

# PORTAL

## PS 200 comfort 2.0

Parallel sliding hardware  
for PVC and timber elements  
with 12 mm chamber dimension/airgap.

Window systems

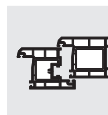
Door systems

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

- PS 200 comfort 2.0 parallel sliding hardware for use in windows or patio doors with PVC profiles.
- Sash weight max. 200 kg.
- The PS 200 comfort 2.0 is intended for use in permanent buildings.
- The PS 200 comfort 2.0 allows the horizontal opening and closing of windows and patio doors from profiles for lift and slide elements.
- The parallel sliding elements must be installed vertically, in no circumstances in a sloping position.

### 1.3 Incorrect use

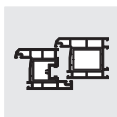
- The steel fittings specified in these assembly instructions are electro-galvanised and then finished using a special technique.
- They must not be used:
  - in wet rooms
  - in environments where the air contains aggressive or corrosive components
  - in environments where the air contains salt
- Please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

### 1.4 Safety notes

- For the PS 200 comfort 2.0, the specifications provided by the profile manufacturers or system owners must be adhered to with regard to possible restrictions on sash dimensions, sash weights and locking distances.

- Maintenance must be carried out on the PS 200 comfort 2.0 at least once a year. See PORTAL maintenance instructions
- 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 use in schools, nurseries, hotels, etc.) we recommend the installation of a lockable handle.
- All hardware components must be properly assembled as per the description on pages "Assembly" PS hardware components and "Adjustment".
- PS 200 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

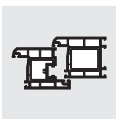
### **VHBE – Hardware for windows and patio doors**

Guidelines and notes for end users

## **1.6 Dimensions**

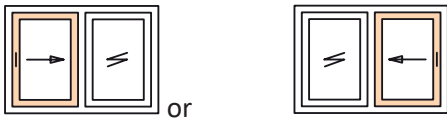
All dimensions are nominal values and include the general tolerances (formerly "dimensional variations").

All nominal values are given in mm.



## 1.7 Scheme overview

### Scheme A

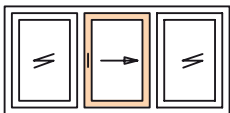


DIN left

DIN right

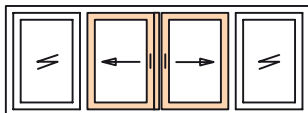
Scheme A with 1 sliding sash/1 fixed sash\*

### Scheme G



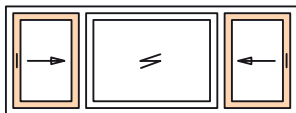
Scheme G with 1 sliding sash/2 fixed sashes\*

### Scheme C



Scheme C with 2 sliding sashes/2 fixed sashes\*

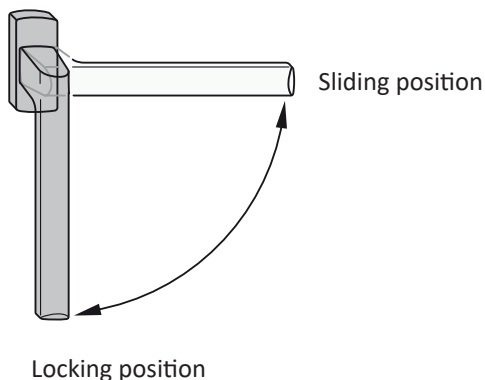
### Scheme K



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).

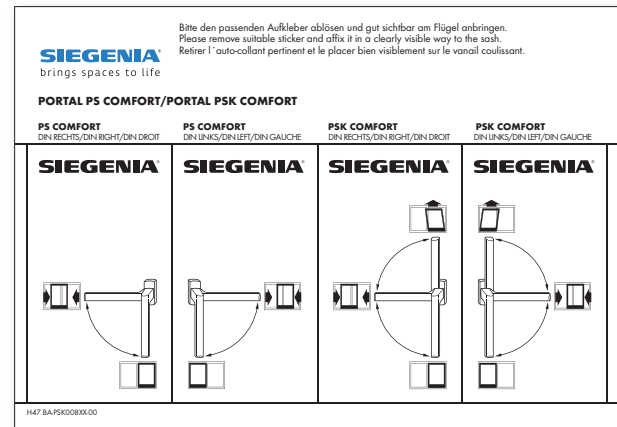
## 1.8 Operating sequence:



## 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 stickers are enclosed in the tilt stay carton



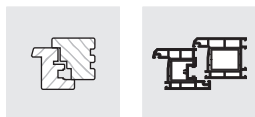
### ATTENTION:

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.**



## 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. 200 kg	

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

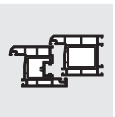
Ratio sash height (FH) / sash width (FB) < 2.5 : 1

- SIEGENIA-Construction drawings PVC profiles:
  - PS 200 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 PS 200 comfort, the specifications of the profile manufacturers or system owners also apply, especially with regard to possible restrictions on permissible sash dimensions and/or sash weight.
- 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

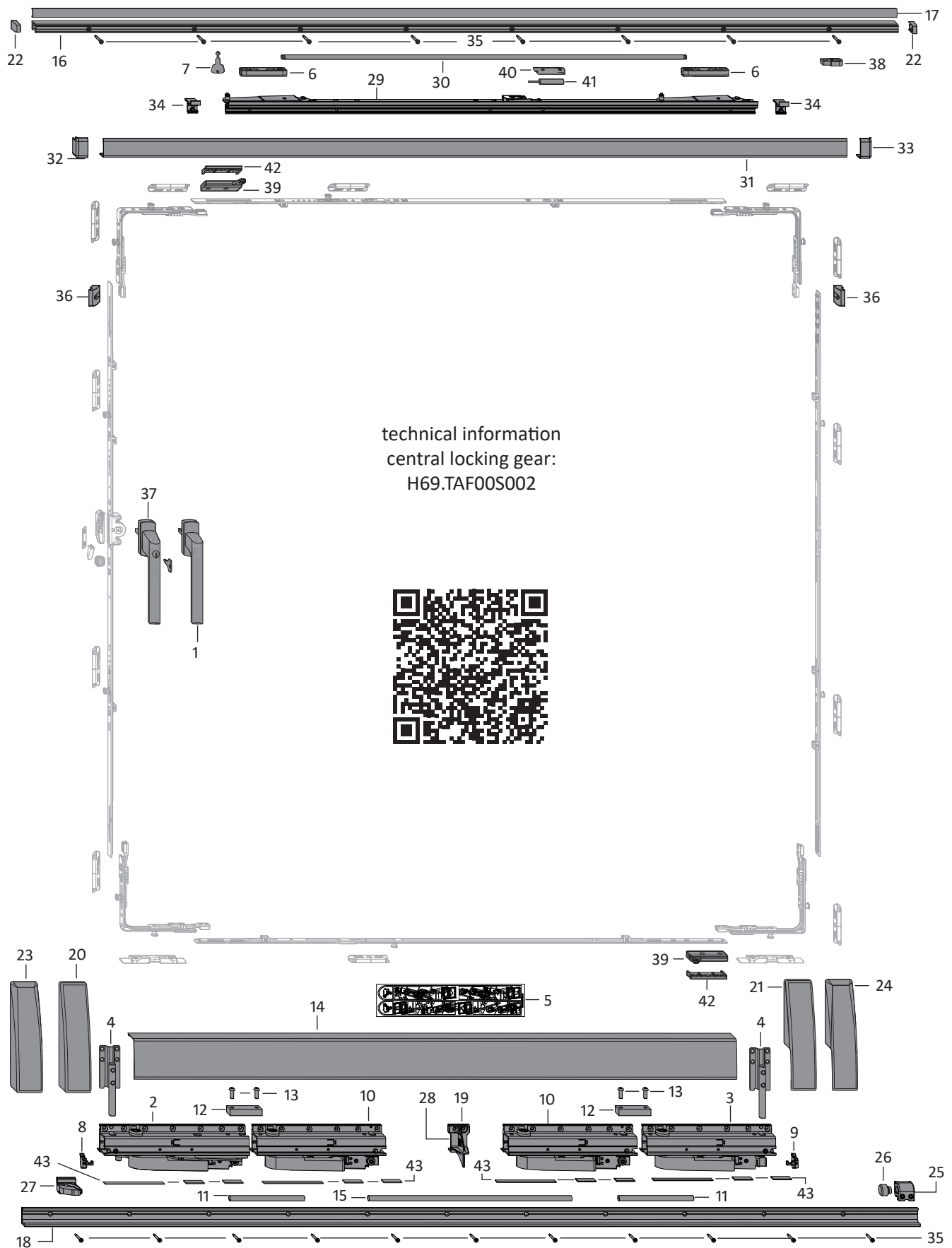
The following abbreviations are used in these assembly instructions:

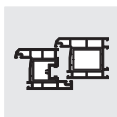
F	Guiding rail	RAH	Frame height
M	Centre	VSU	Locking side bottom
S-RS	Steel roller reinforced security	H	Rear
FB	Sash width	RFB	Frame rebate width
MV	Centre lock	ZV	Centre lock
SW	Wrench size	L	Bogie wheels
FFB	Sash rebate width	S-ES	Steel-reinforced
OKFF	Top edge floor		
V	Front		
FH	Sash height		
PZ	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 diagram scheme A





### 3.2 Hardware list hardware components

Item	Pieces		Material description			Material number						
	Scheme					Basic	Add-ons for colour					
	A	C					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	consisting of:	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						
	2	4	Carton bogie wheels PSK comfort M	 from 161 kg per sliding sash	right	PLWL1031-10002_						
					left	PLWL1032-10002_						
10	2	4	Bogie wheels PSK comfort M									
11	2	4	Connecting rod PSK comfort M									
12	2	4	Connecting piece PSK comfort									
13	4	8	Pan-head screw M6x16									

depending on sash rebate width (FFB)

			Profile set PSK comfort	consisting of:	Size	FFB	Basic	Add-ons for colour		
					87/200	670- 870		Silver: -52501_	F9: -5H401_	
	1	1	Profile set PSK comfort	consisting of:	107/240	871-1070	PMPJ1100	RAL 9001: -50101_	old gold: -5H001_	
					130/286	1071-1300	PMPJ1110			
					160/346	1301-1600	PMPJ1120		middle bronze: -53101_	
					200/426	1601-2000	PMPJ1130			
14	1	1	Cover rail L				PMPJ1140	RAL 8022 -51201_		
15	1	1	Connecting rod L							
16	1	1	Guiding rail							
17	1	1	Cover rail F							
18	1	1	Running rail							
19	0-2	0-4	Supporting piece L							

for comfort Style version

			Bag cover cap set PSK comfort Style	consisting of:		Basic	Add-ons for colour		
							Silver: -02501_	F9: -0H401_	
20	1	2	Cover cap L Style	right		PMAJ2050	RAL 9001: -00101_	old gold: -0H001_	
21	1	2	Cover cap L Style	left			RAL 9003: -00201_	middle bronze: -03101_	
22	2	4	Cover cap F				RAL 8022: -01201_		



for comfort Soft version

			Bag cover cap set PSK comfort Soft	consisting of:		Basic	Add-ons for colour		
							Silver: -02501_	F9: -0H401_	
23	1	2	Cover cap L Soft	right	an alternative to item 16	PMAJ1050	RAL 9001: -00101_	old gold: -0H001_	
24	1	2	Cover cap L Soft	left	an alternative to item 17		RAL 9003: -00201_	middle bronze: -03101_	
18	2	4	Cover cap F				RAL 8022: -01201_		



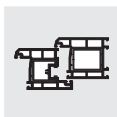
Item	Pieces Scheme		Material description			Material number						
						Basic	Add-ons for colour					
							Silver	RAL 9003	RAL 8022	F9	old gold	
						Basic	Add-ons for colour					
	1	2	Bag of accessories running rail PSK-comfort	consisting of:	right	PMZJ2051	Si-Silver powder coated VE 1: -02501_		Si-Silver 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_			
					left	PMZJ2052	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_			
25	1	2	Stop									
26	1	2	Stop sleeve									
27	1	2	Trigger									
28	1-2	2-4	Supporting piece L	Carton with 100 piece			PZLJ1010-09906					

depending on sash rebate width (FFB)

depending on each rebate width (PVS)											
29	1	2	<b>Tilt stay PSK 160</b>   A connecting rod slider is prescribed for size 200.		Size	FFB	Right		Left		
					87	670- 870	PSKJ1061-10001_		PSKJ1062-10001_		
					107	871-1070	PSKJ1071-10001_		PSKJ1072-10001_		
					130	1071-1300	PSKJ1081-10001_		PSKJ1082-10001_		
					160	1301-1600	PSKJ1091-10001_		PSKJ1092-10001_		
					200	1601-2000	PSKJ1101-10001_		PSKJ1102-10001_		
30	1	2	<b>Connecting rod slider</b>   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	<b>Bag cover rail K PSK 160</b> consisting of:		Size	FFB	Basic	Add-ons for colour			
					87	670- 870	PMAJ1150	Silver: -52501_		F9: -5H401_	
					107	871-1070		PMAJ1160	RAL 9003: -50201_		old gold: -5H001_
					130	1071-1300	PMAJ1170		RAL 8022: -51201_		
					160	1301-1600		PMAJ1180			
					200	1601-2000	PMAJ1190				
	1	2	<b>Bag cover rail K PSK 160</b> consisting of:		200	1601-2000	PMAJ1190	RAL 9001: -50101_		middle bronze: -53101_	
31	1	2	Cover rail K								
32	1	2	Cover cap K	right							
33	1	2	Cover cap K	left							
34	0-2	0-4	Supporting piece K	only for sizes 160 and 200							
35	1-20		for PVC systems	Tap SK H2 3.9x32 DIN7504			PZUJ0010-00008_				
		for timber systems	Screw SHR AW20 4.1x30			PZUJ0020-00008_					

comfort hardware components

36	2	2	Distance piece				see profile data sheet				
37	1	2	Handle Si-line PSK ABS	lockable	31 35	PHIJ0020 PHIJ0090	872093 -	858318 875957	- -	- -	-5H001_ -5H001_
38	1	2	Stop buffer F	Only in combination with connecting rod slider							PRZJ0030-10001_



# PS 200 comfort 2.0


## Overview of hardware components

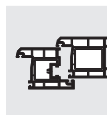
PORTAL

PS

Item	Pieces		Material description	Material number						
	Scheme			Basic	Add-ons for colour					
						Silver	RAL 9003	RAL 8022	F9	old gold
	A	C								

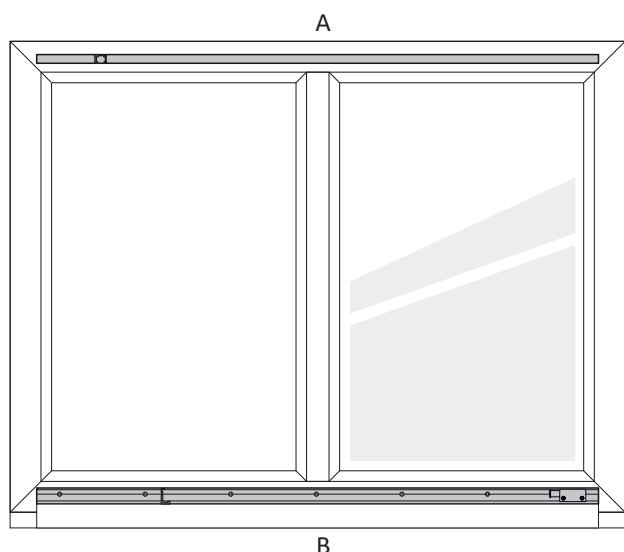
### Accessories

39	2	4	PSK comfort accessories Slam-shut brake	PVC stay measurements 9		PRZJ0010-10001_						
				PVC stay measurement 13		PRZJ0020-10001_						
				Timber rebate width 18		PRZJ0060-10001_						
				Timber rebate width 20		PRZJ0050-10001_						
				Timber rebate width 24		PRZJ0040-10001_						
	1	2	PSK comfort Tipping brake accessories		consisting of:		PZDJ0010-10001_					
40	1	2	Tipping brake casing		Can be used on left and right side		FRUP02XX-04001_					
41	1	2	Tipping brake brake		Can be used on left and right side							
42	2	4	Packer RB/FPS A.... FRUP02									
43			Distance plate set LW for support of the bogie wheels		consisting of:		Height:	1 mm	2 mm	3 mm	4 mm	8 mm
								PMZJ1060	PMZJ1070	PMZJ1080	PMZJ1090	PMZJ1100
								-00001_	-00001_	-00001_	-00001_	-00001_
	2	4	Distance plate 120 x 11					Plate height depending on profile; see product catalogue or construction drawing for determination				
	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.

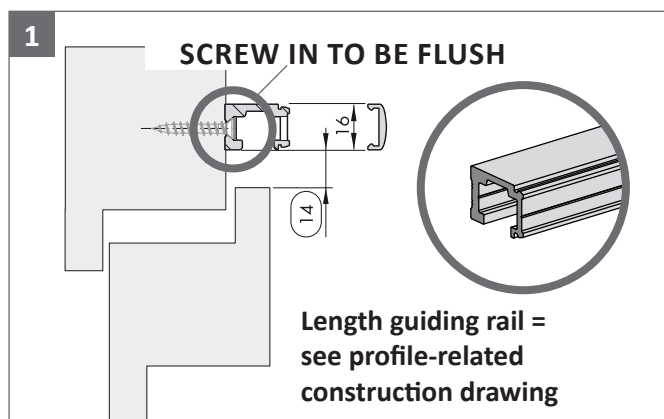
- Adhere to the positioning dimensions.



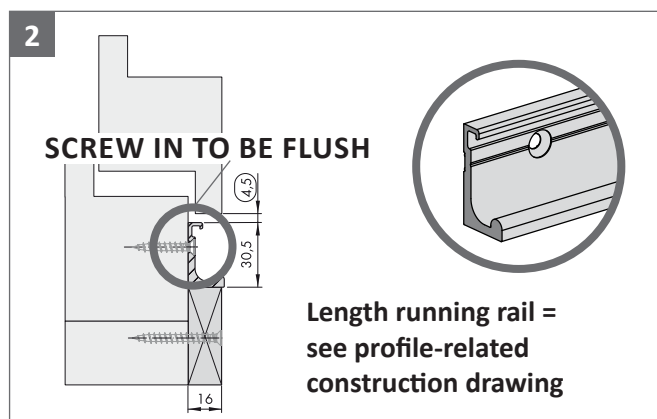
The construction drawing related to the profile must be observed for correct assembly of the guiding and running rail.

A Guiding rail

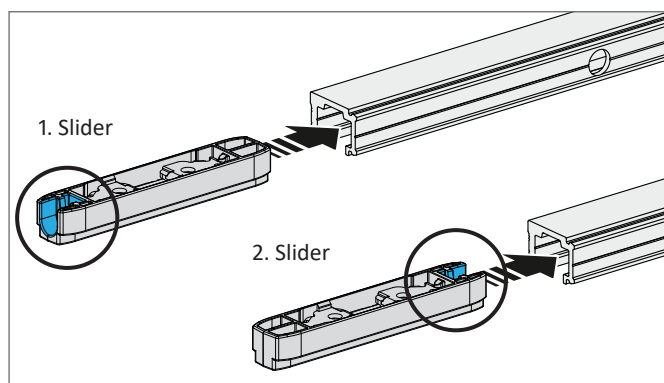
B Running rail



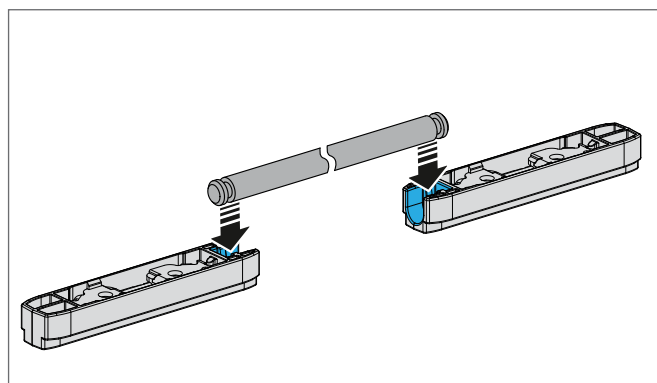
Position the guiding rail.  
Observe the construction drawing related to the profile.



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.

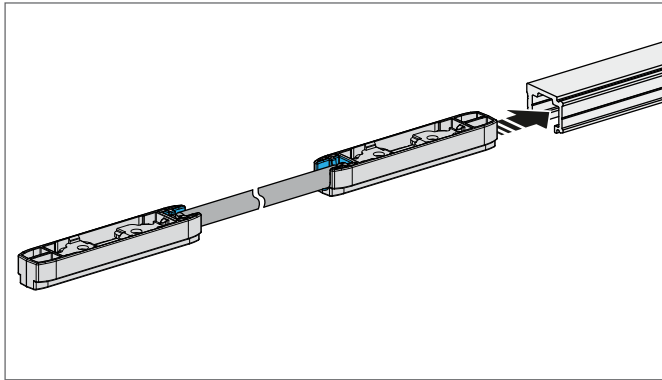
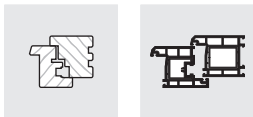


Push both sliders into the guiding rail. Pay attention to the orientation.

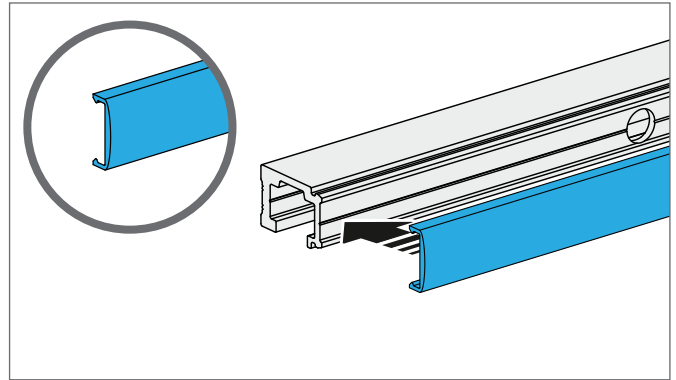


If the connecting rod is used, clip this into the slider first.

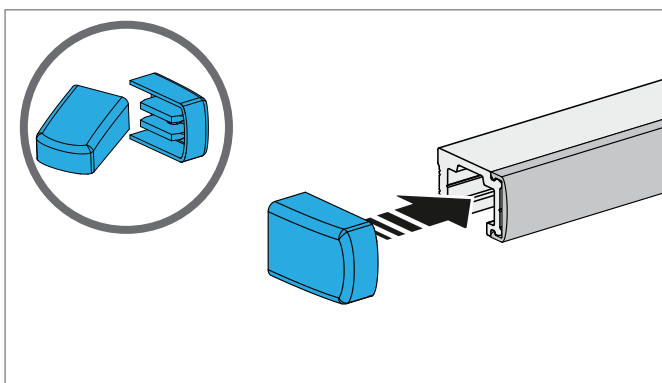




Push slider together with the connecting rod into the guiding rail.

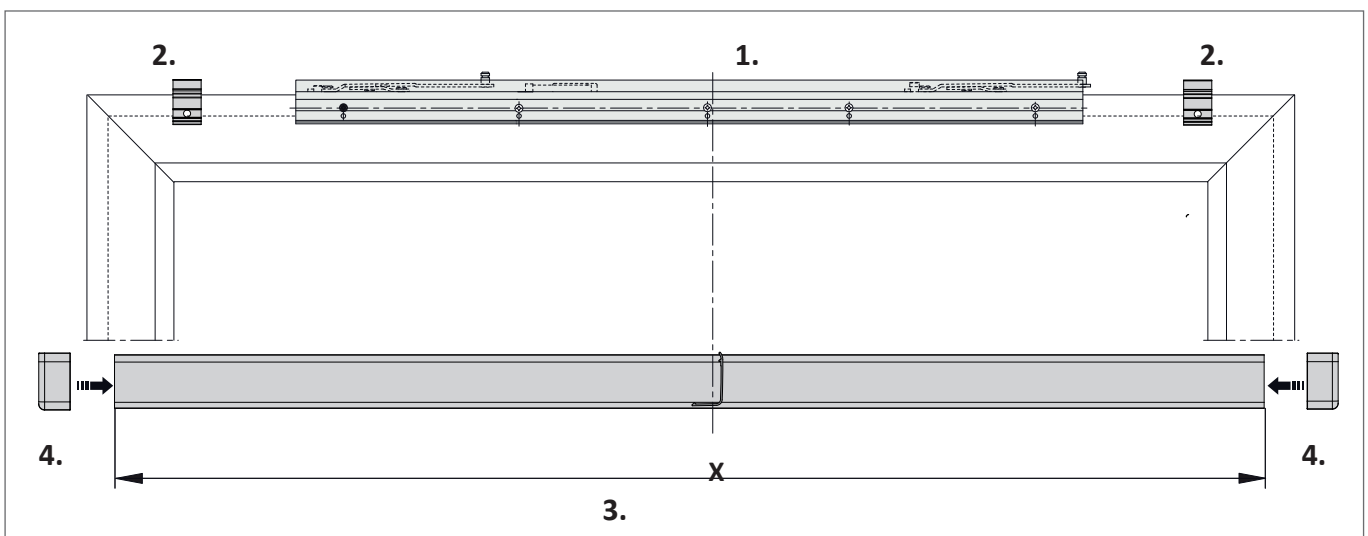


Shorten the cover rail to the required length and clip onto the guiding rail.



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

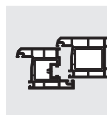
## 4.2 Installing the tilt stay



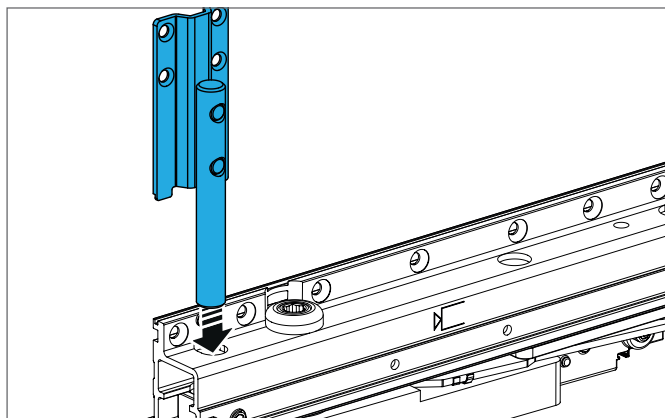
Screw tilt stay to the centre of the sash (1.). Depending on sash width screw on 2 additional supporting pieces K (2.) for sizes 160 and 200.

Trim cover rail K to the required length  $X$  and clip on (3.). Observe the construction drawing related to the profile.

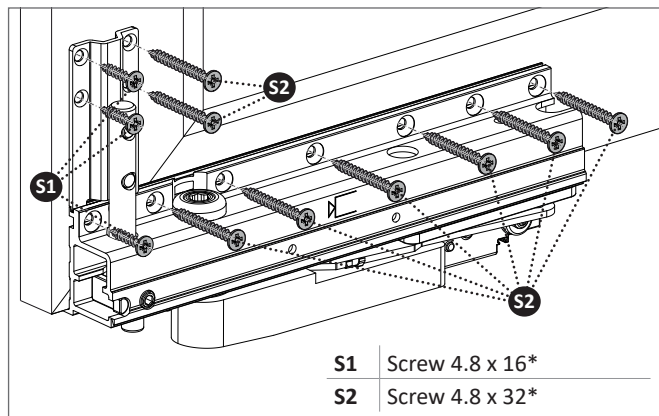
Attach right and left cover caps K to the sides of the cover rail (4.).



### 4.3 Installing the bogie wheels



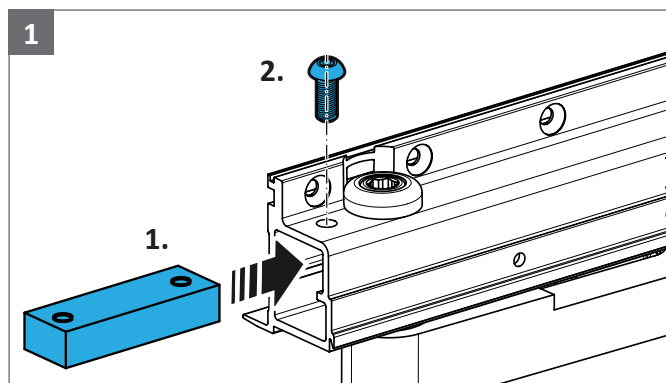
Push supporting part into bogie wheels V and H



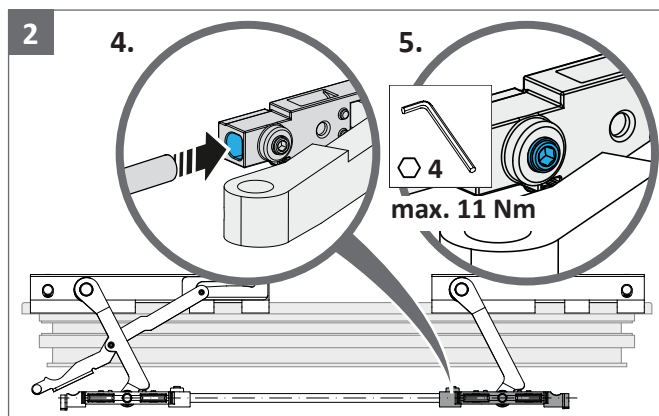
Screw bogie wheels tightly onto sliding sash according to their position.

\*Screw length dependent on profile

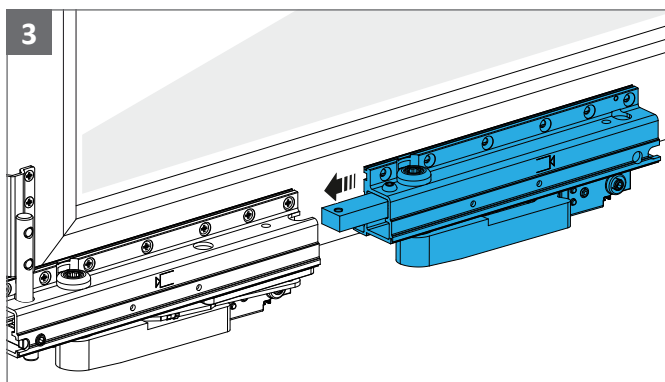
#### 4.3.1 Installing the bogie wheels M



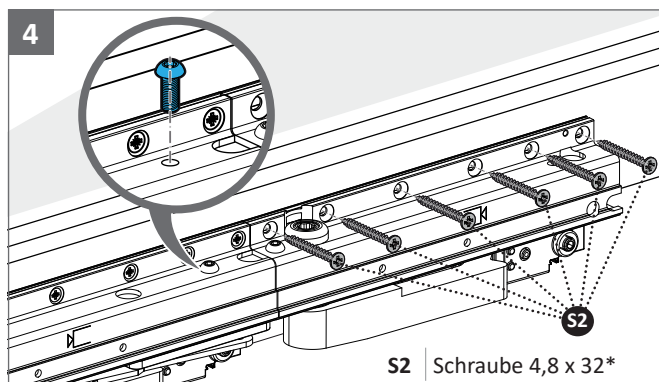
Push the connecting piece into bogie wheels M (1.) and fix with pan-head screw (2.).



Insert connecting rod M into bogie wheels M (3.) and fix with head cap screw (4.). Torque max. 11 Nm.



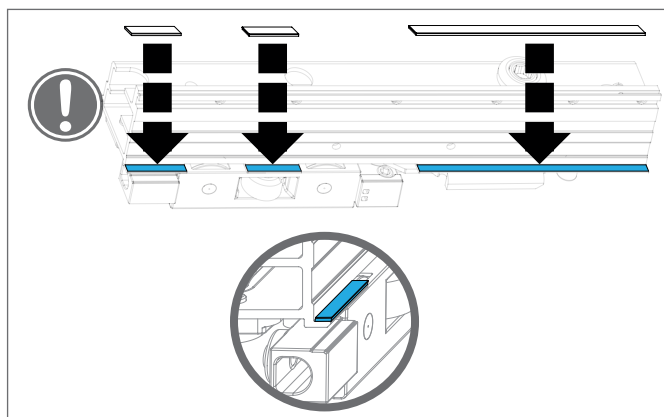
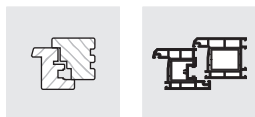
Push the respective bogie wheels M onto bogie wheels V and H.



Fix bogie wheels M to bogie wheels V and H with pan-head screw.

Screw bogie wheels M tightly onto sliding sash.

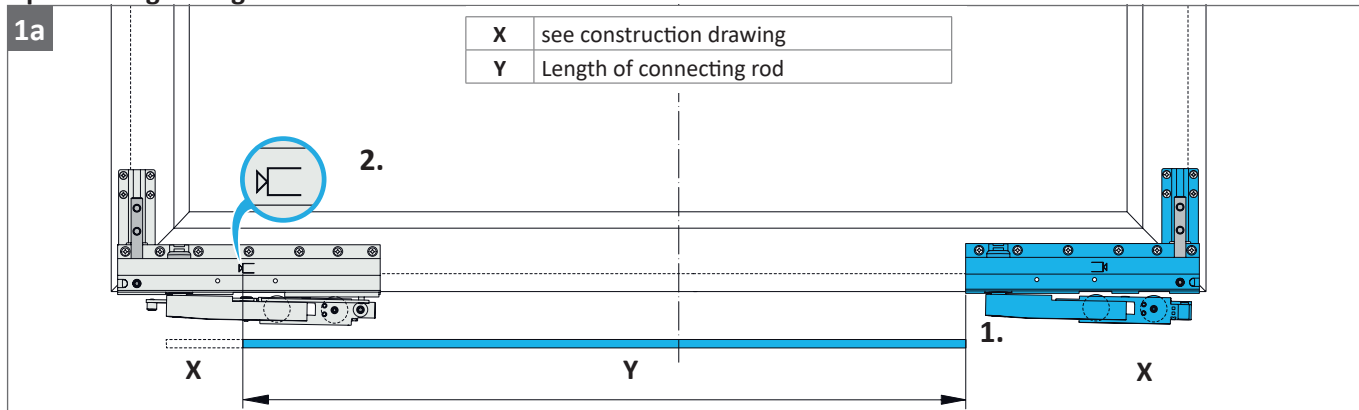
\*Screw length dependent on profile



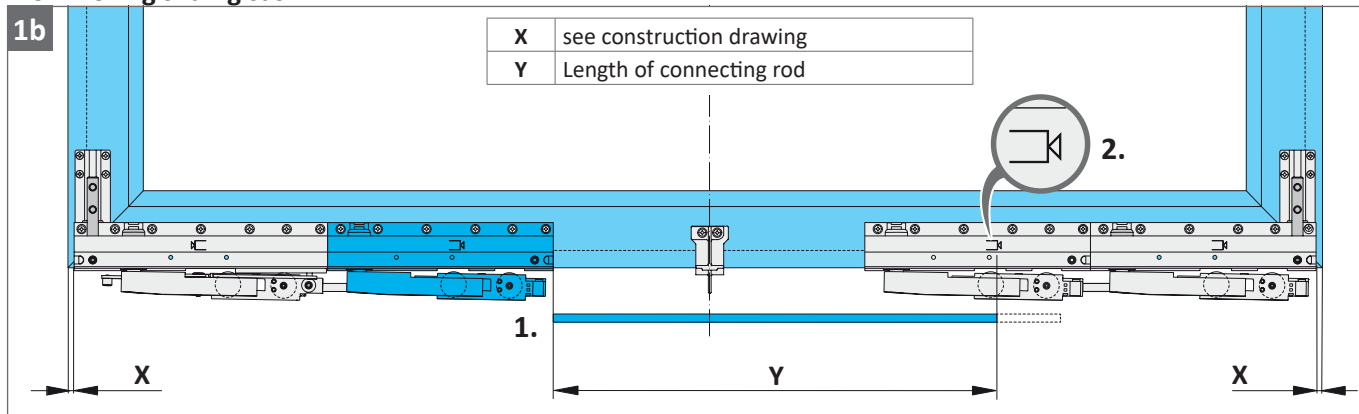
According to the profile system, the optional distance plates must be used.

#### 4.4 Installing the connecting rod

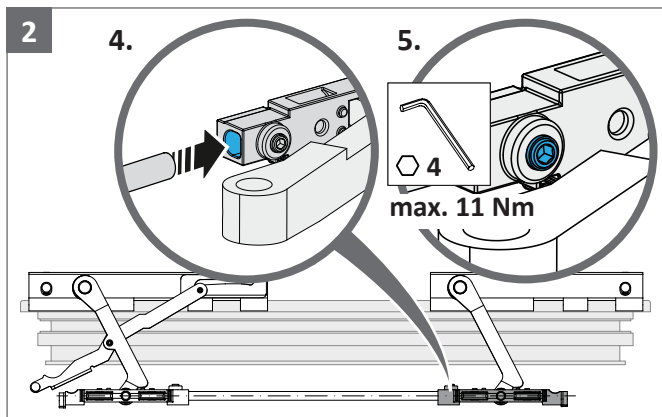
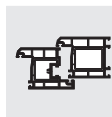
Up to 160 kg sliding sash



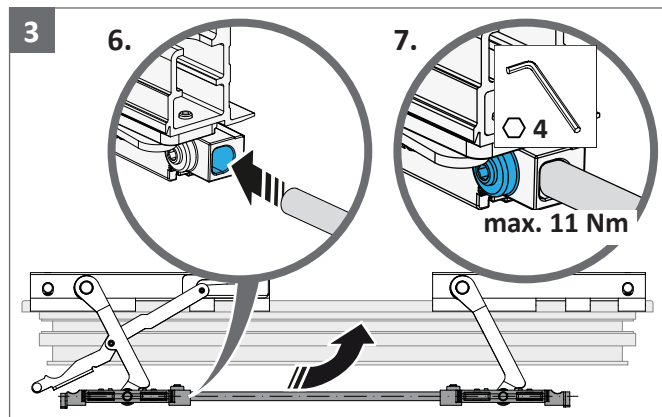
From 161 kg sliding sash



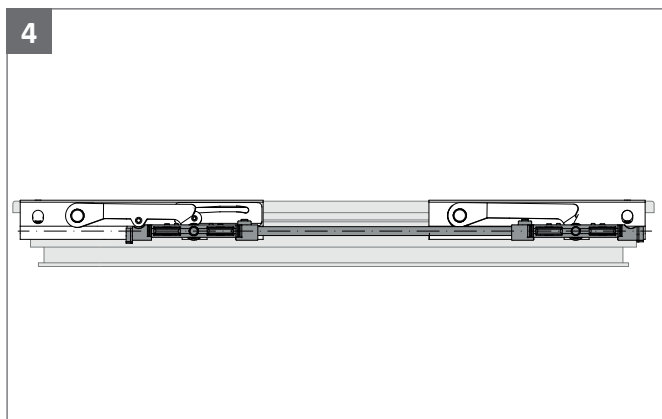
Place connecting rod on the H bogie wheels (1.). Transfer the crop indication on the cropping mark of bogie wheels V, to the connecting rod (2.) and crop the connecting rod.



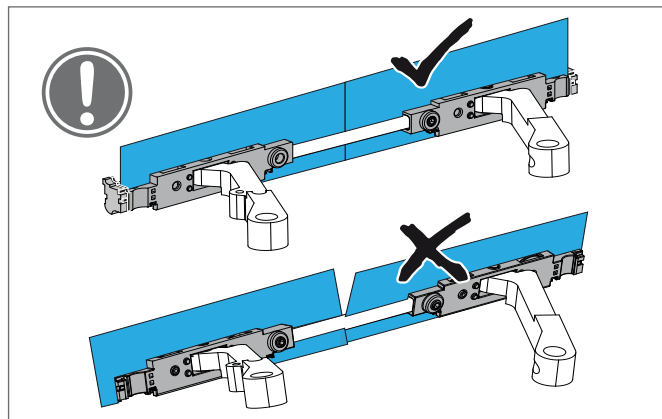
Insert connecting rod into the front bogie wheels M (4.) and fix with head cap screw (5.). Torque max. 11 Nm.



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

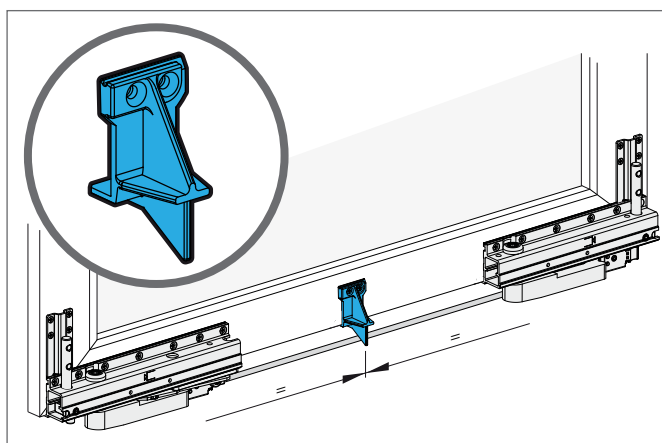


The bogie wheels housing must be standing parallel in the closed position.

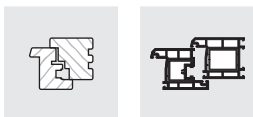


After the fixation of the connecting rod, the bogie wheels housing must align with each other.

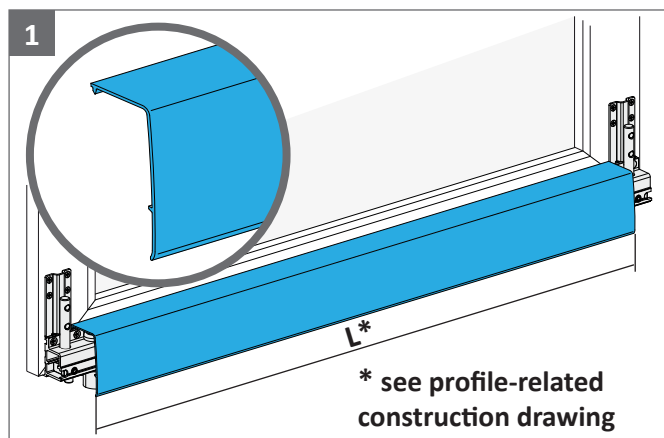
#### 4.5 Installing supporting piece L



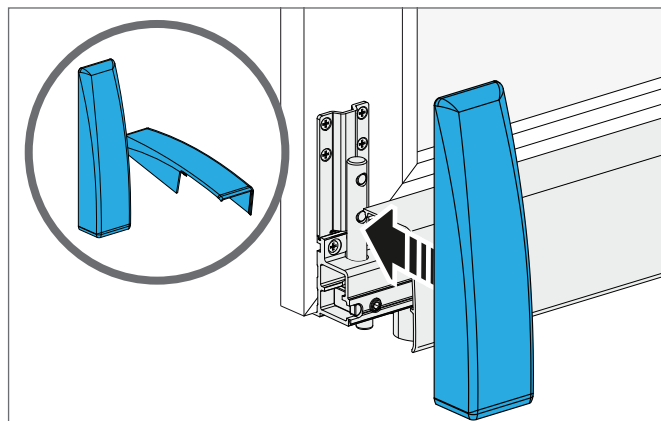
Position supporting piece L for cover rail L centrally and screw into place



#### 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.

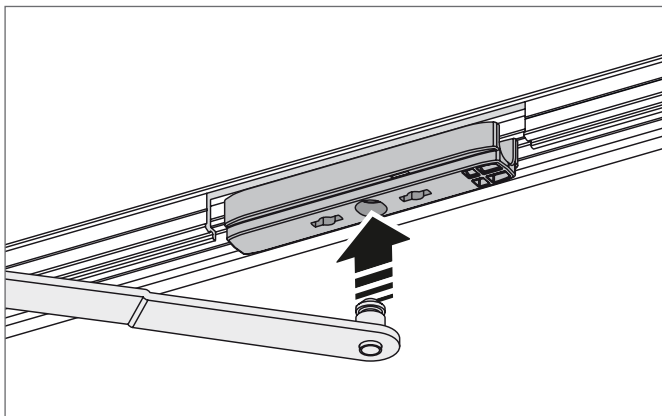
#### 4.7 Inserting the sliding sash

##### ⚠ DANGER

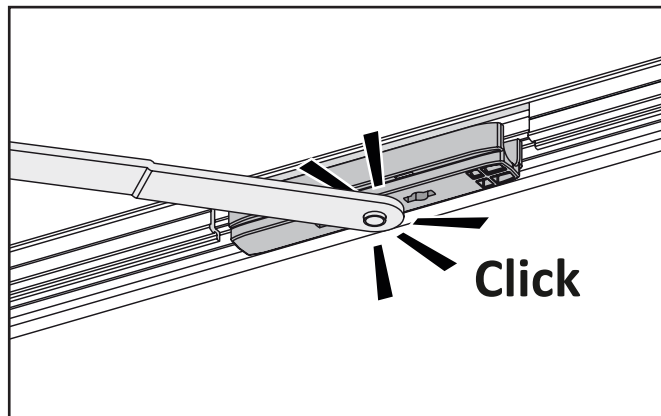
##### Danger to life due to sliding sash falling out

Stay arm has not engaged.

- Confirm that the coupling bolt is secure by pulling on the stay arm.



Place stay arms of tilt stay into tilt position. Place the sash diagonally onto the running rail and snap the coupling bolt of the stay arm into the slider.



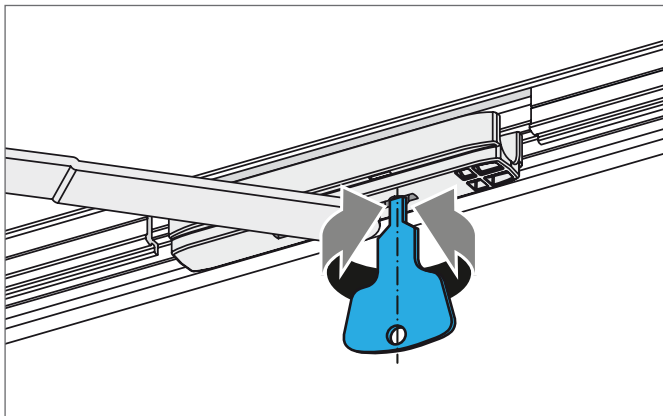
Snap in stay arm of tilt stay into slider.



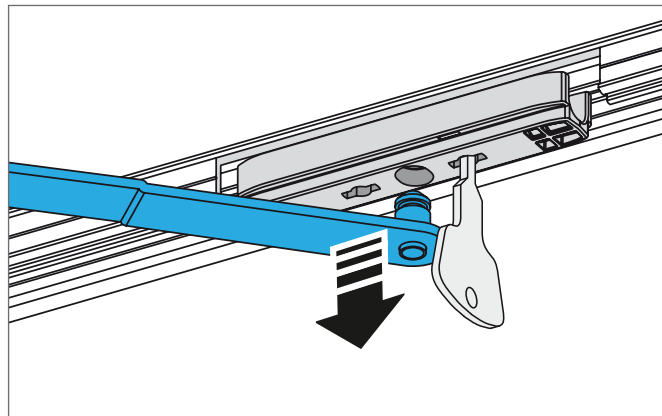
#### 4.8 Removing the sliding sash



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



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



Lift off the stay arm of the tilt stay.

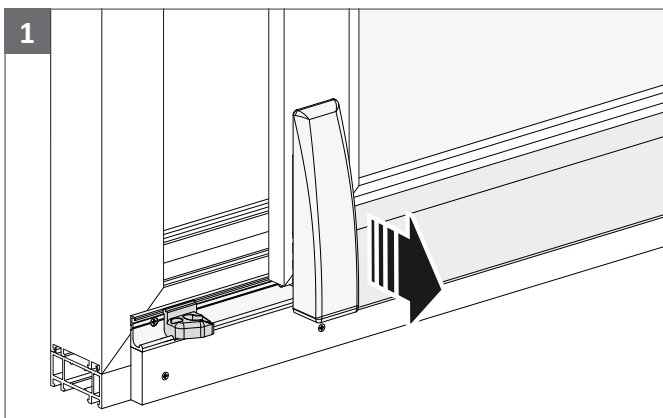
#### 4.9 Installing the bogie wheels safeguard

##### ⚠ DANGER

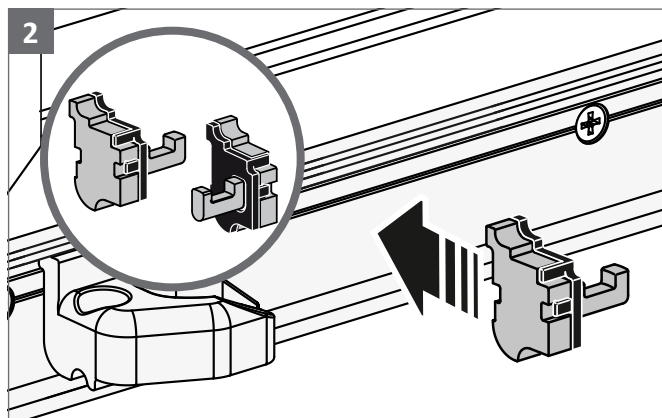
**Danger to life due to sliding sash falling out**

Not mounted bogie wheels safeguard.

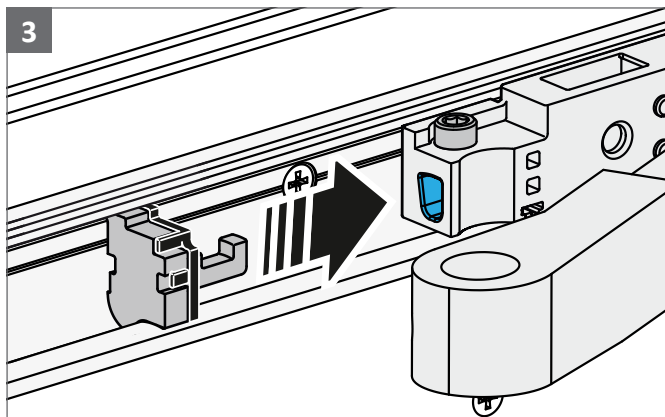
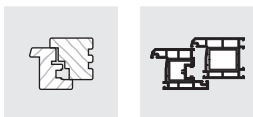
- The bogie wheels safeguard must be correctly installed in both bogie wheels of a sliding sash.



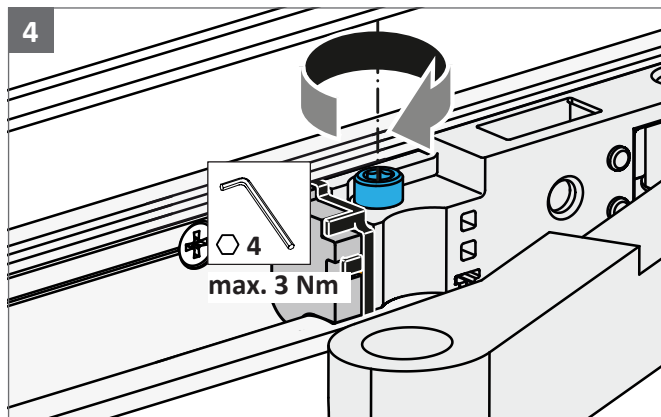
The bogie wheels safeguard can only be installed in a parallel positioned sash.



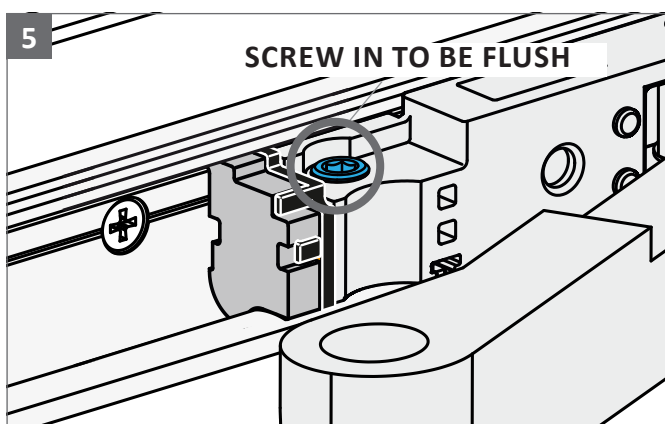
Position the relevant version (right or left) of the bogie wheels safeguard in the running rail.



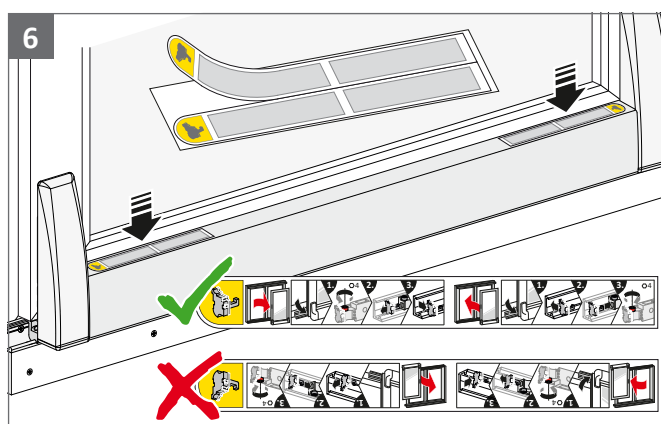
Push safeguard into bogie wheels V and H.



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.

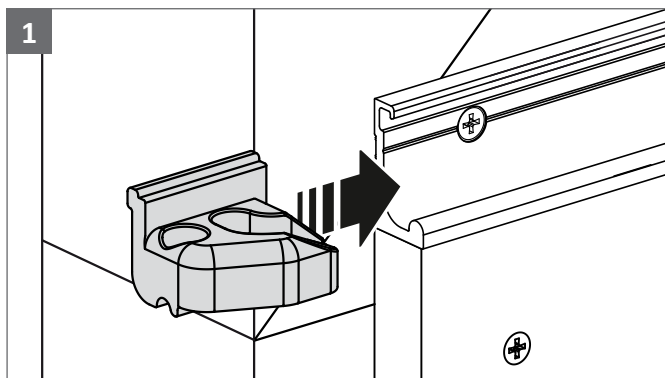


Adhere the notes sticker to the protective foil of the cover rail L. Pay attention to correct orientation of the sticker.

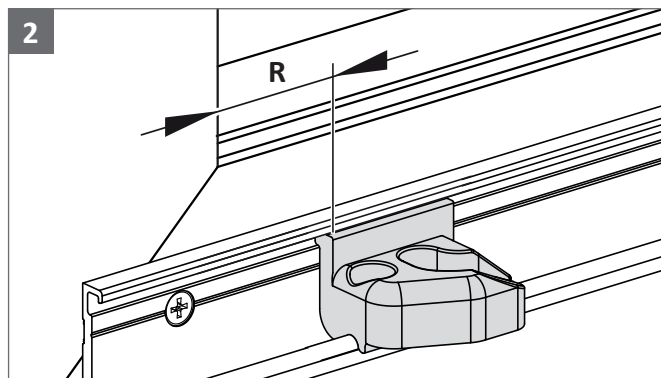
## 4.10 Removing the bogie wheels safeguard

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

## 4.11 Positioning the trigger

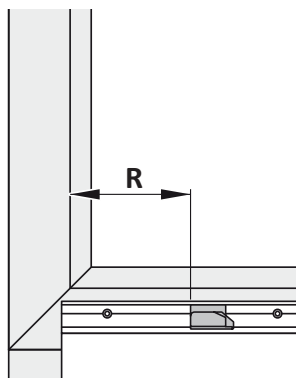
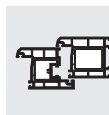


Slide the trigger sideways into the running rail.



Position the trigger according to the profile.

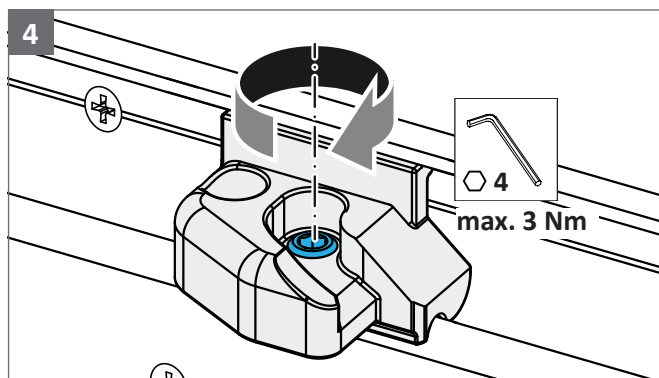




Rebate width	R
18	16
19	15
20	14
21	13
22	12

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

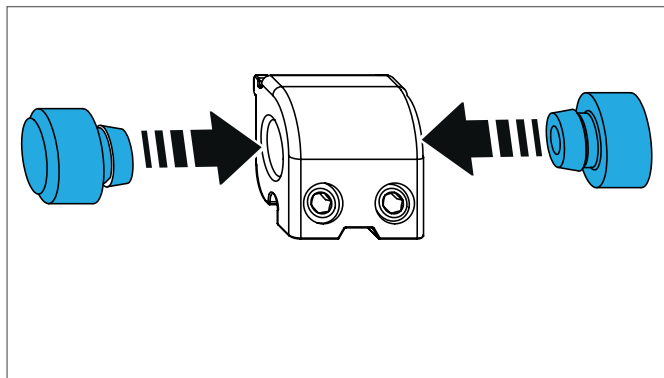
If the position of bogie wheels V is changed, the position of the trigger must be adapted accordingly.



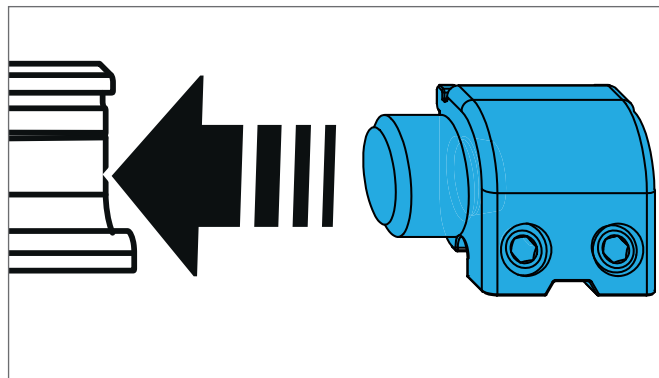
Fix trigger position with head cap screw.

Torque max. 3 Nm.

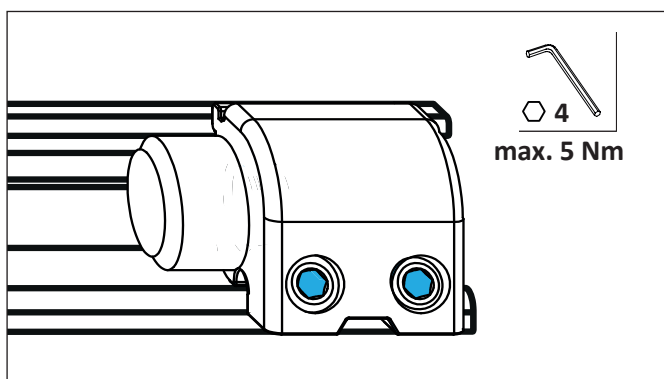
#### 4.12 Positioning the stop



Assemble the stop according to the required DIN direction.

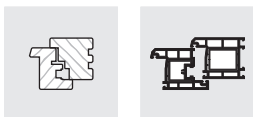


Slide the stop sideways into the running rail.



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



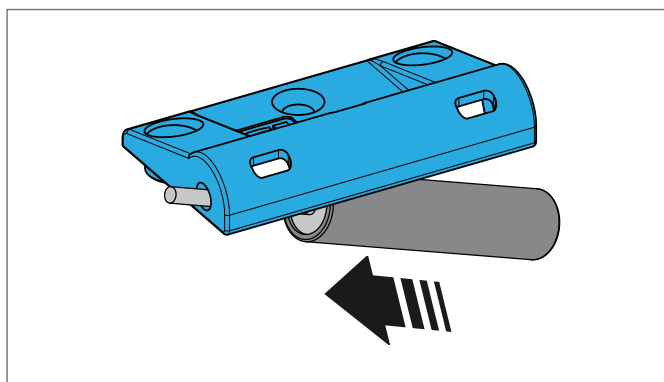
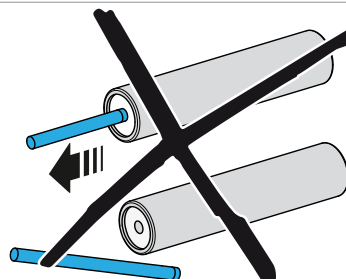


### 4.13 Tipping brake

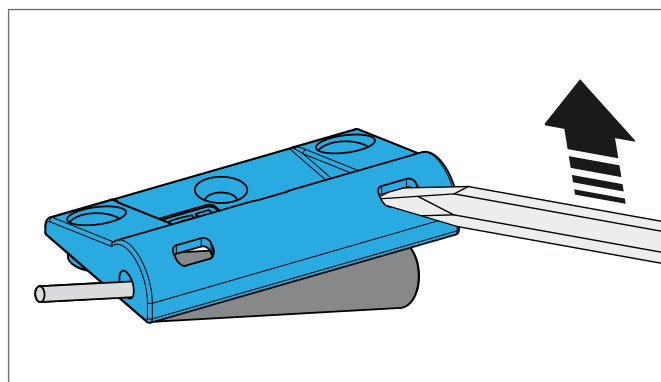
Install the tipping brake with the tilt stay closed before you install the sliding sash in the frame.



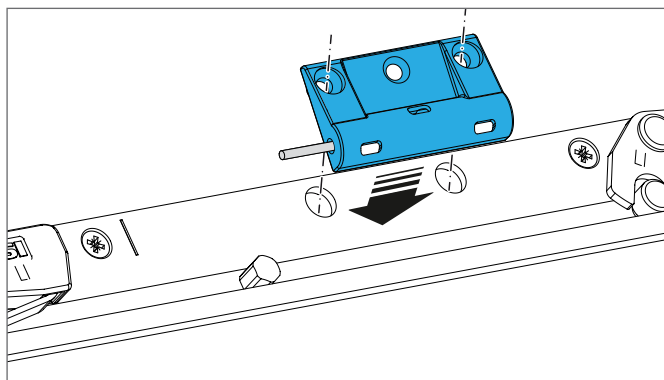
If the brake is disassembled, the function can no longer be guaranteed.



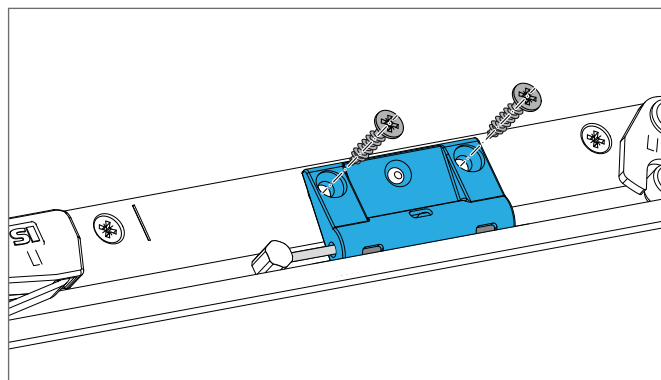
Assemble the tipping brake according to the required version of the DIN direction right/left.



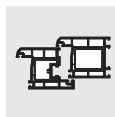
Only dismantle the tilt brake using a slotted screwdriver.



Position the tipping brake on the tilt stay.



Screw the tipping brake firmly into place.



## 4.14 Stop buffer

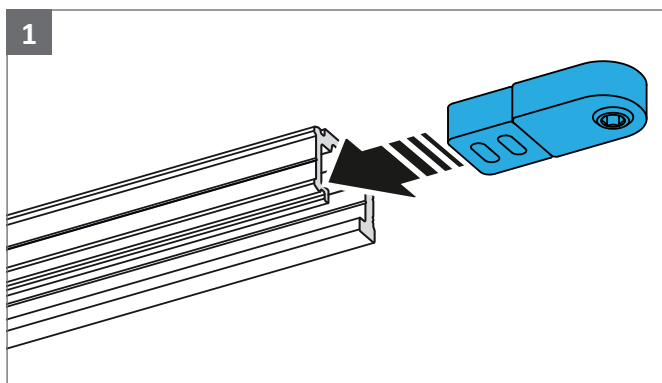
### 4.14.1 For buffering when opening the sash

#### ⚠ DANGER

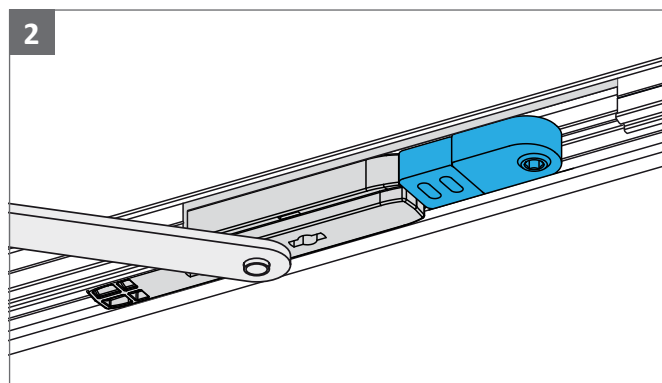
**Danger to life due to sliding sash falling out**

Not mounted connecting rod slider.

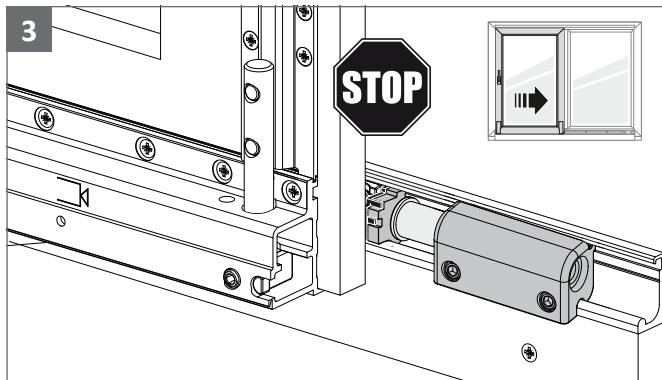
- The stop buffer may only be used when the connecting rod slider has been mounted.



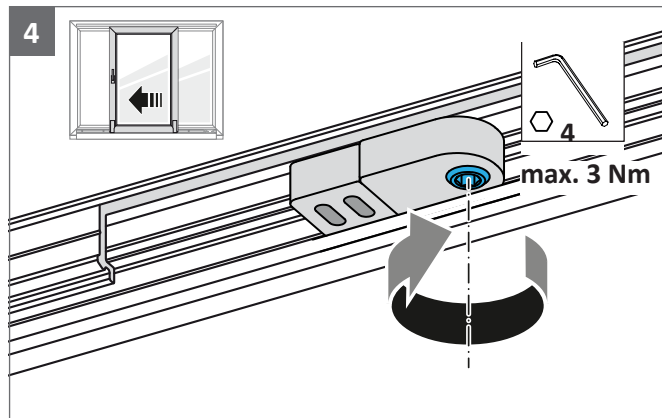
Insert stop buffer into the guiding rail.



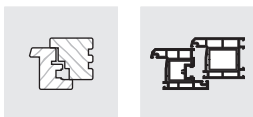
Push the stop buffer as far as the PSK comfort slider.



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.



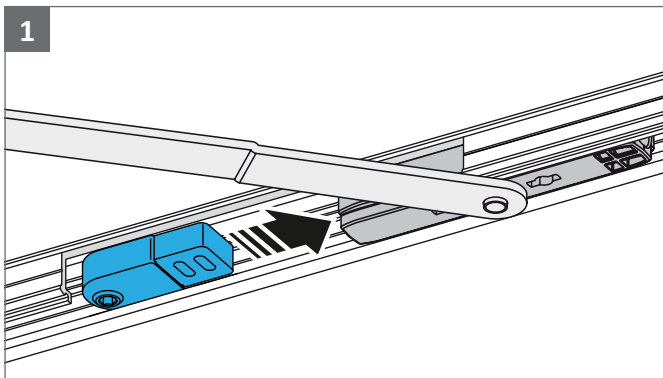
#### 4.14.2 As trigger for pivoting the sash

##### **⚠ DANGER**

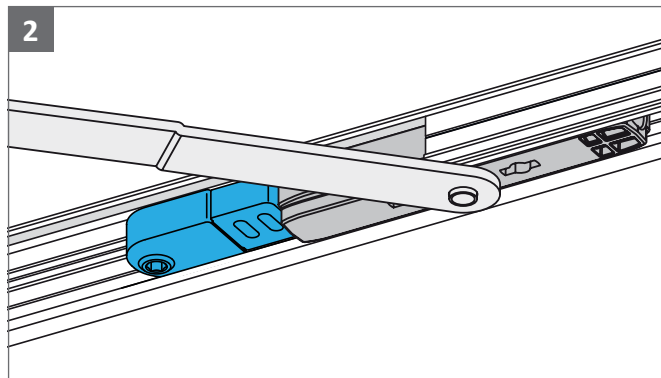
**Danger to life due to sliding sash falling out**

Not mounted connecting rod slider.

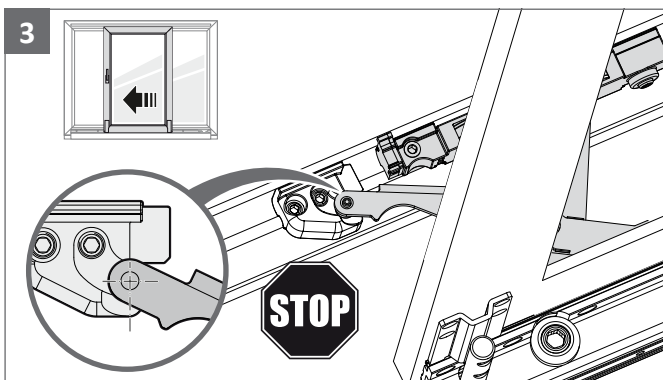
- The stop buffer may only be used when the connecting rod slider has been mounted.



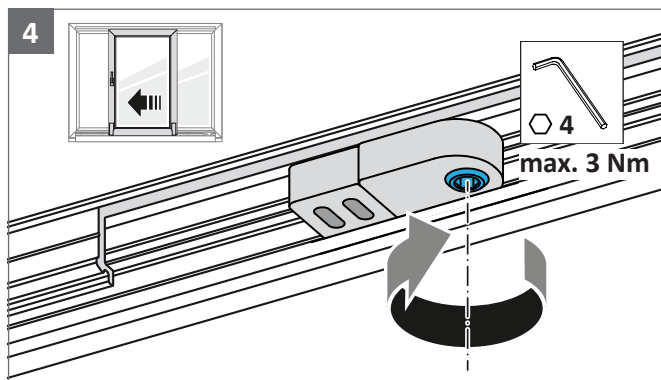
Insert stop buffer into the guiding rail.



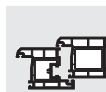
Push the stop buffer as far as the PSK comfort slider.



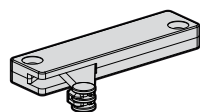
Push the sliding element into the locking position and stop before the bogie wheels collide with the stop.



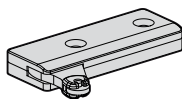
Close the sliding element again. Now fix the stop buffer with a hexagon screw. Max. torque 3 Nm.



## 4.15 Slam-shut brake

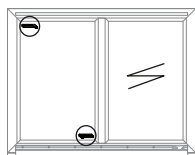


Version  
for timber elements

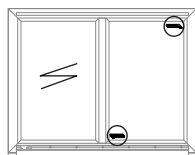


Version  
for PVC elements

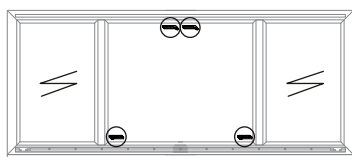
Scheme A  
left



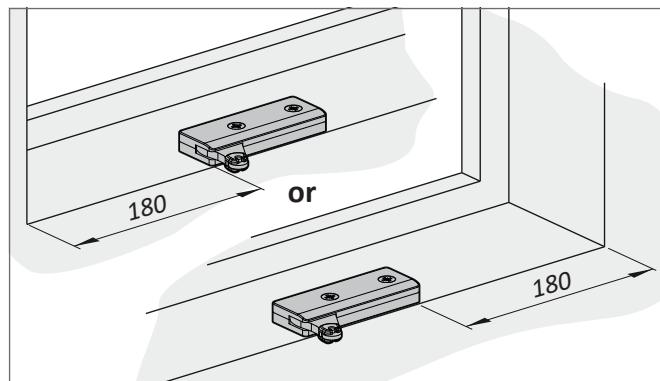
Scheme A  
right



Scheme C

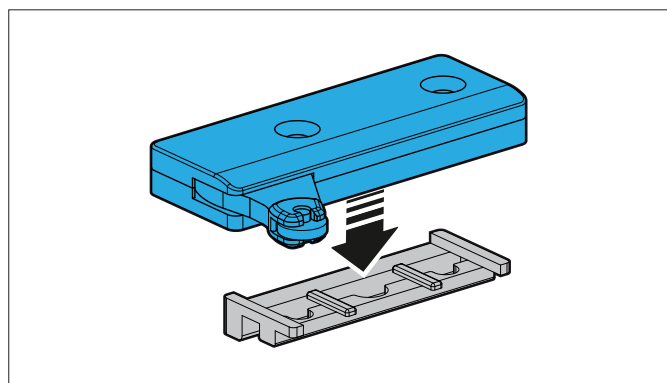


Positioning point for the slam-shut brake on the frame.



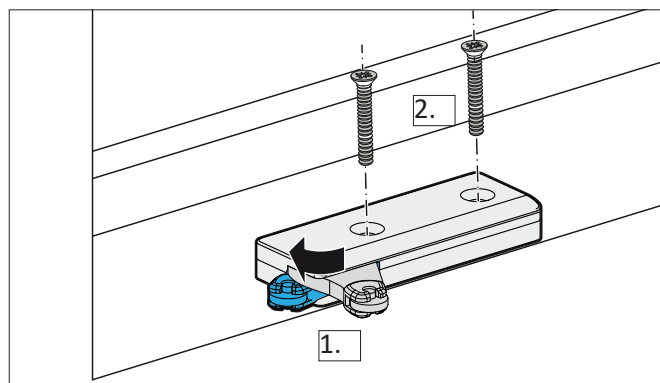
Position 180 mm from the sash rebate corner.

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.

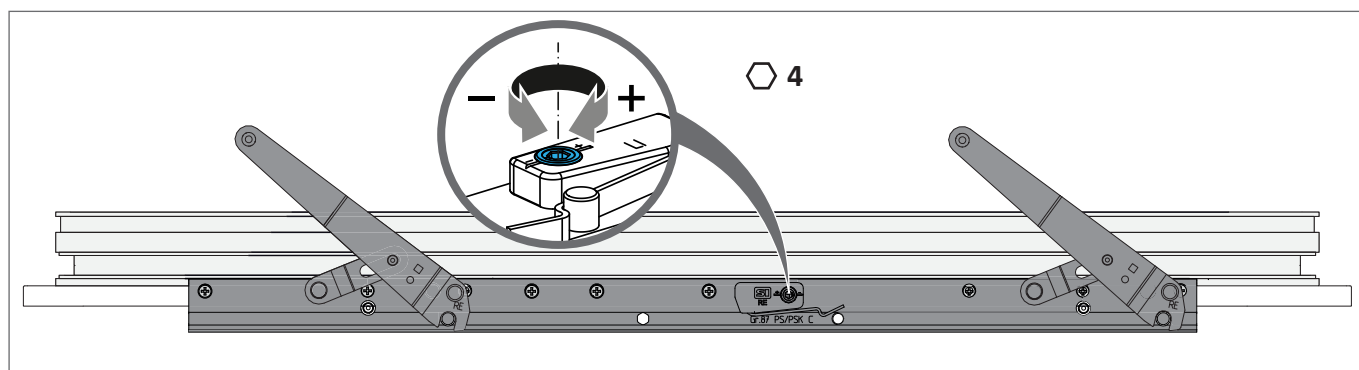


1. Press back the brake lever in order to guarantee space for the lever path.

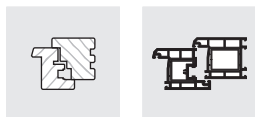
2. Position slam-shut brake and screw firmly into place.

## 5 Adjustment

### 5.1 Adjustment of the tilt stay



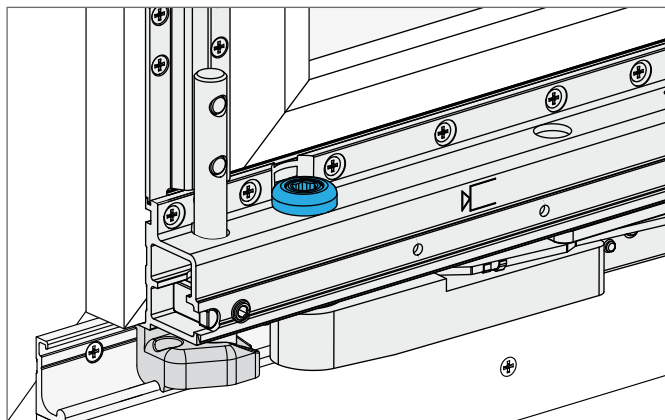
Adjust the engaging function of the tilt stay with Allen key SW 4: stronger (+), weaker (-).



## 5.2 Height adjustment of the bogie wheels

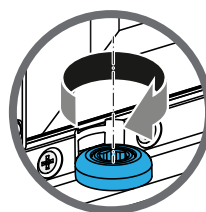
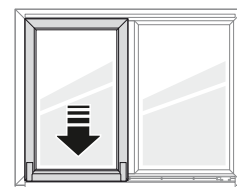
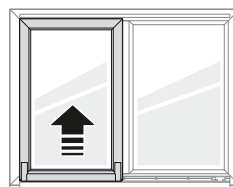


A regulation of the elevating adjustment can be undertaken following the installation of the element in the object.

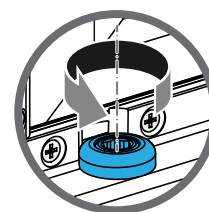


Height adjustment on the bogie wheels with Allen key SW 8.

Default setting in minimum position (0 mm)



8

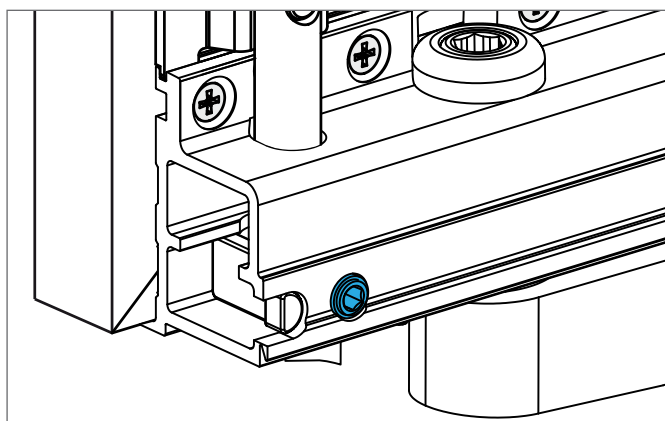


The maximum adjustment range must not be exceeded.

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.

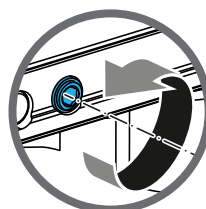
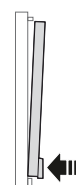
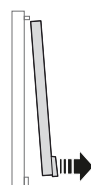


Tilt adjustment on the bogie wheels with Allen key SW 4.

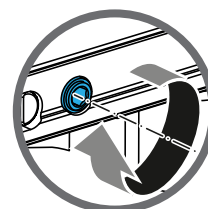
Default setting in minimum position (0 mm).



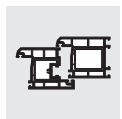
Carry out adjustment following installation of the element in the object. Always adjust both bogie wheels.



4



Adjustment path max. 2 turns from the minimum position.

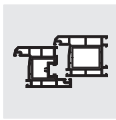
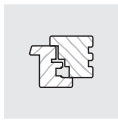


## 6 Profile sections

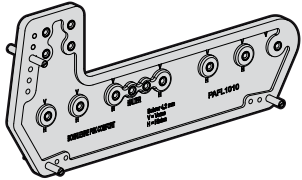
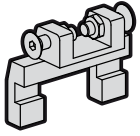
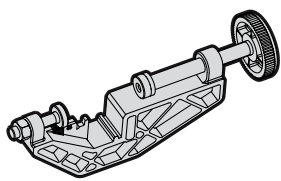
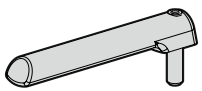
### 6.1 SI construction drawings

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

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