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

Content

<u>1</u>	GENERAL NOTES	<u>5</u>	<u>5</u>	BURGLAR RESISTANCE RC2	25
<u>1.1</u>	Preliminary remarks	<u>5</u>	<u>5.1</u>	Hardware diagram RC2 central locking gea	<u>r</u>
1.2	Target group of this documentation	5		scheme A	25
<u>1.2</u> 1.3	Intended use	<u>5</u>	5.2	Hardware list RC2 for central locking gear	
	Improper use		<u> 5.2</u>	scheme A	26
<u>1.4</u> <u>1.5</u>	Safety notes	<u></u>		Scheme 7.	
<u>1.6</u>	Guidelines of the German Association of		<u>6</u>	ASSEMBLY OF HARDWARE COMPO	
	Quality for Locks and Hardware (in Germ	an	_	NENTS	27
	Richtlinien der Gütegemeinschaft Schlöss				
	und Beschläge e. V.)		6.1	Installation of the running rail and	
<u>1.7</u>	Help and support	_		guiding rail	27
<u>1.8</u>	Dimensions		<u>6.2</u>	Installing the bogie wheels	28
<u>1.9</u>	Scheme overview		<u>6.2.1</u>	Installation of the bogie wheels M	29
<u>1.10</u>	Operating sequence:	7	<u>6.3</u>	Installing the connecting rod	30
1.11	Operating sticker	7	6.4	Installation of the supporting piece L	31
<u>2</u>	FABRICATION GUIDELINES	8	<u>6.5</u>	Mounting the bogie wheels cover	31
<u>2.1</u>	Size ranges	8	<u>7</u>	PROFILE SECTIONS	32
<u>2.2</u>	Abbreviations	8	<u>7.1</u>	SI construction drawings	32
<u>3</u>	OVERVIEW OF PSK HARDWARE COMP	<u>O-</u>	<u>8</u>	PREPARATION OF SLIDING SASH	33
	NENTS	9	<u>9</u>	FRAME PART POSITIONS	34
2 1	Hardware diagram PSK scheme A	9	<u> </u>		
3.1 3.2	PSK hardware list scheme A and C	11	10	INSTALLATION OF CENTRAL LOCKING	
<u>3.2</u>	F3K Hardware list scheme A and C		10	GEAR	35
<u>4</u>	OVERVIEW OF HARDWARE COMPONE	NTS			
_	CENTRAL LOCKING GEAR		<u>11</u>	LOCKING MONITORING SYSTEM UMS	36
<u>4.1</u>	Hardware diagram central locking gear				36
4.2			<u>11.1</u>	Possible installation positions	
	schama A	12		•	
<u>4.2</u>	scheme A	13	11.1 11.2	Hardware components locking monitoring	
<u>4.2</u>	Hardware list central locking gear		<u>11.2</u>	Hardware components locking monitoring system	37
	Hardware list central locking gear scheme A	13 14	11.2 11.3	Hardware components locking monitoring system Assembly of locking monitoring system	
<u>4.2</u> <u>4.3</u>	Hardware list central locking gear scheme A Hardware diagram central locking gear	14	<u>11.2</u>	Hardware components locking monitoring system Assembly of locking monitoring system Positioning the magnetic switch and	37 37
<u>4.3</u>	Hardware list central locking gear scheme A Hardware diagram central locking gear scheme C	14 15	11.2 11.3 11.3.1	Hardware components locking monitoring system Assembly of locking monitoring system Positioning the magnetic switch and magnetic cam	37
<u>4.3</u> <u>4.3.1</u>	Hardware list central locking gear scheme A Hardware diagram central locking gear scheme C Variant 1	14 15 15	11.2 11.3	Hardware components locking monitoring system Assembly of locking monitoring system Positioning the magnetic switch and magnetic cam Assembly position – Magnetic switch	37 37 37
4.3 4.3.1 4.3.2	Hardware list central locking gear scheme A Hardware diagram central locking gear scheme C Variant 1 Variant 2a	14 15 15 17	11.2 11.3 11.3.1	Hardware components locking monitoring system Assembly of locking monitoring system Positioning the magnetic switch and magnetic cam	37 37
4.3 4.3.1 4.3.2 4.3.3	Hardware list central locking gear scheme A Hardware diagram central locking gear scheme C Variant 1 Variant 2a Variant 2b	14 15 15	11.2 11.3 11.3.1	Hardware components locking monitoring system Assembly of locking monitoring system Positioning the magnetic switch and magnetic cam Assembly position – Magnetic switch	37 37 37
4.3 4.3.1 4.3.2	Hardware list central locking gear scheme A Hardware diagram central locking gear scheme C Variant 1 Variant 2a Variant 2b Hardware list central locking gear	14 15 15 17 17	11.2 11.3 11.3.1	Hardware components locking monitoring system Assembly of locking monitoring system Positioning the magnetic switch and magnetic cam Assembly position – Magnetic switch	37 37 37
4.3 4.3.1 4.3.2 4.3.3 4.4	Hardware list central locking gear scheme A Hardware diagram central locking gear scheme C Variant 1 Variant 2a Variant 2b Hardware list central locking gear scheme C	14 15 15 17 17	11.2 11.3 11.3.1	Hardware components locking monitoring system Assembly of locking monitoring system Positioning the magnetic switch and magnetic cam Assembly position – Magnetic switch	37 37 37
4.3 4.3.1 4.3.2 4.3.3 4.4 4.4.1	Hardware list central locking gear scheme A Hardware diagram central locking gear scheme C Variant 1 Variant 2a Variant 2b Hardware list central locking gear scheme C Variant 1	14 15 15 17 17 17	11.2 11.3 11.3.1	Hardware components locking monitoring system Assembly of locking monitoring system Positioning the magnetic switch and magnetic cam Assembly position – Magnetic switch	37 37 37
4.3 4.3.1 4.3.2 4.3.3 4.4 4.4.1 4.4.2	Hardware list central locking gear scheme A Hardware diagram central locking gear scheme C Variant 1 Variant 2a Variant 2b Hardware list central locking gear scheme C Variant 1 Variant 2	14 15 15 17 17 17 18 18 19	11.2 11.3 11.3.1	Hardware components locking monitoring system Assembly of locking monitoring system Positioning the magnetic switch and magnetic cam Assembly position – Magnetic switch	37 37 37
4.3 4.3.1 4.3.2 4.3.3 4.4 4.4.1 4.4.2 4.4.3	Hardware list central locking gear scheme A Hardware diagram central locking gear scheme C Variant 1 Variant 2a Variant 2b Hardware list central locking gear scheme C Variant 1 Variant 2b	14 15 15 17 17 17 18 18 19 20	11.2 11.3 11.3.1	Hardware components locking monitoring system Assembly of locking monitoring system Positioning the magnetic switch and magnetic cam Assembly position – Magnetic switch	37 37 37
4.3 4.3.1 4.3.2 4.3.3 4.4 4.4.1 4.4.2	Hardware list central locking gear scheme A Hardware diagram central locking gear scheme C Variant 1 Variant 2a Variant 2b Hardware list central locking gear scheme C Variant 1 Variant 2	14 15 15 17 17 17 18 18 19	11.2 11.3 11.3.1	Hardware components locking monitoring system Assembly of locking monitoring system Positioning the magnetic switch and magnetic cam Assembly position – Magnetic switch	37 37 37

Content

JIGS

42

<u>12</u>	COMPLETION OF ELEMENT	38
<u>12.1</u>	Inserting the sliding sash into the frame	38
<u>12.2</u>	Insert the sliding sash and connect	
	with frame	38
<u>12.3</u>	Notes for block setting the bogie wheels	M 39
<u>12.4</u>	Releasing and removing the sliding sash	
	from the frame	40
<u>12.5</u>	Installing the bogie wheels safeguards	41
12.6	Removing the bogie wheels safeguards	42
12.7	Positioning the trigger	42
12.8	Positioning the stop	42
13	ADJUSTMENT	42
Elevating	adjustment of the bogie wheels	42
Adjustme	ent of the tilt angle of the bogie wheels	42



1

PSK 200-Z comfort General notes

PORTAL

PSK

1.1 Preliminary remarks

General notes

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.

PORTAL

PSK

PSK 200-Z comfort General notes





 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.





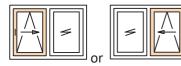
PSK 200-Z comfort General notes

PORTAL

PSK

1.9 Scheme overview

Scheme A



DIN LH DIN RH

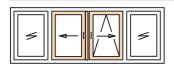
Scheme A with 1 sliding sash/1 fixed sash*

Scheme G



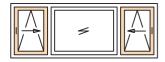
Scheme G with 1 sliding sash/2 fixed sashes*

scheme C



Scheme C with 2 sliding sashes/2 fixed sashes*

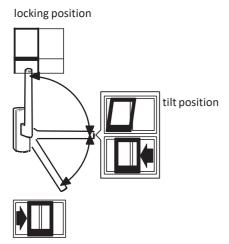
Scheme K



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).

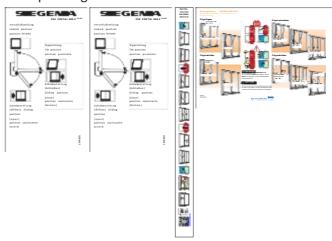
1.10 Operating sequence:



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
Sash weight	with 2 bogie wheels	max. 1	L60 kg
	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
M	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:					

H48.PSK-HKS002EN



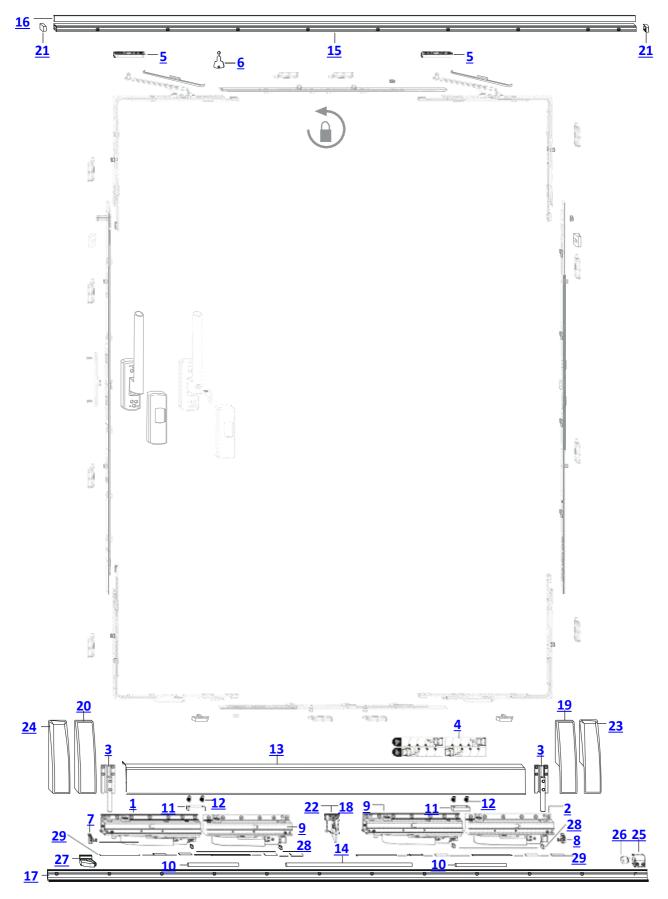
PSK 200-Z comfort Overview of PSK hardware components

PORTAL

PSK

3 Overview of PSK hardware components

3.1 Hardware diagram PSK scheme A



21 2 4 cover cap F

PSK 200-Z comfort Overview of PSK hardware components





3.2 PSK hardware list scheme A and C

ltem	pie	ece	Material description					Material nu	ımber		
	sche	eme				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	_		
1	1	2	bogie wheels PSK COMFO	DRT V	front						
2	1	2	bogie wheels PSK COMFO	ORT H	rear	-					
3	2	4	vertical supporting part P	SK COMFORT							
4	1	2	sticker PSK bogie wheels	safeguards							
5	2	4	slider PSK COMFORT								
6	1	2	PORTAL key								
7	1	2	bogie wheels safeguards		front						
8	1	2	bogie wheels safeguards		rear						
	2	4	PSK comfort M necessary for sliding sash	> 160 kg	RH LH			PLWL1031-1 PLWL1032-1	_		
9	2	4	bogie wheels PSK COMFO	DRT M	centre						
10	1	2	connecting rod Ø10 x 145								
11	2	4	connecting piece PSK con	nfort M							
12	4	8	Pan-head screw M 6 x 16								
epe	ndin	g on s	sash rebate width (FFB)								
	1	2	Profile set PSK COMFORT	Size ¹⁾ 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	200,420	1001 2000	1101132240					
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	omfo	rt stv	le version								
	1	2	Bag cover cap set PSK CO	MFORT Style		PMAJ2050	-02501_	-00201_	-01201_	-0H401_	-0H001
19	1	2	cover cap L Style		RH			1	1	1	1
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 wi	th 100 piece			PZLJ1010-0	9906_		
or co	omfo	rt So	ft version								
	1	2	Bag cover cap set PSK CO	MFORT Soft		PMAJ1050	-02501_	-00201_	-01201_	-0H401_	-0H001
23	1	2		Iternative to item	RH						
24	1	2	cover cap L Soft a	ternative to item 20	LH						
			_		-	1					





PSK 200-Z comfort Overview of PSK hardware components

PORTAL PSK

Item	pie	ece	Material de	scription	scription			Material nu	ımber			
	sche	eme				Basis		add-o	ons for colou	r		
	Α	С					silver	RAL 9003	RAL 8022	F9	old gold	
	1	2	Bag of accessories running ra	il PSK	RH	Basis		add-	ons for colour			
			comfort			PMZJ2051	Si-silver powder-coated		Si-silver	powder-coa	ted VE 10:	
							VE			-02502_		
								-02501_			/F 10.	
							Si-silver optic VE 1: -10001		51-5	ilver optic V -10002	E 10:	
							black			black VE 10)•	
		_			-09901_		-09902_					
			LH		LH	PMZJ2052	Si-silver powder-coated		Si-silver powder-coated VE 10:			
							VE			-02502_		
							-02501_					
							Si-silver optic VE 1: -10001		Si-silver optic VE 10: -10002		Æ 10:	
							black '			black VE 10	١٠	
							-099			-09902	,.	
25	1	2	stop									
26	1	2	stop core									
27	1	2	trigger									
<u>22</u>	1-2	2-4	Supporting piece L if additionally required	carton with 100 piece			PZLJ1010-09906_					

Accessories

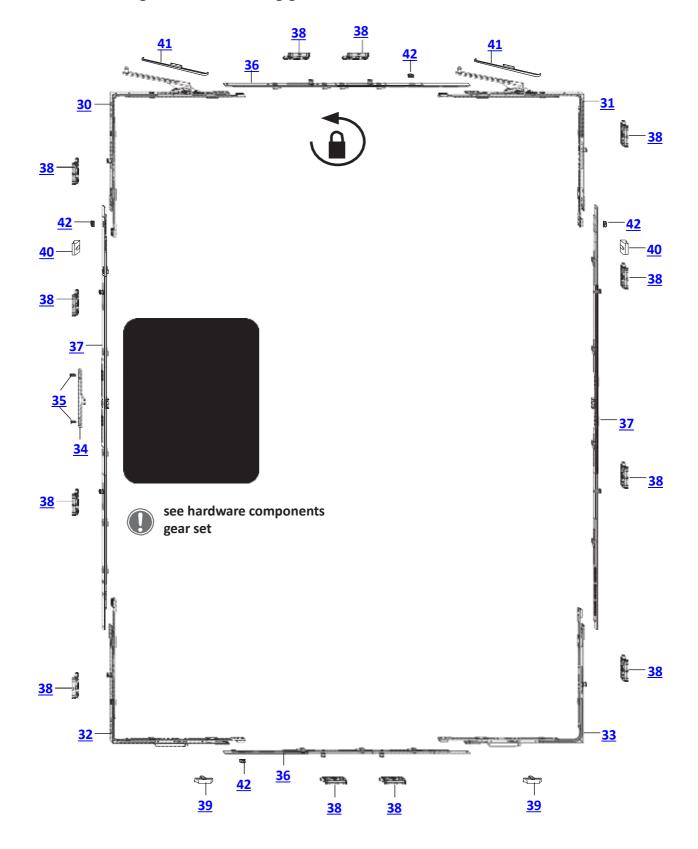
ACC	233011	CJ									
28	1	2	Sealing brush set 13 mm			PZUJ0030-00001_					
29	2	4	Distance plate set LW	consisting of:	height:	1 mm	2 mm	3 mm	4 mm	8 mm	
			for support of the bogie			PMZJ1060	PMZJ1070	PMZJ1080	PMZJ1090	PMZJ1100	
			wheels			-00001_	-00001_	-00001_	-00001_	-00001_	
	4	8	Distance plate 120 x 11	'		Plate height depending on profile; see product catalogue				gue or cons-	
	8	16	Distance plate 28 x 11			truction drawing	for determin	nation			





Overview of hardware components central locking gear

4.1 Hardware diagram central locking gear scheme A







PORTAL PSK

4.2 Hardware list central locking gear scheme A

Item	piece	Material description			Material number							
	scheme					Basis		add	ons for col	our		
	Α						silver	RAL 9003	RAL 8022	F9	old gold	
	1	Corner drive PSK 200-Z 9NA S-RS comfort mushroom locking cam			RH LH			PMEL1021	_			
		Corner drive PSK 200-Z 13 NA S-RS comfort mushroom locking cam			RH LH	PMEL1011-10001_ PMEL1012-10001_						
30	1	corner drive VSO		RH	I/LH							
31	1	corner drive BSO		RI	I/LH							
32	1	corner drive VSU		RH	I/LH							
33	1	corner drive BSU		RH	I/LH							
34	1	coupling bracket		for PME	L102 18							
	1	coupling bracket		for PMEL	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	Size		FFB			PZKL0460	-10001_			
		comfort mushroom locking cam	79 770- 790									
			100		791-1000			PZKL0270	_			
			123 146		1001-1230 1231-1460			PZKL0280 PZKL0290	_			
			169		1461-1690			PZKL0290	_			
			169/2		1461-1690			PZKL0300	_			
			192		1691-1920			PZKL0320	_			
			215		1921-2000			PZKL0330	-10001_			
dep	ending o	n sash rebate height (FFH)										
37	2	Gear OS S-RS	Size	Handle	FFH			7133	03			
		comfort mushroom locking cam	123	position	1001-1230			PGKL0130	-10003_			
			146	490	1231-1460			PGKL0140	_			
			169	590	1461-1690			PGKL0150	_			
			192 215	690 990	1691-1920 1921-2150			PGKL0160	_			
			238	990	1511-2360			PGKL0170	-10001_			
			230	990	1311 2300							
dan	ending o	n profile system										
38	4	Striker plate S-RS					S	see profile o	data sheet			
		for comfort mushroom locking cam						-				
	1	Bag of frame parts PSK 200-Z					S	see profile o	data sheet			
39	2	Locking piece PSK-Z										
40	2	Distance piece										
Acce	essories											
41	02	Cover cap S				PKAL1010	-02401_	-00201_	-01201_	-0H401_	-0H001_	
<u>34</u>	1	coupling bracket	ion		15 18		1	7172 643.2146.			1	
		see product catalogue for determination			18/2			7205				
					18/3			PGZL0050				
					WK2			PGZL0040	_			
ig.	0/1	Linkage	size 23 (wit	hout cam)				PZKL0390	-100010			
w/o fig.												
	0/4	Pataining alama						7025	.43			
42	0/4	Retaining clamp						7025	43			

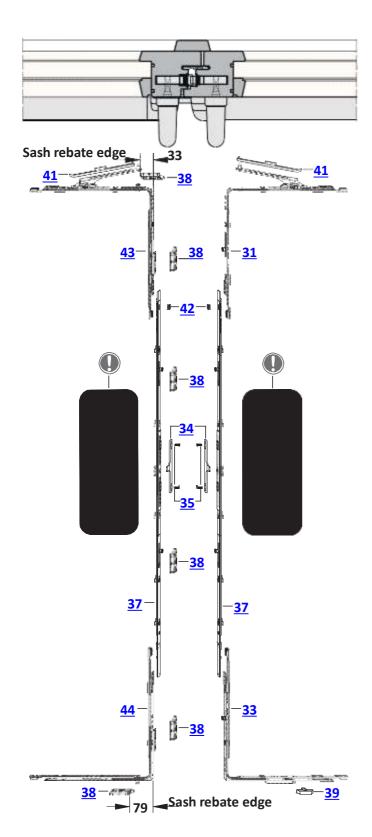
PSK



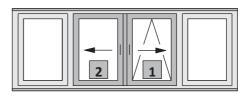


4.3 Hardware diagram central locking gear scheme C

4.3.1 Variant 1



06.2021



* frame part is dependent on profile system

see hardware components gear set

Profile system	Вас	kset
	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

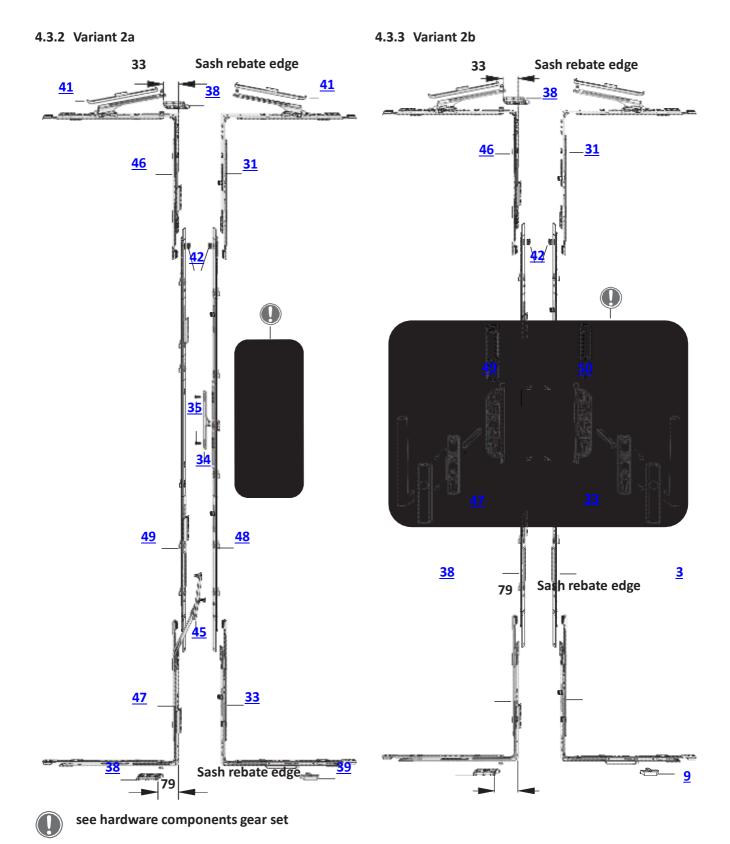
secondary sash first **2** , then primary sash **1**



PORTAL

PSK

15/42







4.4 Hardware list central locking gear scheme C

4.4.1 Variant 1

tem	piece	•						Material number		
	scheme					Basis		add-ons for colo	ur	
	С						silver	RAL 9003 RAL 8022	F9	old gold
		0			- Bu			PMEL1021-10001_		
	1	Corner drive PSK 200-Z 9NA S-RS comfort mushroom locking cam			RH LH			PMEL1022-10001_		
		Corner drive PSK 200-Z 13 NA S-RS			RH			PMEL1011-10001_		
		comfort mushroom locking cam			LH			PMEL1012-10001_		
<u>30</u>	1	corner drive VSO			RH/LH					
<u>31</u>	1	corner drive BSO			RH/LH					
<u>32</u>	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 so	heme C		RH			PMEL1061-10001		
		comfort mushroom locking cam			LH			PMEL1062-10001_		
		Corner drive PSK 200-Z 13 NA S-RS	scheme C		RH			PMEL1051-10001_		
		comfort mushroom locking cam			LH			PMEL1052-10001_		
43	1	corner drive VSO scheme C			RH/LH					
<u>31</u>	1	corner drive BSO			RH/LH					
44	1	corner drive VSU scheme C			RH/LH					
33	1				RH/LH					
34	1	coupling bracket			18 or 18/2					
35	2	countersunk screw			M 5 x 10 PZD					
eper	nding on s	sash rebate width (FFB)								
<u>36</u>	4	Linkage S-RS	Size		FFB			PZKL0460-10001_		
		(comfort mushroom locking cam)	79		740- 790					
			100		791-1000			PZKL0270-10001_		
			123		1001-1230			PZKL0280-10001_		
			146		1231-1460			PZKL0290-10001_		
			169 169/2		1461-1690 1461-1690			PZKL0300-10001_ PZKL0310-10001_		
			192		1691-1920			PZKL0310-10001_ PZKL0320-10001		
			215		1921-2000			PZKL0330-10001_		
don	anding or	n sash rebate height (FFH)						_		
37	4	Gear OS S-RS	Size	Handle	FFH			713303		
_		(comfort mushroom locking cam)	123	position	1001-1230			PGKL0130-10003		
			146	490	1231-1460			PGKL0140-10001_		
			169	590	1461-1690			PGKL0150-10001_		
			192	690	1691-1920			PGKL0160-10001_		
			215	990	1921-2150			PGKL0170-10001_		
			238	990	2151-2360					
dep	ending or	n profile system								
<u>38</u>	8	Striker plate S-RS						see profile data sheet		
		for comfort mushroom locking cam								
	2	Bag of frame parts PSK 200-Z					:	see profile data sheet		
<u>39</u>	4	Locking piece PSK-Z								
40	4	Distance piece								
	sories	·								

<u>41</u>	04	Cover cap S			PKAL1010	-02401_	-00201_	-01201_	-0H401_	-0H001_		
<u>34</u>	2	coupling bracket		15			7172	40				
				18			643.2146.0	0003X60				
				18/2			7205	85				
				18/3	PGZL0050-10001_							
				WK2	PGZL0040-10001_							
fig.	0/2	Linkage	size 23 (v	without cam)	PZKL0390-100010							
w/o f												
<u>42</u>	0/8	Retaining clamp			702543							

06.2021





PORTAL PSK

4.4.2 Variant 2a

tem											
	scheme					Basis		ado	d-ons for co	lour	
	С						silver	RAL 9003	RAL 8022	F9	old gold
45	1	Operating lever						PHZL0010	0-10001_		
	1	Corner drive PSK 200-Z 9NA S-RS			RH			PMEL102	1-10001_		
		comfort mushroom locking cam			LH			PMEL102	2-10001_		
		Corner drive PSK 200-Z 13 NA S-RS			RH			PMEL101	1-10001_		
		comfort mushroom locking cam			LH			PMEL101	2-10001_		
<u>30</u>	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	2					
<u>35</u>	2	countersunk screw		1	M 5 x 10 PZD						
	1	Corner drive PSK 200-Z 9NA S-RS sch	eme C		RH			PMEL106	1-10001		
		comfort mushroom locking cam			LH			PMEL106			
		Corner drive PSK 200-Z 13 NA S-RS so	heme C		RH			PMEL105	1-10001_		
		comfort mushroom locking cam			LH			PMEL105	2-10001_		
46	1	corner drive VSO scheme C			RH/LH						
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						
_		sash rebate width (FFB)									
<u>36</u>	4	Linkage S-RS	S	iize	FFB			PZKL0460	-10001_		
		comfort mushroom locking cam		79	740- 790						
			1	.00	791-1000			PZKL0270	-10001_		
				.23	1001-1230			PZKL0280	-10001_		
				.46	1231-1460			PZKL0290	_		
				.69	1461-1690			PZKL0300	_		
				59/2 .92	1461-1690 1691-1920			PZKL0310 PZKL0320	_		
				215	1921-2000			PZKL0320	_		
ene	nding on	sash rebate height (FFH)	_	.20	1021 2000						
48	3	Gear OS S-RS	Size	Handle	FFH			PGKL0140	0-10001		
		comfort mushroom locking cam	169	position	1461-1690			PGKL0150	_		
			192	690	1691-1920			PGKL0160	_		
			215	990	1921-2150			PGKL0170	0-10001_		
			238	990 990	2151-2360						
49	1	Linkage S-RS	169/2	990	1461-1690			PZKL0350	10001		
	-	with preassembled striker plates	192		1691-1920			PZKL0360	_		
		·	215		1921-2150			PZKL0370	_		
			238		2151-2360			PZKL0380	_		
ne	nding on	profile system									
38	8	Striker plate S-RS (for comfort mushroom locking cam					5	see profile	data sheet		
	2	Bag of frame parts PSK 200-Z				see profile data sheet					
<u>39</u>	4	Locking piece PSK-Z				·					
<u>40</u>	4	Distance piece									
Δετ	essories	1									
41	04	Cover cap S*				PKAL1010	-02401_	-00201_	-01201_	-0H401	0H001
34	2	coupling bracket			15			7172			

PSK

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





4.4.3 Variant 2b

Item	piece	Material d	escription			Material number					
	scheme					Basis		add	-ons for co	lour	
	С						silver	RAL 9003	RAL 8022	F9	old gold
	1	Corner drive PSK 200-Z 9NA S-RS			RH			PMEL1021	l-10001_		
		comfort mushroom locking cam			LH			PMEL1022	2-10001_		
		Corner drive PSK 200-Z 13 NA S-RS			RH			PMEL1011	_		
		comfort mushroom locking cam		1	LH			PMEL1012	2-10001_		
<u>30</u>	1	corner drive VSO			RH/LH						
<u>31</u>	1	corner drive BSO			RH/LH						
<u>32</u>	1	corner drive VSU			RH/LH						
<u>33</u>	1	corner drive BSU			RH/LH						
<u>34</u>	1	coupling bracket			18 or 18/2						
<u>35</u>	2	countersunk screw			M 5 x 10 PZD						
	1	Corner drive PSK 200-Z 9NA S-RS sch comfort mushroom locking cam	eme C	1	RH LH		PMEL1061-10001_ PMEL1062-10001				
		Corner drive PSK 200-Z 13 NA S-RS so	heme C		RH			PMEL1051	L-10001		
		comfort mushroom locking cam			LH			PMEL1052	_		
<u>46</u>	1	corner drive VSO scheme C			RH/LH						
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			M 5 x 10 PZD	_					
		sash rebate width (FFB)									
<u>36</u>	4	Linkage S-RS	9	Size	FFB			PZKL0460	-10001_		
		comfort mushroom locking cam		79	740- 790						
				100	791-1000			PZKL0270	_		
				123	1001-1230			PZKL0280	_		
				146 169	1231-1460 1461-1690			PZKL0290	_		
				59/2	1461-1690			PZKL0300			
				192	1691-1920			PZKL0320			
			2	215	1921-2000			PZKL0330	-10001_		
depe	nding on s	sash rebate height (FFH)									
50	3	Linkage S-RS	Size	Handle	FFH			PZKL0310	-10001_		
		comfort mushroom locking cam	169/2	position	1461-1690			PZKL0320	-10001_		
			192	690	1691-1920			PZKL0330	_		
			215 238	990 990	1921-2150			PZKL0340	-10001_		
			230	990	2151-2360						
49	1	Linkage S-RS	169/2	690	1461-1690			PZKL0350	-10001		
	-	with preassembled striker plates	192	990	1691-1920			PZKL0360	_		
		· ·	215	990	1921-2150			PZKL0370			
			238	990	2151-2360						
dene	nding on i	profile system									
38	8	Striker plate S-RS for comfort mushroom locking cam					S	ee profile o	data sheet		
	2	Bag of frame parts PSK 200-Z					S	ee profile o	data sheet		
<u>39</u>	4	Locking piece PSK-Z						•			
	4	Distance piece				-					
<u>40</u>	4	Distance piece									
Acces	sories										
<u>41</u>	04	Cover cap S				PKAL1010	-02401_	-00201_	-01201_	-0H401_	-0H001_
24	•	and the second of			4.5			7473	40		

Acces	301103											
<u>41</u>	04	Cover cap S			PKAL1010	-02401_	-00201_	-01201_	-0H401_	-0H001_		
<u>34</u>	2	coupling bracket		15			7172	40				
				15			643.2146.0	0003X60				
			1 1				7205	85				
							PGZL0050	-10001_				
						PGZL0040-10001_						
w/o fig.	0/2	Linkage size 23 (withou					PZKL0390-	100010				
<u>42</u>	0/8	Retaining clamp					7025	43				

06.2021



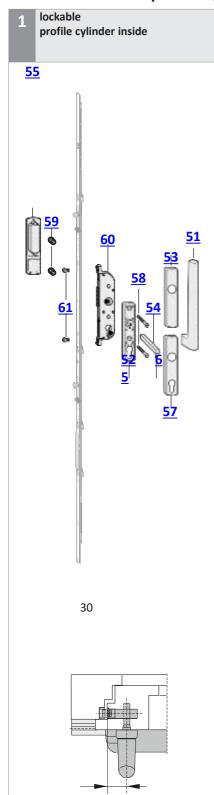
Overview of hardware components central locking gear

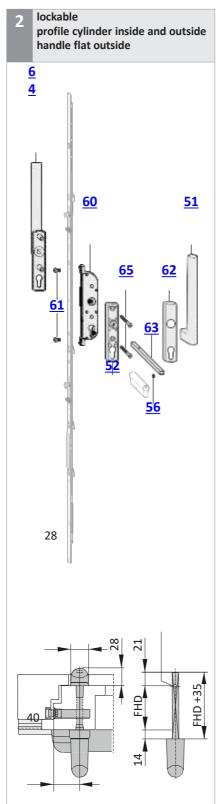
PORTAL

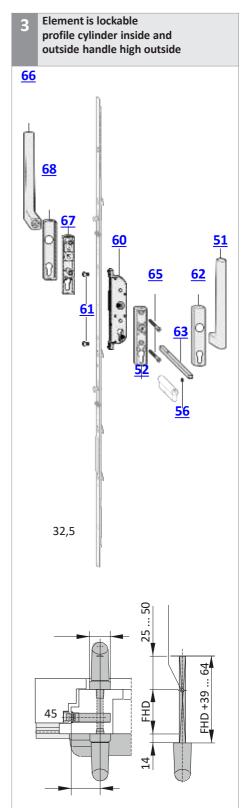
PSK 200-Z comfort

PSK

4.5 Hardware components gear set







PSK

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





4.6 Hardware list gear set

Item	Material description	piece per			Material n	umber			pie	ece
		VE	Basis	add-ons for colour				scheme		
				silver	RAL 9003	RAL 8022	F9	old gold	Α	С

	Carton handle Si-line HSK		PMHC0010-	52401_	-50201_	-51201_	-5H401_	-	1	2
51	Handle	1				I				
52	rose	1								
53	Cover cap	1								
54	Square	1								
55	Sliding grip	1								
56	Grub screw M 6	1								
57	Cover cap Si-line HS 300 PZ		PKHB0040	-52401_	-50201_	-51201_	-5H401_	-	1	2
58	Countersunk screw M 5 x 45				8633	29			2	4
59	Sleeve nut M 5				8002	87			2	4
	Gear set PSK 200-Z		Backset							
60	Gear box	1	40 mm			716342			1	2
61	Screw M 5 x 10	2	45 mm			716359				

					-							
2	Element is lockable with a p	rofile cylir	nder inside	and outside	(handle flat	outside)						
	Carton handle Si-line HSK/PSK 2	00-Z PZ insi	de		PMHC0020	-52401_	-50201_	-51201_	-5H401_	-	1	2
<u>51</u>	Handle			1			-					
<u>52</u>	rose			1								
62	Cover cap PZ			1	-							
63	Square □10 x 168			1								
<u>56</u>	Grub screw M 6			1								
64	Handle Si-line PSK 200-Z PZ outs	ide flat			PHAL0010	-52401_	-50201_	-51201_	-5H401_	-	1	2
65	Countersunk screw M5		for sash	thicknesses								
	countersunk screw M5 x 65			55-64		ı	KDNA0080	-10001_			2	4
	countersunk screw M5 x 75			65-74		l l	KDNA0100	-10001_				
	countersunk screw M5 x 85			75-84		l l	KDNA0120	-10001_				
	Gear set PSK 200-Z				Backset							
<u>60</u>	Gear box			1	40 mm			716342			1	2
61	Screw M 5 x 10			2	45 mm		716342 716359					

	Carton handle Si-line HSK/PSK 2	00-Z PZ inside		PMHC0020	-52401_	-50201_	-51201_	-5H401_	-	1	2
51	Handle		1								
52	rose		1	-							
<u>62</u>	Cover cap PZ		1								
<u>63</u>	Square 10 x 168		1								
<u>56</u>	Grub screw M 6		1								
	Carton handle Si-line PORTAL HS	300 PZ outside		РМНВ0040	-52401_	-50201_	-51201_	-5H401_	-	1	2
66	Handle										
67	rose										
68	Cover cap PZ										
<u>65</u>	Countersunk screw M5	for sas	h thicknesses								
	countersunk screw M5 x 65		55-64		ı	KDNA0080	-10001_			2	4
	countersunk screw M5 x 75		65-74		1	KDNA0100	-10001				
	countersunk screw M5 x 85		75-84		- 1	KDNA0120	-10001_				
	Gear set PSK 200-Z	,		Backset							
<u>60</u>	Gear box		1	40 mm			716342			1	2
<u>61</u>	Screw M 5 x 10		2	45 mm			716359				



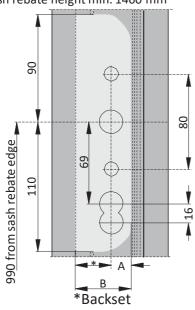




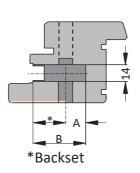
PORTAL PSK

4.7 Milling groove gear box

Sash rebate height min. 1460 mm







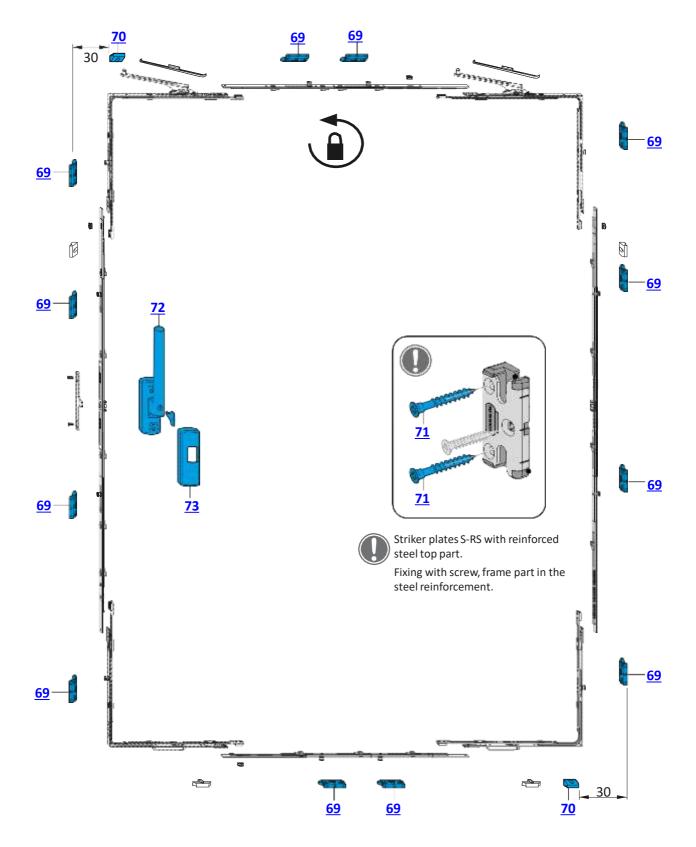
Di	mensions fo	or gear	
	Backset	А	В
PZ-30	30	16	46
PZ-40	40	16	56
PZ-45	45	16	61
PZ-50	50	16	66





Burglar resistance RC2 5

Hardware diagram RC2 central locking gear scheme A







PSK 200-Z comfort Burglar resistance RC2

PORTAL PSK

5.2 Hardware list RC2 for central locking gear scheme A

ı	tem	piece	Material description		Material number				
		scheme		Basis	add-ons for colour				
		Α			silver	RAL 9003	RAL 8022	F9	old gold

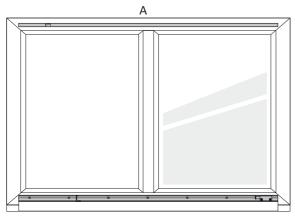
depe	nding on	profile system							
69	4	Striker plate S-RS with reinforced steel top part		see profile data sheet					
		for comfort mushroom locking cam							
70	2	Distance piece PSK		see profile data sheet					
71	2	Screw for frame part 5x40 (for PVC elements)	Carton with 500	RS040-B0T00					
			piece						
	2	Screw for frame part 4x50 (for timber elements)	Carton with 500	SASSZ1016					
			piece						
	1	Handle PSK 200-Z/GH Si-line lockable	RH	PHIL0041	-52401_	-50201_	-51201_	-5H401_	-5H001_
		consisting of:	LH	PHIL0042	-52401_	-50201_	-51201_	-5H401_	-5H001_
72	1	Handle PSK 200-Z/GH Si-line lockable	RH/LH						
73	1	Cover cap	RH/LH	1					





6 Assembly of hardware components

6.1 Installation of the running rail and guiding rail



	В
Α	guiding rail
В	running rail

▲ DANGER

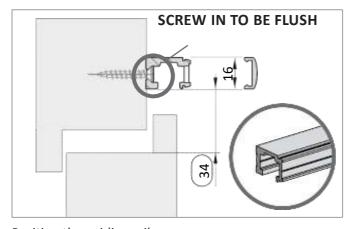
Danger to life due to sliding sashes falling out.

Wrong position of the guiding and running rail.

Adhere to the positioning dimensions.



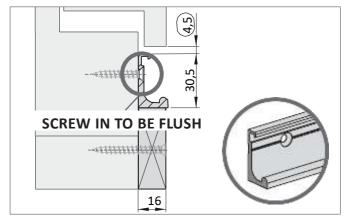
The construction drawing related to the profile must be observed for correct assembly of the guiding and running rail.



Position the guiding rail.

Observe the construction drawing related to the profile.

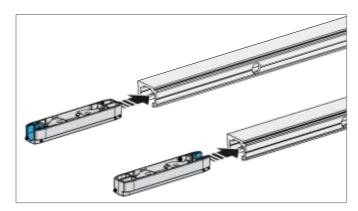
The screws must be screwed to be flush with the running rail. A projection is not permissible.



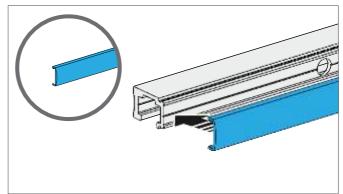
Position the running rail. Observe the construction drawing related to the profile.

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.



Push both sliders into the guiding rail.



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

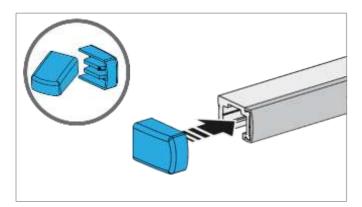




PSK 200-Z comfort Assembly of hardware components

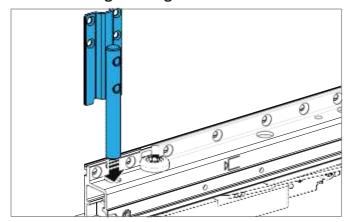
PORTAL

PSK

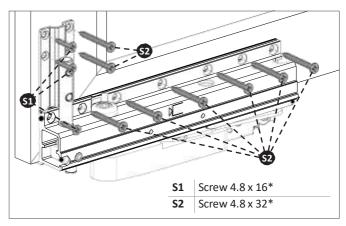


Attach a cover cap F to each end of the guiding rail.

6.2 Installing the bogie wheels



Push supporting part into bogie wheels V and H.

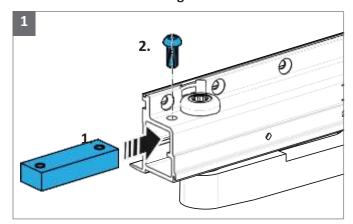


Screw both bogie wheels tightly onto sliding sash according to their position.

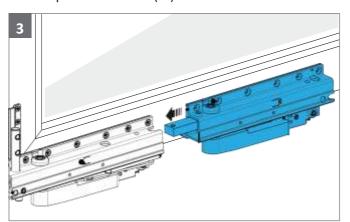
*Screw length dependent on profile



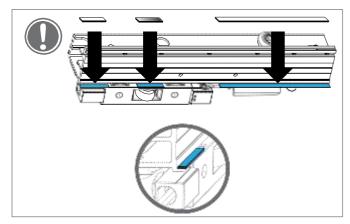
6.2.1 Installation of the bogie wheels M



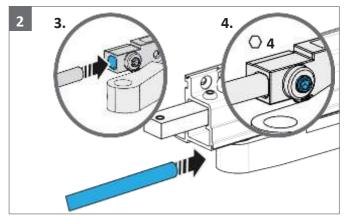
Push the connecting piece into bogie wheels M (1.) and fix with pan-head screw (2.).



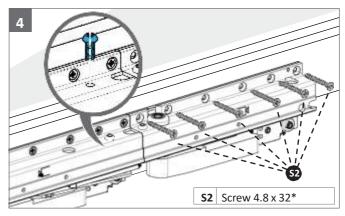
Push the respective bogie wheels M into bogie wheels V and H.



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



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



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

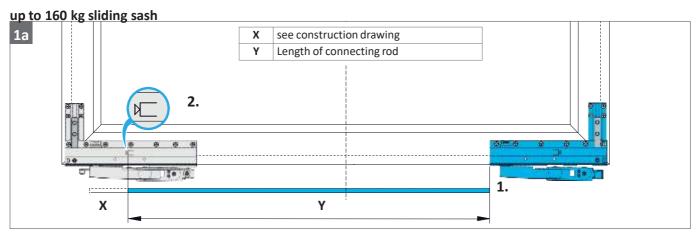


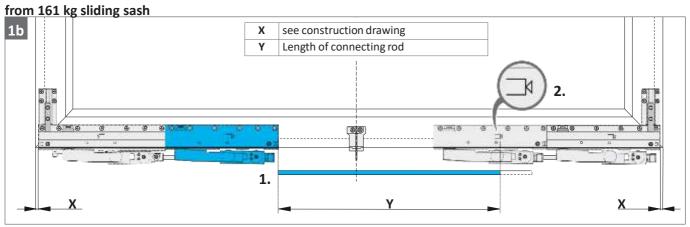
PSK 200-Z comfort Assembly of hardware components

PORTAL

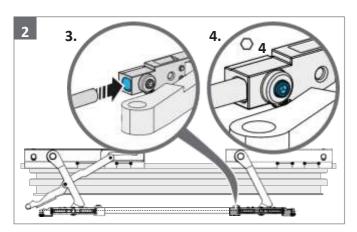
PSK

6.3 Installing the connecting rod

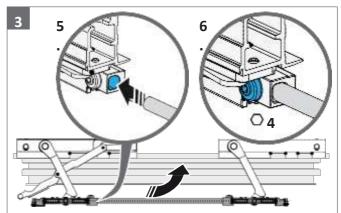




Place connecting rod on the H bogie wheels (1.). Transfer the crop indication on the cropping mark of bogie wheels V, to the connecting rod (2.) and crop the connecting rod.



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

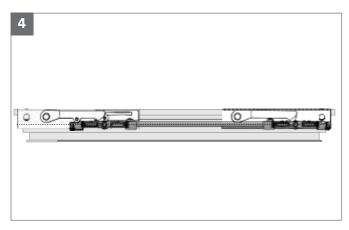


Insert connecting rod into bogie wheels (5.). Bring the bogie wheels housing with connecting rod into the closed position. Now fix the connecting rod with a head cap screw (6.). Torque 10-11 Nm.

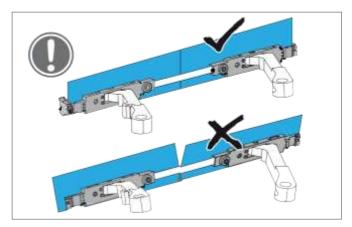
PSK 200-Z comfort Assembly of hardware components





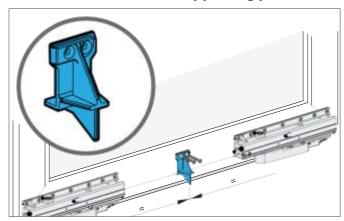


The bogie wheels housing must be standing parallel in the closed position.



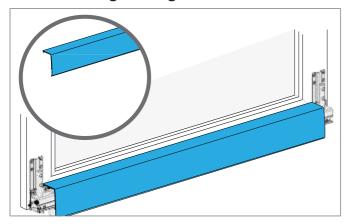
After the fixation of the connecting rod, the bogie wheels housing must align with each other.

6.4 Installation of the supporting piece L

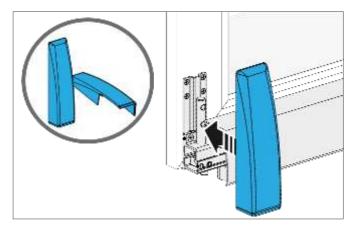


Position supporting piece L for cover rail L centrally and screw into place with 4.8 x 35 screws

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

PORTAL PSK

7 Profile sections

7.1 SI construction drawings

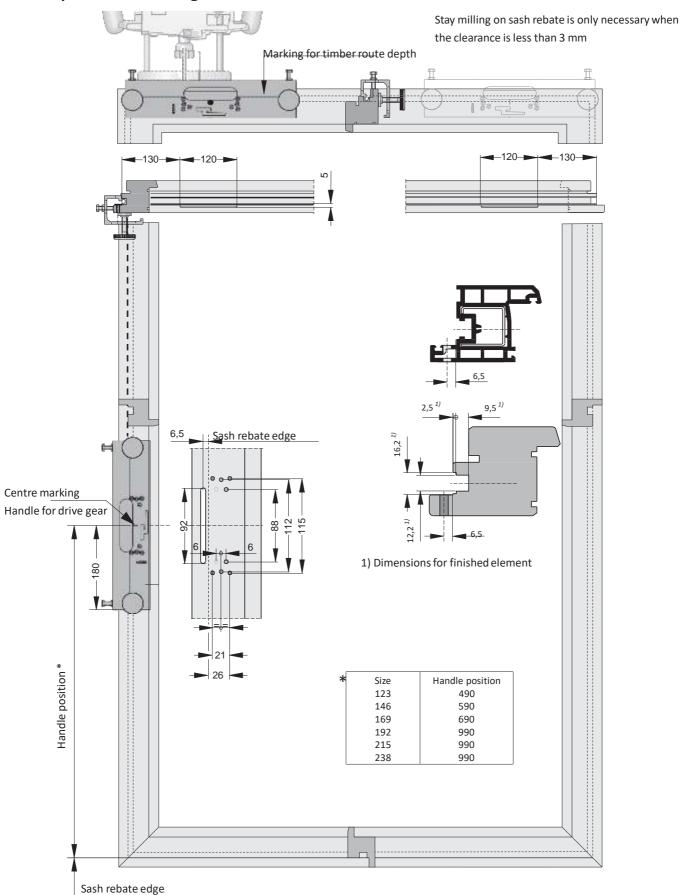
The dimensions of the SI construction drawings must be observed for the correct positioning of the holes and components on the profile.

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





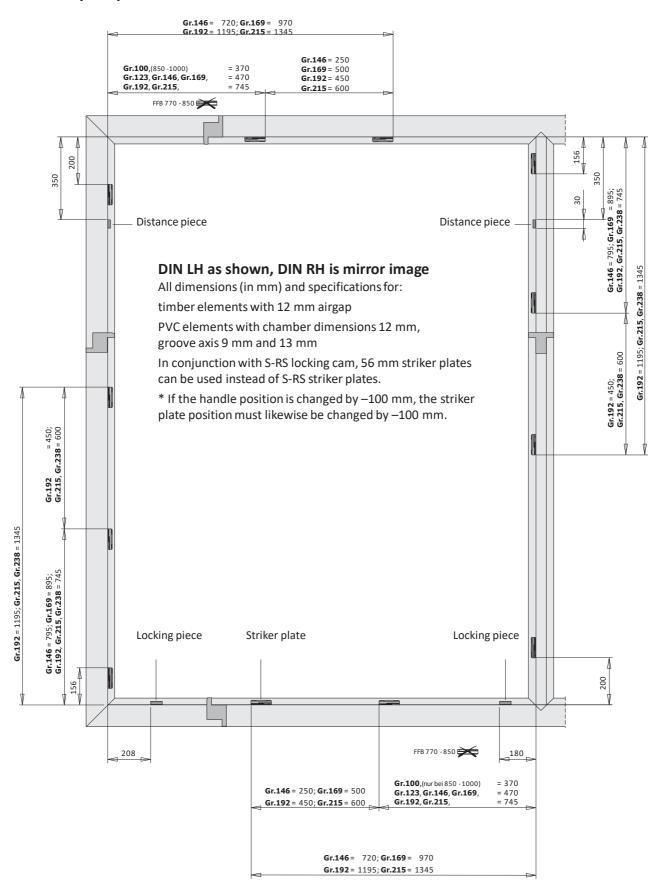
8 Preparation of sliding sash



06.2021

PSK

9 Frame part positions

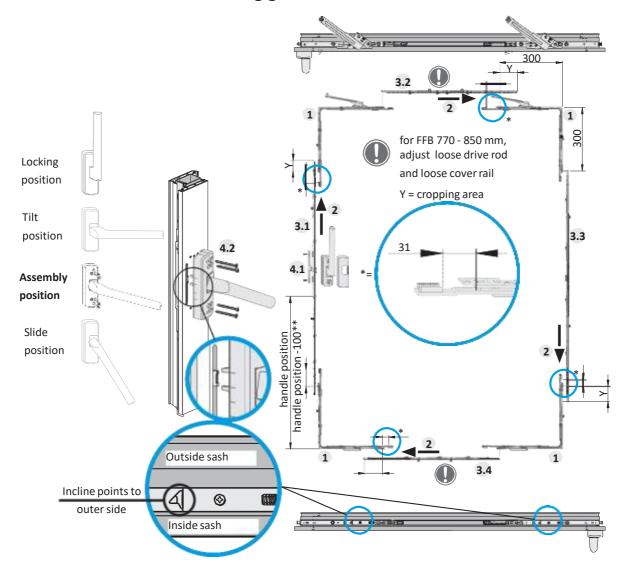








Installation of central locking gear 10



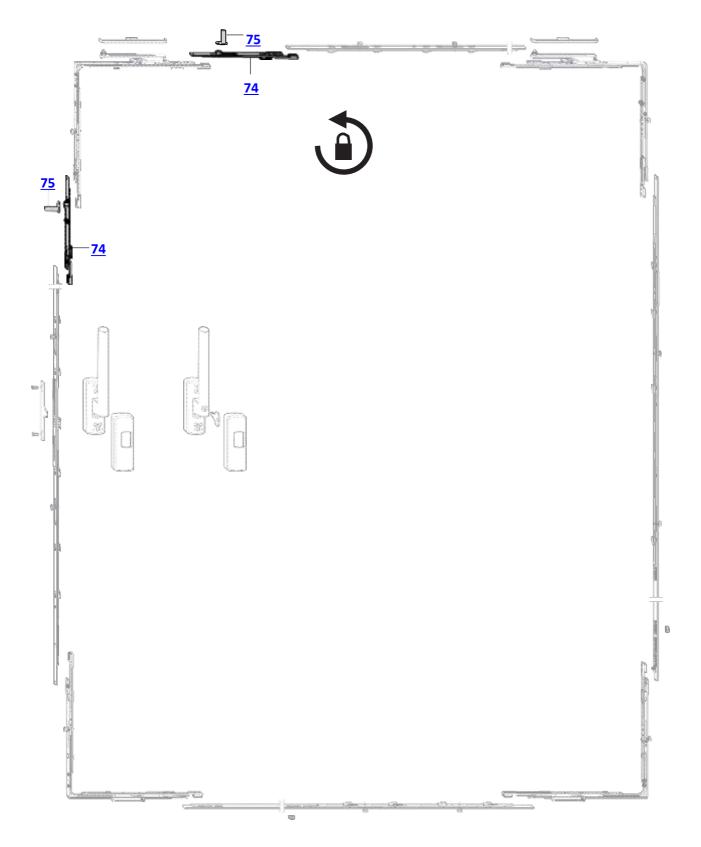
- If the handle position is changed by -100 mm, the striker plate position must likewise be changed by -100 mm. The size range of the gear OS is also reduced by -100 mm.
- 1 Insert corner drives VSU, BSU, VSO and BSO correctly into the eurogroove and screw into place. Release seal in the area of the stay arm.
- 2 Push each drive rod of the corner drives into the respective installation position, as far as stop (refer to —)
- 3 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.
- 1.: engage the coupling bracket with the cam on the OS gear and screw in place with M5 x 10 countersunk
- 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.

06.2021



11 Locking monitoring system UMS

11.1 Possible installation positions



PSK 200-Z comfort Locking monitoring system UMS



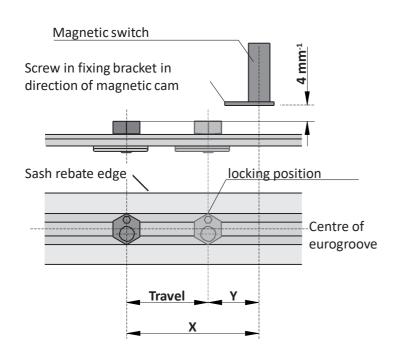


11.2 Hardware components locking monitoring system

Item	Material description	Material number		ece eme
			Α	С
74	Linkage UE sz.23 MV	716519	1	2
75	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

Magnetic switch	Dimension Y		
UMS001	11 mm ± 1		
UMS002	11 mm ± 1		
UMS003	11 mm + 2		
Hardware range	Travel		
FAVORIT	16 mm		
TITAN iP	18 mm		
TITAN AF	18 mm		
PORTAL PSK 200 Z Plus	56 mm		

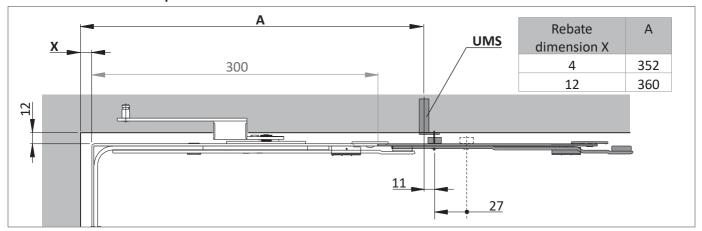


PSK 200-Z comfort Locking monitoring system UMS

PORTAL PSK

11.3.2 Assembly position – Magnetic switch types UMS:

for FFB 1000 - 2000 top horizontal installation

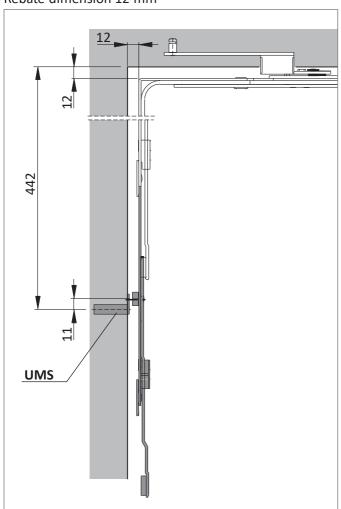


- 1. Release assembly fixation on linkage UE.
- 3. Couple linkage UE with the corner drive.

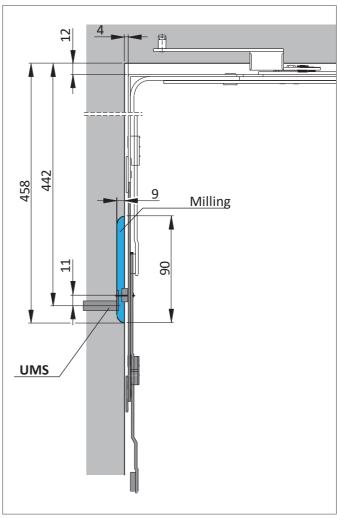
2. Slide magnet bolt 27 mm.

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

Rebate dimension 12 mm



Rebate dimension 4 mm







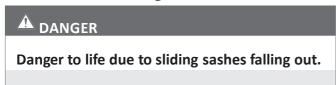
12 Completion of element

Stay arm has not engaged.

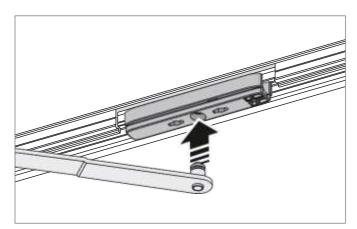
1. Inserting the sliding sash into the frame

- 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)

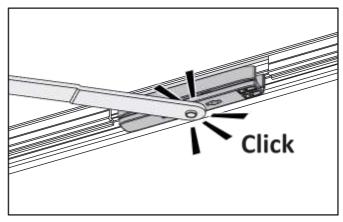
2. Insert the sliding sash and connect with frame



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



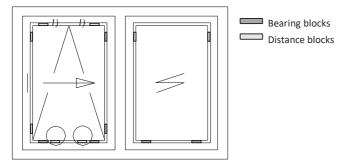
Place stay arms of tilt stay into tilt position. Position the sash on the running rail at an incline and insert the coupling bolt of the stay arms into the slider.



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

3. Notes for block setting the bogie wheels M

• Use elastic distance block¹⁾ (hardness approx. 60-80 Shore), e.g. Universal block from Gluske in the M bogie wheels area.





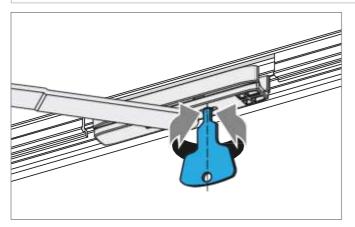


PORTAL PSK

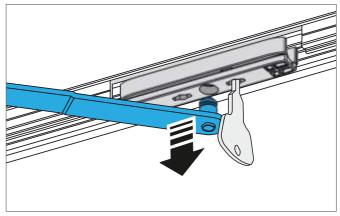
12.4 Releasing and removing the sliding sash from the frame



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.

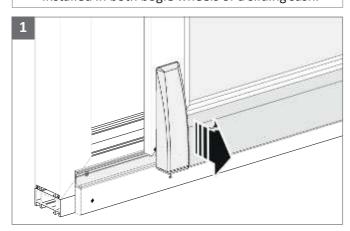
5. Installing the bogie wheels safeguards

A DANGER

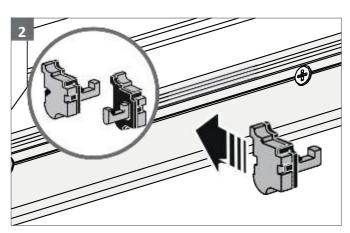
Danger to life due to sliding sashes falling out.

Not mounted bogie wheels safeguards.

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



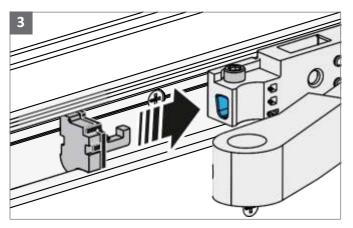
The bogie wheels safeguards can only be installed in a parallel positioned sash.



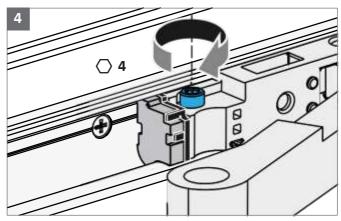
Position the relevant version (RH or LH) of the bogie wheels safeguards in the running rail.



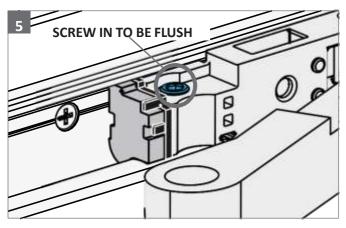




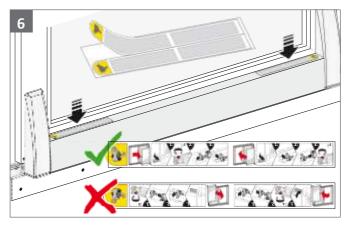
Push bogie wheels safeguards into bogie wheels V and H.



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.

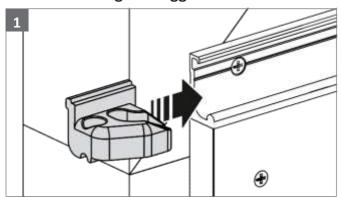


Glue the notes sticker to the protective foil of the cover rail L. Pay attention to correct adjustment of the sticker.

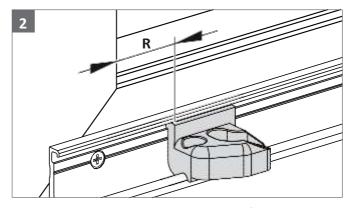
6. Removing the bogie wheels safeguards

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

7. Positioning the trigger



Slide the trigger sideways into the running rail.

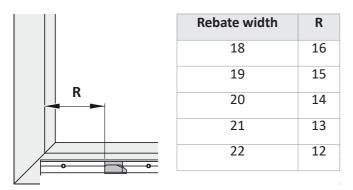


Position the trigger according to the profile.



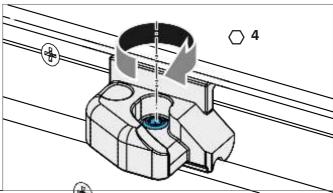


PORTAL PSK



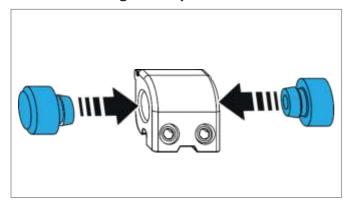
Dimension R is designed to the position of bogie wheels V.

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

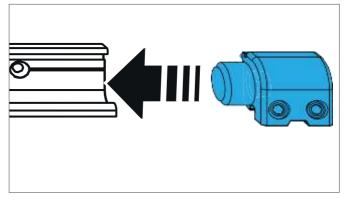


Fix trigger position with head cap screw. Torque max.

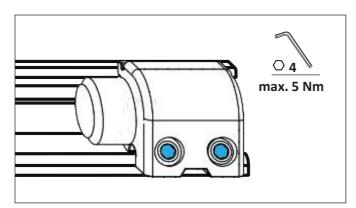
12.8 Positioning the stop



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.





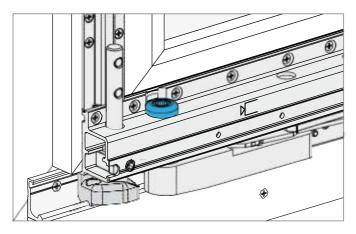
13 Adjustment

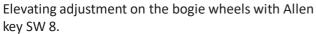
13.1 Elevating adjustment of the bogie wheels

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

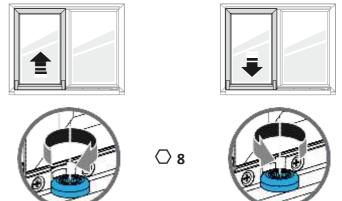


Carry out adjustment following installation of the element in the object. Always adjust both bogie wheels.





Default setting in minimum position (0 mm)





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

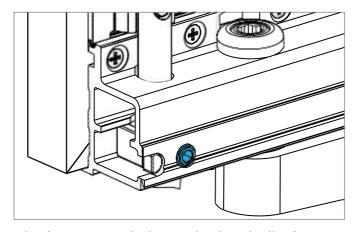
Maximum adjustment: 4 mm

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.

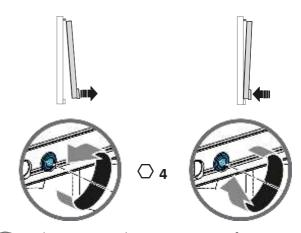


Carry out adjustment following installation of the element in the object. Always adjust both bogie wheels.



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

PORTAL PSK

14 Jigs

	Material description	Tools	Material number
	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	

www.siegenia.com



SIEGENIA brings spaces to life