

PORTAL

PSK 160 comfort 2.0

Parallel slide & tilt hardware
for PVC and timber elements
with 12 mm chamber dimension/airgap.

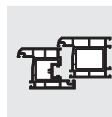
Window systems

Door systems

Comfort systems

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1 General information

1.1 Target group of this documentation

This documentation is intended for use by specialists only. All work described in this document is to be performed by experienced professionals with training and practice in the assembly, installation and maintenance of PORTAL hardware as the safe and professional assembly of the PORTAL hardware is not possible without the relevant expertise. Keep these installation instructions in a safe place.

1.2 Intended use

- The PSK 160 comfort 2.0 parallel slide & tilt hardware for use in windows or patio doors with PVC profiles.
- Sash weight max. 160 kg.
- The PSK 160 comfort 2.0 is intended for use in permanent buildings.
- The PSK 160 comfort 2.0 allows the horizontal opening and closing of windows and patio doors from profiles for parallel slide & tilt elements.
- The parallel slide & tilt elements must be installed vertically, in no circumstances in a sloping position.

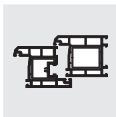
1.3 Incorrect use

- The steel fittings specified in these assembly instructions are electro-galvanised and then finished using a special technique.
- They must not be used:
 - in wet rooms
 - in environments where the air contains aggressive or corrosive components
 - in environments where the air contains salt
- Please contact your SIEGENIA sales consultant in such cases

1.4 Safety notes

- Maintenance must be carried out on the PSK 160 comfort 2.0 at least once a year. See PORTAL maintenance instructions

- Furthermore, for the PSK 160 comfort 2.0, the specifications provided by the profile manufacturers or system owners must also be adhered to with regard to possible restrictions on sash dimensions, sash weights and locking distances.
- Where special manufacturing instructions or fabrication guidelines exist, these must be explicitly adhered to.
- The specifications given for torques must be adhered to.
- Your complete set of hardware should solely be composed of SIEGENIA hardware components. Otherwise damage could occur, for which we accept no liability.
- If special safety aspects must be observed (e.g. for installation in schools, nurseries, hotels, etc.) we recommend the installation of a lockable handle or the use of the PS 200 comfort 2.0.
- All hardware components must be properly assembled as per the description on pages "Assembly" PSK hardware components and "Adjustment".
- PSK 160 comfort 2.0 elements may 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. In such cases we are not obliged to honour any warranty.
- When block setting, please observe technical guideline no. 3 from the German Glazing Trade [Glaserhandwerk], "Blocking glazing units" [Klotzung von Verglasungseinheiten].
- Never use acid curing sealants as they may cause the hardware components to corrode.
- Never use acidic lubricants and cleaning agents in the vicinity of the guiding rail/the slider.



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

1.5 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 French doors.

It is mandatory to adhere to these directives.

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

<http://www.beschlagindustrie.de/ggsb/richtlinien.asp>



VHBH – Hardware for windows and patio doors

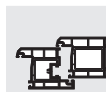
Guidelines/notes on the product and on liability

VHBE – Hardware for windows and patio doors

Guidelines and notes for end users

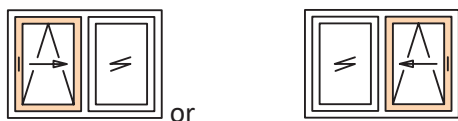
1.6 Dimensions

All dimensions are nominal values and include the general tolerances (formerly "dimensional variations"). All nominal values are given in mm.



1.7 Scheme overview

Scheme A

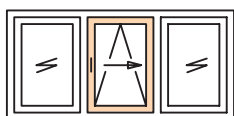


DIN left

DIN right

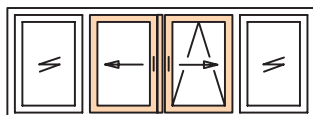
Scheme A with 1 sliding sash/1 fixed sash*

Scheme G



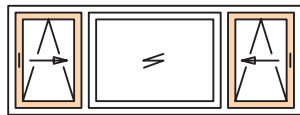
Scheme G with 1 sliding sash/2 fixed sashes*

Scheme C



Scheme C with 2 sliding sashes/2 fixed sashes*

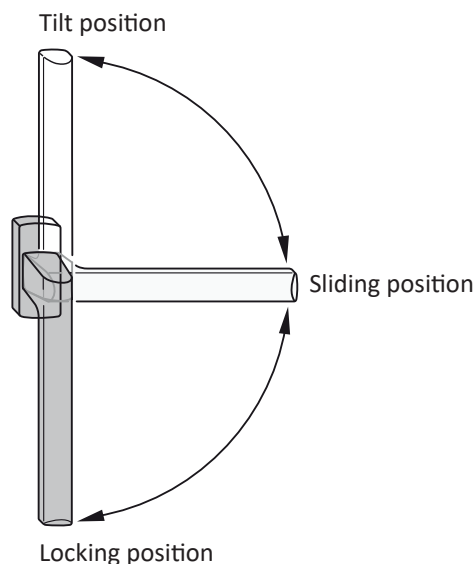
Scheme K



Scheme K with 2 sliding sashes/1 fixed sash*

* Turning sashes instead of the fixed sash are also possible. Turning sashes with rose inside only and removable handle (see handle catalogue).

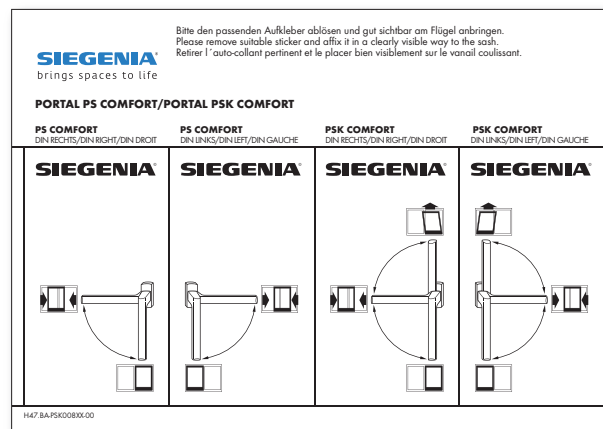
1.8 Operating sequence



1.1 Operating sticker

Attach the operating sticker (slide direction DIN left or DIN right) in a visible position on the installed parallel slide & tilt sash.

The operating sticker is enclosed in the tilt stay carton



ATTENTION:

Primary and secondary sashes must be labelled accordingly to prevent faulty operation.

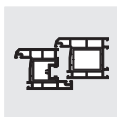
The sliding sashes may be operated only in the order specified below.

Opening: primary sash first **1**.
then secondary sash **2**.

Closing: secondary sash first **2**.
then primary sash **1**.

1.9 Application diagram

It is essential to observe the application diagram for PSK 160 comfort H58.AWD_P_S007DE.



2 Processing specifications

2.1 Size ranges

Scheme version		A	C
Sash rebate width (FFB)	Sliding sash	670* - 2000	670* - 2000
Sash rebate height (FFH)	Sliding sash	840* - 2800	840* - 2800
Frame to sash clearance		125	
Sash weight		max. 160 kg	

*The specified minimum dimensions take priority over the TITAN installation instructions.

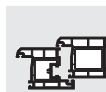
Ratio sash height (FH) / sash width (FB) < 2.5 : 1

- SIEGENIA-Construction drawings PVC profiles:
 - PSK 160 comfort
 - Scheme A
 - Scheme C
 - Scheme G
 - Scheme K
- The size ranges specified above must not be exceeded.
- In addition, with regard to the SIEGENIA hardware PSK 160 COMFORT, the specifications of the profile manufacturers or system owners also apply, especially with regard to possible restrictions on sash dimensions, sash weight and locking distance.
- Where special manufacturing instructions or fabrication guidelines exist, these must be explicitly adhered to.
- See the construction drawing for the respective profile system for further details.
- Screw heads must not project into the functional area of components. This can lead to material damage and loss of function.

2.2 Abbreviations

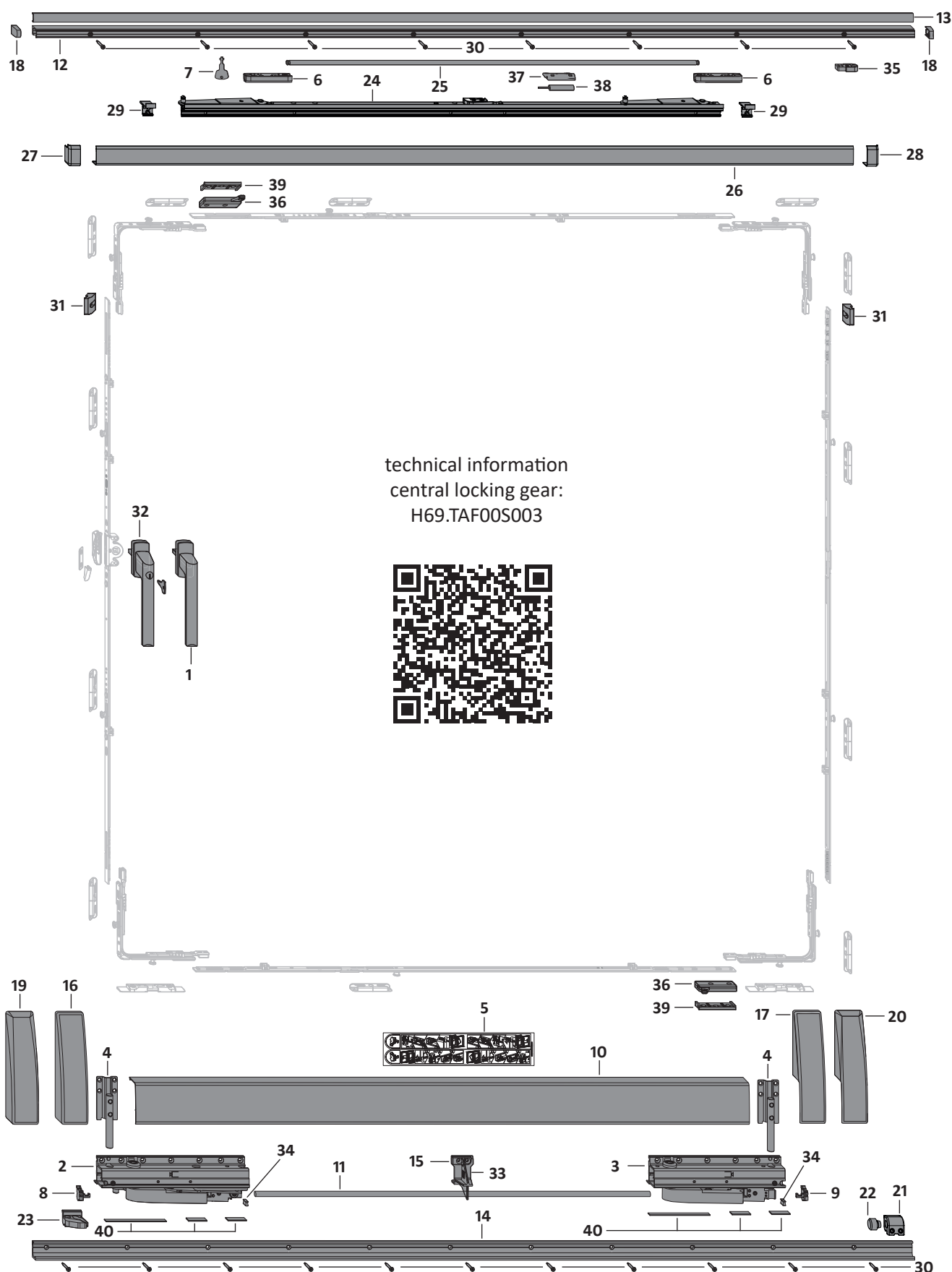
The following abbreviations are used in these assembly instructions:

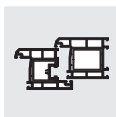
F	Guiding rail	RAH	Frame height
M	Centre	VSU	Locking side bottom
S-RS	Steel roller reinforced security	H	Rear
FB	Sash width	RFB	Frame rebate width
MV	Centre lock	ZV	Centre lock
SW	Wrench size	L	Bogie wheels
FFB	Sash rebate width	S-ES	Steel-reinforced security
OKFF	Top edge floor		
V	Front		
FH	Sash height		
PZ	Profile cylinder		
VS	Locking side		
FFH	Sash rebate height		
VSO	Locking side top		
G	Hand position		



3 Overview of hardware components

3.1 Hardware components presentation scheme A





3.2 Hardware list hardware components

Item	Pieces Scheme		Material description		Basic	Material number				
	A	C				Add-ons for colour				
						Silver	RAL 9003	RAL 8022	F9	old gold
1	1	2	Handle Si-line PSK	31	PHIJ0010	872086	858264	-	-5H401_	-5H001_
				35	PHIJ0030	875902	875926	-51201_	-5H401_	-5H001_
				45	PHIJ0040	-52401_	-50202_	-51201_	-	-
	1	2	Carton bogie wheels PSK 160 comfort	right	PMKJ1031-10001_					
				left	PMKJ1032-10001_					
2	1	2	Bogie wheels PSK comfort V	Front						
3	1	2	Bogie wheels PSK comfort H	Rear						
4	2	4	Vertical supporting part PSK comfort							
5	1	2	Sticker PSK bogie wheels safeguard							
6	2	4	Slider PSK comfort							
7	1	2	PORTAL key							
8	1	2	Bogie wheels safeguard	Front						
9	1	2	Bogie wheels safeguard	Rear						

depending on sash rebate width (FFB)

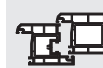
			Size	FFB	Basic	Add-ons for colour	
						Silver: -52501_	F9: -5H401_
1	1	1	Profile set PSK comfort consisting of:	87/200	PMPJ1100	RAL 9001: -50101_	old gold: -5H001_
				107/240	PMPJ1110		
				130/286	PMPJ1120	RAL 9003: -50201_	middle bronze: -53101_
				160/346	PMPJ1130		
				200/426	PMPJ1140	RAL 8022: -51201_	
10	1	1	Cover rail L				
11	1	1	Connecting rod L				
12	1	1	Guiding rail				
13	1	1	Cover rail F				
14	1	1	Running rail				
15	0-2	0-4	Supporting piece L				

for comfort Style version

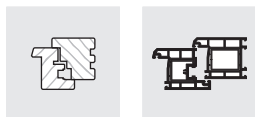
			consisting of:		Basic	Add-ons for colour	
						Silver: -02501_	F9: -0H401_
16	1	2	Cover cap L Style	right	PMAJ2050	RAL 9001: -00101_	old gold: -0H001_
				left			
						RAL 9003: -00201_	middle bronze: -03101_
17	1	2	Cover cap L Style				
18	2	4	Cover cap F				

for comfort Soft version

			consisting of:			Add-ons for colour	
						Silver: -02501_	F9: -0H401_
19	1	2	Cover cap L Soft	right	PMAJ1050	RAL 9001: -00101_	old gold: -0H001_
				left			
						RAL 9003: -00201_	middle bronze: -03101_
20	1	2	Cover cap L Soft				
18	2	4	Cover cap F				
1	2	2	Bag of accessories running rail PSK-comfort	consisting of:	right	Add-ons for colour	
						Si-Silver powder coated VE 1: -02501_	Si-Silver powder coated VE 10: -02502_
						Si-Silver optic VE 1: -10001_	Si-Silver optic VE 10: -10002_
						Black VE 1: -09901_	Black VE 10: -09902_
						Si-Silver powder coated VE 1: -02501_	Si-Silver powder coated VE 10: -02502_
						Si-Silver optic VE 1: -10001_	Si-Silver optic VE 10: -10002_
					left	Black VE 1: -09901_	Black VE 10: -09902_
21	1	2	Stop				
22	1	2	Stop sleeve				
23	1	2	Trigger				

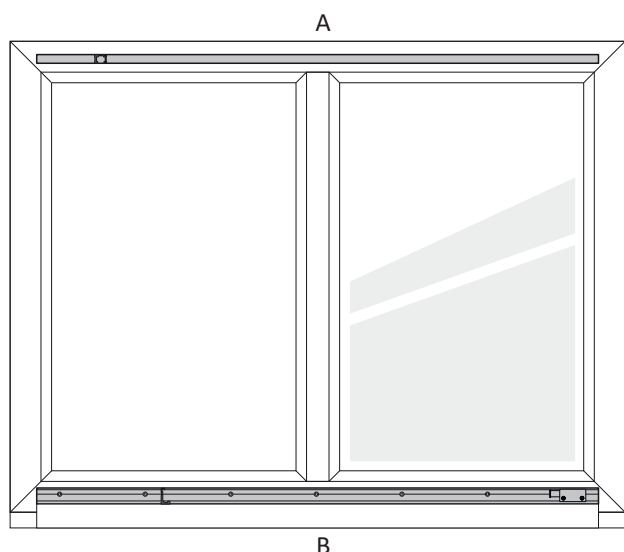


Item	Pieces Scheme		Material description			Basic	Material number				
	A	C					Add-ons for colour				
							Silver	RAL 9003	RAL 8022	F9	old gold
depending on sash rebate width (FFB)											
24	1	2	Tilt stay PSK 160 A connecting rod slider is prescribed for size 200.	Size	FFB	Right PSKJ1061-10001_ PSKJ1071-10001_ PSKJ1081-10001_ PSKJ1091-10001_ PSKJ1101-10001_	Left PSKJ1062-10001_ PSKJ1072-10001_ PSKJ1082-10001_ PSKJ1092-10001_ PSKJ1102-10001_				
				87	670- 870						
				107	871-1070						
				130	1071-1300						
				160	1301-1600						
				200	1601-2000						
25	1	2	Connecting rod slider Push connecting rod with clipped sliders into the guiding rail.	Size	FFB	PVSJ0010-10001_ PVSJ0020-10001_ PVSJ0030-10001_ PVSJ0040-10001_ PVSJ0050-10001_					
				87	670- 870						
				107	871-1070						
				130	1071-1300						
				160	1301-1600						
				200	1601-2000						
	1	2	Bag cover rail K PSK 160 consisting of:	Size	FFB	Basic PMAJ1150 PMAJ1160 PMAJ1170 PMAJ1180 PMAJ1190	Add-ons for colour				
				87	670- 870		Silver: -52501_		F9: -5H401_		
				107	871-1070		RAL 9003: -50201_		old gold: -5H001_		
				130	1071-1300		RAL 8022: -51201_				
				160	1301-1600						
				200	1601-2000						
	1	2	Bag cover rail K PSK 160 consisting of:	200	1601-2000	PMAJ1190	RAL 9001: -50101_		middle bronze: -53101_		
26	1	2	Cover rail K								
27	1	2	Cover cap K right								
28	1	2	Cover cap K left								
29	0-2	0-4	Supporting piece K only for sizes 160 and 200								
30	1-20		for PVC systems: Tap SK H2 3.9x32 DIN7504	PZUJ0010-00008_							
		for timber systems: Screw SHR AW20 4.1x30	PZUJ0020-00008_								
Accessories											
31	2	2	Distance piece			see profile data sheet					
32	1	2	Handle Si-line PSK ABS	lockable	31	PHIJ0020	872093	858318	-	-	-5H001_
					35						
33	1-2	2-4	Supporting piece L	Carton with 100 piece		PZLJ1010-09906_					
34	1	2	Sealing brush set 13 mm			PZUJ0030-00001_					
comfort hardware components											
35	1	2	Stop buffer F	Only in combination with connecting rod slider	PRZJ0030-10001_						
36	2	4	PSK comfort accessories Slam-shut brake	PVC stay measurements 9	PRZJ0010-10001_ PRZJ0020-10001_ PRZJ0060-10001_ PRZJ0050-10001_ PRZJ0040-10001_						
				PVC stay measurement 13							
				Timber rebate width 18							
				Timber rebate width 20							
				Timber rebate width 24							
	1	2	PSK comfort Tipping brake accessories consisting of:		PZDJ0010-10001_						
37	1	2	Tipping brake casing	Can be used on left and right side							
38	1	2	Tipping brake brake	Can be used on left and right side							
39	2	4	Packer RB/FPS A.... FRUP02 see product fiche:		FRUP02XX-04001_						
40			Distance plate set LW for support of the bogie wheels consisting of:	Height:							
				1 mm	2 mm	3 mm	4 mm	8 mm			
	2	4	Distance plate 120 x 11			Plate height depending on profile; see product catalogue or construction drawing for determination	PMZJ1060	PMZJ1070	PMZJ1080	PMZJ1090	PMZJ1100
	4	8	Distance plate 28 x 11								



4 Mounting the hardware components

4.1 Mounting the running rail and guiding rail



⚠ DANGER

Danger to life due to sliding sash falling out

Wrong position of the guiding and running rail.

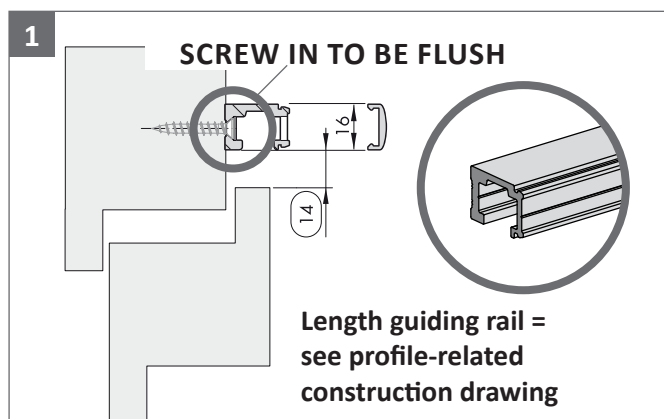
- Adhere to the positioning dimensions.



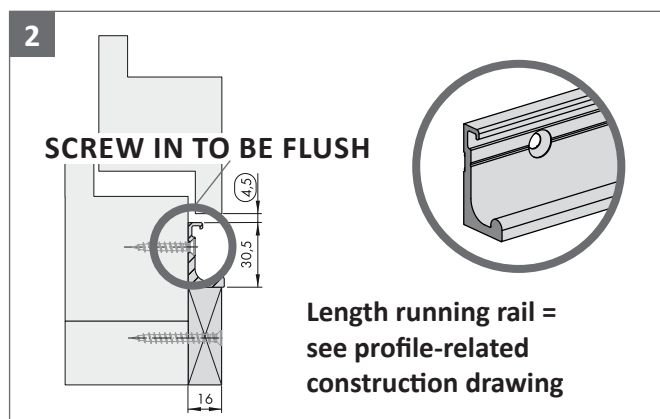
The construction drawing related to the profile must be observed for correct assembly of the guiding and running rail.

A Guiding rail

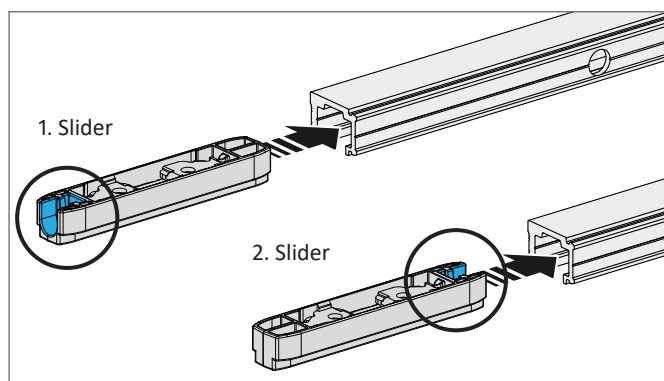
B Running rail



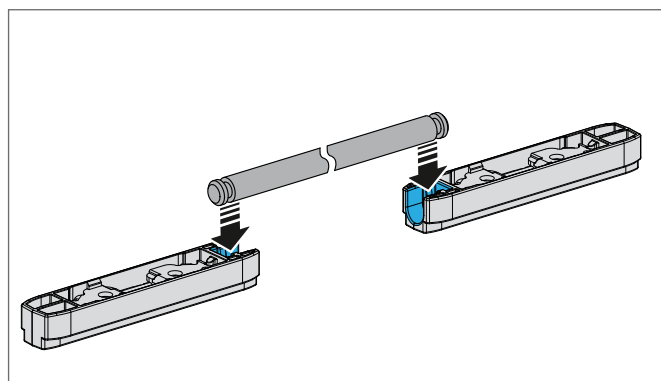
Position the guiding rail. Observe the construction drawing related to the profile.



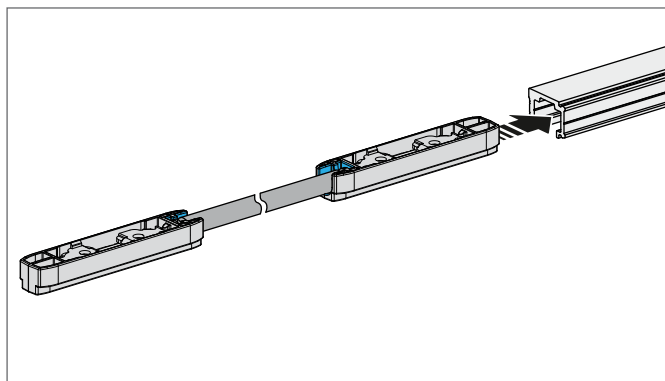
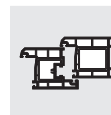
Position the running rail. Observe the construction drawing related to the profile.
Attach load-bearing, end-to-end running rail support when assembling the hardware.



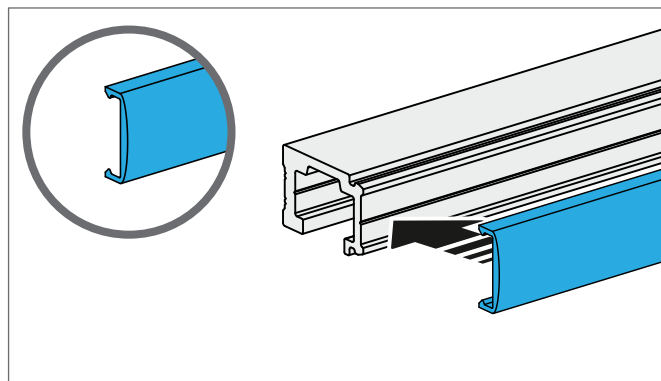
Push both sliders into the guiding rail. Pay attention to the orientation.



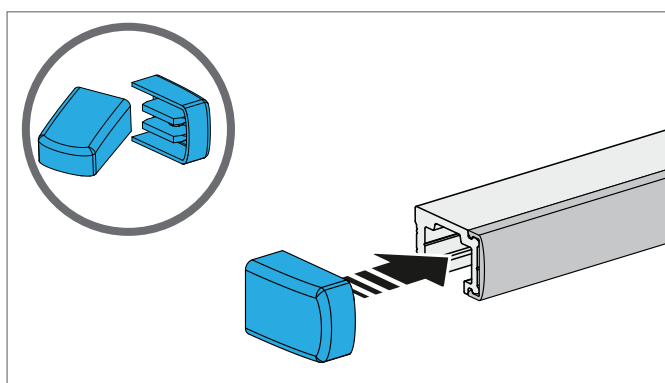
If the connecting rod is used, clip this into the slider first.



Push slider together with the connecting rod into the guiding rail.

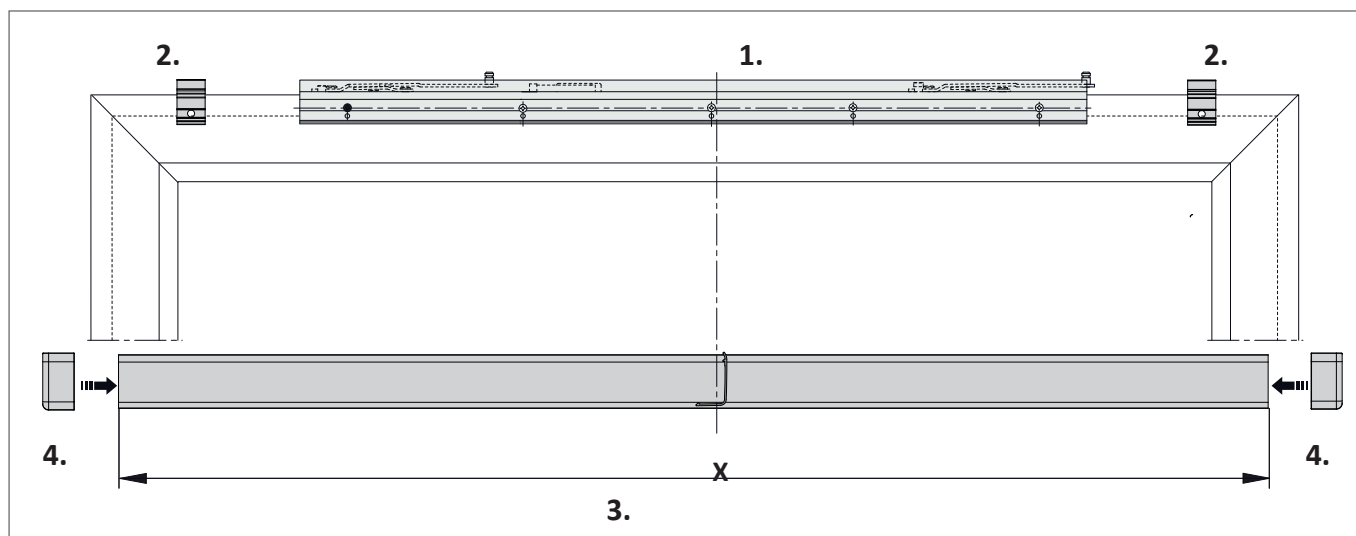


Shorten the cover rail to the required length and clip onto the guiding rail.



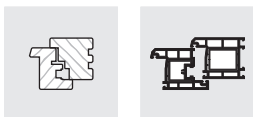
Attach a cover cap F to each end of the guiding rail.

4.2 Installing the tilt stay

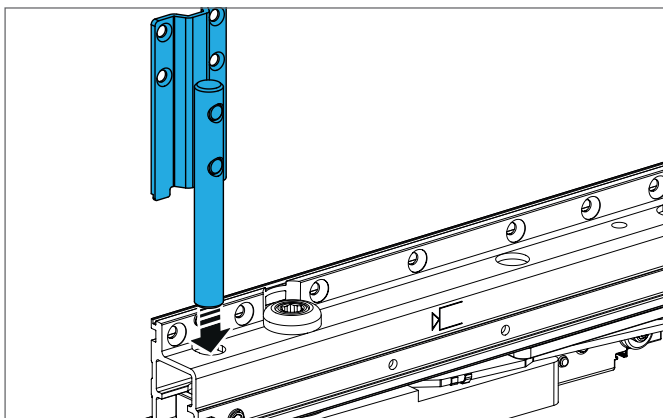


Screw tilt stay to the centre of the sash (1.). Depending on sash width screw on 2 additional supporting pieces K (2.) for sizes 160 and 200.

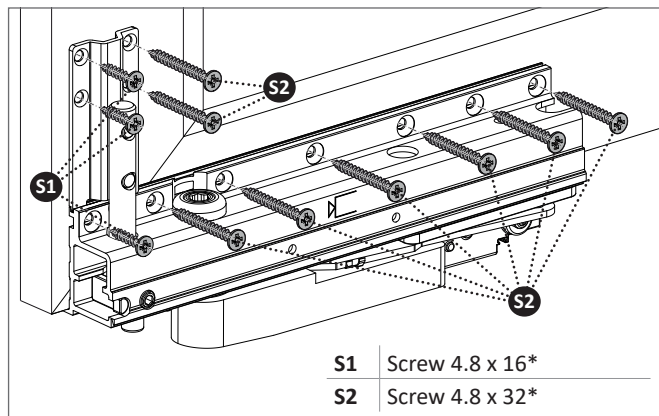
Trim cover rail K to the required length X and clip on (3.). Observe the construction drawing related to the profile. Attach right and left cover caps K to the sides of the cover rail (4.).



4.3 Installing the bogie wheels

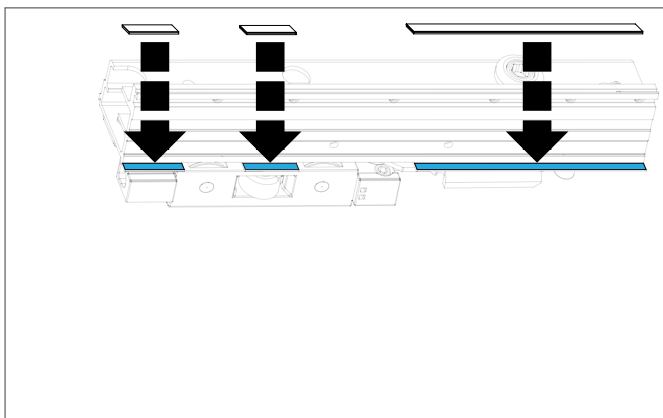


Push supporting part into bogie wheels V and H



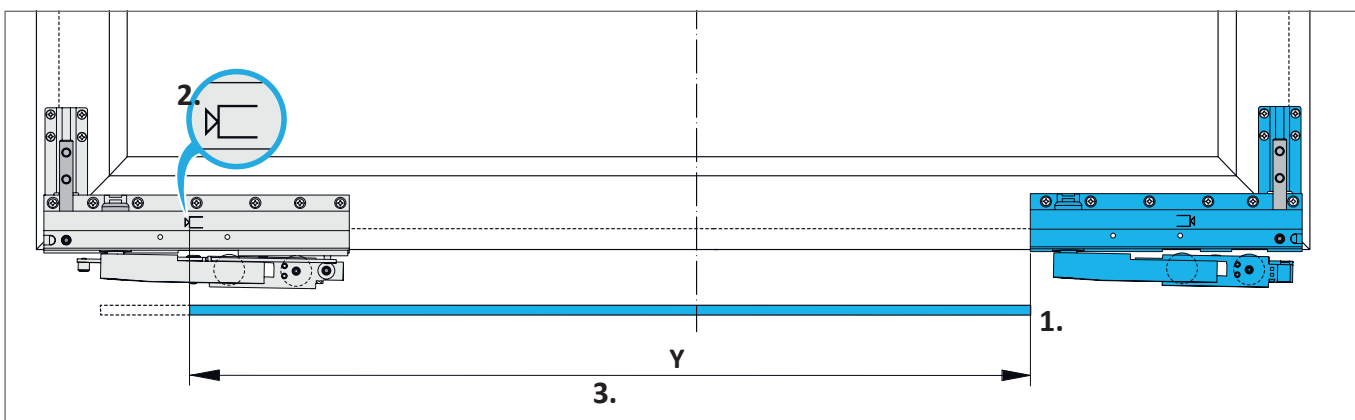
Screw both bogie wheels tightly onto sliding sash according to their position.

*Screw length dependent on profile



According to the profile system, the optional distance plates must be used.

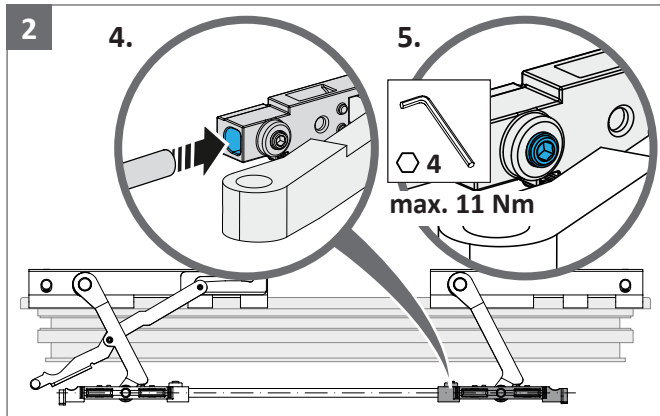
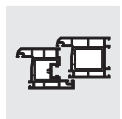
4.4 Installing the connecting rod



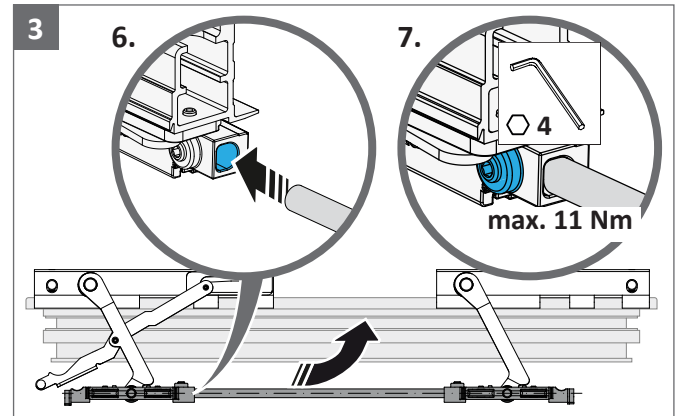
Position connecting rod on the bogie wheels H (1.) and mark the cut on the connecting rod (2.) on the cutting mark of second bogie wheels V.

Crop connecting rod to required length and fix in the bogie wheels (3.).

Y = Length of connecting rod

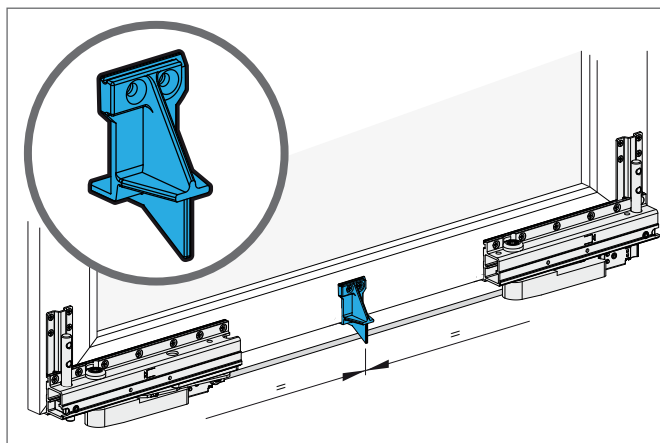


Insert connecting rod into bogie wheels V (4.) and fix with head cap screw (5.). Torque 10-11 Nm.



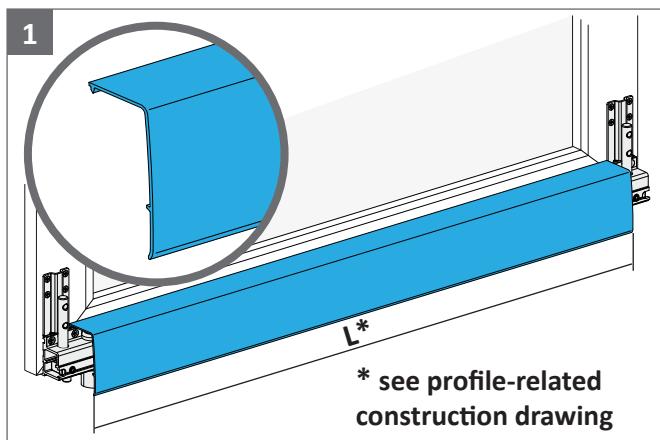
Insert connecting rod into bogie wheels H (6.) and fix with head cap screw (7.). Torque max. 11 Nm.

4.5 Installing supporting piece L

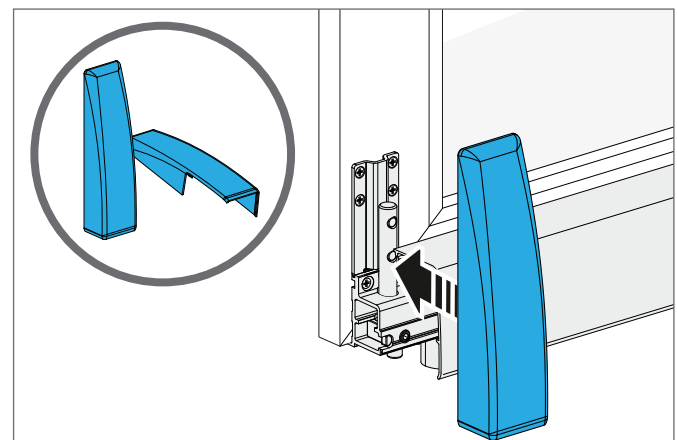


Position supporting piece L for cover rail L centrally and screw into place

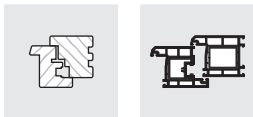
4.6 Mounting the bogie wheels cover



After the sash has been inserted into the frame, attach the cover rail L.



Attach the cover caps L to the respective bogie wheels.



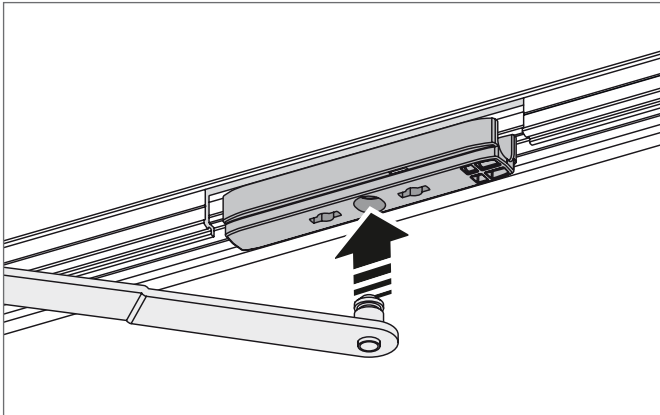
4.7 Inserting the sliding sash

⚠ DANGER

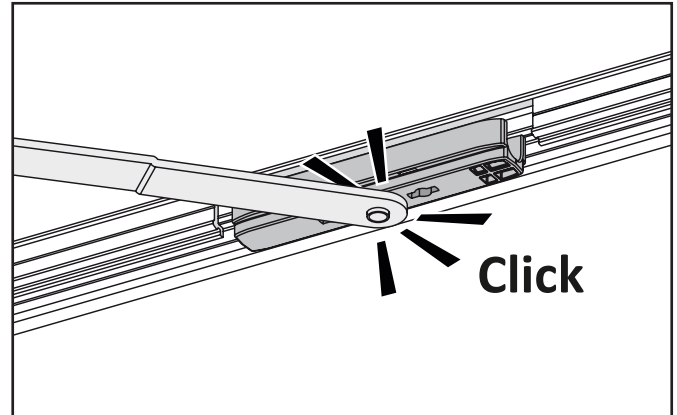
Danger to life due to sliding sash falling out

Stay arm has not engaged.

- Confirm that the coupling bolt is engaged in the slider by pulling on the stay arm.



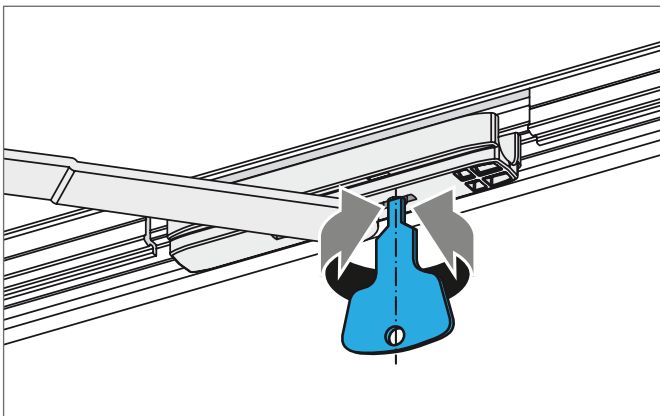
Place stay arms of tilt stay into tilt position. Position the sash on the running rail at an incline and insert the coupling bolt of the stay arms into the slider.



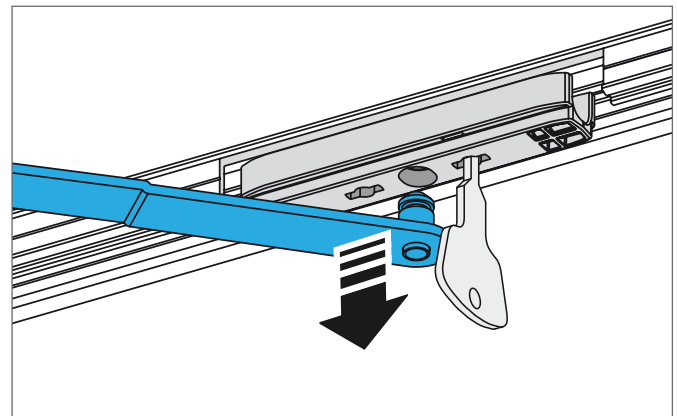
Snap in stay arms of tilt stay into slider.

4.8 Removing the sliding sash

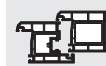
⚠ Only the PORTAL key may be used to release the stay arms in the slider



Place stay arms of tilt stay into tilt position. Release stay arms from the slider using the PORTAL key.



Lift off the stay arms of the tilt stay.



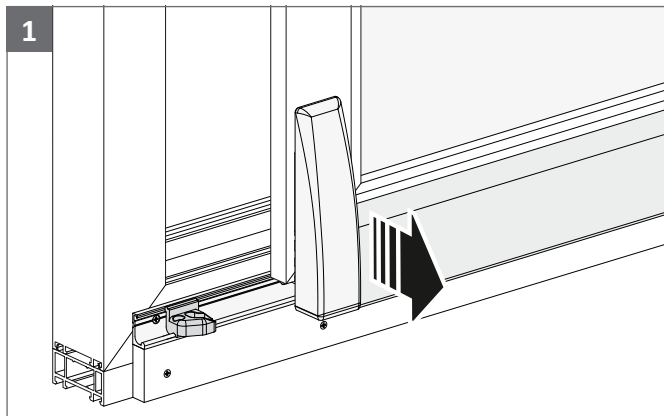
4.9 Installing the bogie wheels safeguard

⚠ DANGER

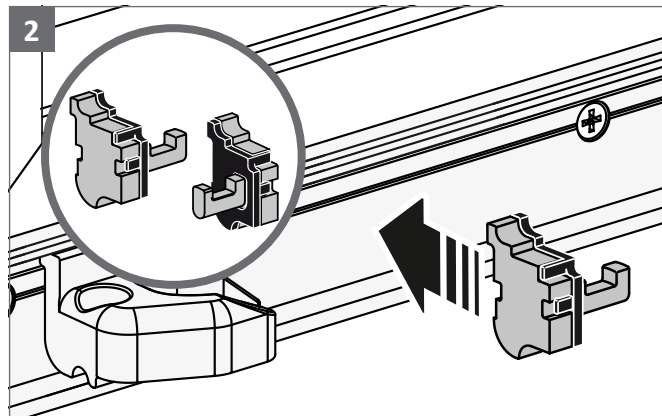
Danger to life due to sliding sash falling out

Not mounted bogie wheels safeguard.

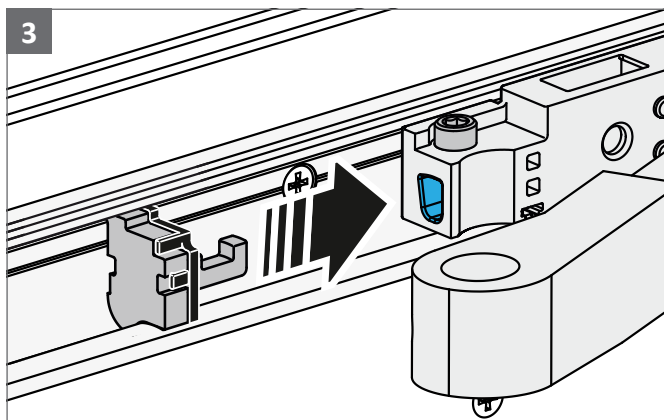
- The bogie wheels safeguard must be correctly installed in both bogie wheels of a sliding sash.



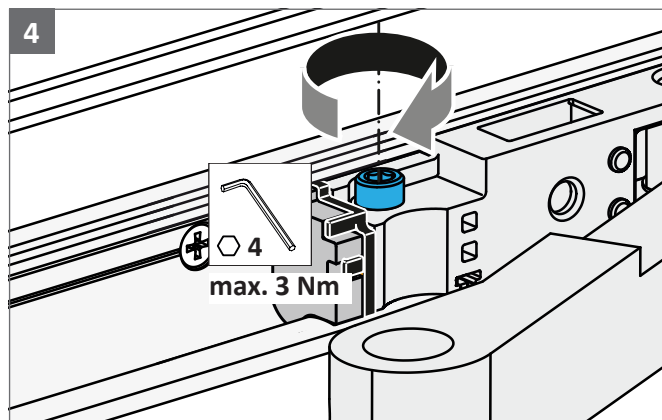
The bogie wheels safeguard can only be installed in a parallel positioned sash.



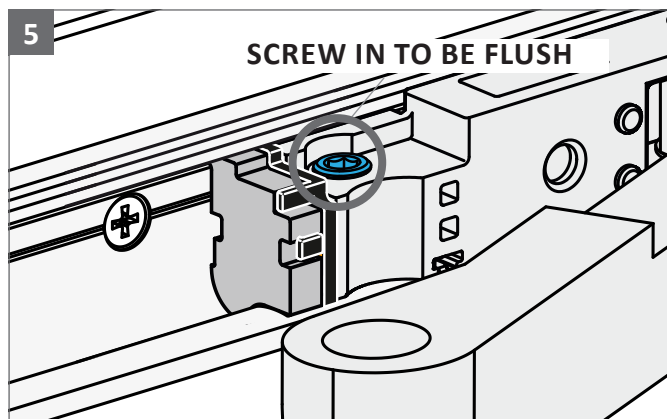
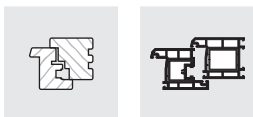
Position the relevant version (right or left) of the bogie wheels safeguard in the running rail.



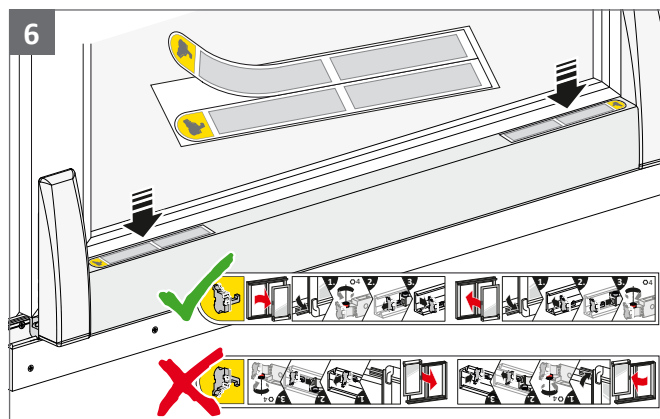
Push safeguard into bogie wheels V and H.



Fix the safeguard in the bogie wheels with a locking screw.



The locking screw must be completely countersunk. Do not overtighten the locking screw, torque max. 3 Nm.

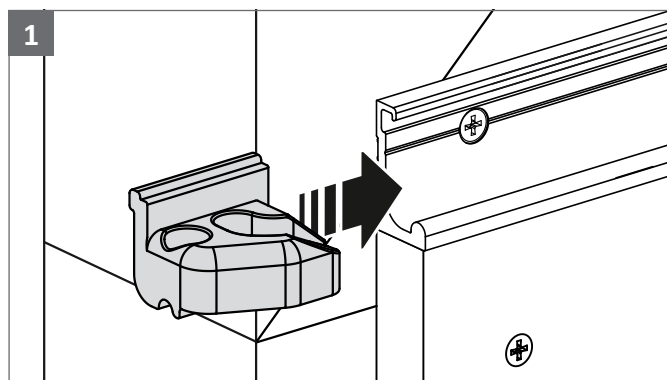


Adhere the notes sticker to the protective foil of the cover rail L. Pay attention to correct orientation of the sticker.

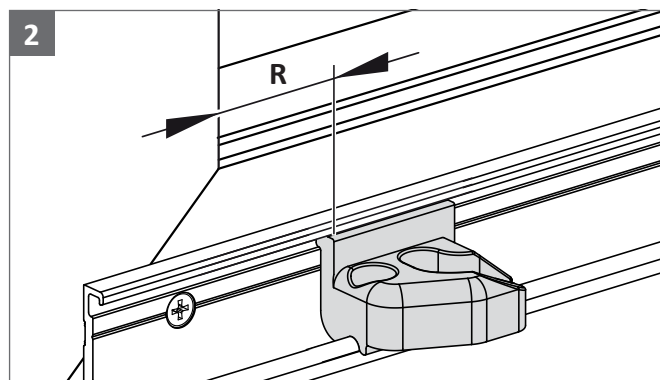
4.10 Removing the bogie wheels safeguard

The removal of the bogie wheels safeguard is carried out in reverse sequence to the installation.

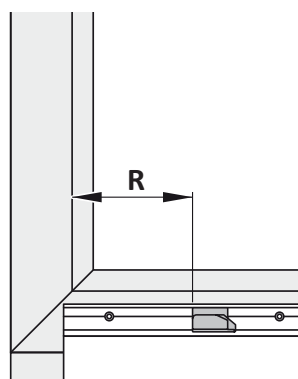
4.11 Positioning the trigger



Slide the trigger sideways into the running rail.



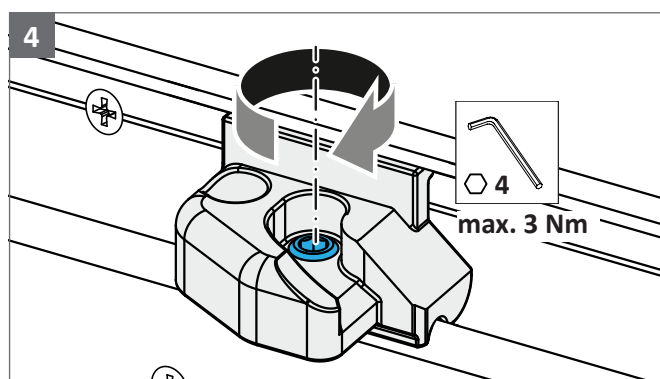
Position the trigger according to the profile.



Rebate width	R
18	16
19	15
20	14
21	13
22	12

Dimension R is designed to the position of bogie wheels V.

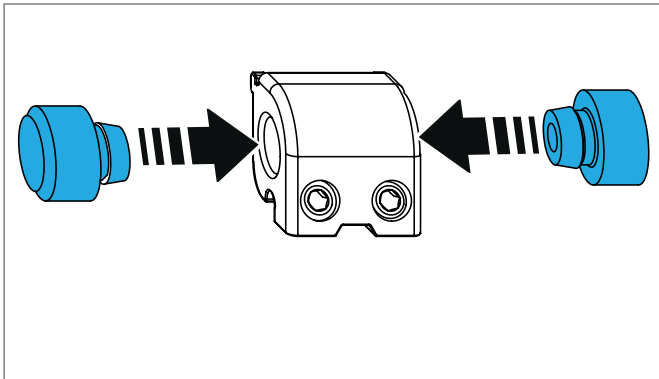
If the position of bogie wheels V is changed, the position of the trigger must be adapted accordingly.



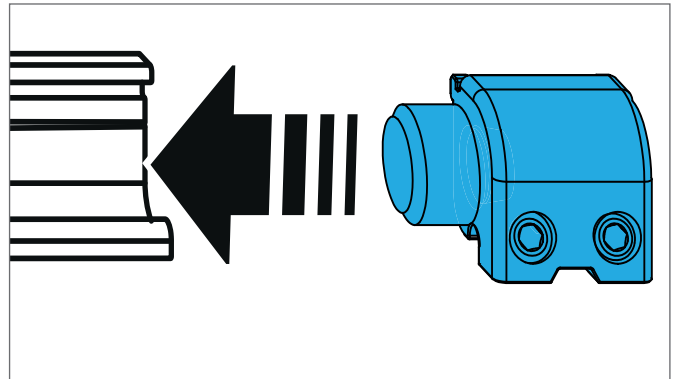
Fix trigger position with head cap screw. Torque max. 3 Nm.



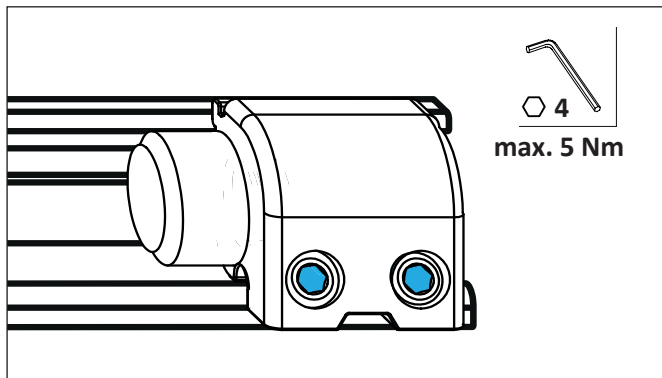
4.12 Positioning the stop



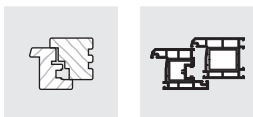
Assemble the stop according to the required DIN direction.



Slide the stop sideways into the running rail.



Fix stop into the running rail with Allen key. Final positioning only after the sliding sash has been installed. Torque max. 5 Nm.



4.13 Tipping brake

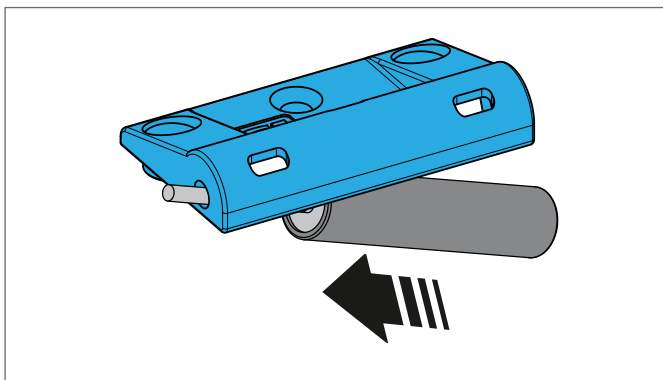
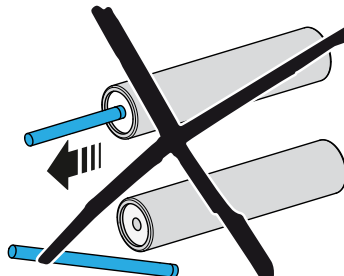
Install the tipping brake with the tilt stay closed before you install the sliding sash in the frame.

Range of application: +10°C to +40°C

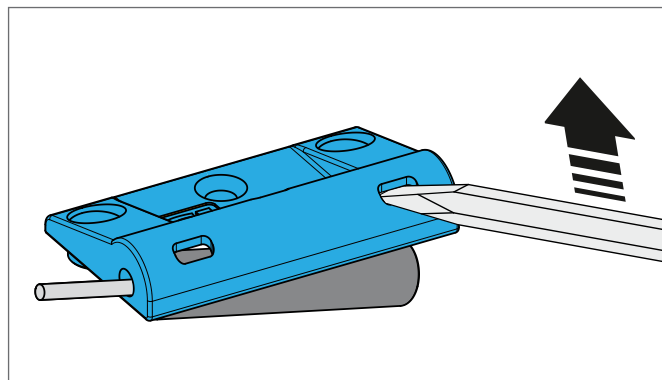
Storage: -20°C to +80°C



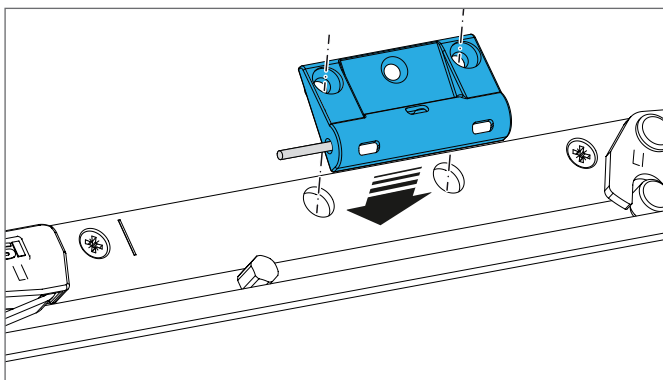
If the brake is disassembled, the function can no longer be guaranteed.



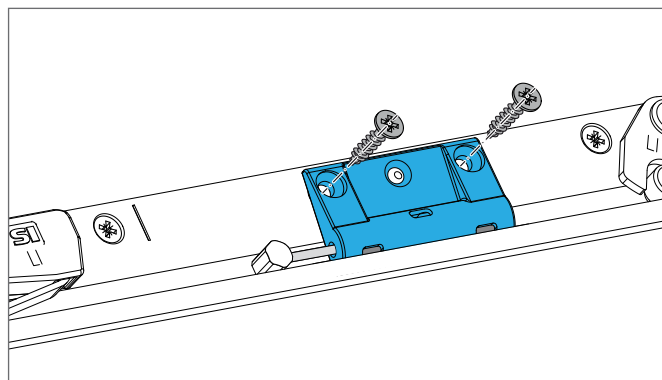
Assemble the tipping brake according to the required version of the DIN direction right/left.



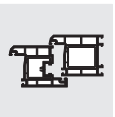
Only dismantle the tilt brake using a slotted screwdriver.



Position the tipping brake on the tilt stay.



Screw the tipping brake firmly into place.



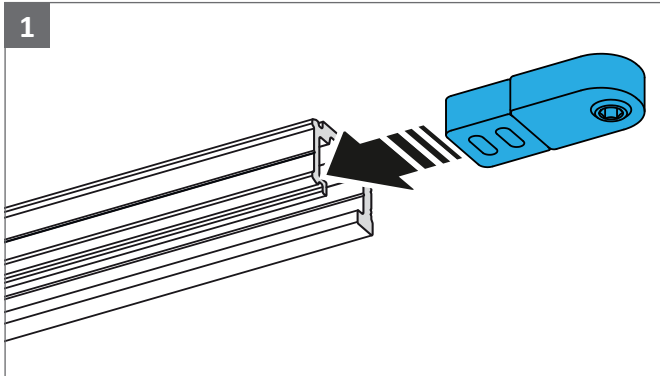
4.14 Stop buffer

⚠ DANGER

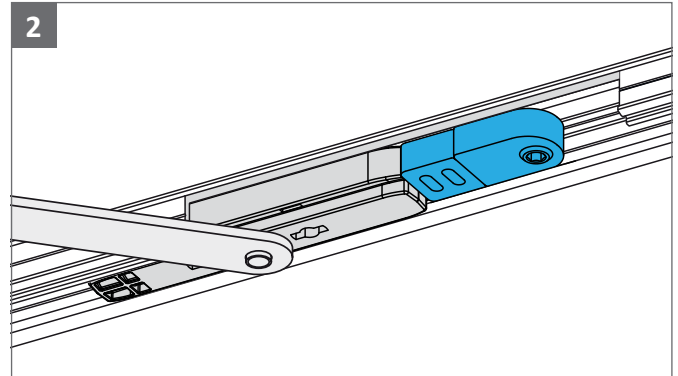
Danger to life due to sliding sash falling out

Not mounted connecting rod slider.

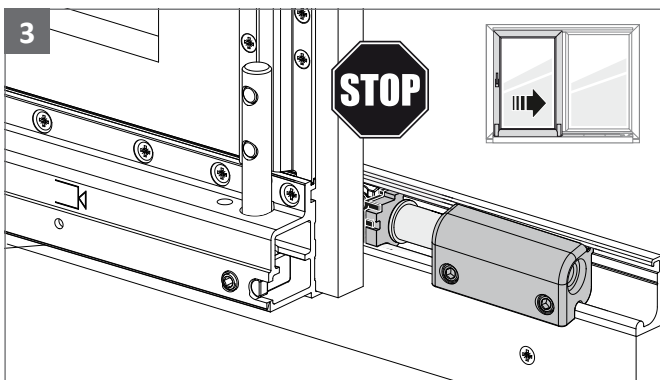
- The stop buffer may only be used if the connecting rod slider has been mounted.



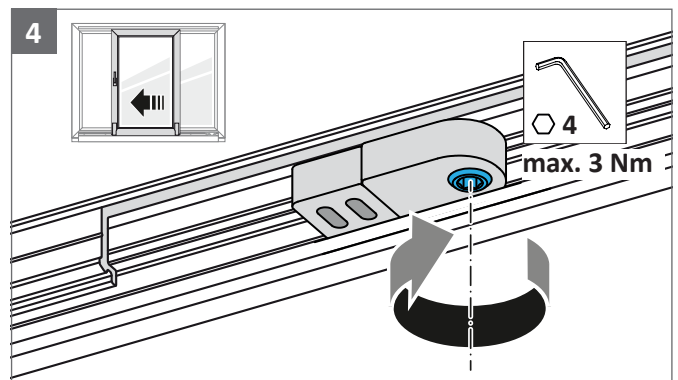
Insert stop buffer into the guiding rail.



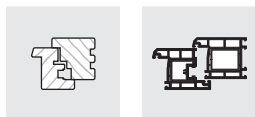
Push the stop buffer as far as the PSK comfort slider.



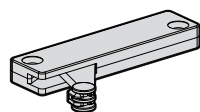
Completely open sliding element and stop before the bogie wheels hit the stop.



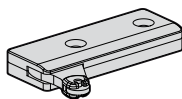
Close the sliding element again. Now fix the stop buffer with a hexagon screw. Max. torque 3 Nm.



4.15 Slam-shut brake

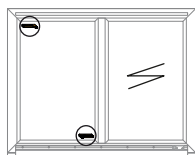


Version
for timber elements

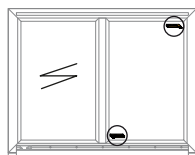


Version
for PVC elements

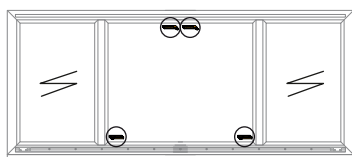
Scheme A
left



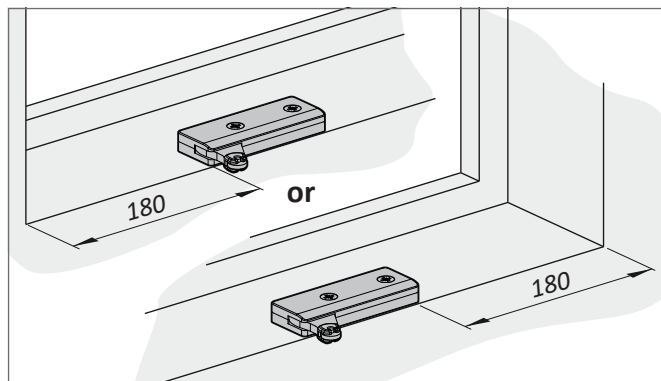
Scheme A
right



Scheme C

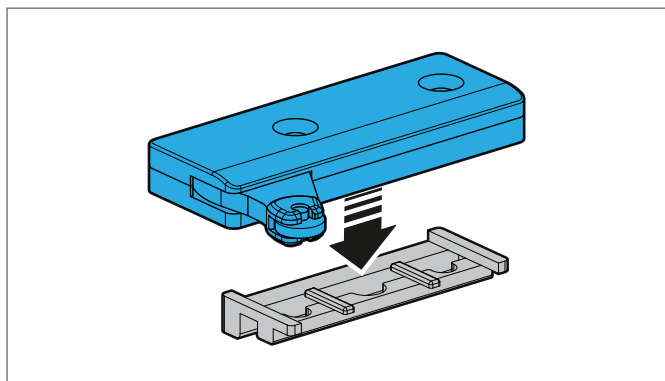


Positioning point for the slam-shut brake on the frame.



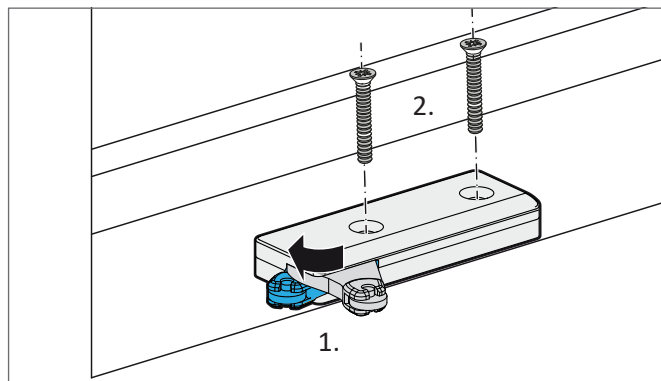
Position 180 mm from the sash rebate corner.

Slide the slam-shut brake accordingly in case of collision with other frame parts.



Only for PVC version.

Place the slam-shut brake on the profile-specific FRUP.

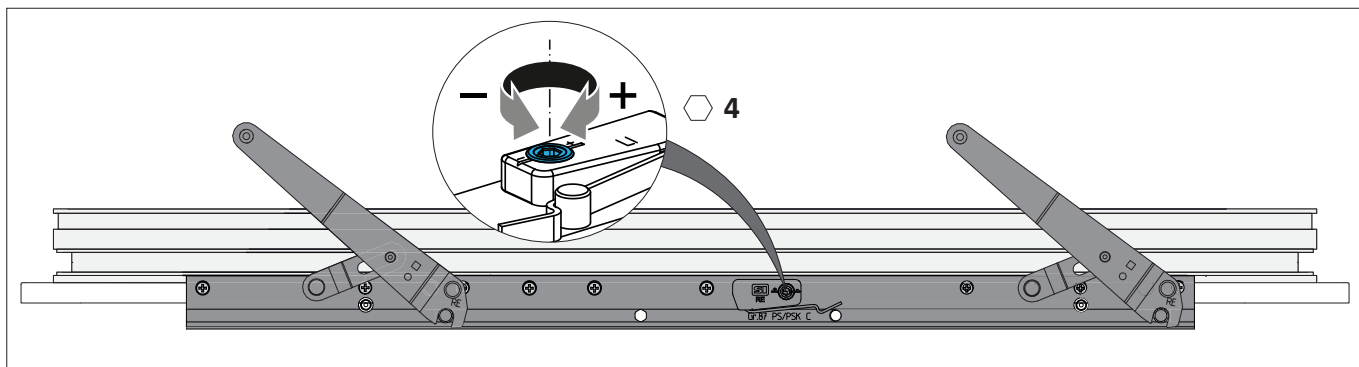


Press back the brake lever (1.), in order to guarantee space for the lever path.

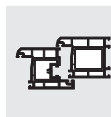
Position slam-shut brake and screw firmly into place (2.).

5 Adjustment

5.1 Adjusting the tilt stay



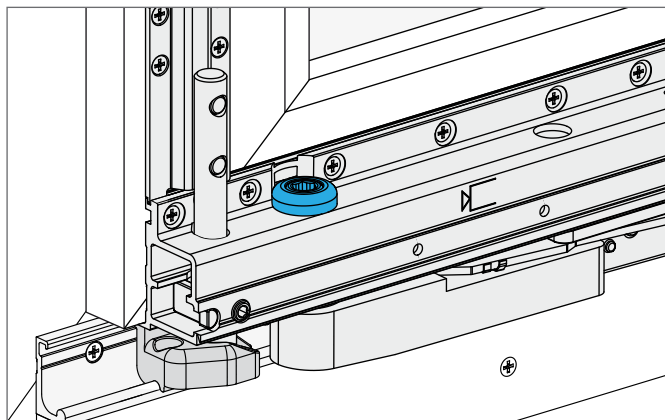
Adjust the engaging function of the tilt stay with Allen key SW 4: stronger (+), weaker (-).



5.2 Height adjustment of the bogie wheels

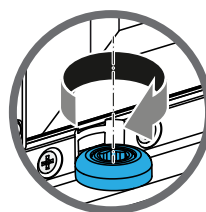
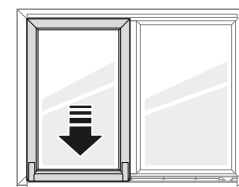
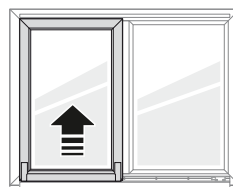


A regulation of the elevating adjustment can be undertaken following the installation of the element in the object.

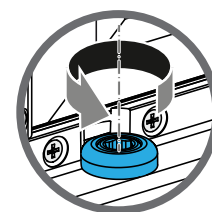


Height adjustment on the bogie wheels with Allen key SW 8.

Default setting in minimum position (0 mm)



8

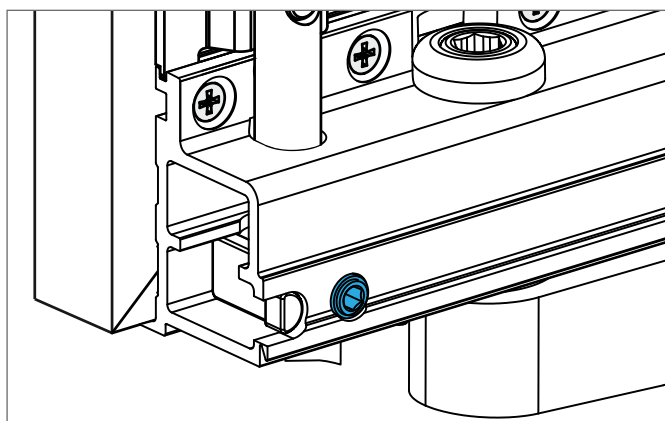


The maximum adjustment range must not be exceeded.

One rotation is equivalent to 1 mm height adjustment.
Maximum adjustment: 4 mm

5.3 Adjustment of the tilt angle of the bogie wheels

Precision adjustment of the sash to the frame can be accomplished with the tilt adjustment of bogie wheels V and H.

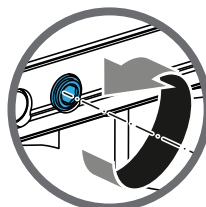
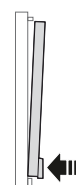


Tilt adjustment on the bogie wheels with Allen key SW 4.

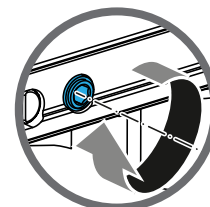
Default setting in minimum position (0 mm).



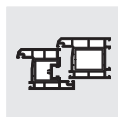
Carry out adjustment following installation of the element in the object. Always adjust both bogie wheels.



4



Adjustment path max. 2 turns from the minimum position.



6 Profile sections

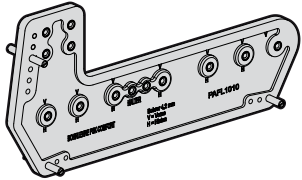
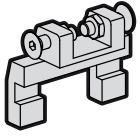
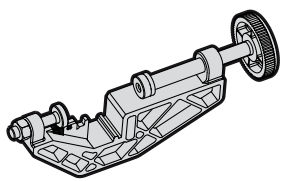
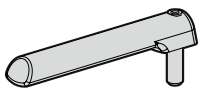
6.1 SI construction drawings

The dimensions of the SI construction drawings must be observed for the correct positioning of the holes and the components on the profile.

You can obtain SI construction drawings from the field sales contact person on request.



7 Jigs

	Material description	Tooling	Material number
	PSK comfort jig		PAFL1010-09601_
	for bogie wheels		
	PSK comfort jig locking part		PAEL1010-00001_
	for locking parts		
	Clamping jig PSK comfort L+F rail		PALJ0110-02101_
	for running and guiding rail		
	PSK EB 640/4 jig	drill Ø3	143001
	For drill centring for fixing bore holes on guiding and running rail		

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