# ASSEMBLY INSTRUCTIONS TIMBER / PVC



# PORTAL

**PSK 200-Z comfort** 

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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# PSK 200-Z comfort General notes

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#### 1 General notes

#### 1.1 Preliminary remarks

These assembly instructions are applicable for timber and PVC profiles. Even if solely PVC profiles are shown in the following assembly steps, the procedures described applies equally to timber profiles.

#### 1.2 Target group of this documentation

This documentation is addressed exclusively to specialist companies. 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 assembly instructions in a safe place.

#### 1.3 Intended use

- The PSK 200-Z comfort parallel slide & tilt hardware is intended for use in windows or patio doors with timber or PVC profiles.
- The sash weight is max. 200 kg.
- The PSK 200-Z comfort is intended for use in permanent buildings.
- The PSK 200-Z comfort 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.

#### 1.4 Improper use

- The hardware components described in these assembly instructions are manufactured from steel, zinc plated and then treated with a special process.
- They are not suitable for use:
  - in wet rooms
  - in environments with aggressive, corrosive air
  - in environments with saline air
- Please contact your SIEGENIA sales consultant in such cases

#### 1.5 Safety notes

- MaintenancemustbecarriedoutonthePSK200-Zcomfort at least once a year.
  - See PORTAL maintenance instructions.
- Furthermore, for the PSK 200-Z comfort, 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 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 functional disorders and 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.
- All hardware components must be properly assembled as per the description on pages "Assembly" PSK hardware components and "Adjustment".
- PSK 200-Z comfort elements may only be surface treated before the hardware components are assembled. Subsequent surface treatment can limit the functioning capability 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 corrosion in the hardware components.
- Never use acidic lubricants and cleaning agents in the vicinity of the guiding rail/the slider.
- Keep the track of 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.

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# PSK 200-Z comfort General notes





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 We recommend cleaning the surfaces with a mild, pH neutral detergent solution in warm water. This will remove most contamination. After cleaning, always rinse the surface of the PVC profile with clear water.

# 1.6 Guidelines of the German Association of Quality for Locks and Hardware (in German Richtlinien der Gütegemeinschaft Schlösser und Beschläge e. V.)

You will find everything worth knowing about the proper use and maintenance of hardware for windows and patio doors in the "Guidelines of the German Association of Quality for Locks and Hardware (in German Richtlinien der Gütegemeinschaft Schlösser und Beschläge e. V.)

We prescribe the mandatory observation of these guidelines.

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

VHBH – Hardware for windows and patio doors Specifications and notes for end users

## 1.7 Help and support

You will find further information on adjustment or processing possibilities under the following QR code.



The QR code sticker can also be found on components of the PSK element. Especially on the inside of the bogie wheels cover caps.

#### 1.8 Dimensions

All specified dimensions are nominal dimensions and include the general tolerances (formerly "free size tolerances"). All nominal dimensions are defined in mm.



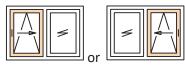


# PSK 200-Z comfort General notes

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#### 1.9 Scheme overview

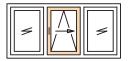
#### Scheme A



DIN LH DIN RH

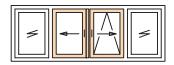
Scheme A with 1 sliding sash/1 fixed sash\*

#### Scheme G



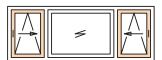
Scheme G with 1 sliding sash/2 fixed sashes\*

#### scheme C



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

#### Scheme K

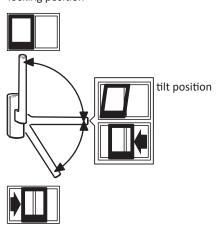


Scheme K with 2 sliding sashes/1 fixed sash\*

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

## 1.10 Operating sequence:

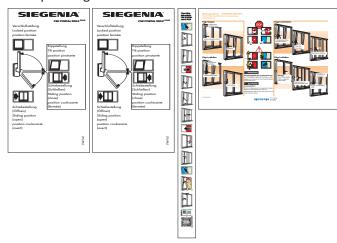
locking position



## 1.11 Operating sticker

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

The operating sticker is enclosed in the carton



#### **ATTENTION:**

primary and secondary sashes must be labelled accordingly to prevent mishandling.

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.

# PSK 200-Z comfort Fabrication guidelines





# 2 Fabrication guidelines

## 2.1 Size ranges

Scheme version		А	С	
Sash rebate width (FFB)	Sliding sash	740 - 2000	740 - 2000	
Sash rebate height (FFH)	Sliding sash	1000 - 2360	1000 - 2360	
Frame to sash clearance		12	25	
6 1	with 2 bogie wheels	max. 1	160 kg	
Sash weight	with 4 bogie wheels	max. 2	200 kg	

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

- SIEGENIA-Construction drawings PVC profiles:
  - PSK 200-Z 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 200-Z 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:

FB	sash width
FFB	sash rebate width
FH	sash height
FFH	sash rebate height
G	handle position
Н	rear
L	bogie wheels
М	centre
MV	central lock
OKFF	upper edge finished floor
PZ	profile cylinder

RAH	frame height
RFB	frame rebate width
S-ES	steel-reinforced security
S-RS	steel-roller increased security
SW	wrench size
V	front
VS	locking side
VSO	locking side, top
VSU	locking side, bottom
ZV	central locking gear:

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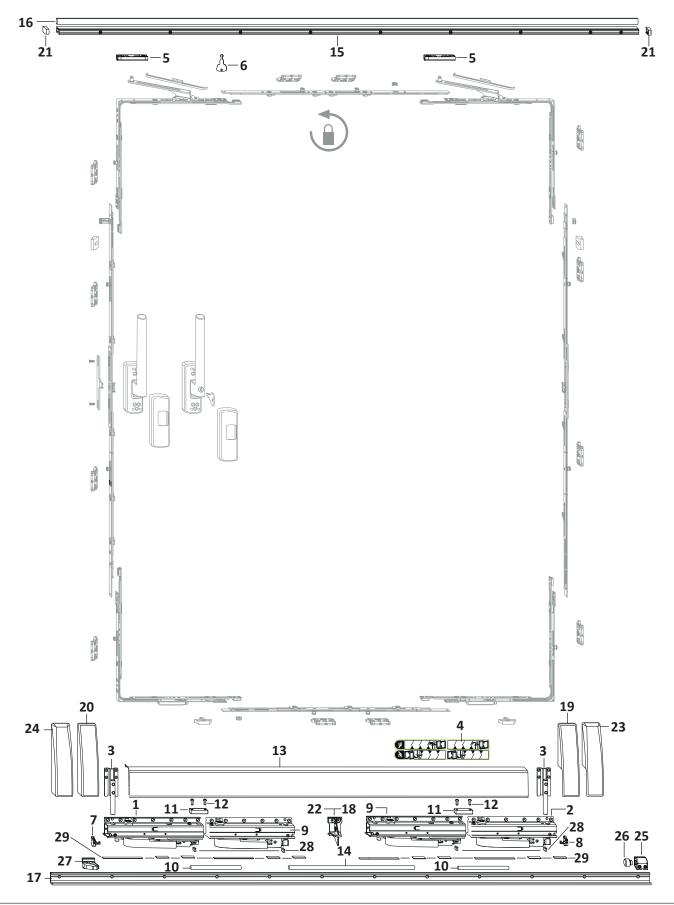
# PSK 200-Z comfort Overview of PSK hardware components

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# **3** Overview of PSK hardware components

# 3.1 Hardware diagram PSK scheme A



# PSK 200-Z comfort Overview of PSK hardware components





# 3.2 PSK hardware list scheme A and C

	pie	ce						Material nu	mber		
tem	sche	eme	Ma	terial description		Basis		add-o	ons for colou	r	
	Α	С					silver	RAL 9003	RAL 8022	F9	old gold
	1	2	PSK comfort	consisting of:	RH LH			PMKJ1031-1 PMKJ1032-1	_		
1	1	2	bogie wheels PSK CO	MFORT V	front						
2	1	2	bogie wheels PSK CO	MFORT H	rear						
3	2	4	vertical supporting pa	art PSK COMFORT							
4	1	2	sticker PSK bogie whe	eels safeguards							
5	2	4	slider PSK COMFORT								
6	1	2	PORTAL key								
7	1	2	bogie wheels safegua	ards	front						
8	1	2	bogie wheels safegua	ards	rear						
	2	4	PSK comfort M necessary for sliding s	sash > 160 kg	RH LH			PLWL1031-1 PLWL1032-1	_		
9	2	4	bogie wheels PSK CO	MFORT M	centre						
10	1	2	connecting rod Ø10 x	145							
11	2	4	connecting piece PSK	comfort M							
12	4	8	Pan-head screw M 6	x 16							
lepe	nding	g on s	sash rebate width (FFB	3)							
	1	2	Profile set PSK COMF	Size <sup>1)</sup> 87/200 107/240 130/286 160/346 200/426	FFB 740- 870 871-1070 1071-1300 1301-1600 1601-2000	PMPJ1100 PMPJ1110 PMPJ1120 PMPJ1130 PMPJ1140	-52501_	-50201_	-51201_	-5H401_	-5H001_
13	1	2	cover rail L	'							
14	1	2	connecting rod L								
15	1	2	guiding rail								
16	1	2	cover rail F								
17	1	2	running rail								
18	0-2	0-4	Supporting piece L								
or co	mfo	rt sty	le version								
	1	2	Bag cover cap set PSI	K COMFORT Style		PMAJ2050	-02501_	-00201_	-01201_	-0H401_	-0H001_
19	1	2	cover cap L Style		RH						
20	1	2	cover cap L Style		LH						
21	2	4	cover cap F								
22	1-2	2-4	Supporting piece L if additionally required	carton w	vith 100 piece			PZLJ1010-0	9906_		
or co	mfo	rt Sol	ft version								
	1	2	Bag cover cap set PSI	K COMFORT Soft		PMAJ1050	-02501_	-00201_	-01201_	-0H401_	-0H001_
23	1	2	cover cap L Soft	alternative to item 19	RH						
24	1	2	cover cap L Soft	alternative to item 20	LH						
	2	4	cover cap F			1					





# PSK 200-Z comfort **Overview of PSK hardware components**

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	pie	ece					Material nu	ımber			
Item	sche	eme	Material description		Basis		add-o	ons for colour			
	Α	С				silver	RAL 9003	RAL 8022	F9	old gold	
		Bag of accessories running rail PSK comfort		Basis		add-o	ons for colour				
					Si-silver powder-coated VE 1: -02501_		Si-silver powder-coated VE 10: -02502_				
					RH	PMZJ2051	Si-silver optic VE 1: -10001_		Si-silver optic VE 10: -10002_		
	1					black VE 1: -09901_		black VE 10: -09902_			
				PMZJ2052	Si-silver powder-coated VE 1: -02501_		Si-silver powder-coated VE 10: -02502_		ted VE 10:		
			LH		Si-silver optic VE 1: -10001_		Si-silver optic VE 10: -10002_				
					black \ -0990			black VE 10 -09902_	):		
25	1	2	stop								
26	1	2	stop core								
27	1	2	trigger								
22	1-2	2-4	Supporting piece L if additionally required carton v	vith 100 piece			PZLJ1010-0	9906_			

#### Accessories

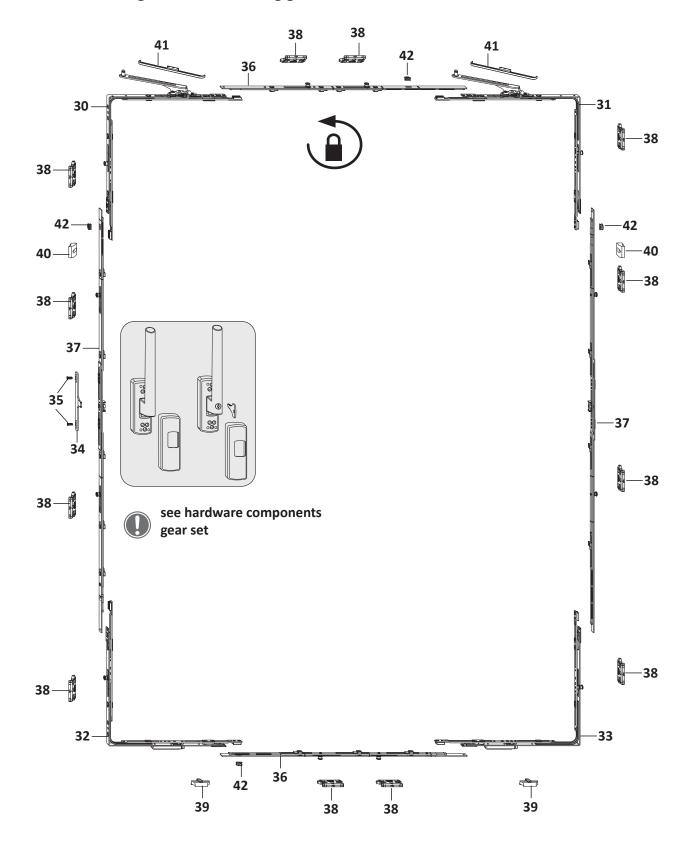
Acces	330110	-3									
28	1	2	Sealing brush set 13 mm			PZUJ0030-00001_					
			Distance plate set LW			1 mm	2 mm	3 mm	4 mm	8 mm	
29	2	4	for support of the bogie	consisting of:		PMZJ1060	PMZJ1070	PMZJ1080	PMZJ1090	PMZJ1100	
			wheels			-00001_	-00001_	-00001_	-00001_	-00001_	
	4	8	Distance plate 120 x 11			Plate height dep	ending on pr	ofile; see pro	oduct catalog	gue or cons-	
	8	16	Distance plate 28 x 11			truction drawing	for determin	nation			





# 4 Overview of hardware components central locking gear

# 4.1 Hardware diagram central locking gear scheme A







# PSK 200-Z comfort PSK 200-Z comfort Overview of hardware components central locking gear

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# 4.2 Hardware list central locking gear scheme A

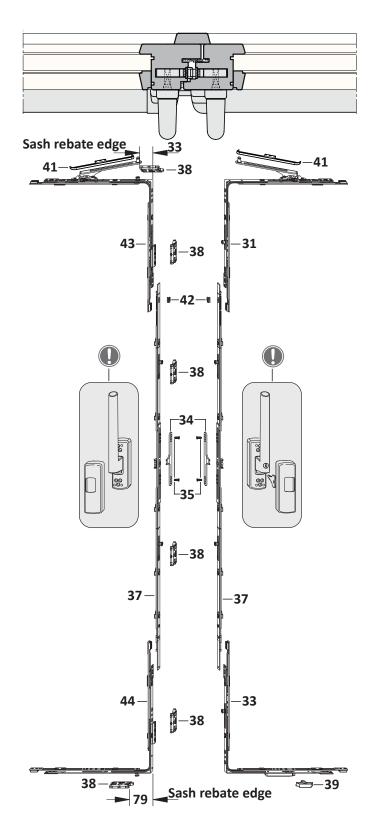
	piece			Material number							
tem	scheme	Material d	escription			Basis		add	l-ons for co	our	
	Α					silver RAL 9003 RAL 8022				F9	old gold
	4	Corner drive PSK 200-Z 9NA S-RS comfort mushroom locking cam			RH LH			PMEL1021 PMEL1022	_		
	1	Corner drive PSK 200-Z 13 NA S-RS			RH			PMEL1011	_		
20	4	comfort mushroom locking cam		DI	LH			PMEL1012	2-10001_		
30	1	corner drive VSO			H/LH						
31 32	1	corner drive BSO corner drive VSU			H/LH						
-					H/LH						
33	1	corner drive BSU			H/LH						
34	1	coupling bracket			L102 18						
	1	coupling bracket			101 18/2						
35	2	countersunk screw		M 5 x	10 PZD						
dep	ending o	n sash rebate width (FFB)									
36	2	Linkage S-RS comfort mushroom locking cam	Size 79 100 123 146 169 169/2 192 215		FFB 770- 790 791-1000 1001-1230 1231-1460 1461-1690 1461-1690 1691-1920 1921-2000			PZKL0460 PZKL0270 PZKL0280 PZKL0290 PZKL0300 PZKL0310 PZKL0320 PZKL0330	-10001_ -10001_ -10001_ -10001_ -10001_ -10001_		
dep	ending o	n sash rebate height (FFH)			ı	ı					
37	2	Gear OS S-RS comfort mushroom locking cam	Size 123 146 169 192 215 238	Handle position 490 590 690 990 990	FFH 1001-1230 1231-1460 1461-1690 1691-1920 1921-2150 1511-2360			7133 PGKL0130 PGKL0140 PGKL0150 PGKL0160	0-10003_ 0-10001_ 0-10001_ 0-10001_		
dep	ending o	n profile system			`						
38	4	Striker plate S-RS for comfort mushroom locking cam					S	see profile o	data sheet		
	1	Bag of frame parts PSK 200-Z					S	see profile o	data sheet		
39	2	Locking piece PSK-Z									
40	2	Distance piece									
Acc	essories										
41	02	Cover cap S				PKAL1010	-02401	-00201	-01201	-0H401	-0H001
34	1	coupling bracket see product catalogue for determinati	ion		15 18 18/2 18/3 WK2	717240 643.2146.0003X60 720585 PGZL0050-10001_ PGZL0040-10001					
w/o fig.	0/1	Linkage	size 23 (wit	hout cam)				PZKL0390			
42	0/4	Retaining clamp						7025	543		



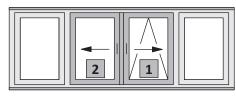


## 4.3 Hardware diagram central locking gear scheme C

#### 4.3.1 Variant 1



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<sup>\*</sup> frame part is dependent on profile system

# see hardware components gear set

	Bac	kset
Profile system	1	2
Timber	45	40
PVC	40	40

The primary and secondary sash must be marked accordingly for the prevention of misuse. The sliding sash may only be operated in the defined sequence!

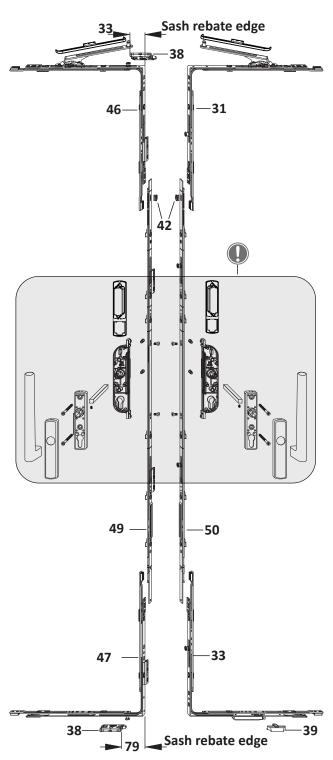
#### Opening:

primary sash first 1 , then secondary sash

#### Closing:

secondary sash first 2, then primary sash 1

## 4.3.2 Variant 2





# PSK 200-Z comfort Overview of hardware components central locking gear





# 4.4 Hardware list central locking gear scheme C

#### 4.4.1 Variant 1

	piece		Material number							
tem	scheme	Material description						add-ons for cold		
	С						silver	RAL 9003 RAL 8022	F9	old gold
	1	Corner drive PSK 200-Z 9NA S-RS comfort mushroom locking cam			RH LH			PMEL1021-10001_ PMEL1022-10001_		
	1	Corner drive PSK 200-Z 13 NA S-RS		RH			PMEL1011-10001_			
		comfort mushroom locking cam		1	LH			PMEL1012-10001_		
30	1	corner drive VSO			RH/LH					
31	1	corner drive BSO			RH/LH					
32	1	corner drive VSU			RH/LH					
33	1	corner drive BSU			RH/LH					
34	1	coupling bracket			18 or 18/2					
35	2	countersunk screw		1	M 5 x 10 PZD					
		Corner drive PSK 200-Z 9NA S-RS s	cheme C		RH			PMEL1061-10001_		
	1	comfort mushroom locking cam  Corner drive PSK 200-Z 13 NA S-RS scheme C			LH			PMEL1062-10001_		
	-				RH			PMEL1051-10001_		
		comfort mushroom locking cam		T.	LH			PMEL1052-10001_		
43	1	corner drive VSO scheme C			RH/LH					
31	1	corner drive BSO			RH/LH					
44	1	corner drive VSU scheme C			RH/LH					
33	1	corner drive BSU			RH/LH					
34	1	coupling bracket			18 or 18/2					
35	2	countersunk screw			M 5 x 10 PZD					
depe	nding on s	sash rebate width (FFB)								
			Size		FFB					
			79		740- 790			PZKL0460-10001_		
			100		791-1000			PZKL0270-10001_		
		Linkage S-RS	123		1001-1230			PZKL0280-10001_		
36	4	(comfort mushroom locking cam)	146		1231-1460			PZKL0290-10001_		
			169		1461-1690			PZKL0300-10001_		
			169/2 192		1461-1690			PZKL0310-10001_		
			215		1691-1920 1921-2000			PZKL0320-10001_ PZKL0330-10001		
			213		1921-2000			PZKL0350-10001_		
dep	ending or	n sash rebate height (FFH)		I						
			Size	Handle	FFH					
			123	position	1001-1230			742202		
			146	490	1231-1460			713303		
37	4	Gear OS S-RS	169	590	1461-1690			PGKL0130-10003_		
		(comfort mushroom locking cam)	192	690	1691-1920			PGKL0140-10001_		
			215	990	1921-2150			PGKL0150-10001_		
			238	990 990	2151-2360			PGKL0160-10001_ PGKL0170-10001_		
don	anding o	nrofile system		330						
		<u> </u>								
38	8	for comfort mushroom locking cam						see profile data sheet		
Ī		n profile system  Striker plate S-RS  for comfort mushroom locking com						see profile data sheet		

38	8	Striker plate S-RS for comfort mushroom locking cam	see profile data sheet
	2	Bag of frame parts PSK 200-Z	see profile data sheet
39	4	Locking piece PSK-Z	
40	4	Distance piece	

#### Accessories

41	04	Cover cap S			PKAL1010	-02401_	-00201_	-01201_	-0H401_	-0H001_			
				15		717240							
				18		643.2146.0003X60							
34	2	coupling bracket		18/2		720585							
				18/3	PGZL0050-10001_								
				WK2			PGZL0040	-10001_					
w/o fig.	0/2	Linkage	size 23 (	without cam)	cam) PZKL0390-100010								
42	0/8	Retaining clamp					7025	43					





# PSK 200-Z comfort Overview of hardware components central locking gear

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#### 4.4.2 Variant 2

0/2

Linkage

**Retaining clamp** 

tem	piece scheme	Material de	escription			Basis			l-ons for co		
	С						silver	RAL 9003	RAL 8022	F9	old gold
	4	Corner drive PSK 200-Z 9NA S-RS comfort mushroom locking cam			RH LH			PMEL102:			
	1	Corner drive PSK 200-Z 13 NA S-RS			RH			PMEL101	1-10001_		
		comfort mushroom locking cam			LH			PMEL101	2-10001_		
30	1	corner drive VSO			RH/LH						
31	1	corner drive BSO			RH/LH						
32	1	corner drive VSU			RH/LH						
33	1	corner drive BSU			RH/LH						
34	1	coupling bracket			18 or 18/2						
35	2	countersunk screw		1	M 5 x 10 PZD						
	1	Corner drive PSK 200-Z 9NA S-RS schoomfort mushroom locking cam	eme C		RH LH			PMEL106	_		
	1	Corner drive PSK 200-Z 13 NA S-RS so comfort mushroom locking cam	heme C		RH LH			PMEL105	_		
46	1	corner drive VSO scheme C			RH/LH			<u> </u>	<u> </u>		<u> </u>
31	1	corner drive BSO			RH/LH						
47	1	corner drive VSU scheme C			RH/LH						
33	1	corner drive BSU			RH/LH						
34	1	coupling bracket			18 or 18/2						
35	2	countersunk screw		1	M 5 x 10 PZD						
epei	nding on	sash rebate width (FFB)									
36	4	Linkage S-RS comfort mushroom locking cam	1 1 1 1 1 16	ize 79 00 23 46 69 19/2 92	FFB 740- 790 791-1000 1001-1230 1231-1460 1461-1690 1461-1690 1691-1920 1921-2000		PZKL0460-10001_ PZKL0270-10001_ PZKL0280-10001_ PZKL0290-10001_ PZKL0300-10001_ PZKL0310-10001_ PZKL0330-10001_ PZKL0330-10001				
epe	nding on	sash rebate height (FFH)									
45	3	Linkage S-RS comfort mushroom locking cam	Size 169/2 192 215 238	Handle position 690 990 990	FFH 1461-1690 1691-1920 1921-2150 2151-2360			PZKL0310 PZKL0320 PZKL0330 PZKL0340	)-10001_ )-10001_		
49	1	Linkage S-RS with preassembled striker plates	169/2 192 215 238	690 990 990 990	1461-1690 1691-1920 1921-2150 2151-2360			PZKL0350 PZKL0360 PZKL0370 PZKL0380	0-10001_ 0-10001_ 0-10001_		
epe	nding on	profile system									
38	8	Striker plate S-RS for comfort mushroom locking cam						see profile	data sheet		
	2	Bag of frame parts PSK 200-Z						see profile	data sheet	-	
39	4	Locking piece PSK-Z									
40	4	Distance piece									
		Distance piece									
	sories								1		
41	04	Cover cap S				PKAL1010	-02401_	-00201_	-01201_	-0H401	0H001
34	2	coupling bracket			15 15 18/2 18/3 WK2		717240 643.2146.0003X60 720585 PGZL0050-10001_ PGZL0040-10001				

size 23 (without cam)

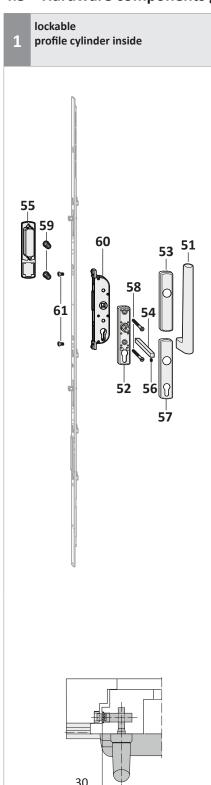
PZKL0390-100010

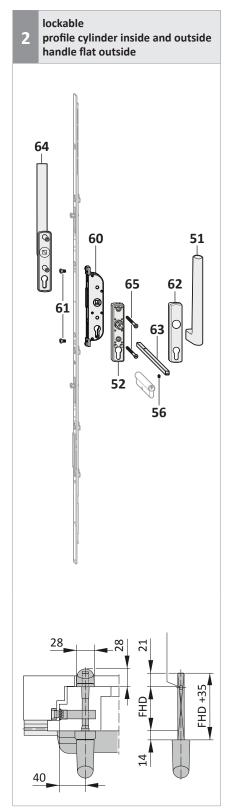
702543

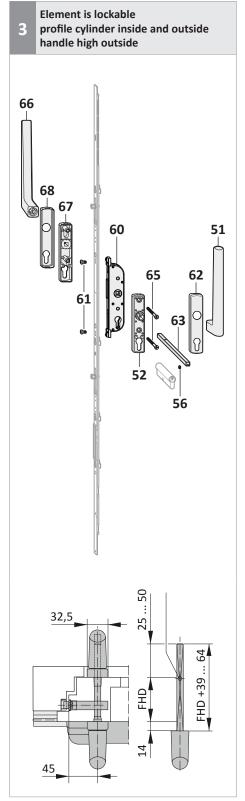




# 4.5 Hardware components gear set











# PSK 200-Z comfort Overview of hardware components central locking gear

**PORTAL PSK** 

# Hardware list gear set

					Material n	umber			pie	ece
Item	Material description	piece per	Basis		add	ons for co	lour		sche	eme
		V L		silver	RAL 9003	RAL 8022	F9	old gold	Α	С

#### Element is lockable with a profile cylinder inside

	Carton handle Si-line HSK		PMHC0010-	52401_	-50201_	-51201_	-5H401_	-	1	2
46	Handle	1								
47	rose	1								
48	Cover cap	1								
49	Square	1								
50	Sliding grip	1								
51	Grub screw M 6	1								
52	Cover cap Si-line HS 300 PZ		PKHB0040	-52401_	-50201_	-51201_	-5H401_	-	1	2
53	Countersunk screw M 5 x 45				86332	29			2	4
54	Sleeve nut M 5				8002	87			2	4
	Gear set PSK 200-Z		Backset							
55	Gear box 1		40 mm			716342			4	2
56	Screw M 5 x 10	2	45 mm			716359			1	2

# Element is lockable with a profile cylinder inside and outside (handle flat outside)

	Carton handle Si-line HSK/PSK 2	00-Z PZ inside		PMHC0020	-52401_	-50201_	-51201_	-5H401_	-	1	2
51	Handle		1								
52	rose		1								
57	Cover cap PZ		1								
58	Square □10 x 168		1								
56	Grub screw M 6		1								
59	Handle Si-line PSK 200-Z PZ outs	ndle Si-line PSK 200-Z PZ outside flat			-52401_	-50201_	-51201_	-5H401_	-	1	2
60	Countersunk screw M5	for sash	thicknesses								
	countersunk screw M5 x 65		55-64		ŀ	(DNA0080-	-10001_				
	countersunk screw M5 x 75		65-74		H	(DNA0100-	-10001_			2	4
	countersunk screw M5 x 85		75-84		KDNA0120-10001_						
	Gear set PSK 200-Z			Backset							
60	Gear box		1	40 mm		716342					2
61	Screw M 5 x 10		2	45 mm			716359			1	2

#### Element is lockable with a profile cylinder inside and outside (handle high outside)

		cap PZ cap PZ cap Ind x 168 crew M 6 handle Si-line PORTAL HS 300 PZ outside  cap PZ cresunk screw M5 cresunk screw M5 x 65 cresunk screw M5 x 75 cresunk screw M5 x 85 cet PSK 200-Z ox									
	Carton handle Si-line HSK/PSK 2	00-Z PZ inside		PMHC0020	-52401_	-50201_	-51201_	-5H401_	-	1	2
51	Handle		1								
52	rose		1								
62	Cover cap PZ		1								
63	Square □10 x 168		1								
56	Grub screw M 6		1								
	Carton handle Si-line PORTAL HS		РМНВ0040	-52401_	-50201_	-51201_	-5H401_	-	1	2	
61	Handle										
62	rose										
63	Cover cap PZ										
65	Countersunk screw M5	for	sash thicknesses								
	countersunk screw M5 x 65 countersunk screw M5 x 75 countersunk screw M5 x 85		55-64 65-74 75-84		KDNA0080-10001_ KDNA0100-10001_ KDNA0120-10001					2	4
	Gear set PSK 200-Z			Backset							
60	Gear box		1	40 mm			716342			1	2
61	Screw M 5 x 10	r set PSK 200-Z					716359			1	

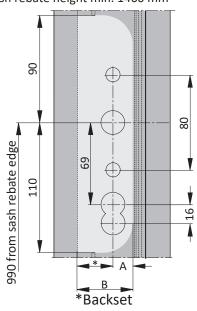
# **PSK 200-Z comfort** Overview of hardware components central locking gear

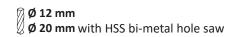


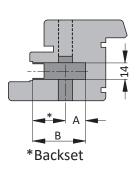


#### 4.7 Milling groove gear box

Sash rebate height min. 1460 mm







Di	imensions f	or gear	
	Backset	А	В
PZ-30	30	16	46
PZ-40	40	16	56
PZ-45	45	16	61
PZ-50	50	16	66

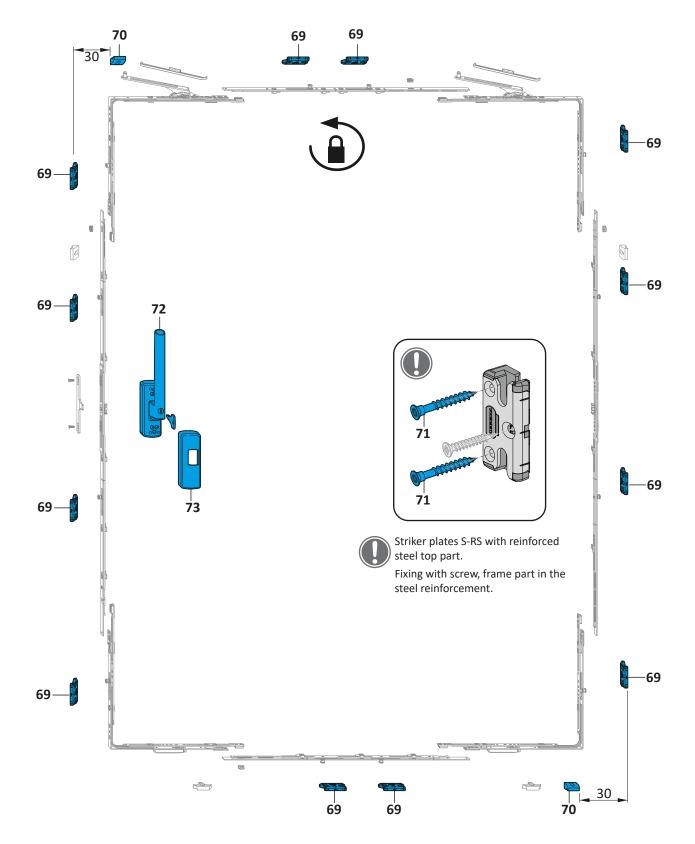
# PSK 200-Z comfort Burglar resistance RC2

PORTAL

PSK

# 5 Burglar resistance RC2

# 5.1 Hardware diagram RC2 central locking gear scheme A





# PSK 200-Z comfort **Burglar resistance RC2**





# 5.2 Hardware list RC2 for central locking gear scheme A

	piece	Matarial description		Material number								
Item	scheme	Material description	Basis		add	ons for co	lour					
	Α			silver	RAL 9003	RAL 8022	F9	old gold				

# depending on profile system

64	4	Striker plate S-RS with reinforced steel top part for comfort mushroom locking cam			S	ee profile (	data sheet			
65	2	Distance piece PSK		see profile data sheet						
66	2	Screw for frame part 5x40 (for PVC elements)	Carton with 500 piece	RS040-B0T00						
	2	Screw for frame part 4x50 (for timber elements)	Carton with 500 piece			SASSZ	1016			
	4	Handle PSK 200-Z/GH Si-line lockable	RH	PHIL0041	-52401_	-50201_	-51201_	-5H401_	-5H001_	
	1	consisting of:	LH	PHIL0042 -52401 -50201 -51201 -5H401 -5H00			-5H001_			
67	1	Handle PSK 200-Z/GH Si-line lockable	RH/LH							
68	1	Cover cap	RH/LH							



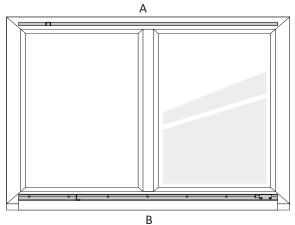
# PSK 200-Z comfort Assembly of hardware components

**PORTAL** 

**PSK** 

# 6 Assembly of hardware components

# 6.1 Installation of the running rail and guiding rail



	D
Α	guiding rail
В	running rail

#### **A** DANGER

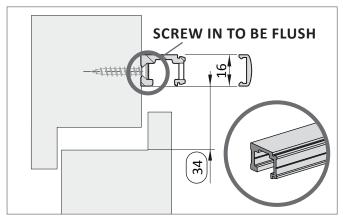
Danger to life due to sliding sashes falling out.

Wrong position of the guiding and running rail.

Adhere to the positioning dimensions.



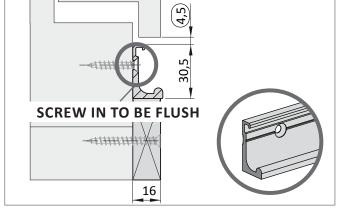
The construction drawing related to the profile must be observed for correct assembly of the guiding and running rail.



Position the guiding rail.

Observe the construction drawing related to the profile.

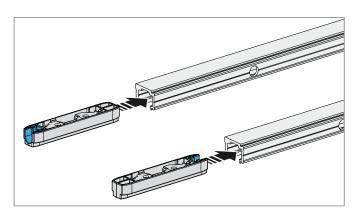
The screws must be screwed to be flush with the running rail. A projection is not permissible.

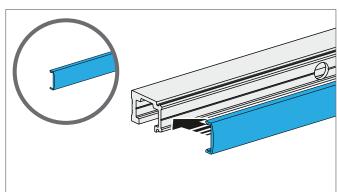


Position the running rail. Observe the construction drawing related to the profile.

Attach load-bearing, end-to-end running rail support when assembling the hardware.

The screws must be screwed to be flush with the running rail. A projection is not permissible.



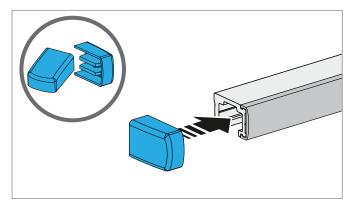


# PSK 200-Z comfort Assembly of hardware components





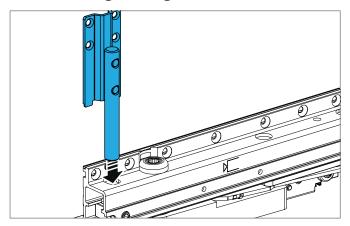
Push both sliders into the guiding rail.



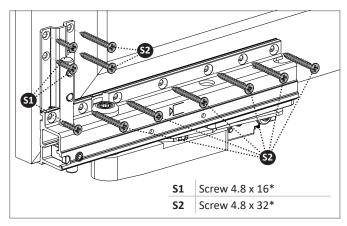
Attach a cover cap F to each end of the guiding rail.

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

# 6.2 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

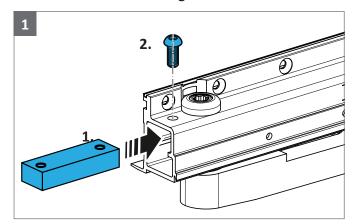




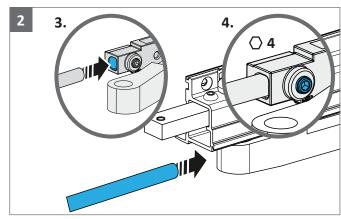
# **PSK 200-Z comfort Assembly of hardware components**

**PORTAL PSK** 

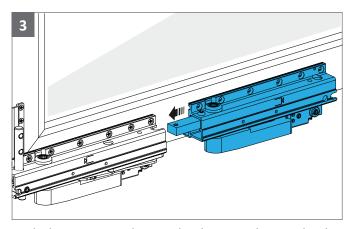
#### 6.2.1 Installation of the bogie wheels M



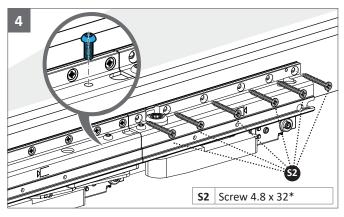
Push the connecting piece into bogie wheels M (1.) and fix with pan-head screw (2.).



Insert connecting rod M into bogie wheels M (3.) and fix with head cap screw (4.). Torque 10-11 Nm.



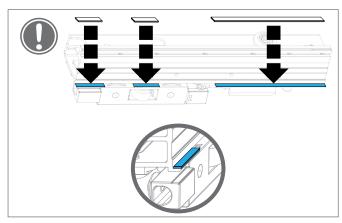
Push the respective bogie wheels M into bogie wheels V and H.



Fix bogie wheels M to bogie wheels V and H with panhead screw.

Screw bogie wheels M tightly onto sliding sash.

\*Screw length dependent on profile

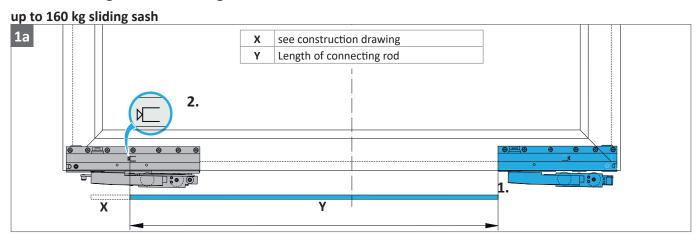


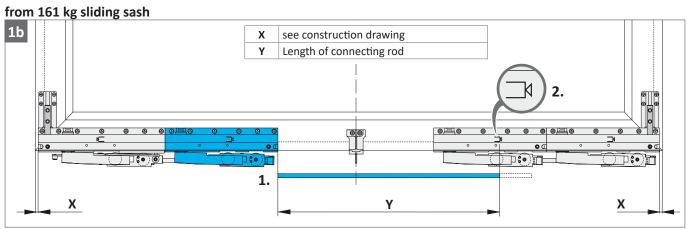
According to the profile system, the optional distance plates must be used.



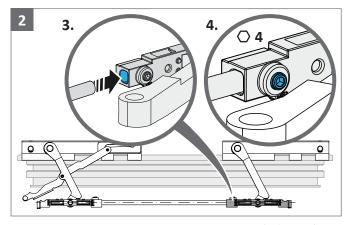


## 6.3 Installing the connecting rod

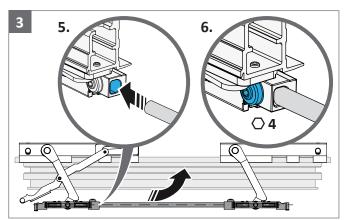




Place connecting rod on the H bogie wheels (1.). Transfer the crop indication on the cropping mark of bogie wheels V, to the connecting rod (2.) and crop the connecting rod.



Insert connecting rod into H bogie wheels (3.) and fix with head cap screw (4.). Torque 10-11 Nm.

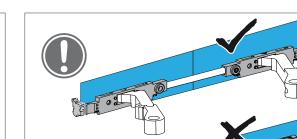


Insert connecting rod into bogie wheels (5.). Bring the bogie wheels housing with connecting rod into the closed position. Now fix the connecting rod with a head cap screw (6.). Torque 10-11 Nm.





# PSK 200-Z comfort Assembly of hardware components

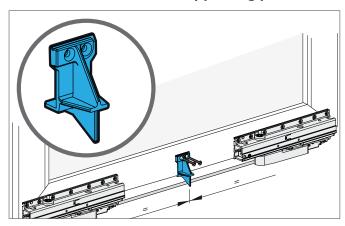


The hogie wheels housing must be standing parallel in

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

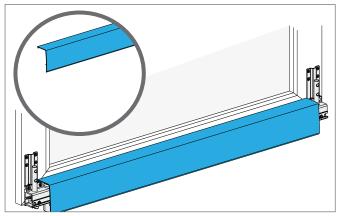
After the fixation of the connecting rod, the bogie wheels housing must align with each other.

## 6.4 Installation of the supporting piece L

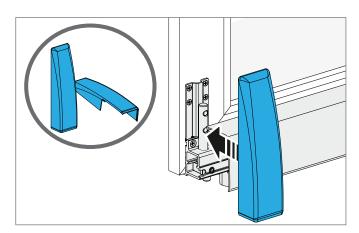


Position supporting piece L for cover rail L centrally and screw into place with 4.8 x 35 screws

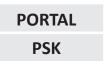
# 6.5 Mounting the bogie wheels cover



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



Attach the cover caps L to the respective bogie wheels.



# PSK 200-Z comfort **Profile sections**





#### 7 **Profile sections**

# 7.1 SI construction drawings

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

You can obtain SI construction drawings from your field sales representative on request.

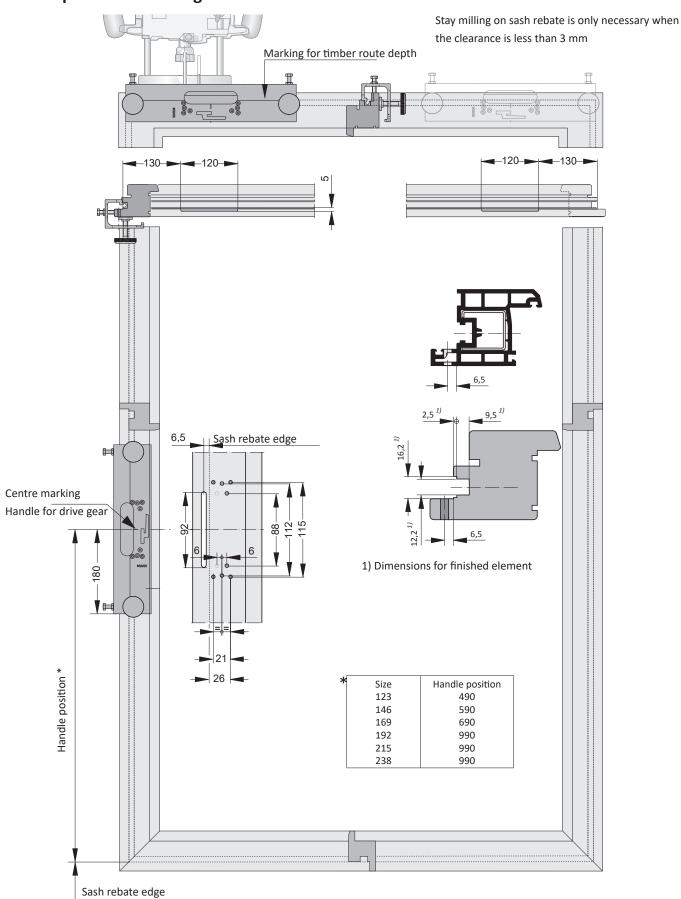


# PSK 200-Z comfort Preparation of sliding sash

**PORTAL** 

**PSK** 

# 8 Preparation of sliding sash

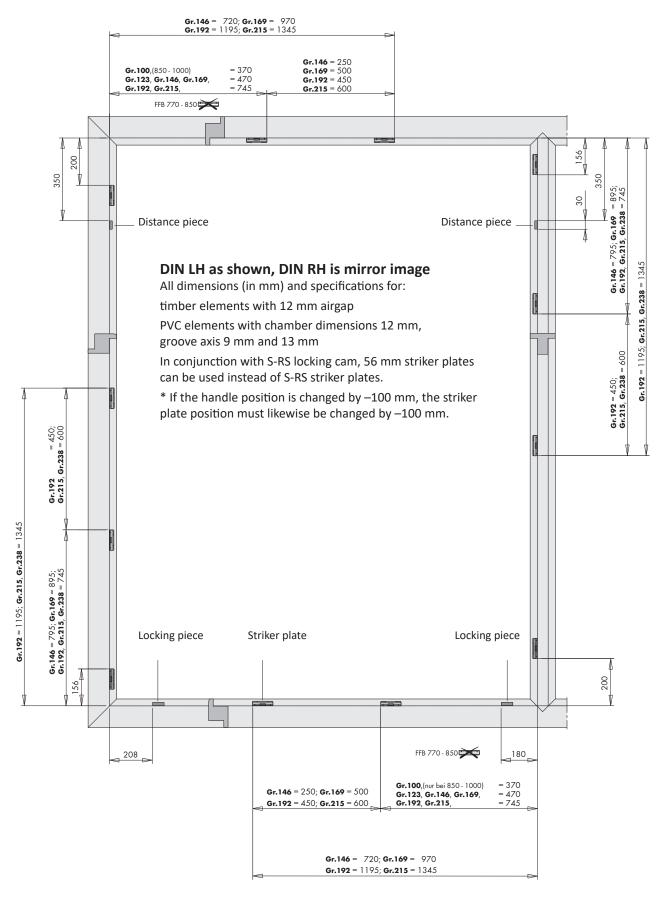


# PSK 200-Z comfort Frame part positions





# 9 Frame part positions



07.2023

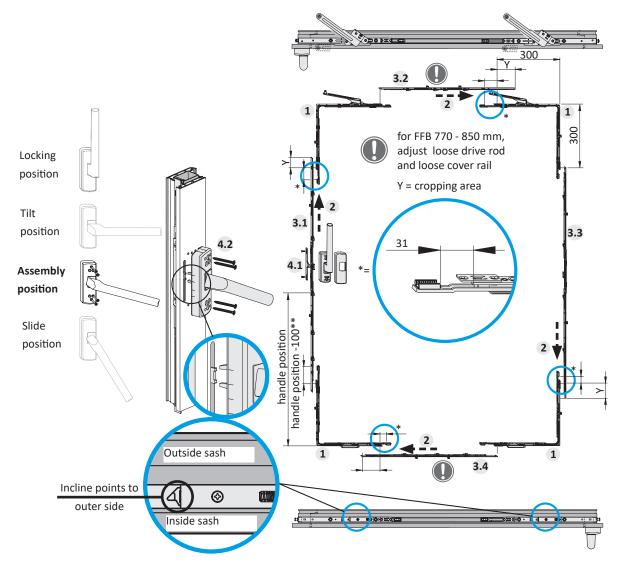


# PSK 200-Z comfort Installation of central locking gear

**PORTAL** 

**PSK** 

# 10 Installation of central locking gear



- If the handle position is changed by –100 mm, the striker plate position must likewise be changed by –100 mm.

  \*\*\* The size range of the gear OS is also reduced by -100 mm.
- Insert corner drives VSU, BSU, VSO and BSO correctly into the eurogroove and screw into place. Release seal in the area of the stay arm.
- Push each drive rod of the corner drives into the respective installation position, as far as stop (refer to - ►)
- Insert the OS gear and the linkages in the eurogroove, mark, crop at one side and install in this sequence:
  begin with the OS gear (3.1) and couple the top linkage (3.2) in such a way that the stay arms of VSO and BSO tighten in parallel. On the stays, observe the marking on the cover rail (see figure). Then insert gear OS (3.3) and linkage (3.4) transversally at the bottom and screw into place.
  - 4.1: engage the coupling bracket with the cam on the OS gear and screw in place with M5 x 10 countersunk screws
- 4.2: insert the PSK 200-Z/GH Si-line handle into the installation position (see figure) and screw into place with 4 screws 5x50. Place PSK 200-Z/GH Si-line handle in the locking position in order to shear the fixation of the long components.

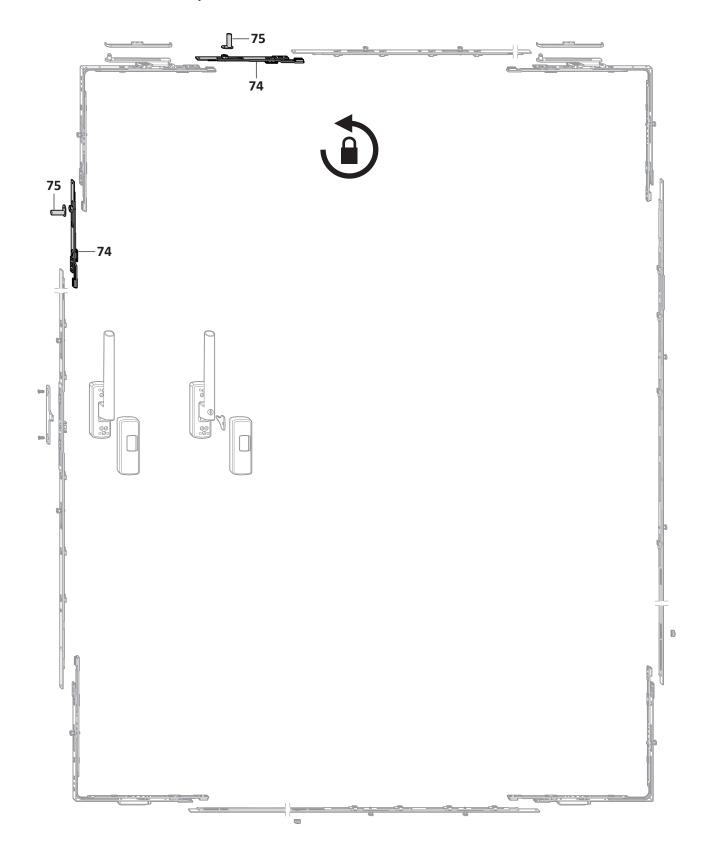
Attach the PSK 200-Z/GH Si-line cover caps to the stay arms.





# 11 Locking monitoring system UMS

# 11.1 Possible installation positions



07.2023



# PSK 200-Z comfort Locking monitoring system UMS

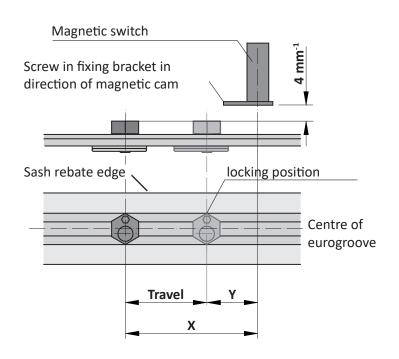
PORTAL PSK

## 11.2 Hardware components locking monitoring system

Item	Material description	Material number	pie sche	
			Α	С
69	Linkage UE sz.23 MV	716519	1	2
70	Magnetic switch UMS	see product range AEROCONTROL	1	2

# 11.3 Assembly of locking monitoring system

## 11.3.1Positioning the magnetic switch and magnetic cam



Hardware travel for calculating offset in turning position

#### Offset X = travel + Y

Magnetic switch distance in locking position

position			
Magnetic switch	Dimension Y		
UMS001	11 mm ± 1		
UMS002	11 mm ± 1		
UMS003	11 mm + 2		
Hardware range	Travel		
FAVORIT	16 mm		
TAVORT	10 111111		
TITAN iP	18 mm		

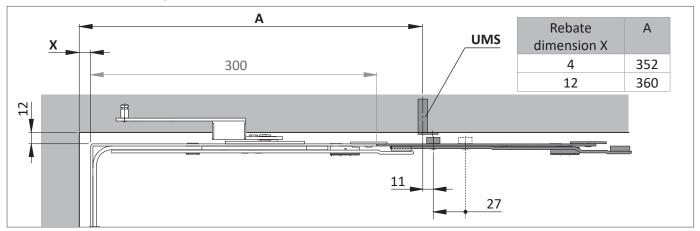
# **PSK 200-Z comfort Locking monitoring system UMS**





## 11.3.2 Assembly position – Magnetic switch types UMS:

## for FFB 1000 - 2000 top horizontal installation

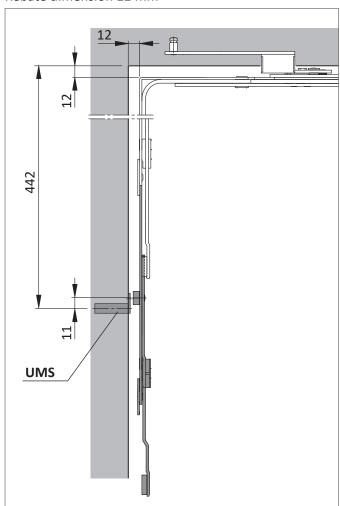


- 1. Release assembly fixation on linkage UE.
- 3. Couple linkage UE with the corner drive.

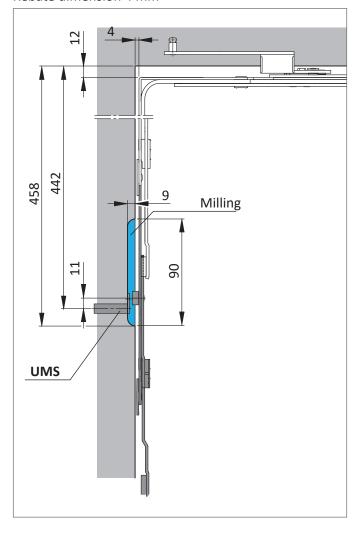
2. Slide magnet bolt 27 mm.

# for FFB 770 - 1000 - vertical installation on the locking side

Rebate dimension 12 mm



#### Rebate dimension 4 mm





# PSK 200-Z comfort Completion of element

# 12 Completion of element

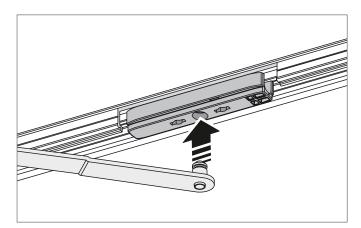
## 12.1 Inserting the sliding sash into the frame

- Switch handle into sliding position. Position the window sash on the running rail at an incline and snap the coupling bolt of the stay arms into the slider.
- Check that all hardware components work. Use the adjustments if necessary. (SW 4)

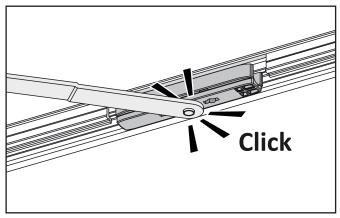
# 12.2 Insert the sliding sash and connect with frame

# ▲ DANGER Danger to life due to sliding sashes falling out. Stay arm has not engaged.

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



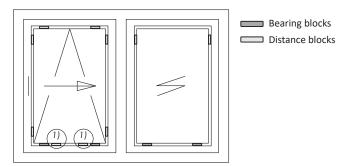
Place stay arms of tilt stay into tilt position. Position the sash on the running rail at an incline and insert the coupling bolt of the stay arms into the slider.



Snap in stay arms of tilt stay into slider. Check firm seating by pulling briefly.

## 12.3 Notes for block setting the bogie wheels M

• Use elastic distance block<sup>1)</sup> (hardness approx. 60-80 Shore), e.g. Universal block from Gluske in the M bogie wheels area.



# PSK 200-Z comfort Completion of element

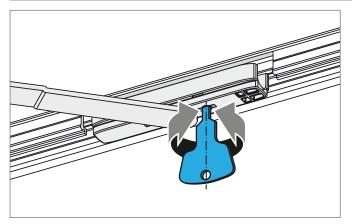




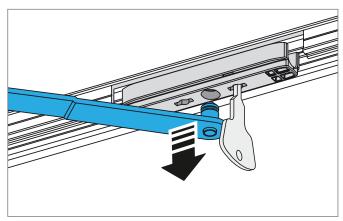
## 12.4 Releasing and removing the sliding sash from the frame



Only the PORTAL key may be used to release the stay arms in the slider, if other tools are used, there is a danger of damaging 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.

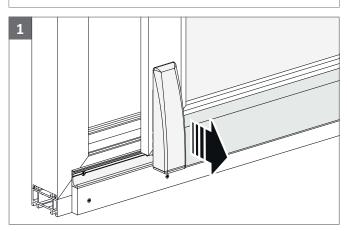
## 12.5 Installing the bogie wheels safeguards

# **▲** DANGER

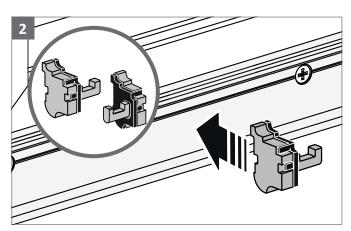
Danger to life due to sliding sashes falling out.

Not mounted bogie wheels safeguards.

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



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

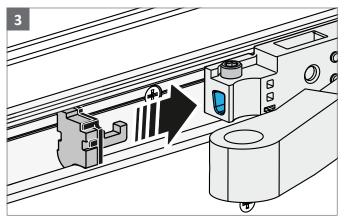


Position the relevant version (RH or LH) of the bogie wheels safeguards in the running rail.

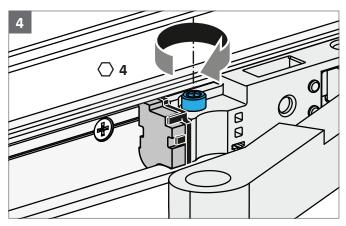




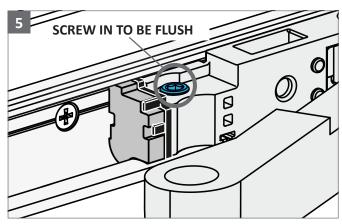
# PSK 200-Z comfort Completion of element



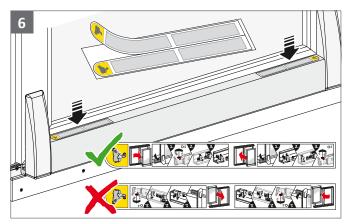
Push bogie wheels safeguards into bogie wheels V and H



Fix the bogie wheels safeguards 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.

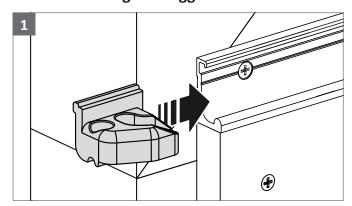


Glue the notes sticker to the protective foil of the cover rail L. Pay attention to correct adjustment of the sticker.

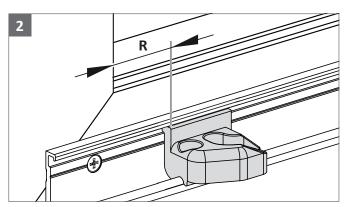
# 12.6 Removing the bogie wheels safeguards

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

## 12.7 Positioning the trigger



Slide the trigger sideways into the running rail.

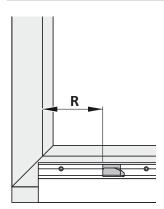


Position the trigger according to the profile.

# PSK 200-Z comfort Completion of element



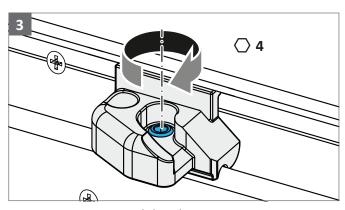




Rebate width	R
18	16
19	15
20	14
21	13
22	12

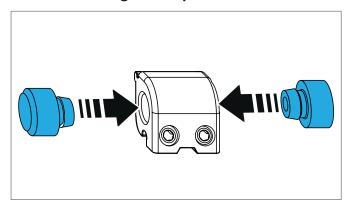
Dimension R is designed to the position of bogie wheels V.

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

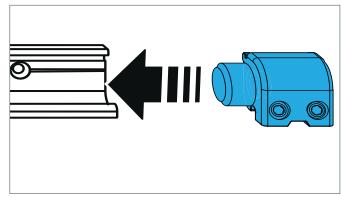


Fix trigger position with head cap screw. Torque max. 3 Nm.

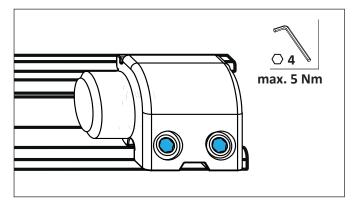
## 12.8 Positioning the stop



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 SW 4. Final positioning only after the sliding sash has been installed. Torque max. 5 Nm. The screws must be fixed at alternating sides to obtain an even torque.



# PSK 200-Z comfort Adjustment

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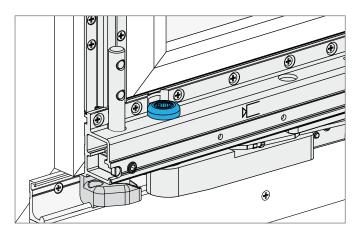
# 13 Adjustment

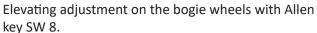
## 13.1 Elevating adjustment of the bogie wheels

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



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

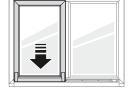




Default setting in minimum position (0 mm)











The maximum adjustment range must not be exceeded. One rotation is equivalent to 1 mm height adjustment.

< > 8

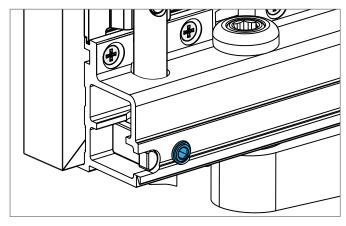
Maximum adjustment: 4 mm

## 13.2 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.

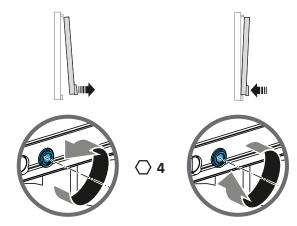


Carry out adjustment following installation of the element in the object. Always adjust both bogie wheels.



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

Default setting in minimum position (0 mm).





Adjustment track max. 2 rotations from minimum position.

# PSK 200-Z comfort Jigs





#### 14 Jigs

	Material description	Tools	Material number
Co C	PSK Comfort jig		PAFL1010-09601_
	for bogie wheels		
	PSK COMFORT jig locking part		PAEL1010-00001_
	for locking parts		
	PSK Comfort clamping jig		PALJ0110-02101_
	for running and guiding rail		
	PSK EB 640/4 jig		143001
	for drill centring in fixing holes on guiding and running rails	Drill: Ø 3 mm	
	Combi jig EB 643-3/-7 groove axis 9 mm (timber and PVC) groove axis 13 mm (PVC only)		158036
	Combi jig EB 643-3/-7 -13 groove axis 13 mm (timber)		PALL0020-5H901_
	Combi jig EB 643-3/-7 -13 C35 for rebate thickness from 19 mm		PALL0030-5H901_
	For fixing drill holes for handle and milling, handle and tilt stays	Milling cutter: Ø 6 or 8 mm Spacer disc: Ø 27 mm Drill: Ø 4.2 mm	





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