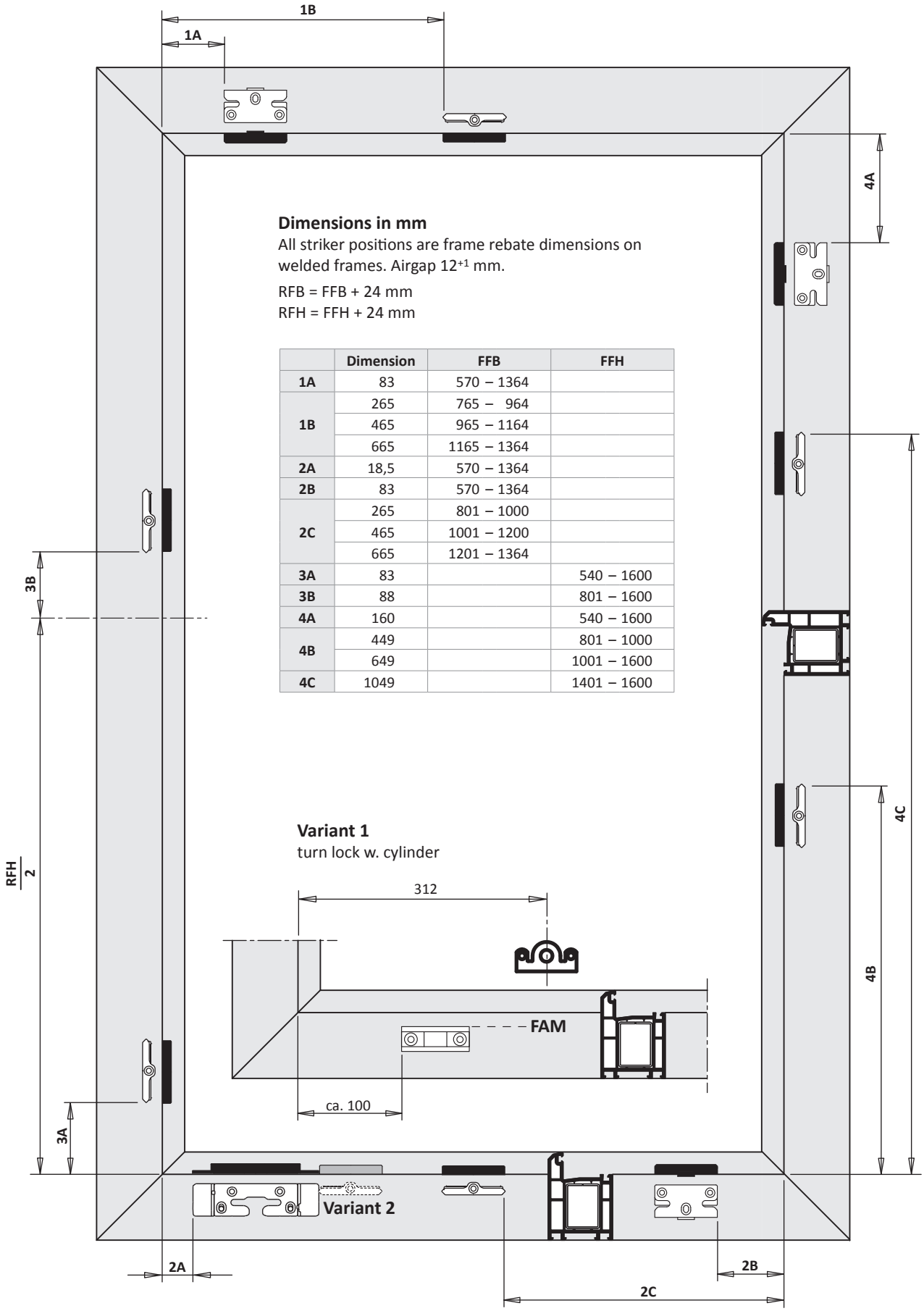
Hinge side turning points					
Pos.	Description	Part number			required as per sash weight
		surface TS	RAL9016	RAL8022	80 kg
24	stay hinge DH PVC	Ref. PDB, TBWB61			1
25	cover cap W PVC		TKWB0010– 004...	TKWB0010– 012...	1
26	top hinge DH PVC	Ref. PDB, TBSL61			1
27	cover cap S		TKSL0020– 004...	TKSL0020– 012...	1
28	top hinge pin Poly	TBSB6020– 1...			1
29	corner hinge PVC	Ref. PDB, TBEB62			1
30	cover cap EB		TKEB0020– 004...	TKEB0020– 012...	1
31	bottom hinge PVC	Ref. PDB, TBEL01			1
32	cover cap EL O MB		TKEO0010– 004...	TKEO0010– 012...	1
33	cover cap EL U		TKEU0010– 004...	TKEU0010– 012...	1

Frame dimensions

1-sash square tilt-turn
PVC GK hinge side TITAN







Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

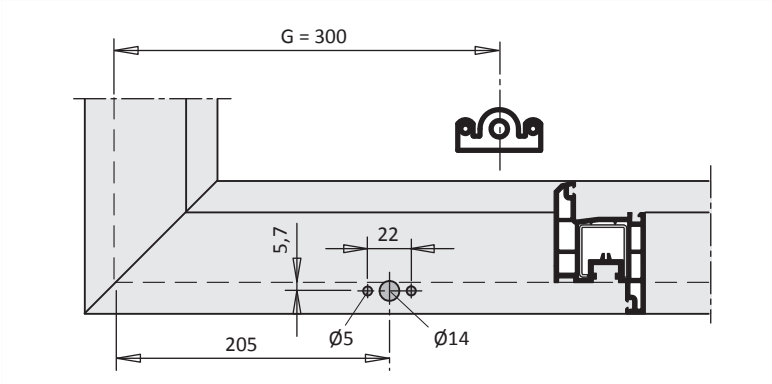
	Dimension	FFB	FFH
1A	83	570 – 1364	
1B	265	765 – 964	
	465	965 – 1164	
	665	1165 – 1364	
2A	18,5	570 – 1364	
2B	83	570 – 1364	
2C	265	801 – 1000	
	465	1001 – 1200	
	665	1201 – 1364	
3A	83		540 – 1600
3B	88		801 – 1600
4A	160		540 – 1600
4B	449		801 – 1000
	649		1001 – 1600
4C	1049		1401 – 1600

Variant 1
turn lock w. cylinder

Please note:

- The gear driven scissor stay AF/iP Z makes it possible to have a horizontal handle position on the bottom sash rail allowing tilt open or close operation of the sash by turning the operating handle through 180°.
- Opening in the turn position for cleaning is possible by turning the handle through 90° but the use of a turn lock is recommended for safety and to prevent mishandling should be fitted on the sash bottom rail.
- Aufgrund des Drehmoments wird der Einsatz des PSK-Handhebels und Anschraubplatten an den Umlenkungen vorgegeben.
- For ease of operation a larger PSK handleis used because of the increased torque required and in addition the fastening plates are fitted to prevent deflection of the corner drives.
- If the sash does not tilt the 90 -100mm you can adjust the gear driven scissor stay AF/iP Z buy one tooth at a time in the direction of the handle jamb to achieve these dimensions.
- It is possible for the operation to be automated using a motorised handle from the SIEGENIA-AUBI SI-Motion product range (eg., Motor Lever MH10) and can be combined with automated building ventilation systems. They will also provide ease of use.
- If a motorised operation is specified the width (FFB) of 1200mm should not be exceeded.
- For correct operation the windows must be fitted plumb and square within the masonry openings.

Drilling variant 2 (sash)
turning lock concealed
(alternatively with jig DSV ZABL0030-....)



TITAN AF

Installation instructions




RC2

1-sash square tilt-turn

stay handle driven

PVC

RC2

fixed handle position

hinge side TITAN

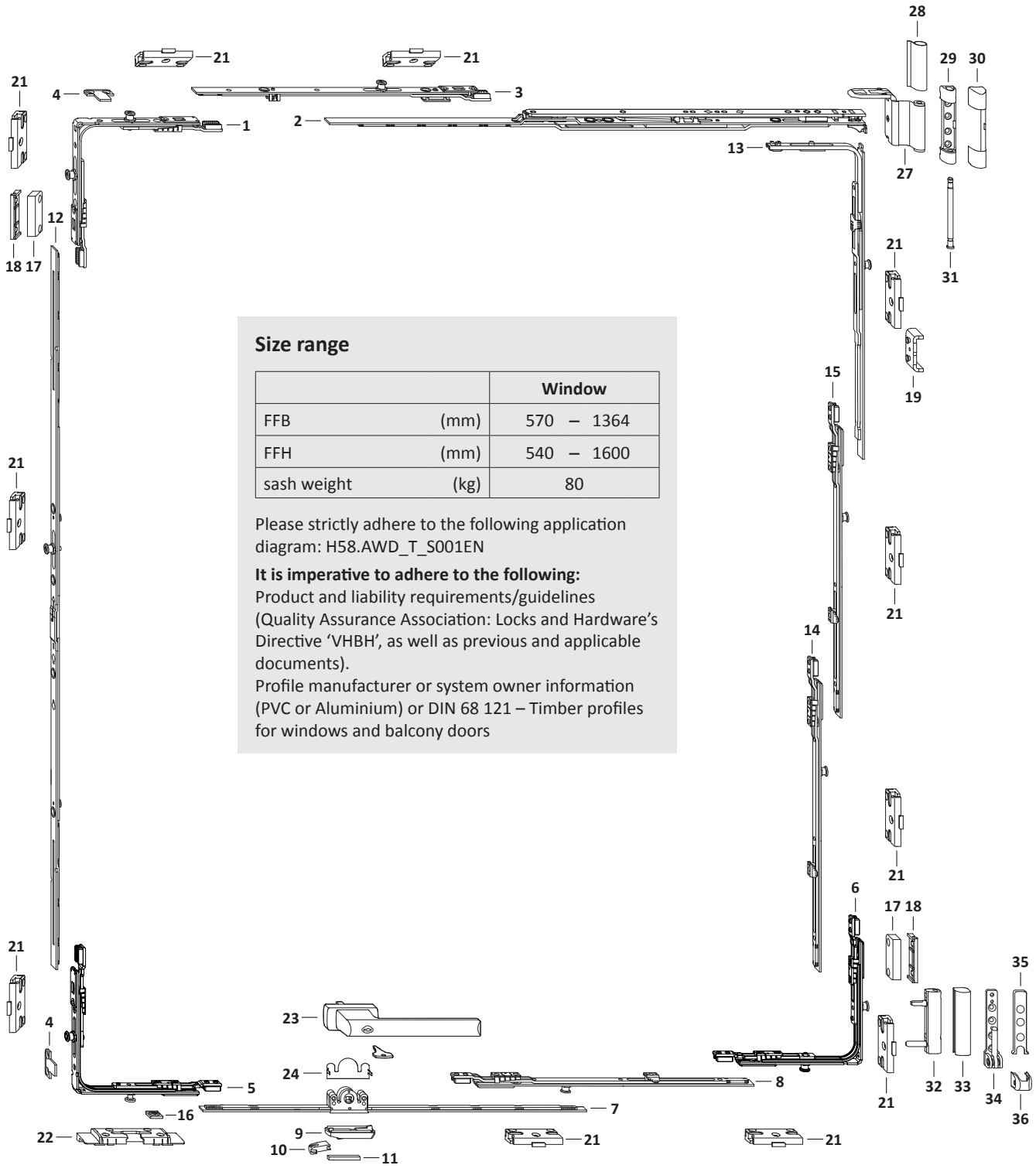
surface TS

backset 15 mm

bottom: Inliner

Hardware layout

1-sash square tilt-turn
PVC GK hinge side TITAN



Size range

		Window
FFB	(mm)	570 – 1364
FFH	(mm)	540 – 1600
sash weight	(kg)	80

Please strictly adhere to the following application diagram: H58.AWD_T_S001EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Frame Parts	
							Pos. 21	Pos. 22
1	corner drive AF VSO 2RS A0055	TEUL4070–...	1	570 – 1364			2	
2	stay AF/iP Z rh.	TSZK0011–...	1	570 – 1364				
	stay AF/iP Z lh.	TSZK0012–...						
3	linkage KK/AF sz 1 1RS	TZKK1010–...	1	765 – 964			1	
	linkage KK/AF sz 2 1RS	TZKK1020–...		965 – 1164			1	
	linkage KK/AF sz 3 1RS	TZKK1050–...		1165 – 1364			1	
4	fastening plate sec. sash A0204	ZFAP0020–...	2	570 – 1364				
5	corner drive AF/PSK 1S 1RS	PEUJ0010–...	1	570 – 1364			1	1
6	corner drive AF VSO 2RS A0055	TEUL4070–...	1	570 – 1364			2	
7	gear 15 AF sz 60/G300	TGKK4030–...	1	570 – 1364		300		
8	linkage KK/AF sz 1 1RS	TZKK1010–...	1	801 – 1000			1	
	linkage KK/AF sz 2 1RS	TZKK1020–...		1001 – 1200			1	
	linkage KK/AF sz 3 1RS	TZKK1050–...		1201 – 1364			1	
9	mishandling device	TFBS0010–...	1	570 – 1364				
10	pressure piece rh./lh.	Ref. PDB, TFFD	1	570 – 1364				
11	stop FBS	Ref. PDB, FRZF01	1	570 – 1364				
12	gear OS-AF sz 60	TGMK0500–...	1		540 – 800			
	gear OS-AF sz 80 1RS	TGMK0510–...			801 – 1200		1	
	gear OS-AF sz 120 1RS	TGMK0520–...			1201 – 1600		1	
13	corner drive BSO/A3 1RS	TEUL2300–...	1		540 – 1600		1	
14	linkage AF sz 1	TZZS0150–...	1		601 – 800			
	linkage KK/AF sz 2 1RS	TZKK1020–...			801 – 1000		1	
	linkage KK/AF sz 3 1RS	TZKK1050–...			1001 – 1600		1	
15	linkage AF sz 1	TZZS0150–...	1		1201 – 1400			
	linkage KK/AF sz 2 1RS	TZKK1020–...			1401 – 1600		1	
16	run-up	884959	1					
17	restrictor	Ref. PDB, FRFL	2					
18	packer RB/FPS	Ref. PDB, FRUP02	2					
19	anti-lift device	Ref. PDB, TFAH	1					
20	striker plate S 56 A....	Ref. PDB, TRSM	1					
21	striker plate S-RS A....	Ref. PDB, TRSK						
22	tilt lock bear. S-ES FH A....	Ref. PDB, FRKA						

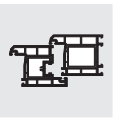
Accessories							
Pos.	Description	Part number					
		surface TS	St.	RAL9016	RAL9003	RAL8022	RAL8019
23	handle Si-line PSK ABS 31		1		858318	895641	858325
24	anti-drill guard E	TGBS0010–...	1				
	Variant 1						
25a	packer turn lock (clearance > 3 mm)	801277	1		801284		801291
25b	turn lock w. cylinder (incl. 1 key)	ZMDS0040-100...	1		ZMDS0040-002...		ZMDS0040-011...
25c	compens. pc 5° for turn lock	801215	1		801215		801215
	Variant 2						
26a	turning lock concealed		1	ZMDS0010–004..			ZMDS0010–011..
26b	key DSV		1	ZSDS0010–1..			ZSDS0010–1..

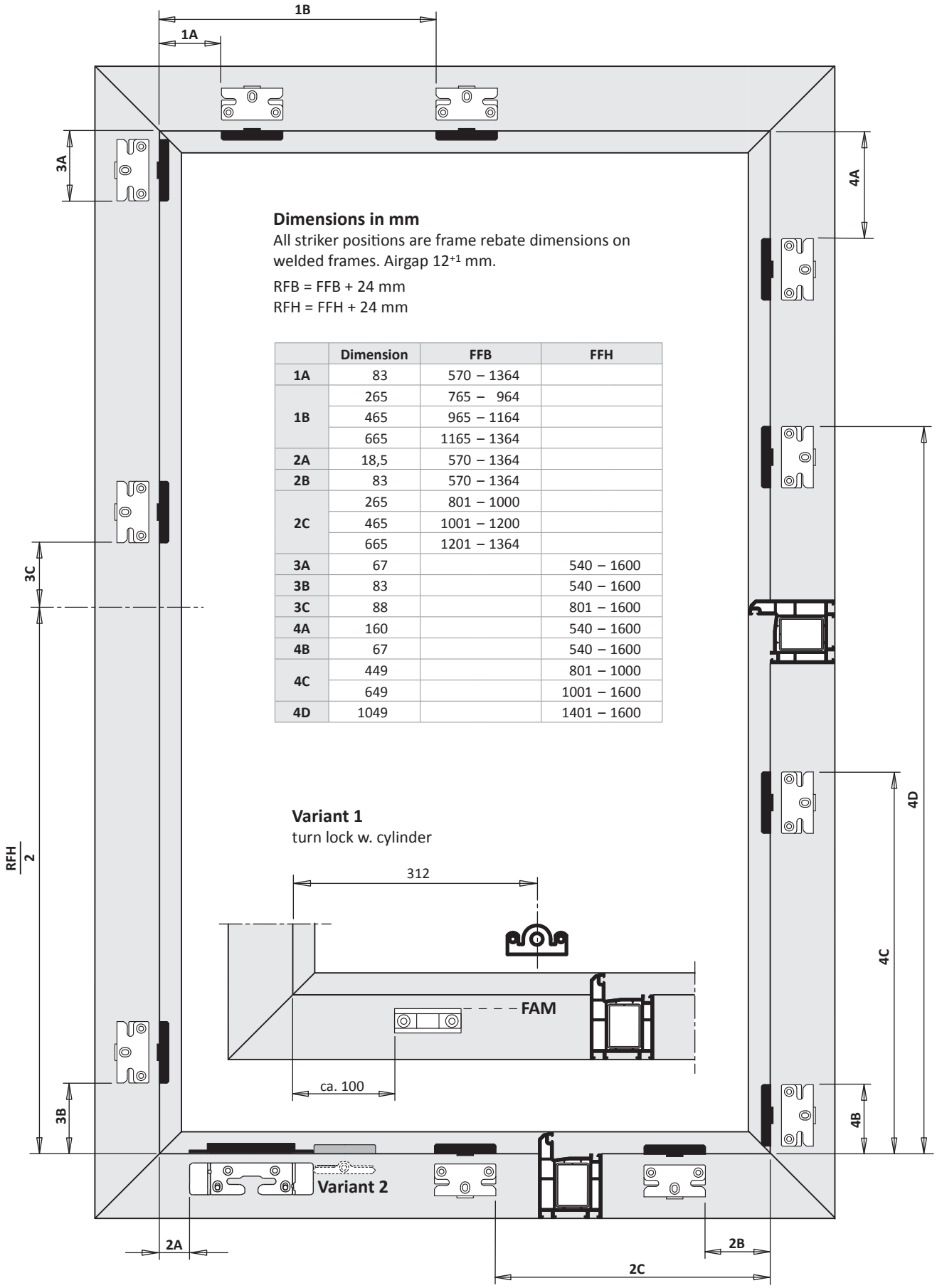
Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL9016	RAL8022	80 kg
27	stay hinge DH PVC	Ref. PDB, TBWB61			1
28	cover cap W PVC		TKWB0010– 004...	TKWB0010– 012...	1
29	top hinge DH PVC	Ref. PDB, TBSL61			1
30	cover cap S		TKSL0020– 004...	TKSL0020– 012...	1
31	top hinge pin Poly	TBSB6020– 1...			1
32	corner hinge PVC	Ref. PDB, TBEB62			1
33	cover cap EB		TKEB0020– 004...	TKEB0020– 012...	1
34	bottom hinge PVC	Ref. PDB, TBEL01			1
35	cover cap EL O MB		TKEO0010– 004...	TKEO0010– 012...	1
36	cover cap EL U		TKEU0010– 004...	TKEU0010– 012...	1

Frame dimensions

1-sash square tilt-turn
PVC GK hinge side TITAN







Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

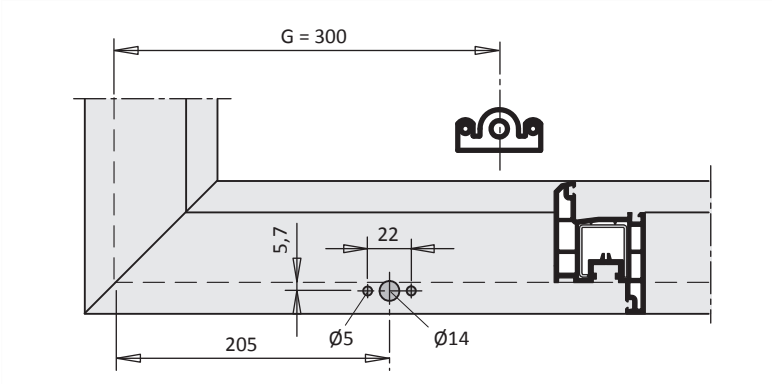
	Dimension	FFB	FFH
1A	83	570 – 1364	
1B	265	765 – 964	
	465	965 – 1164	
	665	1165 – 1364	
2A	18,5	570 – 1364	
2B	83	570 – 1364	
2C	265	801 – 1000	
	465	1001 – 1200	
	665	1201 – 1364	
3A	67		540 – 1600
3B	83		540 – 1600
3C	88		801 – 1600
4A	160		540 – 1600
4B	67		540 – 1600
4C	449		801 – 1000
	649		1001 – 1600
4D	1049		1401 – 1600

Variant 1
turn lock w. cylinder

Please note:

- The gear driven scissor stay AF/iP Z makes it possible to have a horizontal handle position on the bottom sash rail allowing tilt open or close operation of the sash by turning the operating handle through 180°.
- Opening in the turn position for cleaning is possible by turning the handle through 90° but the use of a turn lock is recommended for safety and to prevent mishandling should be fitted on the sash bottom rail.
- Aufgrund des Drehmoments wird der Einsatz des PSK-Handhebels und Anschraubplatten an den Umlenkungen vorgegeben.
- For ease of operation a larger PSK handleis used because of the increased torque required and in addition the fastening plates are fitted to prevent deflection of the corner drives.
- If the sash does not tilt the 90 -100mm you can adjust the gear driven scissor stay AF/iP Z buy one tooth at a time in the direction of the handle jamb to achieve these dimensions.
- It is possible for the operation to be automated using a motorised handle from the SIEGENIA-AUBI SI-Motion product range (eg., Motor Lever MH10) and can be combined with automated building ventilation systems. They will also provide ease of use.
- If a motorised operation is specified the width (FFB) of 1200mm should not be exceeded.
- For correct operation the windows must be fitted plumb and square within the masonry openings.

Drilling variant 2 (sash)
turning lock concealed
(alternatively with jig DSV ZABL0030-....)



Fixed handle position

1-sash square tilt-turn	H48.TAFKFK0S014EN	13 - 3

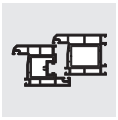
Centre handle pos. (variable)

1-sash square tilt-turn	H48.TAFKFM0S016EN	13 - 9

TITAN AF

Installation instructions





without security

1-sash square tilt-turn

PVC

without security

fixed handle position

Hinge side TITAN

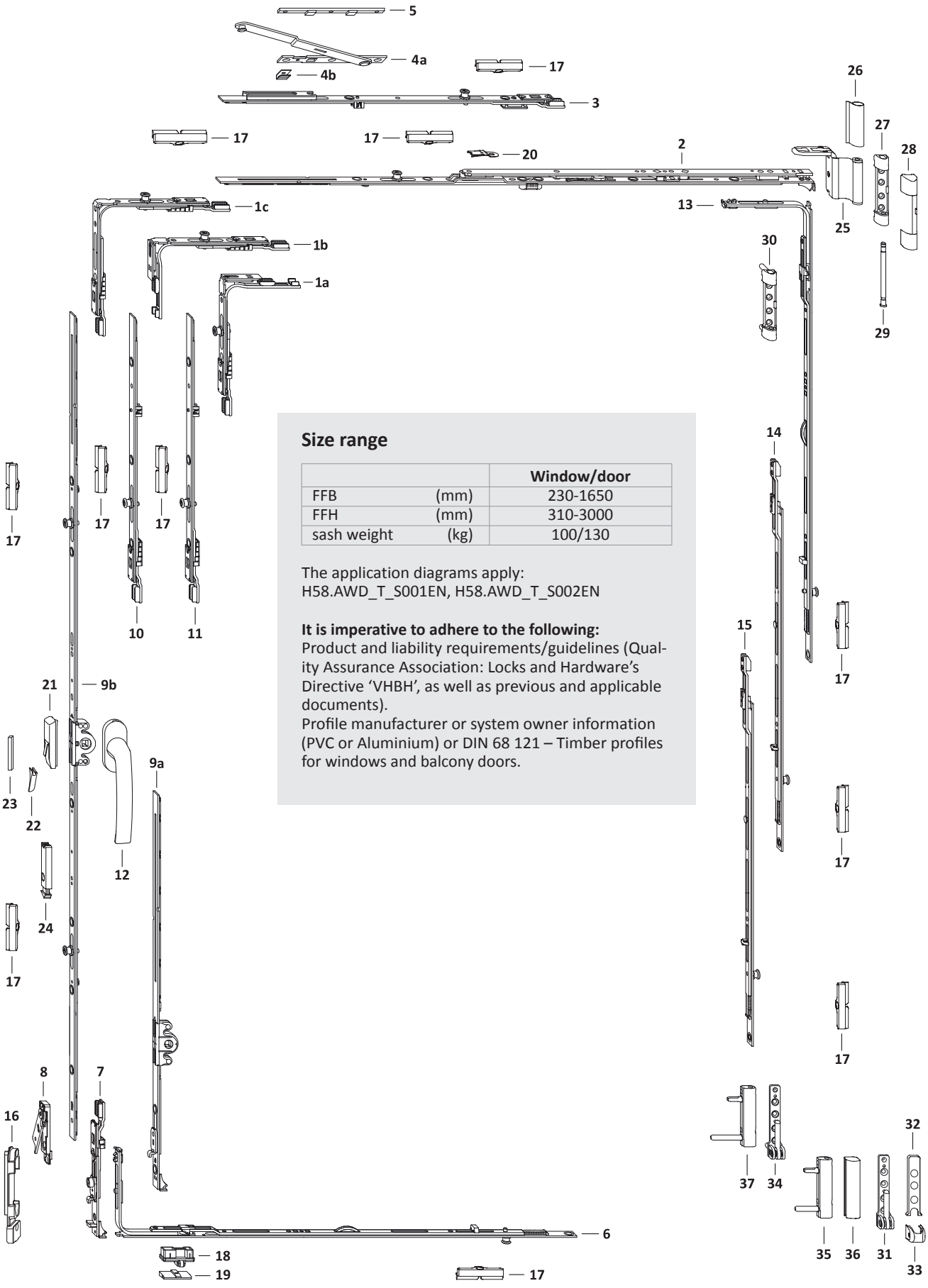
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800; vertical tilt point
Stay side	one-piece stay
Bottom	loose sash lift
Locking side	sash lift arm + mishandl.dev.
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GK Hinge side TITAN

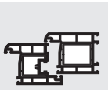


Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

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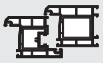



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							16	17
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230– 330	411–3000			1
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	331– 850	310– 410			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331–1650	411–3000			1
2	stay AF sz 0	TSKK2000- ...	1	230– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1	851–1250				1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...		1251–1650				1
7	tilt lock element AF/FH	TEKB1130- ...	1		601–3000		1	
8	sash lift KRB .. rh.	TFFH0151- ...	1		601–3000			
	sash lift KRB .. lh.	TFFH0152- ...			601–3000			
9a	gear 15 AF sz 30/G180 KRB	TGKK4000- ...	1	331– 850	310– 410	180	1	
	gear 15 AF sz 30/G180 KRB	TGKK4000- ...		230–1250	411– 600	180	1	
9b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		2
10	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			1
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
11	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
12	handle Globe	Ref.access. ZHGS	1		310–3000			
13	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
15	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
16	tilt striker plate FHA	Ref. PDB, TRKV						
17	striker plate S 56	Ref. PDB, TRSM						
on request								
18	sash lift .. A2000	TFFH0010- ...	1	230– 850	310– 600			
19	run-up FH/TiP	Ref. PDB, TRAL	1	230– 850	310– 600			
20	tilt restrictor ..	TFKB0010- ...	1		310– 800			
21	mishandling device	TFBS0010- ...	1					
22	pressure piece	Ref. PDB, TFFD	1					
23	stop	Ref. PDB, FRZF01	1					
24	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

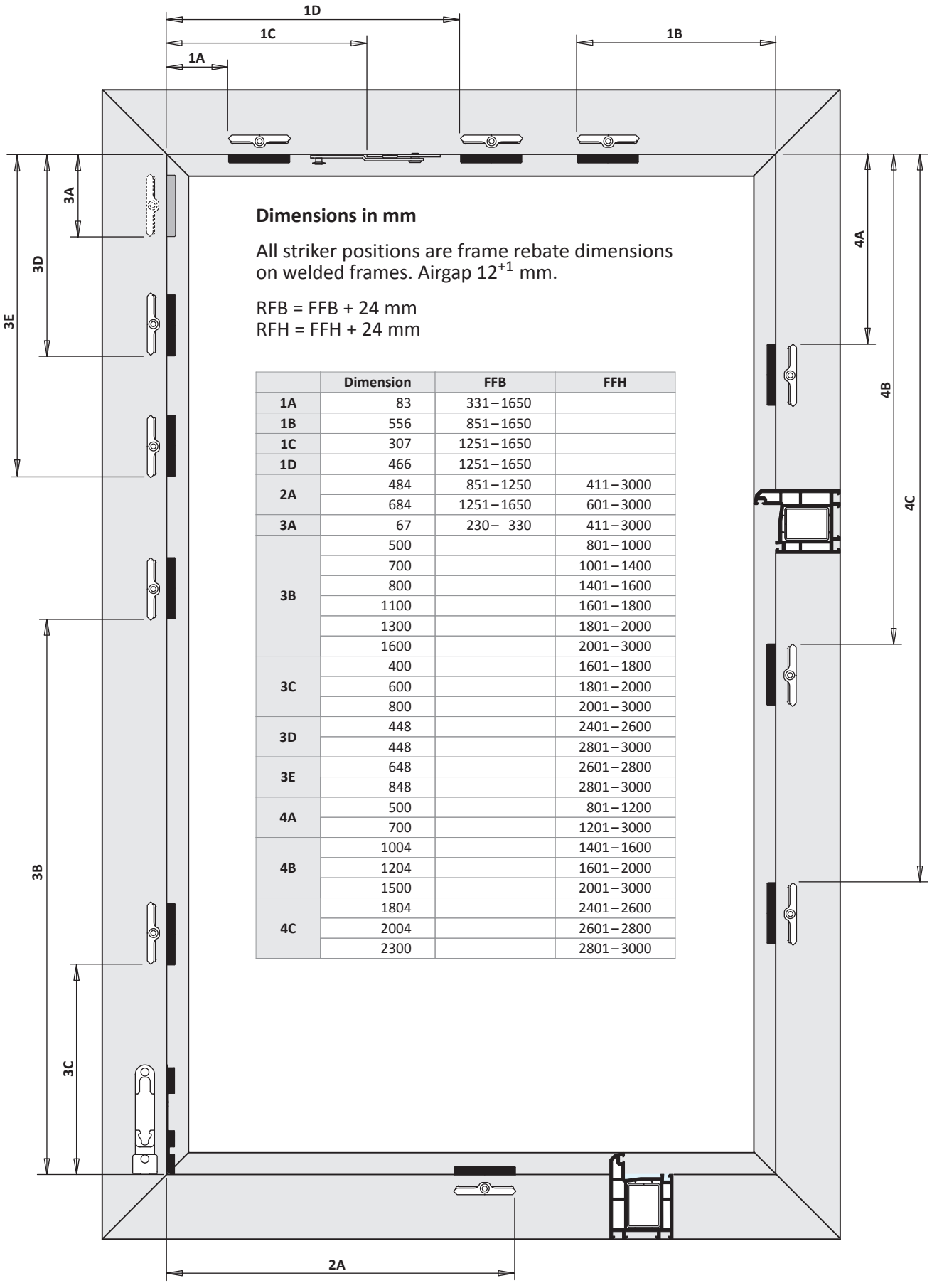
List of fittings

1-sash square tilt-turn
PVC GK Hinge side TITAN





Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
25	stay hinge DH	Ref. PDB, TBWB61			1	1
26	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
27	top hinge 100kg	Ref. PDB, TBSL61			1	
28	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
29	top hinge pin Poly	TBSB6020-1 ...			1	1
30	top hinge 130kg	Ref. PDB, TBSL62				1
31	bottom hinge 100kg	Ref. PDB, TBEL01			1	
32	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
33	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
34	bottom hinge 130kg	Ref. PDB, TBEL02				1
35	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
36	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
37	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

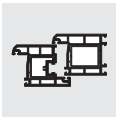
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	484	851–1250	411–3000
	684	1251–1650	601–3000
3A	67	230– 330	411–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





without security

1-sash square tilt-turn

PVC

without security

centre handle pos. (variable)

Hinge side TITAN

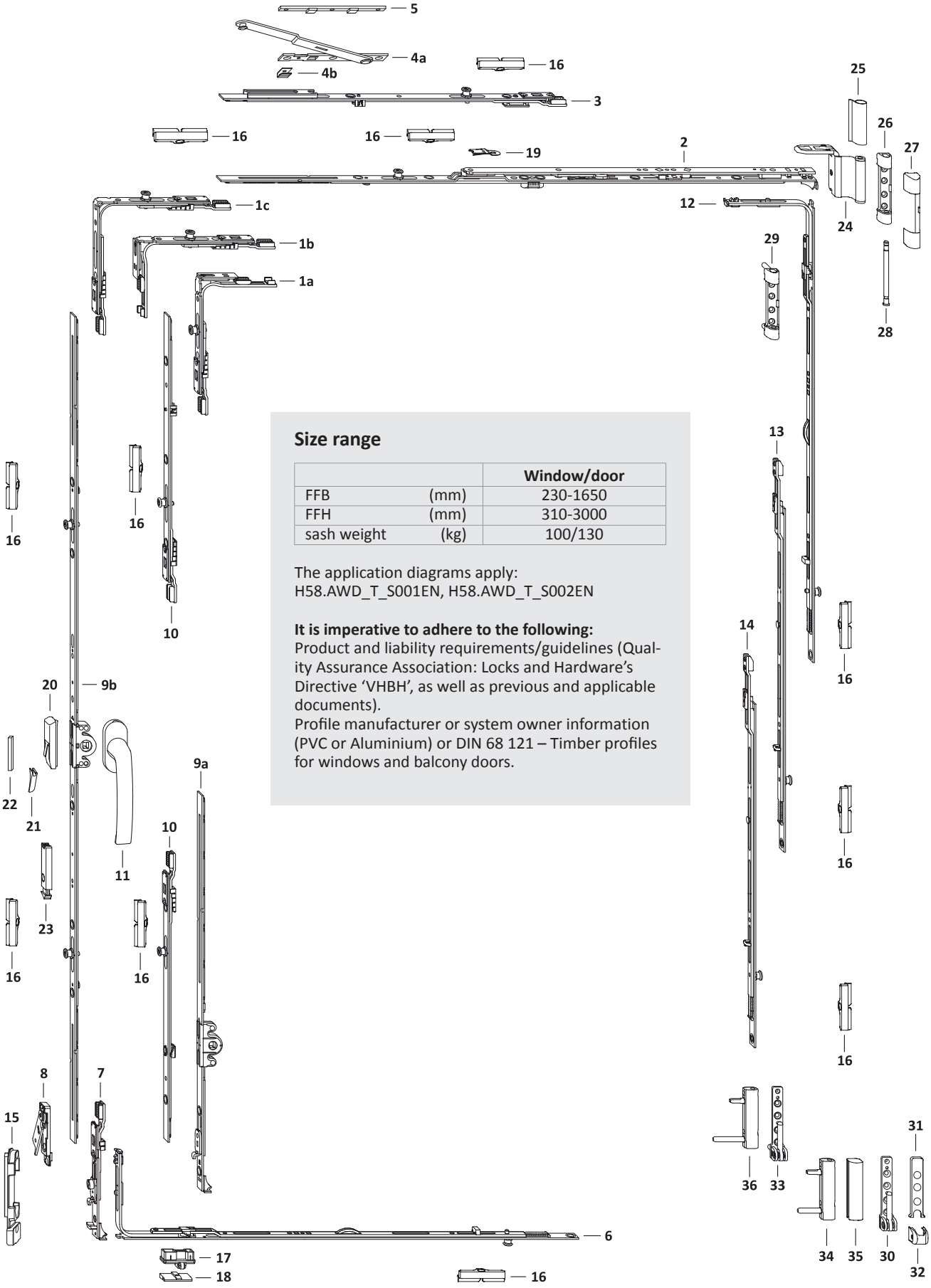
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800; vertical tilt point
Stay side	one-piece stay
Bottom	loose sash lift
Locking side	sash lift arm + mishandl.dev.
Hinge side	corner drive BS sz 1+2 1RS
Hinge side turning points	Standard

hardware layout

1-sash square tilt-turn
PVC GM Hinge side TITAN

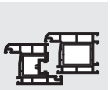
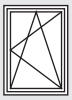


Size range

		Window/door
FFB	(mm)	230-1650
FFH	(mm)	310-3000
sash weight	(kg)	100/130

The application diagrams apply:
H58.AWD_T_S001EN, H58.AWD_T_S002EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

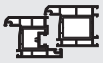



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							15	16
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	230– 330	411–3000			1
1b	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	331– 850	310– 460			1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	331–1650	461–3000			1
2	stay AF sz 0	TSKK2000- ...	1	230– 450				
	stay AF sz 1	TSKK2010- ...		451– 680				
	stay AF sz 2	TSKK2020- ...		681– 850				
	stay AF sz 3 1RS	TSKK2030- ...		851–1050				1
	stay AF sz 4 1RS	TSKK2040- ...		1051–1250				1
	stay AF sz 3 1RS	TSKK2030- ...		1251–1450				1
	stay AF sz 4 1RS	TSKK2040- ...		1451–1650				1
3	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
4	additional stay	Ref. PDB, TSZS	1	1251–1650				
5	packer Z	Ref. PDB, FRUP01	1	1251–1650				
6	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1	851–1250				1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...		1251–1650				1
7	tilt lock element AF/FH	TEKB1130- ...	1		461–3000		1	
8	sash lift KRB .. rh.	TFFH0151- ...	1		461–3000			
	sash lift KRB .. lh.	TFFH0152- ...			461–3000			
9a	gear 15 AF sz 30/G180 KRB	TGKK4000- ...	1	331– 850	310– 410		1	
	gear 15 AF sz 30/G180 KRB	TGKK4000- ...		230– 850	411– 460		1	
9b	gear 15 AF sz 20	TGMK4010- ...	1		461– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
10	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
11	handle Globe	Ref.access. ZHGS	1		310–3000			
12	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
14	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
15	tilt striker plate FHA	Ref. PDB, TRKV						
16	striker plate S 56	Ref. PDB, TRSM						
on request								
17	sash lift .. A2000	TFFH0010- ...	1	230– 850	310– 460			
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19	tilt restrictor ..	TFKB0010- ...	1		310– 800			
20	mishandling device	TFBS0010- ...	1					
21	pressure piece	Ref. PDB, TFFD	1					
22	stop	Ref. PDB, FRZF01	1					
23	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

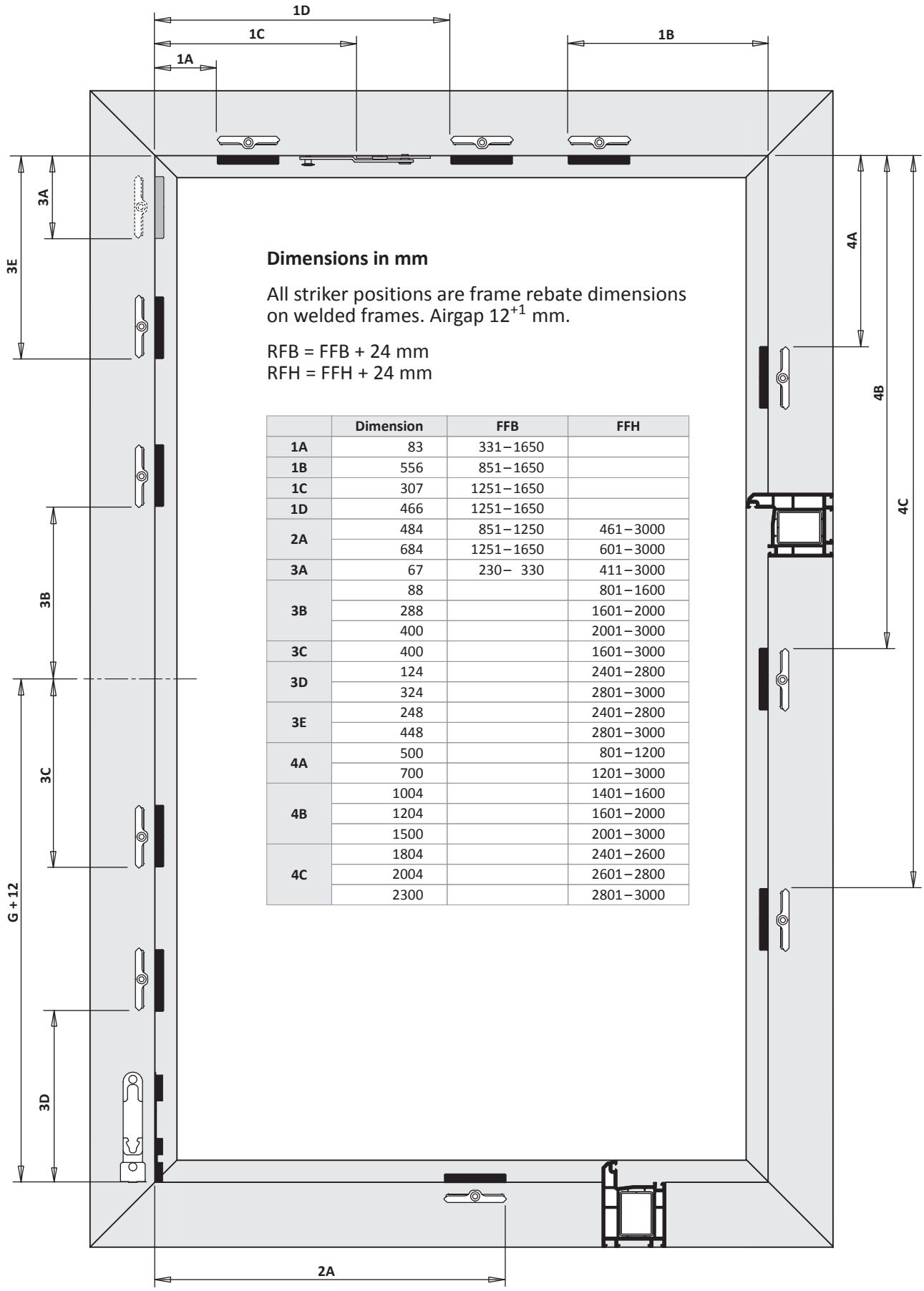
List of fittings

1-sash square tilt-turn
PVC GM Hinge side TITAN





Hinge side turning points						
Pos.	**Description**	**Part number**			**required as per sash weight**	
		surface TS	RAL9016	RAL8022	100 kg	130 kg
24	stay hinge DH	Ref. PDB, TBWB61			1	1
25	cover cap W PVC		TKWB0010-004 ...	TKWB0010-012 ...	1	1
26	top hinge 100kg	Ref. PDB, TBSL61			1	
27	cover cap S		TKSL0020-004 ...	TKSL0020-012 ...	1	1
28	top hinge pin Poly	TBSB6020-1 ...			1	1
29	top hinge 130kg	Ref. PDB, TBSL62				1
30	bottom hinge 100kg	Ref. PDB, TBEL01			1	
31	cover cap EL O MB		TKEO0010-004 ...	TKEO0010-012 ...	1	1
32	cover cap EL U		TKEU0010-004 ...	TKEU0010-012 ...	1	1
33	bottom hinge 130kg	Ref. PDB, TBEL02				1
34	corner hinge PVC100kg	Ref. PDB, TBEB62			1	
35	cover cap EB		TKEB0020-004 ...	TKEB0020-012 ...	1	1
36	corner hinge PVC130kg	Ref. PDB, TBEB63				1



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	331–1650	
1B	556	851–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	484	851–1250	461–3000
	684	1251–1650	601–3000
3A	67	230– 330	411–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	124		2401–2800
	324		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

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