

Parallel Slide hardware
for Plastic elements with 12 mm air gap

... Product benefits:

- Basic security = Standard
- Double controlled through central lock
- Efficient assembly
- Simple to operate
- Suitable for elements to Scheme A, C, G and K

Size range

Sash rebate width	(mm)	770 to 1600 ¹⁾
Sash rebate height for Scheme A, G & K	(mm)	1000 to 2360
Sash rebate height for Scheme C	(mm)	1690 to 2360
Frame outside width	(mm)	Derive from the sash rebate width depending on the profile system, for Scheme A max. 3460
Sash weight	(kg)	max. 160
Backset for lockable		
Gear set PSK 200-Z PZ-..	(mm)	30, 40, 45 and 50
Handle location, constant	(mm)	490 – 990 ²⁾
Total push out width	(mm)	122

1) For sash rebate width < 944 mm the sash rebate height must not exceed 2.5 times the sash rebate width.

2) By shortening the gear the handle location for Gears OS Size 169 to Size 238 can be moved 100 mm downwards, and the sash rebate height is likewise reduced by 100 mm. This can be compensated for by installing the Size 23 linkage.

The size ranges stated above must never be exceeded.

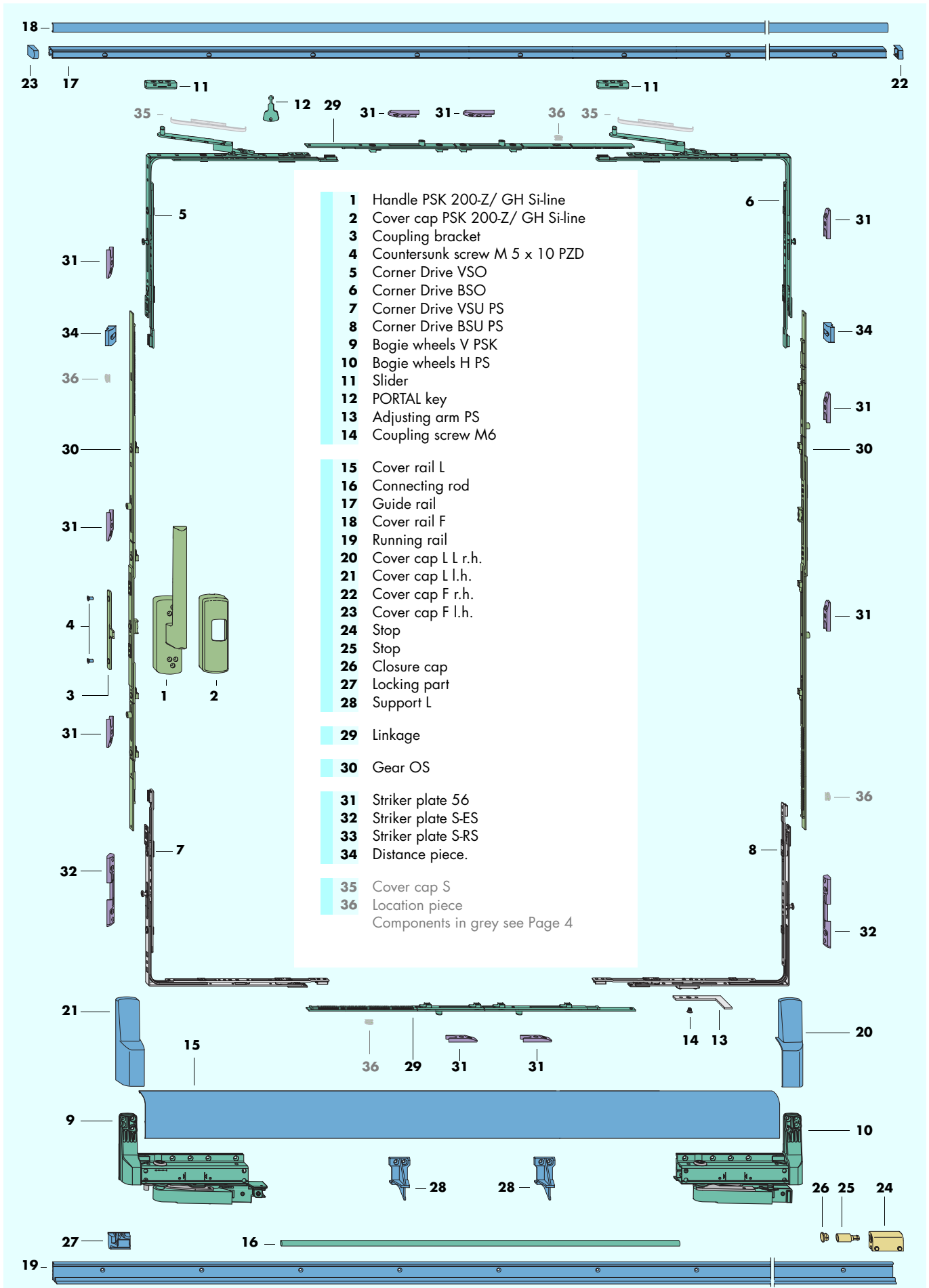
In addition to this the details given by the profile manufacturer or the system owner apply to the SIEGENIA-AUBI PS PORTAL hardware, **especially on possible restrictions** to sash dimensions, sash weight and locking distance.

Where special manufacturing regulations or fabrication guidelines exist, these are to be expressly complied with.

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PS PORTAL Hardware components



PS PORTAL Hardware list

						Material number		
Ref.	Qty.	Material brief description				silver	RAL 9003 white	RAL 8022 brown
generally required	1	1	Handle carton PSK 200/ GH <i>Carton Contents:</i>	Si-line r.h. l.h.		296257 296301	296271 296325	297797 297803
	1	1	Handle PSK 200-Z/ GH Si-line	r.h./l.h.				
	2	1	Cover cap PSK 200-Z/ GH Si-line	r.h./l.h.				
	1		Carton PS S-ES <i>(Standard mushroom-Locking cam)</i>	9 mm Groove pin r.h. l.h.	4		PMKL0071-100010 PMKL0072-100010	
			Carton PS S-ES <i>(Standard mushroom-Locking cam)</i>	13 mm Groove pin r.h. l.h.	4		PMKL0081-100010 PMKL0082-100010	
			Carton PS S-RS <i>(kopibo mushroom-Locking cam)</i>	9 mm Groove pin r.h. l.h.	4		PMKL0111-100010 PMKL0112-100010	
			Carton PS S-RS <i>(kopibo mushroom-Locking cam)</i>	13 mm Groove pin r.h. l.h.	4		PMKL0121-100010 PMKL0122-100010	
	3	1	Coupling bracket	18 or 18/2				
	4	2	Countersunk screw	M 5 x 10 PZD				
	5	1	Corner Drive VSO	r.h./l.h.				
	6	1	Corner Drive BSO	r.h./l.h.				
	7	1	Corner Drive VSU PS	r.h./l.h.				
	8	1	Corner Drive BSU PS	r.h./l.h.or				
	9	1	Bogie wheels V PSK	r.h./l.h. front				
	10	1	Bogie wheels H PS	r.h./l.h. rear				
	1	Bag of accessories PSK PORTAL comprising:				PMZJ0030-000010		
	2	Slider						
	1	PORTAL key						
		Bag of accessories PS PORTAL comprising:				PMZL0040-100010		
		Adjusting arm PS						
		Coupling screw M6						
depends on FFB and RAB	1	Profile set PSK 200/160	<i>Size¹⁾</i>	<i>FFB (in mm)</i>	<i>RAB (in mm)</i>	297582	297599	297612
			Size 87/200	770 to 870	to 2000	297629	297636	297650
	Size 107/240	871 to 1070	2001 to 2400	297667	297674	297698		
	Size 130/286	1071 to 1300	2401 to 2860	297704	297711	297735		
	Size 160/346	1301 to 1600	2861 to 3460	297742	297759	297773		
	Size 200/426	1601 to 2000	3461 to 4260					
		<i>Contents:</i>						
	15	1	Cover rail L					
	16	1	Connecting rod					
	17	1	Guide rail					
	18	1	Cover rail F					
	19	1	Running rail					
		1	Bag - Cover caps PSK			891186	891193	891216
	20	1	Cover cap L	r.h.				
	21	1	Cover cap L	l.h.				
	22	1	Cover cap F	r.h.				
	23	1	Cover cap F	l.h.				
		1	Bag of accessories - Running rail: PSK			721087	721087	891254
24	1	Stop						
25	1	Stop						
26	1	Closure cap						
27	1	Locking part						
28	1...2	Support L						
depends on FFB	29	2	Linkage <i>with standard locking cam</i>	<i>Size</i> 100	<i>FFB (in mm)</i> 770to 1000	1	713914	
				123	1001to1230	1	713921	
				146	1231to1460	2	713938	
				169	1461to1690	2	713945	
				192	1691to1920	2	713952	
				215	1921to2000	2	713969	
			Linkage S-ES <i>Mushroom locking cam</i>	<i>Size</i> 100	<i>FFB (in mm)</i> 770to 1000	1	713839	
				123	1001to1230	1	713846	
				146	1231to1460	2	713853	
				169	1461to1690	2	713860	
				192	1691to1920	2	713877	
				215	1921to2000	2	713884	
			Linkage. S-RS <i>(kopibo mushroom-locking cam)</i>	<i>Size</i> 100	<i>FFB (in mm)</i> 770 to 1000	1	PZKL0270-100010	
				123	1001 to 1230	1	PZKL0280-100010	
				146	1231 to 1460	2	PZKL0290-100010	
	169	1461 to 1690	2	PZKL0300-100010				
	192	1691 to 1920	2	PZKL0320-100010				
	215	1921 to 2000	2	PZKL0330-100010				

1) For exact determination of the necessary Size determine dimensions of FFB and RAB

PS PORTAL Hardware list (continued)

Ref.	Qty.	Material brief description				Material number		
						silver	RAL 9003 white	RAL 8022 brown
dependent on FFH	30	2	Gear OS for standard cams	Size	handle location (in mm)	FFH (in mm)		
				123	490	1000to1230	-	713303
				146	590	1231to1460	1	713297
				169	690	1461to1690	1	713341
				192	990	1691bis1920	2	713815
				215	990	1921bis2150	2	713358
				238	990	2151bis2360	2	713334
		2	Gear OS S-ES mushroom cams	Size	handle location (in mm)	FFH (in mm)		
				146	590	1231bis1460	1	713761
				169	690	1461bis1690	1	713778
				192	990	1691bis1920	2	713785
				215	990	1921bis2150	2	713792
				238	990	2151bis2360	2	713808
		2	Gear OS S-RS (kopibo -mushroom locking cam)	Size	handle location (in mm)	FFH (in mm)		
				146	590	1231 bis 1460	1	PGKL0130-100030
				169	690	1461 bis 1690	1	PGKL0140-100010
				192	990	1691 bis 1920	2	PGKL0150-100010
				215	990	1921 bis 2150	2	PGKL0160-100010
				238	990	2151 bis 2360	2	PGKL0170-100010
abh. v. Profile system	31	6...12	Striker plate 56 for standard cams	A...			see Profile Data Sheet PSK PORTAL 200-Z	
	32		Striker plate S-ES for mushroom cams	A...			see Profile Data sheet PSK PORTAL 200-Z	
	33		Striker plate S-RS (for kopibo mushroom-locking cam)	A....			see Profile Data sheet PSK PORTAL 200-Z	
	34	2	Distance piece. (Contents 10 Qty.)	A....			see Profile Data sheet PSK PORTAL 200-Z	

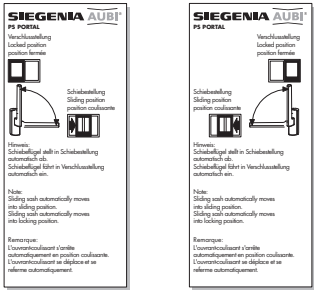
Accessories

Ref.	Qty.	Material brief description				Material number		
						silver	RAL 9003 white	RAL 8022 brown
Accessories	35	0...2	Cover cap S			PKAL0010-025010	PKAL0010-002010	PKAL0010-012010
	No illust	0...1	Handle PSK 200-Z/GH lockable	Si-line r.h. l.h.		296356 296400	296370 296424	298510 298527
			Handle PSK 200-Z/GH Si-line lockable	r.h. l.h.				
			Cover cap PSK 200-Z/GH Si-line	r.h. l.h.				
			Accessories -Handle PSK 200-Z/GH Bag Contents:					
			Coupling bracket	18				
			Countersunk Screw	M 5 x 10 PZD				
	No illust	0...4	Linkage. Linkage. S-ES	Size 23 (for max. FFH with handle location reduced by 100 mm Size 23 plus as additional centre lock)	- 1 1 -		713907 713822	
	No illust	0...1	Linkage.-UE	Size 23 (for electronic lock and magnetic- switch opening monitor - see System Security price list 2000			716519	
	36	4	Location piece				702543	
	No illust	0...1	Combi-jig EB 643-3/-7	Illustration and use see Page 17			On enquiry	

Important notes

- Please consult our Product Information „Sliding fittings for window and door sashes“.
- For SIEGENIA-AUBI PS PORTAL hardware the size ranges specified on Page 1 apply.
In addition to this the details given by the profile manufacturer or the system owner, **particularly** on possible limitations to sash dimensions, sash weight and the spacing of locking elements also apply.
Where specific manufacturing regulations or working guidelines exist, these are to be expressly observed.
- It is possible in unfavourable circumstances with ParallelSlide swing out elements that due to excessive strain the sash can jump out of its guide, drop out and potentially cause serious injuries.
If due to special circumstances (use in schools, nurseries etc.) excessive strain can be expected on Parallel Slide elements due to forcible closing, this must be prevented by suitable by suitable measures.
- e.g.: - by offsetting the stops to reduce the opening width or
- by fitting a lockable handle to prevent unauthorised use.
In the event of doubt please consult your SIEGENIA-AUBI representative.
- The hardware components described in these Assembly Instructions made of steel have been zinc electroplated and then treated by a special process.
They must not be used:
 - in damp rooms
 - in environments containing aggressive, corrosion promoting air
 - in environments with air containing salt.

- In such cases please consult your SIEGENIA-AUBI representative.
- We can accept no liability in respect of any damages or defects arising where the hardware assembly incorporates products not made by SIEGENIA-AUBI
 - Fit all hardware components properly as described on Pages 11 to 20. **Do not overtighten screws!**
 - The surface treatment of Parallel slide elements must be performed **before** the hardware is assembled. Post treatment could adversely affect the effective functioning of the components, in which case we accept no liability for such consequences
 - Please follow the standard techniques for packing and wedging the sealed glazing units within the sash/frame.
 - Do not use any acid hardening sealants, as these can lead to corrosion of the hardware components.
 - Keep the running lip of the running rail and all rebates free from dirt and debris - especially residues of cement or plaster.
Avoid the direct effect of moisture on the hardware and contact of the hardware with cleaning agents.
 - Affix the operating sticker (Slide direction left or right) clearly visible on the installed Parallel Slide tilt sash.
The operating sticker can be found in the „PS PORTAL Bogie wheels carton“ .



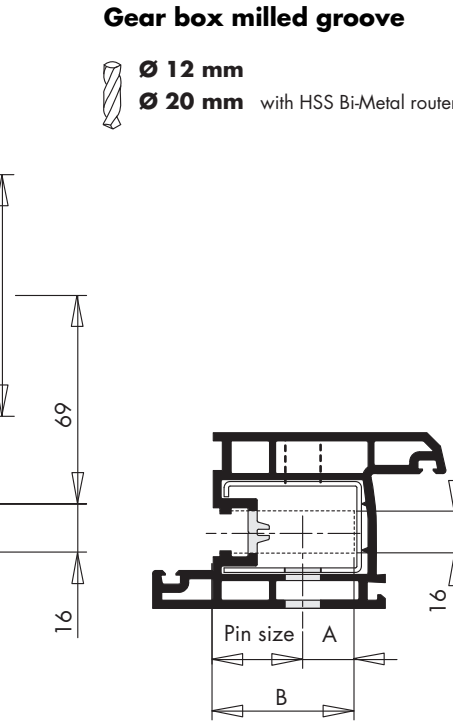
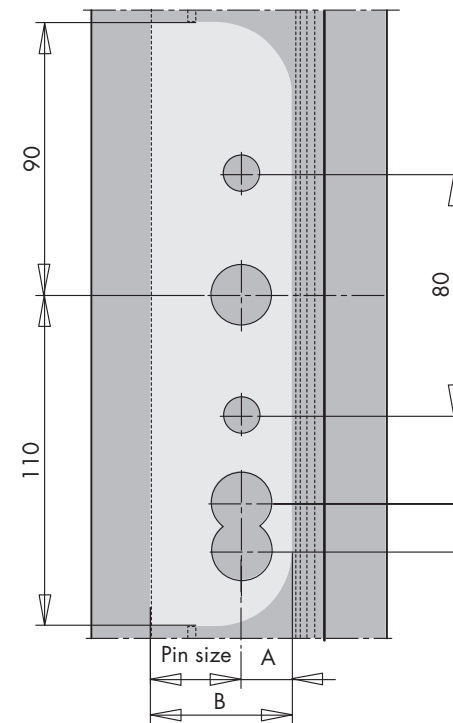
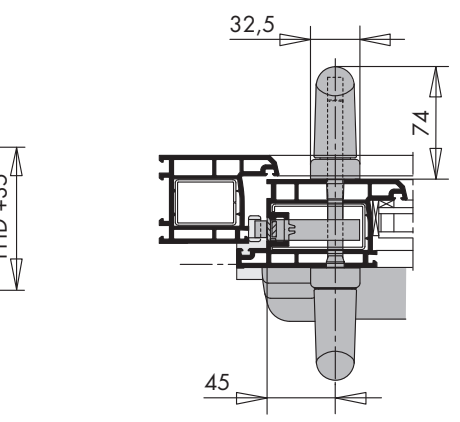
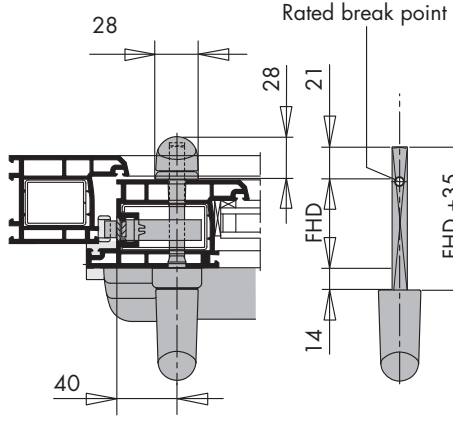
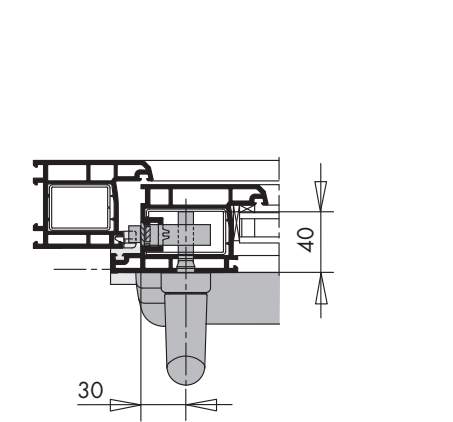
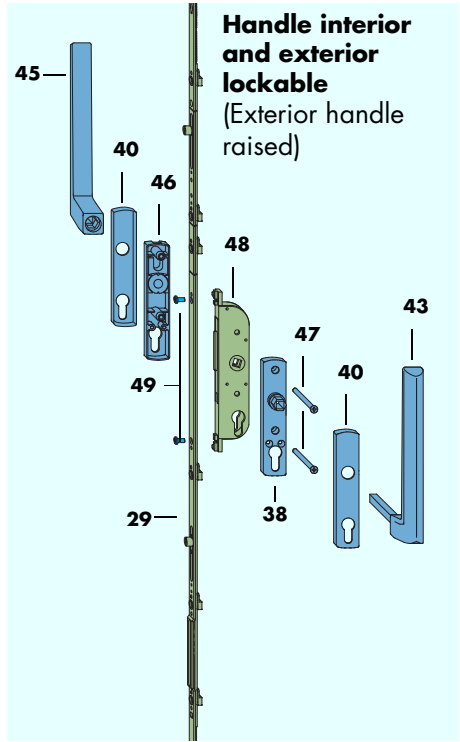
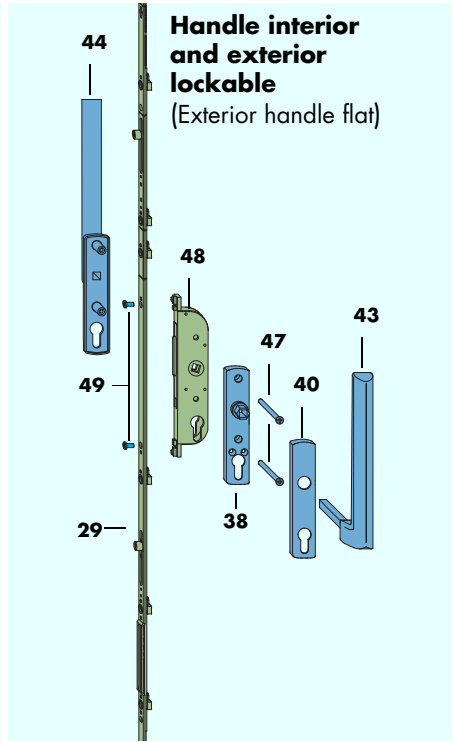
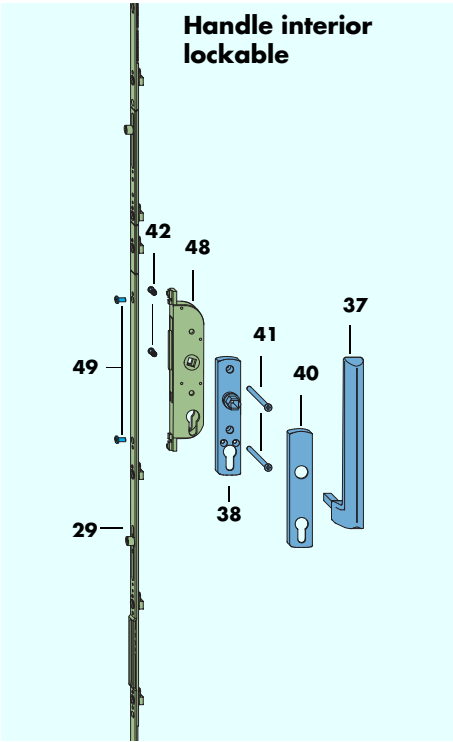
Liability exclusions

- We accept no liability in respect of any damages or malfunctions caused by the hardware or the Parallel Slide Swing out elements fitted with them, as a result of incorrect or inappropriate specifications or other information provided by the customer, failure to follow these assembly instructions or the use of force on the hardware
- We accept no liability in respect of any damages to or malfunctions of the hardware or the Parallel Slide Swing out elements fitted with them, if:
- the assembly was not carried out in compliance with our Assembly Instructions and the generally recognised rules of the Technology, the hardware has been impaired by the use of force, by misuse or by external influences, unauthorised alterations have been made to the hardware, unapproved hardware components from other ranges or other manufacturers are also used; this also refers to unapproved combinations of hardware components with different surface treatment,
 - the hardware has not been serviced at least once a year in line with our PS PORTAL Maintenance Instructions,
 - the end user has not been informed about our Maintenance Instructions and instructed to suit.
 - we expressly point out that the hardware components are to be cleaned regularly; in particular the guide rail and running rail must be kept clean for trouble-free use.

Abbreviations

The following abbreviations are used in these Assembly Instructions:

BSO	Hinge side, top	FFH	Sash rebate height	L	Bogie wheels	RAB	Frame outside width	V	front
BSU	Hinge side, bottom	FH	Sash height	M	Centre	RAH	Frame outside height	VSO	Locking side top
EB	Drill jig (Combi-jig)	FHD	Sash wood thickness	MV	Centre lock	RFB	Frame rebate width	VSU	Locking side, bottom
F	Guiding rail	G	Handle location	OKFF	Upper edge of finished floor	S	Heavy duty version	ZV	Central lock
FB	Sash width	GH	Gear handle	OS	Without cylinder	SES	Steel increased security		
FFB	Sash rebate width	H	rear	PZ	Profile cylinder	SW	Across flats (spanner)		



Dimensions for gear			
	Backset	A	B
PZ-30	30	16	46
PZ-40	40	16	56
PZ-45	45	16	61
PZ-50	50	16	66

PS PORTAL Gear set PSK 200-Z PZ Hardware list

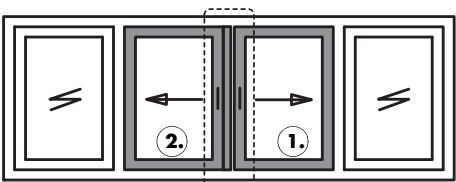
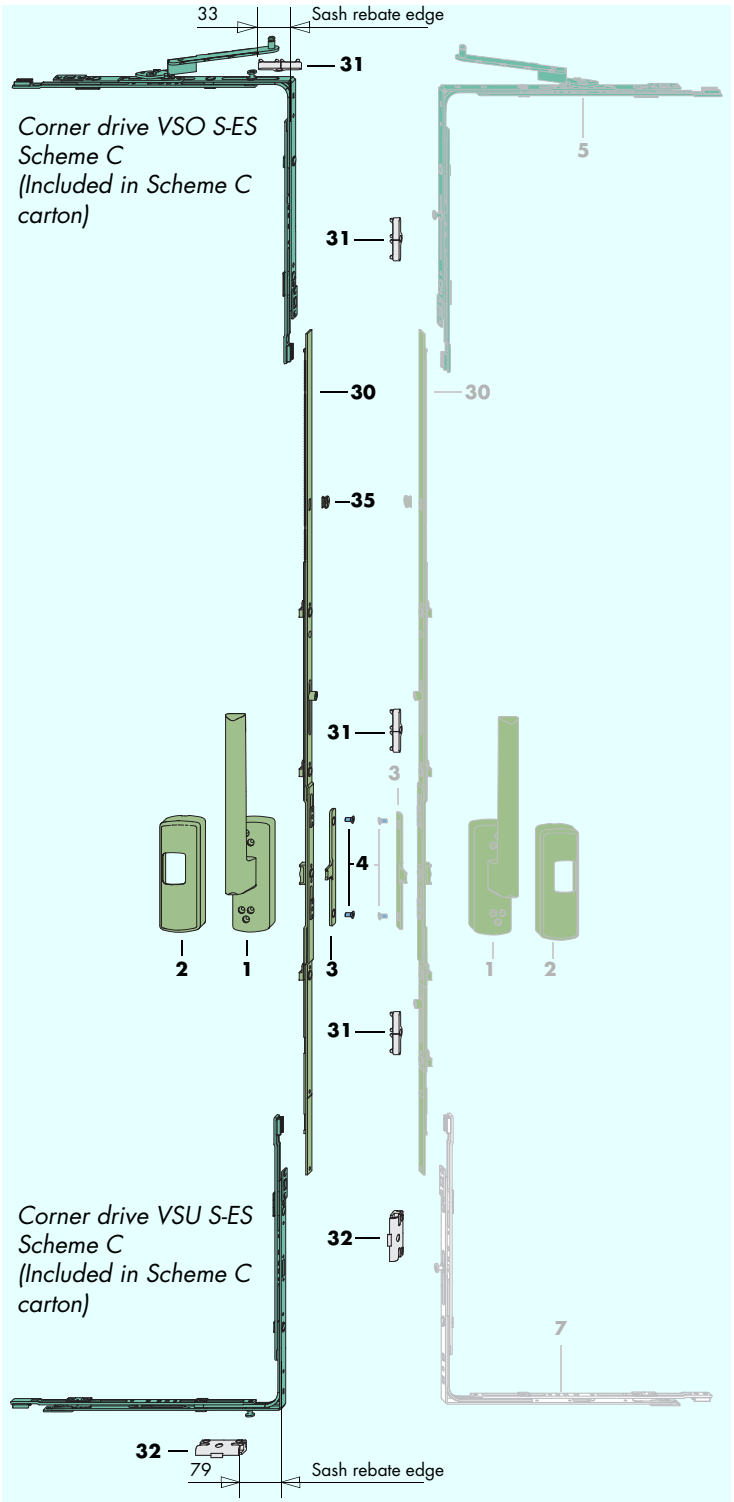
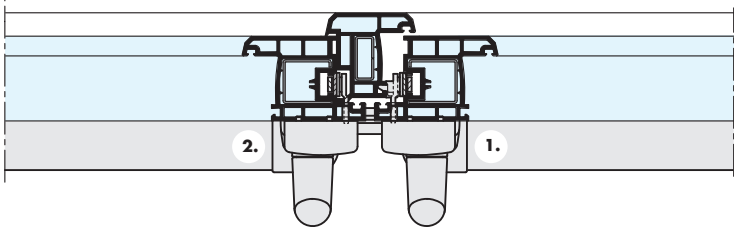
Components from hardware list on Page 3 and 4 are needed for the complete set .

Ref.	Qty.	Material brief description						Material number		
								silver	RAL 9003 white	RAL 8022 brown
interior lockable		0...1	Carton Handle, Si-line HSK 250		interior			PMHC0010-5G0010	PMHC0010-502010	PMHC0010-512010
	37	1	Handle, Si-line HSK 250 PZ, interior							
	38	1	Rose, Si-line, interior							
		— ¹⁾	Cover cap Si-line HS 300		without PZ-punched hole					
		— ¹⁾	Sliding grip							
	40	1	Cover cap Si-line HS 300 PZ		for Handle, Si-line HSK 250			PKHB0040-5G0010	PKHB0040-502010	PKHB0040-512010
	41	2	Countersunk screw M5x40					211076		
	42	2	Sleeve nut		is inserted in drilled hole on the gear box			800287		
interior and exterior lockable		0...1	Carton, Handle, Si-line HSK 250/PSK 200-Z		PZ, interior (only in conjunction with Handle, Si-line PZ exterior raised or exterior flat)			PHIC0020-5G0010	PMHC0020-502010	PMHC0020-512010
	43	1	Handle, Si-line HSK 250 PZ, interior							
	38		Rose, Si-line, interior							
	40	1	Cover cap Si-line PZ HS 250							
	44	0...1	Handle, Si-line PSK 200-Z		PZ exterior flat			PHAL0010-5G0010	PHAL0010-502010	PHAL0010-512010
		0...1	Carton Handle, Si-line HS 250		PZ exterior raised (only in conjunction with Handle, Si-line HSK-250/PSK 200-Z PZ, interior)			PMHB0040-5G0010	PMHB0040-502010	PMHB0040-512010
			comprising:							
	45	1	Handle, Si-line HSK 250 PZ exterior							
	46		Rose, Si-line exterior							
	40	1	Cover cap Si-line PZ HS 250							
	47	2	Countersunk screw M5x65 Countersunk screw M5x75 Countersunk screw M5x85		Sash profile thickness 55 - 64 mm Sash profile thickness 65 - 74 mm Sash profile thickness 75 - 85 mm			KDNA0080-100010 KDNA0100-100010 KDNA0120-100010		
Gear combinations		1	Gear Set PSK 200-Z		PZ-30 PZ-40 PZ-45 PZ-50				716335 716342 716359 720691	
			comprising:							
	48	1	Gear box	PZ-30 PZ-40 PZ-45 PZ-50						
	49	2	Screw M5 x 10		DIN 7500					
		1	Linkage with standard locking cam		Size 169/2 192 215 238	Handle location (in mm) 690 990 990 990	FFH (in mm) 1461 to 1690 1691 to 1920 1921 to 2150 2151 to 2360	1 2 2 2	PZKL0240-100010 713952 713969 713976	
			Linkage S-ES mushroom locking cam		Size 192 215 238	Handle location (in mm) 990 990 990	FFH (in mm) 1691 to 1920 1921 to 2150 2151 to 2360	2 2 2	713877 713884 713891	
	29		Linkage S-RS (Convenience mushroom locking cam		Size 169/2 192 215 238	Handle location (in mm) 690 990 990 990	FFH (in mm) 1461 to 1690 1691 to 1920 1921 to 2150 2151 to 2360	1 2 2 2	PZKL0310-100010 PZKL0320-100010 PZKL0330-100010 PZKL0340-100010	

1) Actual requirement; Delivery contains unneeded parts

Schema C Variante 1

mit aufgeschraubtem Stulpprofil und 2 Getriebehebeln PSK 200-Z



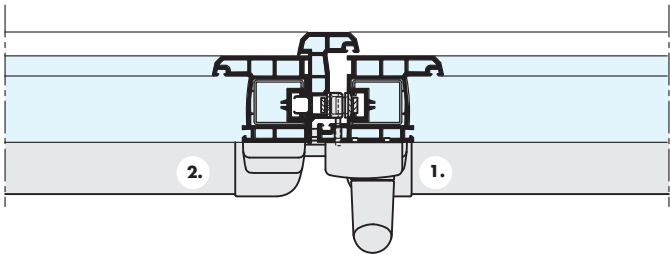
2 Sliding sash / 2 Fixed sash

- Note:
- First and second sashes must be suitable identified to avoid any operating errors.
- The sliding sashes must only be operated in the order stated below!
- Opening: first first sash **1.**
then second sash **2.**
- Closing: first second sash **2.**
then first sash **1.**

PS PORTAL Scheme C Variant 2

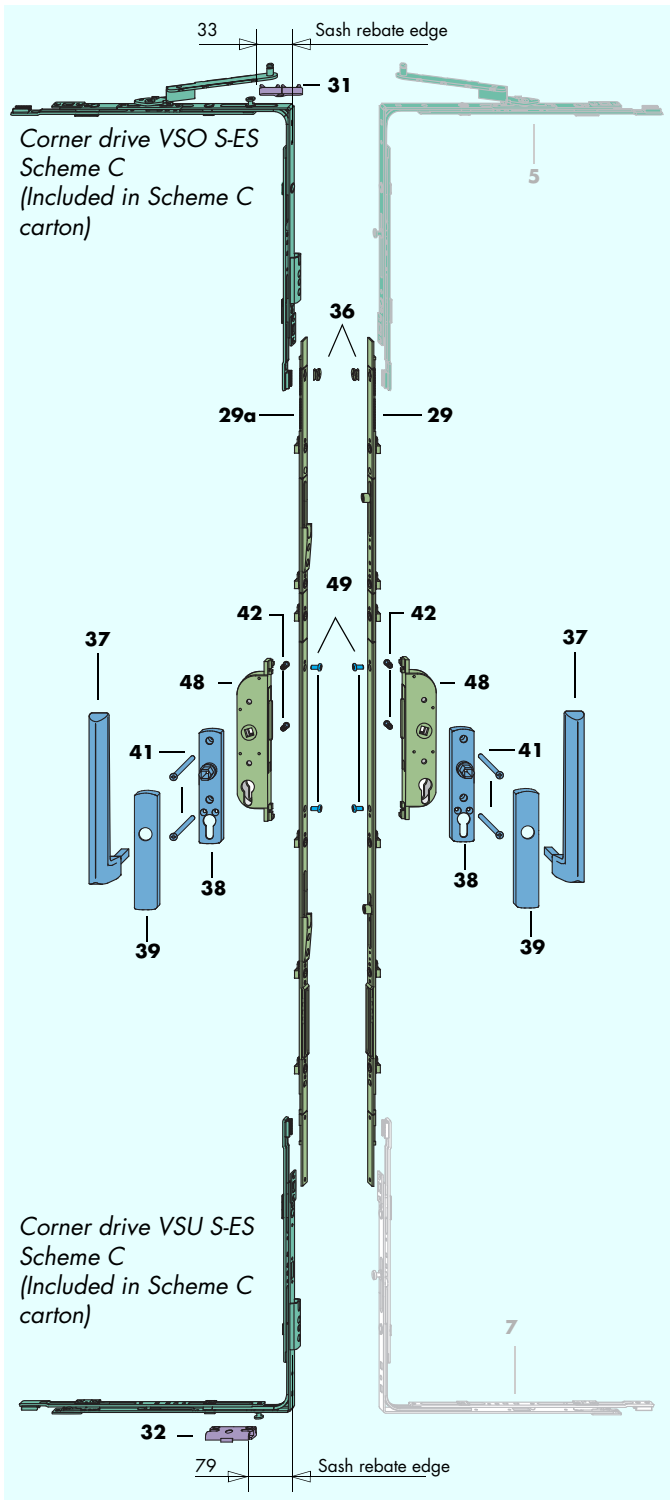
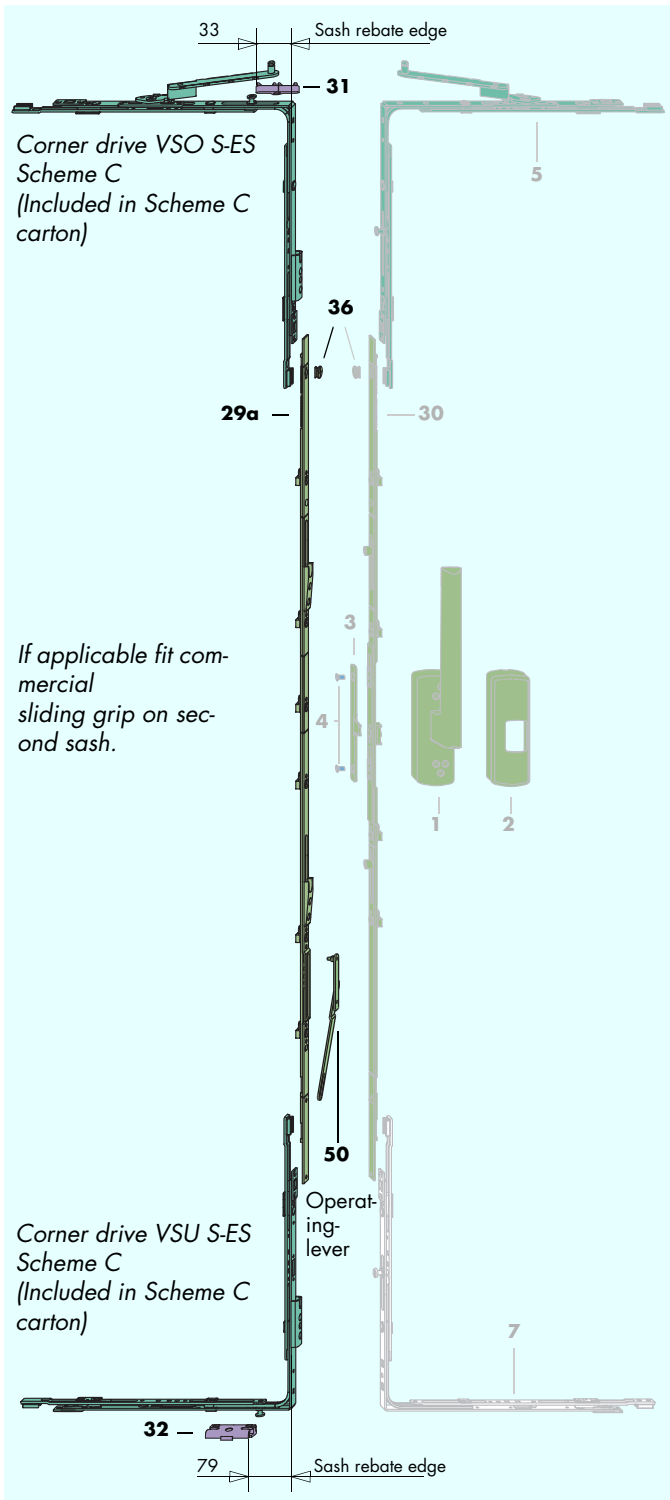
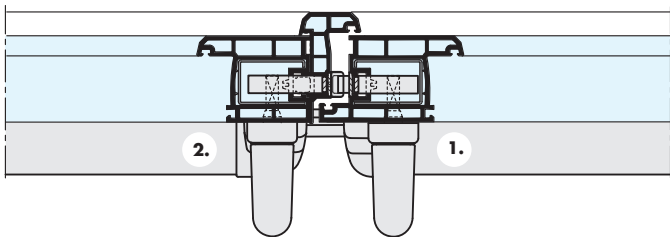
Scheme C Variant 2a

with screwed on slave profile and
operating handle in the rebate



Scheme C Variant 2b

with screwed on slave profile
Gear Set PZ-30, PZ-40, PZ-45 or PZ-50
in the first- and second sash

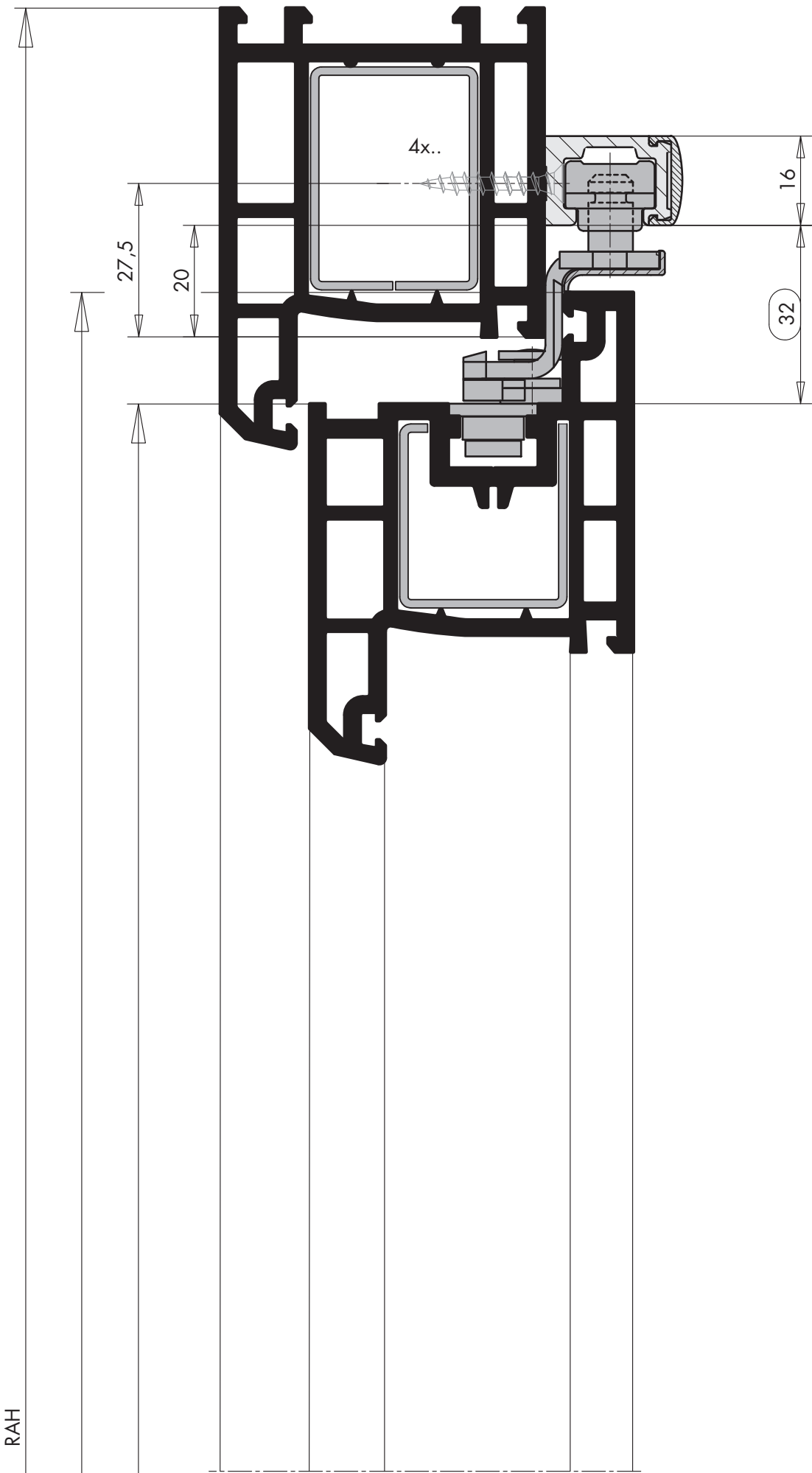


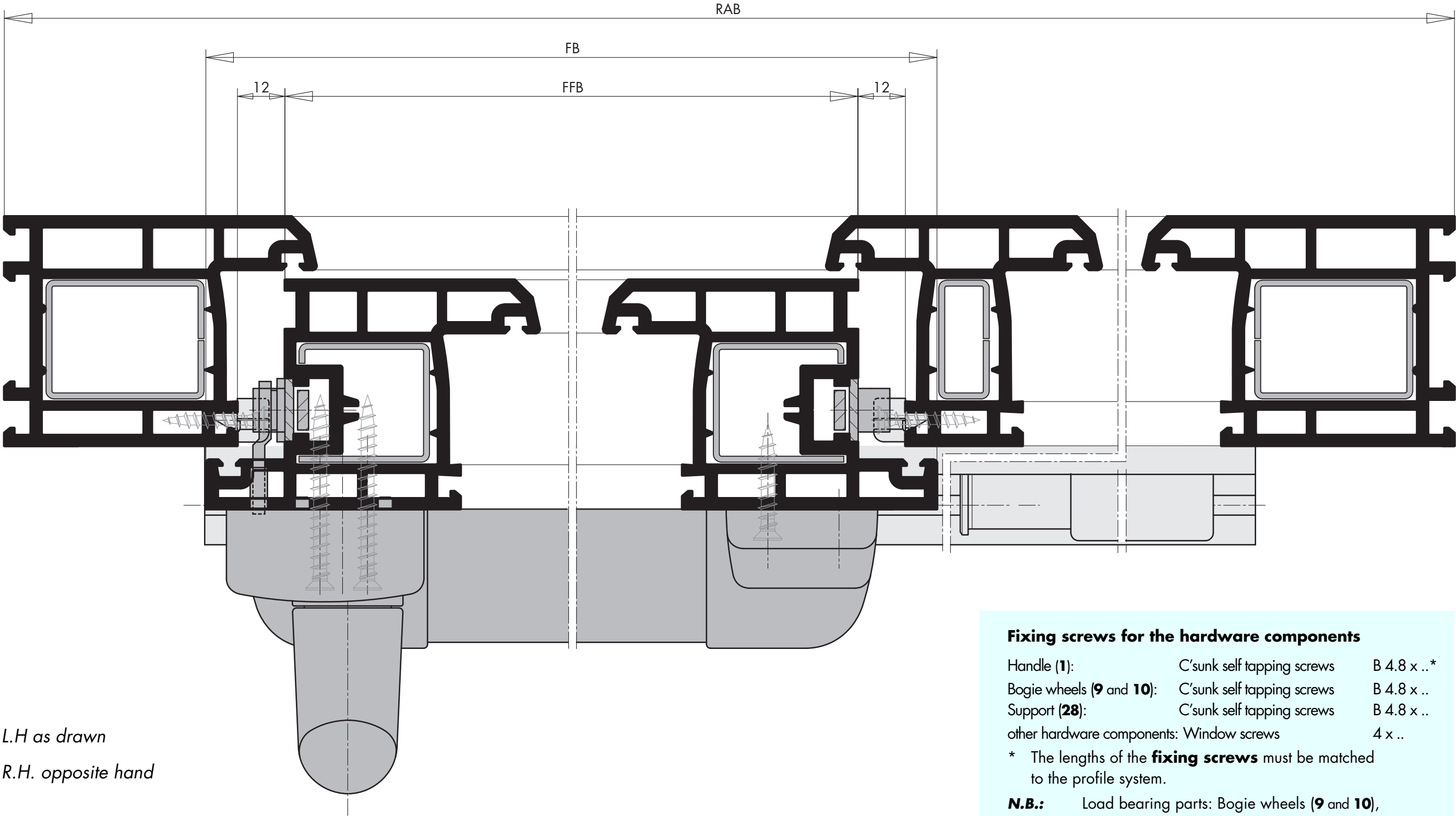
PS PORTAL Hardware List Scheme C

Ref.	Qty Variant			Material brief description				Material number			
	1	2a	2b					silver	RAL 9003 white	RAL 8022 brown	
1, 2	2	1	–	Handle carton PSK 200-Z / Si-line Contents: See Page 3	r.h. l.h.			296257 296301	296271 296325	297797 297803	
50	–	1	–	Operating handle					PHZL0010-100010		
37..38	–	–	2	Handle Carton Si-line HSK-250				PMHC0010-524010	PMHC0010-502010	PMHC0010-512010	
42	–	–	4	Sleeve nut	is fitted in drilled hole on the gear box				800287		
41	–	–	4	Countersunk screw M5x40					211076		
generally required	3..14	1	1	Carton PS S-ES (Standard mushroom locking cam)	9 mm Groove pin r.h. l.h.	4			PMKL0071-100010 PMKL0072-100010		
				Carton PS S-ES (Standard mushroom locking cam)	13 mm Groove pin r.h. l.h.	4			PMKL0081-100010 PMKL0082-100010		
				Carton PS S-RS (Convenience mushroom locking cam)	9 mm Groove pin r.h. l.h.	4			PMKL0111-100010 PMKL0112-100010		
				Carton PS S-RS (Convenience mushroom locking cam)	13 mm Groove pin r.h. l.h.	4			PMKL0121-100010 PMKL0122-100010		
	3a.. 14a	1	1	Carton PS ... S-ES Scheme C (Standard mushroom locking cam)	9 mm Groove pin r.h. l.h.				PMKL0091-100010 PMKL0092-100010		
				Carton PS ... S-ES Scheme C (Standard mushroom locking cam)	13 mm Groove pin r.h. l.h.				PMKL0101-100010 PMKL0102-100010		
				Carton PS ... S-RS Scheme C (Standard mushroom locking cam)	9 mm Groove pin r.h. l.h.				PMKL0131-100010 PMKL0132-100010		
				Carton PS ... S-RS Scheme C (Standard mushroom locking cam)	13 mm Groove pin r.h. l.h.				PMKL0141-100010 PMKL0142-100010		
depends on FFB & RAB	15..28	2 ¹⁾	2 ¹⁾	Profile set PSK 200/160 Contents: See Page 3	Size ²⁾ 87/200 107/240 130/286 160/346 200/426	FFB (in mm) 770 to 870 871 to 1070 1071 to 1300 1301 to 1600 1601 to 1920	RAB (in mm) to 2000 2001 to 2400 2401 to 2860 2861 to 3460 3461 to 4260	297582 297629 297667 297704 297742	297599 297636 297674 297711 297759	297612 297650 297698 297735 297773	
depends on FFB	29	4	4	4	Linkage (with standard locking cam) (Linkages in SES Version See Page 4)	Size 100 123 146 169 192 215	FFB (in mm) 770 to 1000 1001 to 1230 1231 to 1460 1461 to 1690 1691 to 1920 1921 to 2000		1 1 2 2 2 2	713914 713921 713938 713945 713952 713969	
depends on FFH	30	4	3	–	Gear OS (with standard locking cam)	Size 169 192 215 238	Handle location (in mm) 690 990 990 990	FFH (in mm) 1460 to 1690 1691 to 1920 1921 to 2150 2151 to 2360	1 2 2 2	713341 713815 713358 713358	
	29	–	–	3	Linkage (Striker plates only required for 2 linkages)	Size 169/2 192 215 238	Handle location (in mm) 690 990 990 990	FFH (in mm) 1460 to 1690 1690 to 1920 1921 to 2150 2151 to 2360	1 2 2 2	PLKL0240-100010 713952 713969 713976	
	29a	–	1	1	Linkage Scheme C	Size 169/2 192 215 238	Handle location (in mm) 690 990 990 990	FFH (in mm) 1460 to 1690 1690 to 1920 1921 to 2150 2151 to 2360		PZKL0250-100010 716366 716373 716380	
		–	–	2	Gear Set PSK 200-Z comprising: Gear box	PZ-30 PZ-40 PZ-45 PZ-50				716335 716342 716359 720691	
	48	–	–	2							
	49	–	–	4	Screw 5 x 10	DIN 7500					
depends on Profile system	31	18..22 14..18	14..18	Striker plate 56 (for standard locking cam)	A...			See Profile data sheet PSK PORTAL 200-Z			
	Striker plate S-ES (for mushroom locking cam)			A...			See Profile data sheet PSK PORTAL 200-Z				
	Striker plate S-RS (for Convenience mushroom locking cam)			A....			See Profile data sheet PSK PORTAL 200-Z				
	Distance piece (Contents 10 off)			A....			See Profile data sheet PSK PORTAL 200-Z				

1) Symmetrical build up, parting point must lie between the sliding positions
2) For precise determination of the required size, determine the dimensions of FFB **and** RAB

PS PORTAL *Vertical section, top*





Fixing screws for the hardware components

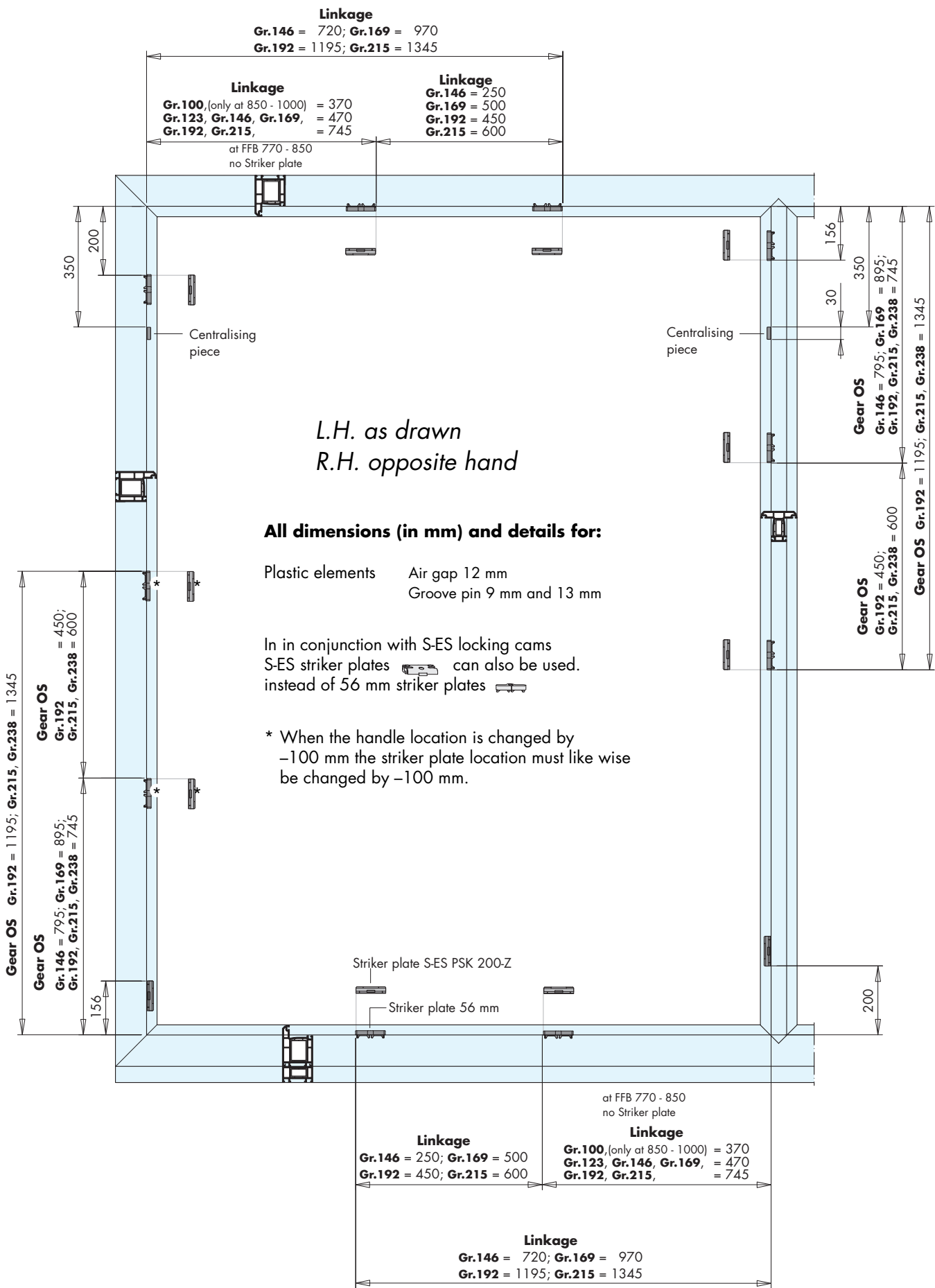
Handle (1):	C'sunk self tapping screws	B 4.8 x ..*
Bogie wheels (9 and 10):	C'sunk self tapping screws	B 4.8 x ..
Support (28):	C'sunk self tapping screws	B 4.8 x ..
other hardware components:	Window screws	4 x ..

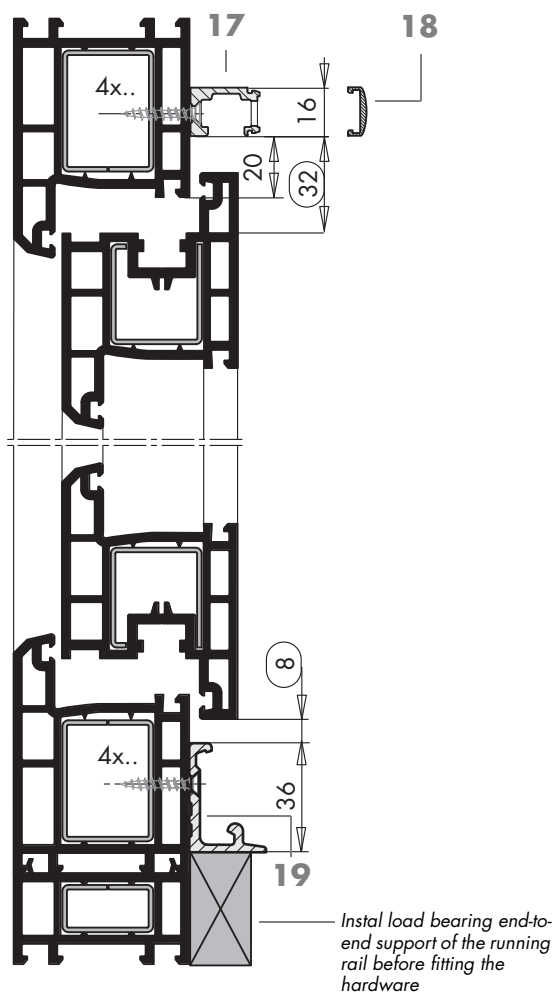
* The lengths of the **fixing screws** must be matched to the profile system.

N.B.: Load bearing parts: Bogie wheels (9 and 10), Guide rail (17) and Running rail (19) must each be fixed in the reinforcement profile!

Window screws, Steel transparent zinc coated (not in delivery spec.)

PS PORTAL *Frame parts dimensional details*





Assembly of running and guide rail

- A** Cut Guide Rail(17) and Running Rail (19) to length.
- B** Position and fix both parts in accordance with the dimensions alongside.
- C** Cut Cover Rail F (18) to length and clip on.
- D** Support the Running Rail (19) end to end to bear the load (see also Page 16).

- E** Position locking part (27) and screw tight with 4 mm A/F hexagon key (Torque 4 - 4.5 Nm).

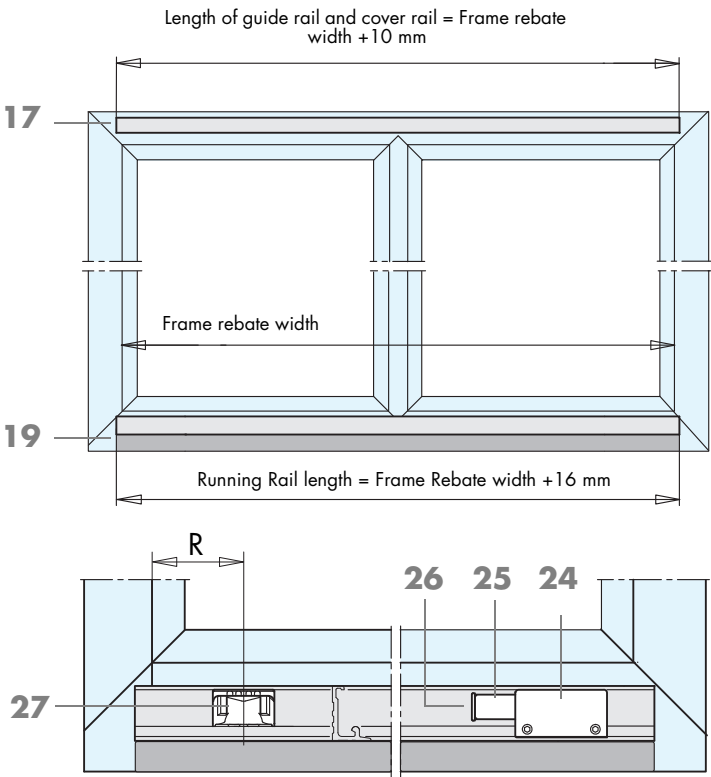
Over rebate width	Dimension R ¹⁾
18	59
19	58
20	57
21	56
22	55

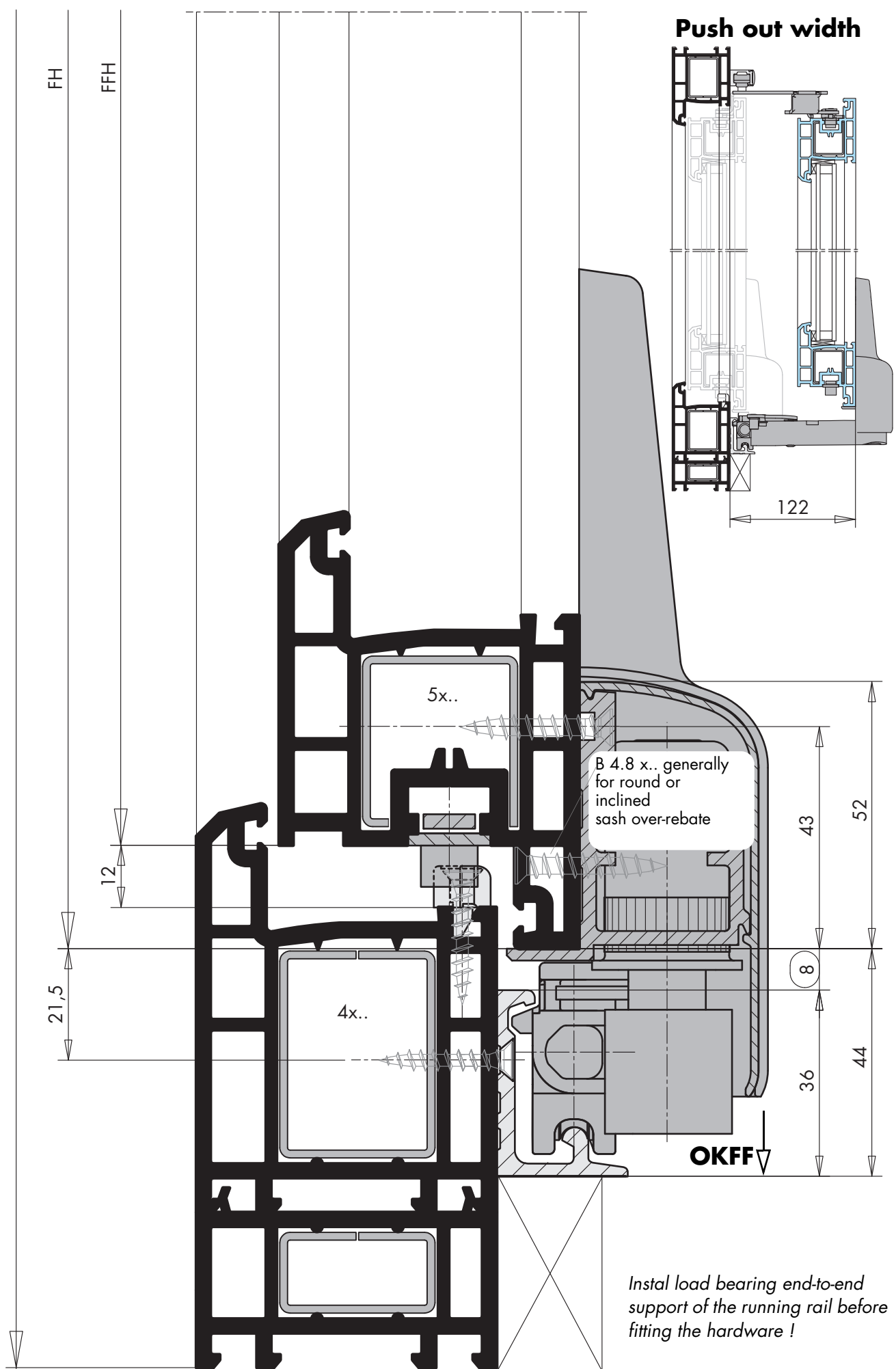
1) N.B. : If changing dimension 17 on Page19 dimension R changes to suit.

- F** Push Stop(24) and Closure Cap(26) into Stop block (24) depending on the siding direction left or Right.
- G** Insert Stop block (24) into Running Rail (19) and screw on lightly.

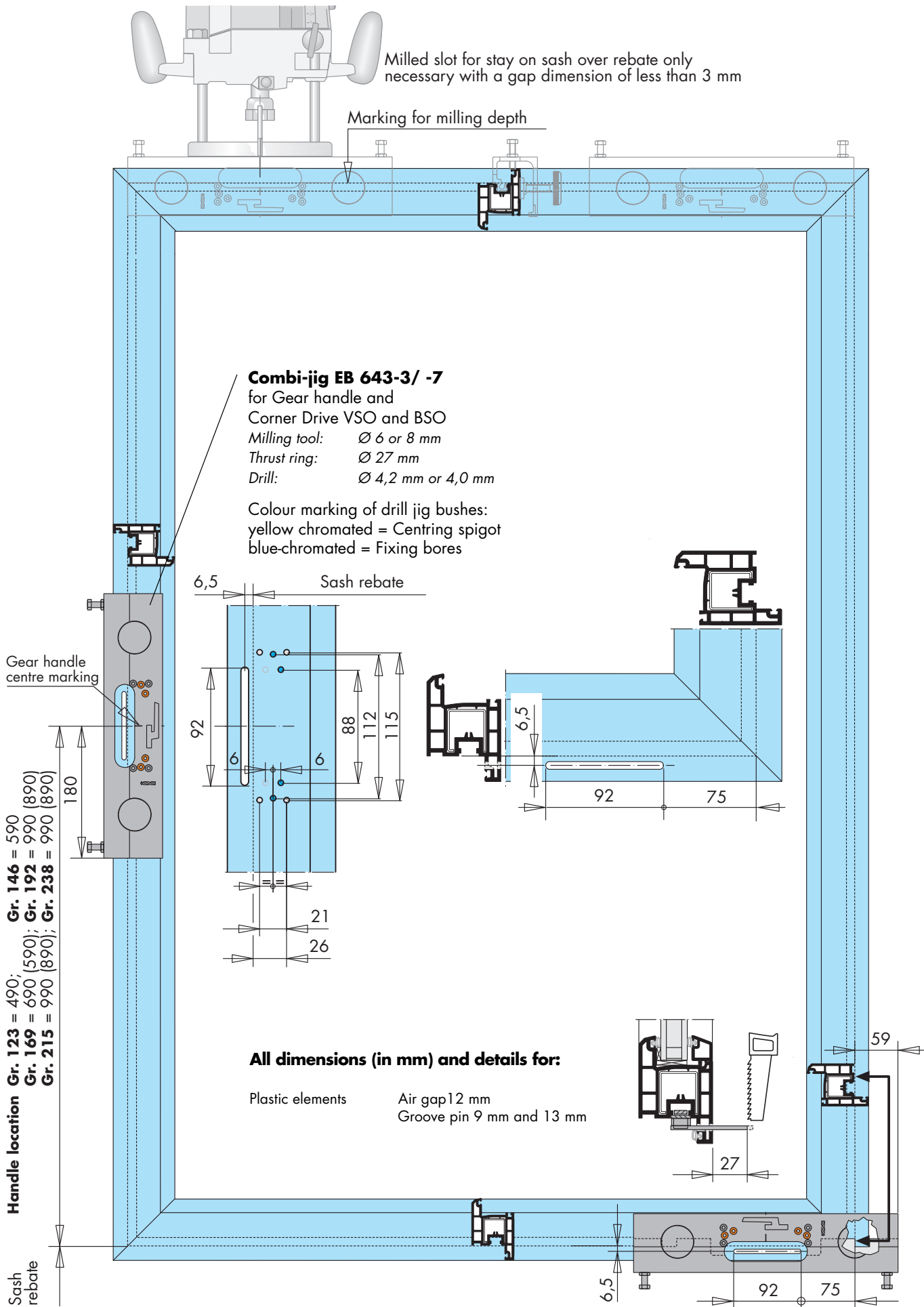
Note: Do not screw on Stop Block (24) tightly until after inserting the sliding sash (see Page 20).

Dimensional data for 8 mm sash overlap the frame corresponds to „flush with sash outer edge“.





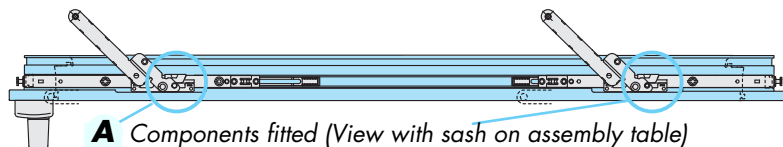
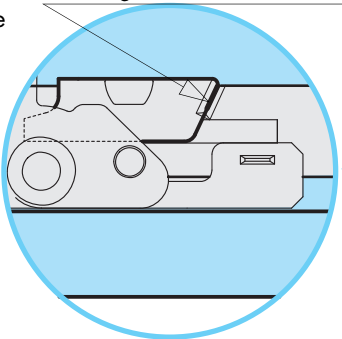
PS PORTAL Preparation of the sash frame



PS PORTAL Sash Frame: Fitting centre lock

When coupling the linkage (29) ensure the parallel setting of the two stays!! See marking on slave rail.

Marking on slave rail



A Components fitted (View with sash on assembly table)

Locking position



Sliding position

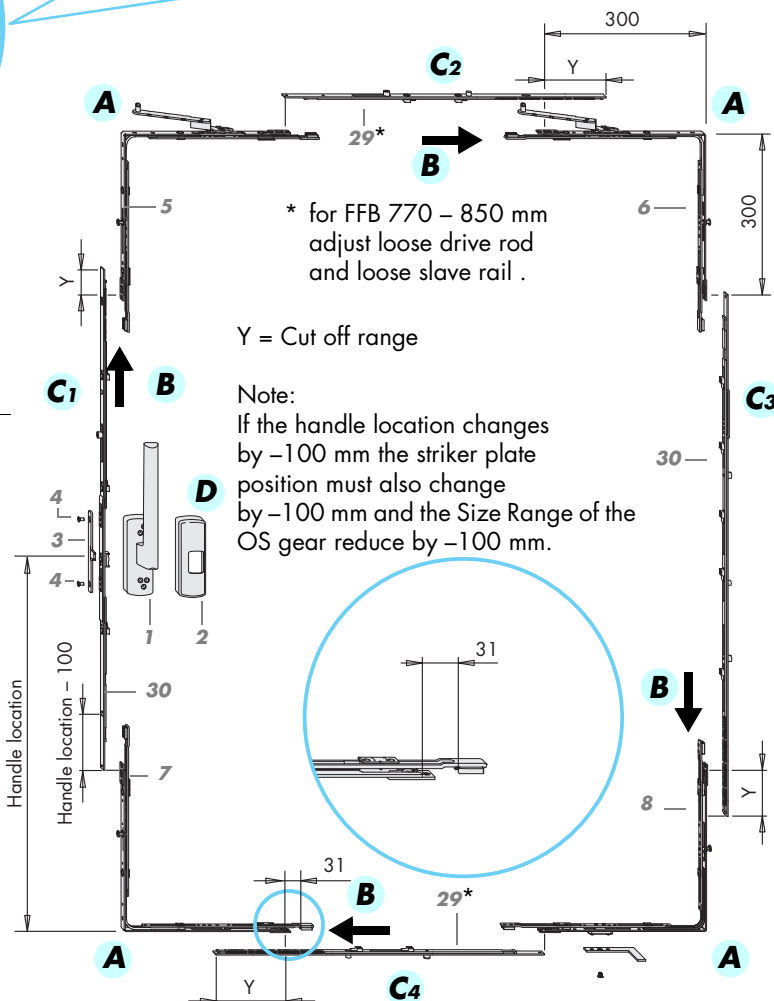
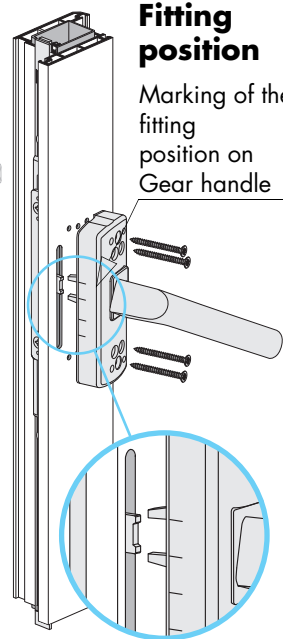


Fitting position



Fitting position

Marking of the fitting position on Gear handle



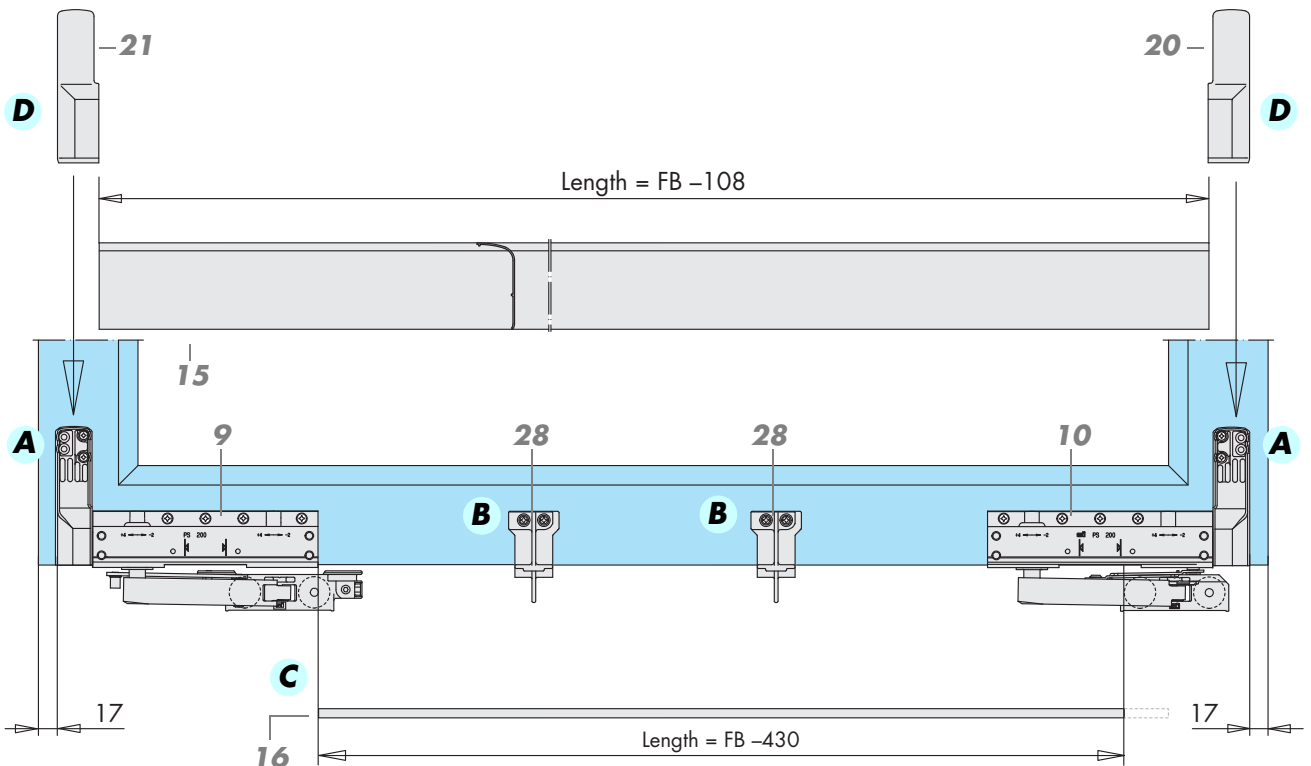
Fitting the centre lock on the sash frame

- A** Fix adjusting arm (13) on the BSU corner drive (8) with coupling screw (14).
Insert corner drives VSO (5), BSO (6), VSU (7) and BSU (8) in the correct position in the fitting groove and screw on.
Disengage the seal in the area of the stay arms.
- B** Push each of the drive rods of the corner drives into the fitting position (up to the stop) (See arrow, →).
- C** Insert the gear OS (30) and also the linkages* (29) in the fitting groove, mark off, cut to length at one end and fit in the following order.
Start with gear OS (30) (C1) and couple linkage (29) (C2) at the top so that the stay arms of VSO (5) and BSO (6) tighten in parallel.
On the stays observe the marking on the slave rail (See illustration).
Then insert gear OS (30) (C3) and linkage (29) (C4) crossways at the bottom and screw on.
- D** Engage coupling bracket (3) on gear OS (30) with the spigot and screw on with M5 x 10 (4) countersunk screws . Insert Handle PSK 200-Z/GH SiLine (1) in fitting position (See illustration) and screw on with four 5x50 screws. Bring Handle PSK 200-Z/GH SiLine (1) into the locking position, to shear off the assembly fixing of the long components. Fit cover cap PSK 200-Z/GH SiLine (2).
Note: For fixing screws see Page 13.

Fitting the bogie wheels

- A** Screw on bogie wheels V (**9**) front and bogie wheels H (**10**) rear tightly.
With a round or inclined sash over-rebate fit an extra fixing screw to all bogie wheels.
(See illustration, Page 16)
- B** Centre both supports (**28**) for Cover Rail L (**15**) and screw on.
- C** Attach connecting rod (**16**) to bogie wheels V (**9**), mark off at the marking on the bogie wheels H (**10**) and cut to length.
Insert connecting rod (**16**) in bogie wheels H (**10**) and clamp tightly with socket head screw.
(Torque from 10 - 11 Nm).
Use 4 mm A/F hexagon key for this.
Insert connecting rod (**16**) in bogie wheels V (**9**).
Fix bogie wheels H (**10**) in the locking position. (hold firmly)
Maintain the parallel position of the bogie wheels V and H (**9** and **10**).
Clamp connecting rod (**16**) tightly in the bogie wheels V (**9**), also with a socket head screw.
(Torque from 10 - 11 Nm).
- D** After inserting the sash frame in the window frame (See Page 20) engage the cover rail (**15**) and push on cover caps L (**20** and **21**).

Note: For fixing screws see Page 13.

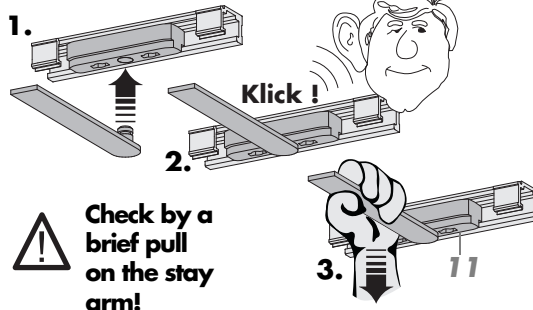


Inserting the sliding sash

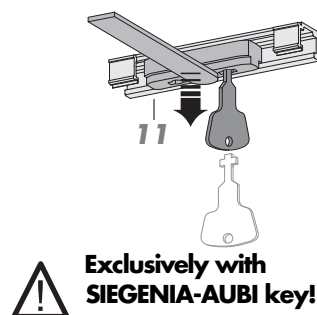
- A** Push both sliders (11) into Guide Rail (17) and insert cover caps F (22 and 23) at the side.
- B** Put the handle in the sliding position (see Page 18). Place the sash frame at an angle on the running rail (19) and engage the coupling bolts of the stay arms in sliders (11). Check the engaged coupling bolt by a brief pull on the stay arm!
- C** Secure the stop block (24). For this push the sash into the desired end position and screw on the stop block (24) tightly with a torque of 4 - 4.5 Nm.
- D** Check the function of all hardware components. If required use the adjustment facilities. (4 mm A/F)
- E** Fit cover rail L (15) and cover caps L (20 and 21) as described on Page 19.

Important note

Fitting the stay arms.



Removing the stay arms.

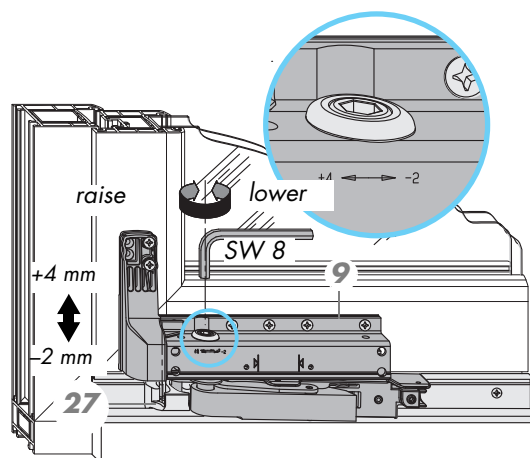


Adjustment facilities

If necessary the height of the Parallel Slide & Tilt sash can be **adjusted after fitting the glass pane**. Set the bogie wheels front (9) and rear (10) with 8 mm A/F hexagon key.

The bogie wheel height adjustment is self locking.

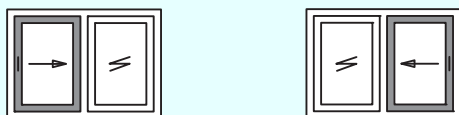
Note: Locking part (27) can be moved for a central sash entry.



Scheme overview

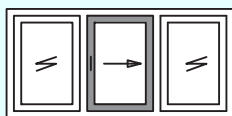
L.H. or **R.H.**

Scheme A



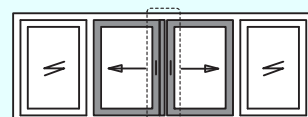
1 Sliding sash/1 Fixed sash *

Scheme G



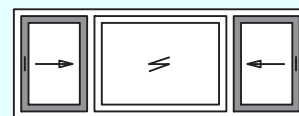
1 Sliding sash/2 Fixed sashes *

Scheme C



2 Sliding sashes/2 Fixed sashes *

Scheme K



2 Sliding sashes/1 Fixed sash

) Instead of the fixed sashes, turn sashes are also possible. Turn sashes only with internal Si-line rose and **removable handle. (see Product Catalogue).*