



Catalogue: PORTAL hardware for lift-slide-elements HS 300
made of timber, PVC or aluminium profiles with ECO PASS
threshold system.

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PORTAL CATALOGUE

General information

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Technical specifications and colours are subject to change.

Target group of this documentation

This documentation is intended to be used by specialist wholesalers and fabricators only.

Intended use

- All products shown and described in the catalogue are used for the manufacture of windows and/or French doors only.
- SIEGENIA hardware components must only be combined with SIEGENIA accessories.

Improper use

- All windows and/or French doors fitted with SIEGENIA hardware must not be built into tilting or sloping facades.

Safety notices

- For your safety assemble your complete set of fittings from the SIEGENIA hardware components only. Otherwise damage could occur, for which we accept no liability.
- All hardware components must be properly assembled as per the description in the installation instructions. Do not overtighten the screws!
- Never use acid curing sealants as they may cause the hardware components to corrode.
- The size ranges given for the HS PORTAL hardware from SIEGENIA must not be exceeded.
- For timber elements, the standards specified by DIN 68 121 (timber profiles for windows and French doors) apply for timber quality and design.
- The profile sections must correspond to the specifications in the SIEGENIA design drawings.

Feedback on documentation

We welcome your comments and suggestions on how to improve our documentation. Please e-mail us your comments to 'dokumentation@siegenia.com'.

Information regarding the use of this catalogue

- For pieces numbered 1/2, 1 piece, or if necessary, 2 pieces can be used or for 1 – 4, 1, 2, 3 or 4 pieces can be used if required.
- Availability: – = component not available; ● = component available if required.
- Combinations: ✓ combination possible; — combination not possible; ✓ combination on request.

E Anti-intruder

ESL E-Look

FFB Sash rebate width

FFH Sash rebate height

G Handle height

KF PVC

Krt. Carton

MV Centre lock

O Without locking bolt

OZ Oval cylinder

PZ Profile cylinder

RC Resistance requirements according to DIN EN 1627 – 1630

RZ Round cylinder (KABA)

S Heavy version

S-ES Mushroom cam

S-RS Comfort mushroom cam

SP Night vent

TL Door design

TS Titanium silver

UE Monitoring

VKE Sales unit

Directives of the Trade Organisation for Locks and Fittings (Gütegemeinschaft Schlösser und Beschläge e. V.)

The directives of the Trade Organisation for Locks and Fittings provide comprehensive information on the correct operation and maintenance of hardware for windows and French doors.
It is mandatory to adhere to these directives.

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

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



TBDK – Attachment of supporting fitting components for turn-only and tilt & turn fittings
with definitions for turn-only and tilt & turn fittings and their possible installation positions.

VHBH – Hardware for windows and French doors
Guidelines/advice on the product and on liability

VHBE – Hardware for windows and patio doors
Guidelines/advice for end-users

Further relevant documents

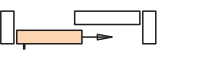
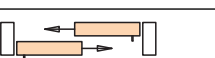
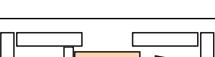
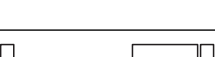
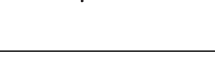
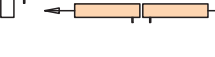
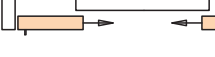
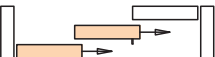
You can find further documents such as installation instructions, profile-related installation instructions, maintenance instructions and operating instructions in our documentation portal:

<http://produktdokumentation.siegenia-aubi.com>



3.1 HS PORTAL system

Hardware system	Element material		
	Timber	PVC	Aluminium
	HS 150	-	-
	HS 200	-	HS 200
	HS 300	HS 300	HS 300
	HS 400	-	-

Schemata overview	HS 150, HS 200, HS 300/HS 400	Combination possibilities with guiding rail				
		 HH 0130-01	 HH 0130-02	 HH 0130-03	 HH 0130-04	 KH 0130-01
Scheme A		✓	✓	✓	✓	✓
Scheme D		✓	✓	✓	✓	✓
Scheme G-2		✓	✓	✓	✓	✓
Scheme G-3		✓	✓	✓	✓	✓
Scheme H		✓	✓	✓	✓	✓
Scheme C		✓	✓	✓	✓	✓
Scheme F		✓	✓	✓	✓	✓
Scheme K		✓	✓	✓	✓	✓
Scheme E		✓	✓	✓	✓	—
Scheme L		✓	✓	✓	✓	—

The image of the schemata shows the left DIN version – the right DIN version is a mirror-image

3.2 HS PORTAL timber elements

Combination possibilities for timber elements of the scheme A, D, G, G-2, G-3, C, F and K versions subject to the timber thickness used for the sliding and fixed sash

Guiding rail Threshold	HH 0130-01	HH 0130-02	HH 0130-03	HH 0130-04	KH 0130-01
HH 7642-06	56 mm	68 mm	–	–	56 to 68 mm
HH 7642-07	–	–	78 to 92 mm	78 to 92 mm	78 to 92 mm
ECO PASS	–	68 mm	78 to 92 mm	78 to 92 mm	78 to 92 mm

Combination possibilities for timber elements of the scheme E and L versions subject to the timber thickness used for the sliding and fixed sash

Guiding rail Threshold	HH 0130-01	HH 0130-02	HH 0130-03	HH 0130-04	
HH 7652-06	56 mm	68 mm	–	–	
HH 7652-07	–	–	78 to 92 mm	78 to 92 mm	

3.2.1 Material numbers key

Material description	Material number	Pieces per packaging unit
HS PORTAL centre lock bag (consisting of locking bolt and striker)	PMZB0150-10001_	1

P MZB 015 0 - 1 00 01 Q

Product group

This code specifies to which product group of SIEGENIA the product belongs

Component group

The component group is a reference to the component family (e.g. gears, frame parts, etc.)

Article counter

Consecutive component number

DIN or opening direction

This code specifies the side of the hinge or opening direction

Surface

Surface treatment of metal components (e.g. zinc-plated)

Colour

Colour of surface or material (e.g. anodised)

Sales unit

Sales or packaging unit

Index

Production index

Please request current production index when ordering hardware.

P MZB 015 0 - 1 00 01 0

1 2 3 4 5 6 7 8

1 Product group

A	A300	G	Building technology	T	TITAN
B	BASICline	K	Small parts	Z	Accessories (general)
C	Casement	L	Ventilation technology		
D	Door (door lock programme)	M	Aluminium		
F	FAVORIT	P	PORTAL		

2 Component group

A	Jig	H	Handle	S	Stays
B	Hinge side parts	K	Cover caps	U	Monitoring (Aerocontrol/radio sensor)
D	Seal, distance piece, documentation	L	Bogie wheels	V	Extension
E	Corner drives, locking bolts, locking part	M	Mixed packages	Z	Linkages/accessories
F	Sash components	P	Profiles/PORTAL profile sets		
G	Gear	R	Frame parts		

The abbreviations ONLY apply to the 1st digit. Further digits are assigned individually.

3 Article counter

The articles are assigned consecutive numbers from 001 to 999.

4 DIN or opening direction

0	Independent of opening	1	DIN RIGHT	2	DIN LEFT
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5 Surface

0	Neutral (finished surface) e.g. plastic	2	E-look (galvanised)	6	Clear – chromated (galvanised)
1	Titanium silver (galvanised)	5	Aluminium, suitable for anodising, painting or coating	L	Painted

6 Colour

01	RAL 9001 cream	21	RAL 7035 light grey	33	si-brown
02	RAL 9003 signal white	23	RAL 9005 jet black	34	Titan matt bright
03	RAL 9010 pure white	24	EV1 silver anodised	38	Si-old gold
04	RAL 9016 traffic white	26	EV2 new silver anodised	E6	RAL 7040 window grey
11	RAL 8019 grey brown	30	C33 medium bronze	H4	F 9 aluminium-steel colours
12	RAL 8022 black brown	32	C34 dark bronze		

These specifications do not apply to custom stock colours. For further colours please inquire.

7 Packaging unit

01	1 piece	04	25 pieces	07	250 pieces
02	10 pieces	05	50 pieces	08	500 pieces
03	20 pieces	06	100 pieces		

For further packaging units please inquire.

8 Processing index

The processing index indicates the processing status and is assigned consecutively.

Liability

Intended use

Any use of this product that is not in accordance with its intended use, or any adaptation of or modification to the product and its associated components for which our express consent has not been obtained, is strictly prohibited. We accept no liability whatsoever for any material losses or injury to people caused by failure to comply with this stipulation.

Liability for defects

Our products are guaranteed – subject to correct installation and proper use – for a period of one year from the date of receipt by a company (according to our general terms and conditions) or as otherwise agreed, and for a period of two years for end consumers, in accordance with statutory provisions. As part of our ongoing improvements, we reserve the right to replace individual components or entire products. Consequential losses resulting from defects are excluded from the warranty within the limits of the law. The warranty shall become void if modifications that are not authorised by us or have not been described in this documentation are performed on the product and/or individual components, or if the product and/or individual components is/are dismantled or partly dismantled, and the defect is due to the changes made.

Exclusion of liability

The product and its components are subject to stringent quality controls. As a result, they function reliably and safely when used correctly. Our liability for consequential losses and/or claims for damages is excluded, except in the case of wilful misconduct or gross negligence, or where we are responsible for injury to life, limb or health. Strict liability under the German Product Liability Act (Produkthaftungsgesetz) remains unaffected. Liability for the culpable violation of significant contractual obligations also remains unaffected; liability in this case is limited to losses that are specific to the contract and that could have been foreseen. The above regulations do not imply a change in the burden of proof to the detriment of the consumer.

EU Declaration of Conformity



We, SIEGENIA KG, declare under our own responsibility that the product complies with the provisions of Directives 2008/108/EC and 2006/95/EC of the Council of the European Union.

Environmental protection

Although our products do not fall within the scope of the German Electrical and Electronic Equipment Act, SIEGENIA will continue to meet the requirements of this Act and will endeavour to completely eliminate the use of substances that are hazardous to the environment as soon as this becomes technically feasible. Electrical products should not be disposed of as household waste.

PORTAL CATALOGUE

HS 300 H ECO PASS
68/28 HH0130-02/-03/-04

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Technical specifications and colours are subject to change.

Size range HS 300 H ECO PASS 68/28 HH0130-02/-03/-04

Sash width	HS 300	(mm)	720 to 3335
Sash width	HS 400	(mm)	1370 to 3335
Sash height (sliding sash)	HH 0130-02/-03	(mm)	1175 to 2675
Sash height (sliding sash)	HH 0130-04	(mm)	1190 to 2690
Frame width		(mm)	1470 to 6700
Frame height		(mm)	1308 to 2808
Sash weight	HS 300	(kg)	max. 300
Sash weight	HS 400	(kg)	max. 400
Backset (gear)		(mm)	37.5
Sash timber width		(mm)	68
Sash distance		HS (mm)	28
Handle height (window:	SH 1175 - 1775)	(mm)	410
Handle height (door:	SH 1775 - 2675)	(mm)	1010

- The **profile sections** must match the details of the following SIEGENIA-AUBI construction drawings, sash timber thickness 68 mm:

<i>H48.HS_HZS101DE</i>	Sheet 1.1	HS PORTAL with guiding rail HH0130-04		Scheme A
	Sheet 2.1	HS PORTAL with guiding rail HH0130-03		Scheme A
	Sheet 3.1	HS PORTAL with guiding rail HH0130-02		Scheme A
	Sheet 1.2	HS PORTAL		Scheme C
	Sheet 1.3	HS PORTAL with guiding rail HH0130-04		Scheme D
	Sheet 2.3	HS PORTAL with guiding rail HH0130-03		Scheme D
	Sheet 3.3	HS PORTAL with guiding rail HH0130-02		Scheme D
	Sheet 1.4	HS PORTAL		Scheme G2
	Sheet 1.5	HS PORTAL		Scheme G3
	Sheet 5.1	HS PORTAL with guiding rail HH0130-04	barrier-free	Scheme A
	Sheet 6.1	Threshold cutting dimensions		Scheme A
	Sheet 6.2	Threshold cutting dimensions		Scheme C

- With a sash weight of 200 kg or more, we recommend using HS PORTAL comfort gear 300 PZ - PGKB4070-52401_ or PGKB4080-52401_
- With a sash weight of 300 kg or more, the use of HS PORTAL comfort gear 300 PZ - PGKB4070-52401_ or PGKB4080-52401_ is required.
- For HS 300 with a sash weight of 300 – 400 kg, the connecting rod must be fastened to the bogie wheels with Dowel pin 6 x 16 (**80**).
- We recommend the use of stainless steel screws for mounting components on the ECO PASS threshold.
- The threshold must be shimmed at intervals of 300 mm to be pressure-tight and sound-absorbing.
- We recommend using the following elastic adhesives and sealants: e.g. from OTTO Chemie - OTTOCOLL® HiTack or from Collano Adhesives AG - Collano® A 1970 or equivalent.

Hardware components scheme A

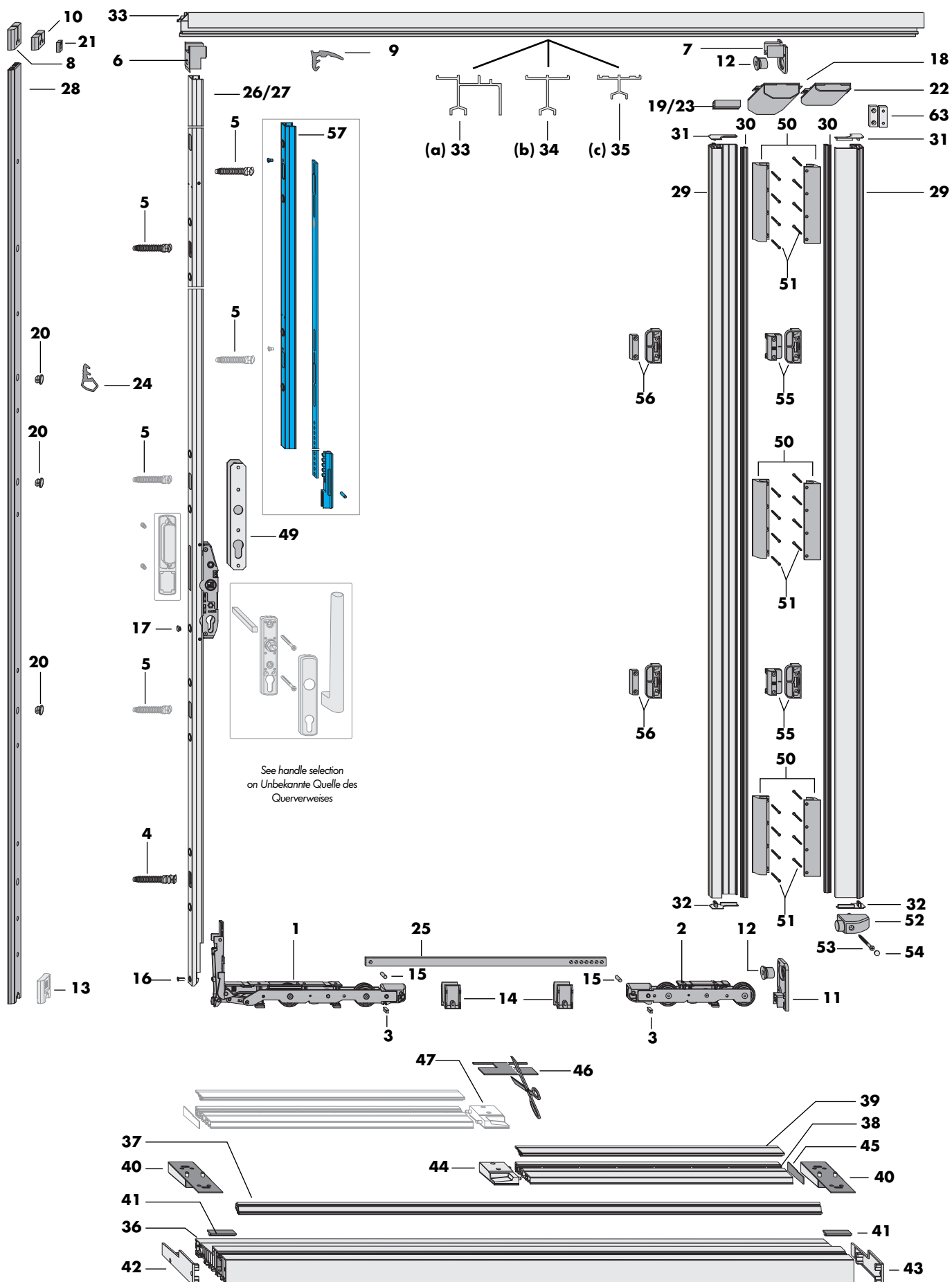


Fig. 1: Hardware diagram HS 300 scheme A

No.	Piece scheme			HS PORTAL 300 scheme A	Material number	
	A (a)	A (b)	A (c)		RAL 7035 grey	RAL 9005 black
General requirements	1	1	1	Handle Si-line HS PORTAL 300	See handle selection from Unbekannte Quelle des Querverweises	
	1	1	1	Basic carton HS 300 TS consisting of:	PMKB0300-10001_	
	1	1	1	Bogie wheels V	VSU HS 300 TS	
	2	1	1	Bogie wheels H	HS 300 TS	
	3	1	1	Brush	Length 100 mm	
	1	1	-	Carton HS-H HH0130-02/-03 consisting of:	for guiding rail HH0130-02/-03	
	4	1	-	Locking bolt E, bottom TS		
	5	1	-	Locking bolt E, top TS		
	6	1	-	Front top guide		
	7	1	-	Rear top guide		
	8	1	-	Top filling piece	for guiding rail HH0130-02/-03	
	9	1	-	Top seal HH0134-01	Length 10.2 m	
	-	-	1	Carton HS-H HH0130-04 consisting of:	for guiding rail HH0130-04	
	4	-	1	Locking bolt E, bottom TS		
	5	-	1	Locking bolt E, top TS		
	6	-	1	Front top guide		
	7	-	1	Rear top guide		
	10	-	1	Top filling piece	for guiding rail HH0130-04	
	9	-	1	Top seal HH0134-01	Length 10.2 m	
	1	1	1	Bag of accessories HS-H bottom high consisting of:		
	11	1	1	Bottom cover plate rear high		
	12	2	2	Stop		
	13	1	1	Bottom high filling piece	for sealing rail B made of timber	
	14	2	2	Bottom guide		
	15	2	2	Dowel pin 6 x 16		
	16	1	1	Countersunk screw M5 x 13		
	17	1	1	Bag closing cap	grey	
				Bag closing cap	brown	
	1	1	-	Sealing elements set HS-H HH0130-02/03 IV 68 consisting of:		
	18	1	-	Gasket bridge size 2		
	19	1	-	Top sealing part		
	20	3	-	Bag closing cap	for sealing rail B	
	21	1	1	Top sealing part HSK		
	-	-	1	Sealing elements set HS-H HH0130-04 IV 68 consisting of:		
	22	-	1	Gasket bridge A0017		
	23	-	1	Top sealing part		
	20	-	3	Bag closing cap	for sealing rail B	
	21	1	1	Top sealing part HSK		
	24	1	1	Seal HH0134-02	Length 17.5 m	
depend. on SW	25	1	1	Connecting rod	Size Length (in mm) SW (in mm) 150 TS 898 720 to 1500 200 TS 1398 1501 to 2000 250 TS 1898 2001 to 2500 335 TS 2748 2501 to 3350	719282 719480 719497 719725
depending on SH	26	1	1	HS PORTAL 300 gear PZ	Size Handle height (in mm) SH (in mm) 170 410 1208 to 1775 220 1010 1776 to 2275 260 1010 2276 to 2675	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_
	27	1	1	HS PORTAL comfort gear 300 PZ	Size Handle height (in mm) SH (in mm) 220 1010 1776 to 2275 260 1010 2276 to 2675	EV 1 silver PGKB4070-52401_ PGKB4080-52401_
	28	1	1	Sealing rail B Alternative: rail B in timber version.	Size SH (in mm) 260 1208 to 2675	PPDB0010-02101_ PPDB0010-02301_
		1	1	Sealing rail C Alternative: rail C in timber version.	Size Sash distance (in mm) SH (in mm) 260 28 1208 to 2675	PMZB0180-02101_
	29	2	2	Sealing rail C HS	Length 2.7 m	
	30	2	2	Sealing profile rail C HS	for sealing rail C	
	31	2	2	Cover cap left sealing rail C		
	32	2	2	Cover cap right sealing rail C		

A (a) = Element with guiding rail HH 0130-02 A (b) = Element with guiding rail HH 0130-03 A (c) = Element with guiding rail HH 0130-04 

Continued on next page

No.	Piece scheme			HS PORTAL 300 scheme A	Material number					
	A (a)	A (b)	A (c)		Material description				RAL 7035 grey	RAL 9005 black
depending on FW	33	1	-	-	Guiding rail HH0130-02 for STT 68 mm	Size	length (in mm)	FW (in mm)	EV 1 silver 137154 137161 152669 153390 151341 151167 150498	137178 - 151037 - 155165 - 155196
						300	2900	1470 to 3000		
						350	3400	3001 to 3500		
						400	3900	3501 to 4000		
						450	4400	4001 to 4500		
						500	4900	4501 to 5000		
	34	-	1	-	Guiding rail HH0130-03 for STT 68 mm	570	5600	5001 to 5700	PPFB0100-52401_ PPFB0110-52401_ PPFB0120-52401_ PPFB0130-52401_ 126813 - 126837	126820 126844
						670	6600	5701 to 6700		
						Size	Length (in mm)	FW (in mm)		
						300	2900	1470 to 3000		
						350	3400	3001 to 3500		
						400	3900	3501 to 4000		
	35	-	-	1	Guiding rail HH0130-04 for STT 68 mm	450	4400	4001 to 4500	PPFB0230-52401_ - PPFB0200-52401_ - - PPFB0210-52401_	
						500	4900	4501 to 5000		
						570	5600	5001 to 5700		
						670	6600	5701 to 6700		
						Size	Length (in mm)	FW (in mm)		
						300	2900	1470 to 3000		
	36	1	1	1	ECO PASS threshold B171	350	3400	3001 to 3500	PPBB0600-52401_ PPBB0610-52401_ PPBB0620-52401_ PPBB0630-52401_ PPBB0650-52401_ PPBB0750-52401_ PPBB0660-52401_	
						400	4000	3501 to 4000		
						450	4500	4001 to 4500		
						500	5000	4501 to 5000		
						570	5700	5001 to 5500		
						670	6700	5501 to 6700		
37	1	1	1	ECO PASS running rail 5/15	350	3500	1493 to 3500	PPLB5210-52401_ PPLB6210-52401_ PPLB5220-52401_ PPLB6220-52401_ PPLB6230-52401_ PPLB5240-52401_		
					400	4000	3501 to 4000			
					450	4500	4001 to 4500			
					500	5000	4501 to 5000			
					570	5700	5001 to 5500			
					670	6700	5501 to 6700			
38	1	1	1	ECO PASS support rail S96	Size	Length (in mm)	SW (in mm)	PPZB5330-02101_ PPZB5340-02101_ PPZB5350-02101_ PPZB5060-02101_		
					150	1500	720 to 1500			
					200	2000	1501 to 2000			
					250	2500	2001 to 2500			
39	1	1	1	ECO PASS adapter rail H 5 for timber profile	350	3500	2501 to 3350	PPZB5480-02101_ PPZB5390-02101_ PPZB5400-02101_ PPZB5160-02101_		
					150	1500	720 to 1500			
					200	2000	1501 to 2000			
					250	2500	2001 to 2500			
depending on FW		1	1	1	Frame corner connection H EP B171 consisting of:	ECO PASS for timber elements			PMRB0150-02101_	
	40	2	2	2	ECO PASS sealing part REV					
	41	2	2	2	Seal	for recess running rail REV				
	42	1	1	1	End cap, left	for ECO PASS threshold			PMRB0212-02101_	
	43	1	1	1	End cap, right	for ECO PASS threshold				
		1	1	1	Sealing part MP, left consisting of:	for DIN, left				
	44	1	1	1	ECO PASS sealing part MP left B171	for sealing between sliding and fixed sash			PMRB0211-02101_	
	45	1	1	1	End seal MP	for sealing support rail and sealing block REV				
	46	1	1	1	Sealing pad H B171	on sealing block and support rail				
		1	1	1	Sealing part MP, right consisting of:	for DIN, right			PMRB0211-02101_	
	47	1	1	1	ECO PASS sealing part MP right B171	for sealing between sliding and fixed sash				
	45	1	1	1	End seal MP	for sealing support rail and sealing block REV				
46	1	1	1	Sealing pad H B171	on sealing block and support rail					

No.	Piece scheme			HS PORTAL 300 scheme A	Material description	Material number	
	A (a)	A (b)	A (c)			RAL 7035 grey	RAL 9005 black
Accessories							
for anti-intruder elements							
5	2	2	2	Locking bolt E, top TS		719152	
48	–	–	–	Locking part top C TS		719466	
49	1	1	1	Anti-drill guard E		721216	
	1	1	1	Security interlock (C-E rail) HS consisting of: Can only be used with sealing rail CPMZB0180...		PMZB0190-50001_	
50	6	6	6	Security interlock (CE rail) HS WK 2 K1			
51	25	25	25	Screw for frame part 5 x 55 mm			
for other requirements							
	1	1	1	Bag stop consisting of:		PMZB0140-02101_	831922
52	1	1	1	Stop			
53	1	1	1	Countersunk tapping screw B 4.8 x 70			
54	1	1	1	Cover cap			
	1	1	1	Bag of accessories HS-H for frame corner connection consisting of:		PMZB0440-10001_	
no illus.	1	1	1	Bolt Ø 7 x 40			
no illus.	1	1	1	Clamping screw 6 x 130			
55	1/2	1/2	1/2	Centre lock CE HS PORTAL TS B1 for sealing rail C, no. 29 - 32 , mat. no.: PMZB0180...	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm	PMZB0210-10001_	
56	1/2	1/2	1/2	Centre lock CE HS PORTAL TS B1 for sealing rail C made of timber	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm	PMZB0150-10001_	
57	1	1	1	Additional lock HS	Sash height 1480 to 3310 mm	PMGB0010-12401_	PMGB0010-13201_
5	1/2	1/2	1/2	Locking bolt E, top TS	for additional lock	719152	

Hardware components scheme C

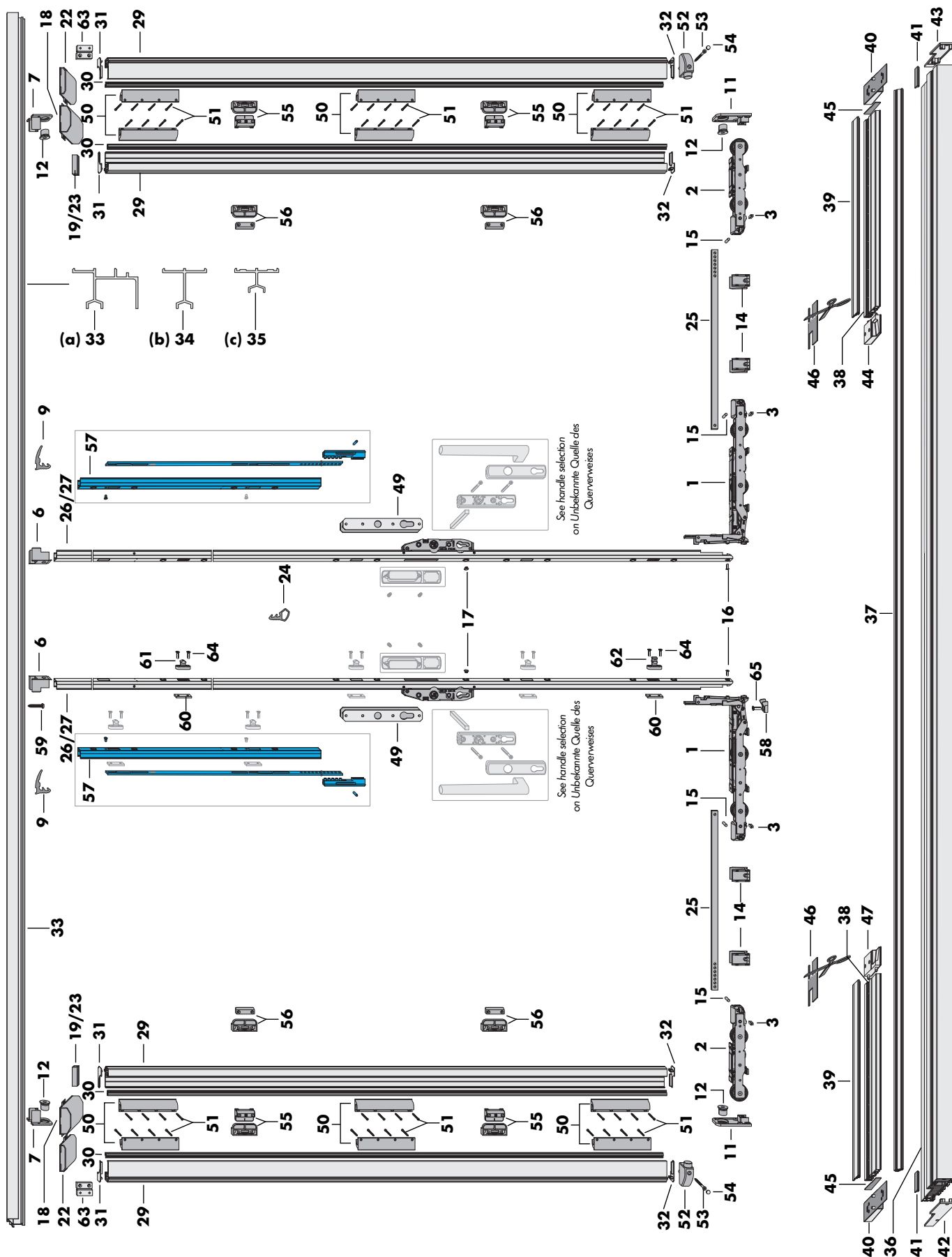


Fig. 2: Hardware diagram HS 300 scheme C

	No.	Piece scheme			HS PORTAL 300 scheme C			Material number		
		C (a)	C (b)	C (c)	Material description			RAL 7035 grey	RAL 9005 black	
General requirements		2	2	2	Handle Si-line HS PORTAL 300			See handle selection on Unbekannte Quelle des Querverweises		
	1	2	2	2	Basic carton HS 300 C TS consisting of:			PMKB0310-10001_		
		2	2	2	Bogie wheels V			VSU HS 300 TS		
		2	2	2	Bogie wheels H			HS 300 TS		
		3	1	1	1	Brush			Length 100 mm	
	4	2	2	-	Carton HS-H HH0130-02/-03 consisting of:			PMZB0330-02101_ PMZB0330-02301_		
		-	-	-	Locking bolt E, bottom TS					
		-	-	-	Locking bolt E, top TS					
		2	2	-	Front top guide					
		2	2	-	Rear top guide					
		-	-	-	Top filling piece					
		2	2	-	Top seal HH0134-01			Length 10.2 m		
		-	-	2	Carton HS-H HH0130-04 consisting of:			PMZB0340-02101_ PMZB0340-02301_		
		-	-	-	Locking bolt E, bottom TS					
	5	-	-	-	Locking bolt E, top TS					
		-	-	2	Front top guide					
		-	-	2	Rear top guide					
		-	-	-	Top filling piece			for guiding rail HH0130-04		
		-	-	2	Top seal HH0134-01			Length 10.2 m		
		2	2	2	Bag of accessories HS-H bottom high consisting of:			PMZB0310-02101_ PMZB0310-02301_		
		2	2	2	Cover plate, bottom rear high					
		4	4	4	Stop					
		-	-	-	Bottom high filling piece			for sealing rail B made of timber		
	6	4	4	4	Bottom guide					
		4	4	4	Dowel pin 6 x 16					
		2	2	2	Countersunk screw M5 x 13					
		2	2	2	Closing cap			Grey		
		2	2	2	Bag closing cap			brown		
		1	1	1	Bag of accessories HS-H consisting of:			239087		
		1	1	1	Locking part G TS					
		1	1	1	Head self-tapping screw 6.3 x 38-A2					
		2	2	2	Threaded plate M 5					
	7	1	1	1	Locking part top C TS					
		1	1	1	Locking part bottom C TS					
		-	-	-	Stop HS 10FA			only required for sash distance 10 mm		
		4	4	4	Countersunk screw PZD DIN965 M5X20-A2					
		1	1	1	Countersunk screw PZD DIN965 M6X20-A2					
		1	1	-	Sealing elements set HS-H HH0130-02/03 IV 68 consisting of:			PMZB0370-02101_ PMZB0370-02301_		
		2	2	-	Gasket bridge size 2					
		2	2	-	Top sealing part					
		-	-	-	Bag closing cap			for sealing rail B		
	8	-	-	-	Top sealing part HSK					
		-	-	1	Sealing elements set HS-H HH0130-04 IV 68 consisting of:			PMZB0400-02101_ PMZB0400-02301_		
		-	-	2	Gasket bridge A0017					
		-	-	2	Top sealing part					
		-	-	-	Bag closing cap			for sealing rail B		
		-	-	-	Top sealing part HSK					
		24	2	2	2	Seal HH0134-02			PDPB0030-02101_ PDPB0030-09901_	
					Length 17.5 m					
		depend. on SW	25	2	2	2	Connecting rod			Size Length (in mm) SW (in mm) 150 TS 898 720 to 1500 719282 200 TS 1398 1501 to 2000 719480 250 TS 1898 2001 to 2500 719497 335 TS 2748 2501 to 3350 719725
	26		2	2	2	HS PORTAL 300 gear PZ			Size Handle height (in mm) SH (in mm) 170 410 1208 to 1775 EV 1 silver 220 1010 1776 to 2275 PGKB0010-52401_ 260 1010 2276 to 2675 PGKB0020-52401_ PGKB0030-52401_	
						for lift and slide sashes up to 200 kg				
						HS PORTAL comfort gear 300 PZ			Size Handle height (in mm) SH (in mm) 220 1010 1776 to 2275 EV 1 silver 260 1010 2276 to 2675 PGKB4070-52401_ PGKB4080-52401_	
						for lift and slide sashes from 200 kg				
	depending on SH	29	2	2	2	Sealing rail C			Size Sash distance (in mm) SH (in mm) 260 28 1208 to 2675 RAL 7035 light grey PMZB0180-02101_	
						Alternative: rail C in timber version.				
						Sealing rail C HS			Length 2.7 m	
						Sealing profile rail C HS			for sealing rail C	
						Cover cap left sealing rail C				
		Cover cap right sealing rail C								

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No.	Piece scheme			H5 PORTAL 300 scheme C	Material number					
	C (a)	C (b)	C (c)		Material description		RAL 7035 grey	RAL 9005 black		
depending on FW	33	1	-	-	Guiding rail HH0130-02 for STT 68 mm	Size	Length (in mm)	FW (in mm)	EV 1 silver 137154 137161 152669 153390 151341 151167 150498	C 34 dark bronze 137178 - 151037 - 155165 - 155196
						300	2900	1470 to 3000		
						350	3400	3001 to 3500		
						400	3900	3501 to 4000		
						450	4400	4001 to 4500		
						500	4900	4501 to 5000		
						570	5600	5001 to 5700		
						670	6600	5701 to 6700		
	34	-	1	-	Guiding rail HH0130-03 for STT 68 mm	Size	Length (in mm)	FW (in mm)	PPFB0100-52401_ PPFB0110-52401_ PPFB0120-52401_ PPFB0130-52401_ 126813 - 126837	- 126820 - 126844
						300	2900	1470 to 3000		
						350	3400	3001 to 3500		
						400	3900	3501 to 4000		
						450	4400	4001 to 4500		
						500	4900	4501 to 5000		
						570	5600	5001 to 5700		
						670	6600	5701 to 6700		
	35	-	-	1	Guiding rail HH0130-04 for STT 68 mm	Size	Length (in mm)	FW (in mm)	- PPFB0230-52401_ - PPFB0200-52401_ - - PPFB0210-52401_	
						300	2900	1470 to 3000		
						350	3400	3001 to 3500		
						400	3900	3501 to 4000		
						450	4400	4001 to 4500		
						500	4900	4501 to 5000		
						570	5600	5001 to 5700		
						670	6600	5701 to 6700		
	36	1	1	1	ECO PASS threshold B171	300	3000	1493 to 3000	PPBB0600-52401_ PPBB0610-52401_ PPBB0620-52401_ PPBB0630-52401_ PPBB0650-52401_ PPBB0750-52401_ PPBB0660-52401_	
						350	3500	3001 to 3500		
						400	4000	3501 to 4000		
						450	4500	4001 to 4500		
500						5000	4501 to 5000			
570						5700	5001 to 5500			
670						6700	5501 to 6700			
37	1	1	1	ECO PASS running rail 5/15	350	3500	1493 to 3500	PPLB5210-52401_ PPLB6210-52401_ PPLB5220-52401_ PPLB6220-52401_ PPLB6230-52401_ PPLB5240-52401_		
					400	4000	3501 to 4000			
					450	4500	4001 to 4500			
					500	5000	4501 to 5000			
					570	5700	5001 to 5500			
					670	6700	5501 to 6700			
38	2	2	2	ECO PASS support rail S96	Size	Length (in mm)	SW (in mm)	PPZB5330-02101_ PPZB5340-02101_ PPZB5350-02101_ PPZB5060-02101_		
					150	1500	720 to 1500			
					200	2000	1501 to 2000			
					250	2500	2001 to 2500			
					350	3500	2501 to 3350			
39	2	2	2	ECO PASS adapter rail H 5 for timber profile	150	1500	720 to 1500	PPZB5480-02101_ PPZB5390-02101_ PPZB5400-02101_ PPZB5160-02101_		
					200	2000	1501 to 2000			
					250	2500	2001 to 2500			
					350	3500	2501 to 3350			
depending on FW		1	1	1	Frame corner connection H EP B171 consisting of:	ECO PASS for timber elements			PMRB0150-02101_	
	40	1	1	1	ECO PASS sealing part REV					
	41	1	1	1	Seal	for recess running rail REV				
	42	1	1	1	End cap, left	for ECO PASS threshold				
	43	1	1	1	End cap, right	for ECO PASS threshold				
		1	1	1	Sealing piece MP left consisting of:				PMRB0212-02101_	
	44	1	1	1	ECO PASS sealing part MP left B171	for sealing between sliding and fixed sash				
	45	1	1	1	End seal MP	for sealing support rail and sealing block REV				
	46	1	1	1	Sealing pad H B171	on sealing block and support rail				
		1	1	1	Sealing piece MP right consisting of:					PMRB0211-02101_
	47	1	1	1	ECO PASS sealing part MP right B171	for sealing between sliding and fixed sash				
	45	1	1	1	End seal MP	for sealing support rail and sealing block REV				
	46	1	1	1	Sealing pad H B171	on sealing block and support rail				

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No.	Piece scheme			HS PORTAL 300 scheme C	Material number
	C (a)	C (b)	C (c)		
Material description					
Accessories					
for anti-intruder elements					
61	2	2	2	Locking part top CTS	719466
49	2	2	2	Anti-drill guard E	721216
	2	2	2	Security interlock (C-E rail) HS	PMZB0190-50001_
50	12	121	12	Security interlock (C-E rail) HS WK 2 K1	
51	50	50	50	Screw for frame part 5 x 55 mm	
for other requirements					
	2	2	2	Bag stop consisting of:	PMZB0140-02101_
52	2	2	2	Stop	831922
53	2	2	2	Countersunk tapping screw B 4.8 x 70	
54	2	2	2	Cover cap	
	1	1	1	Bag of accessories HS-H for frame corner connection consisting of:	PMZB0440-10001_
no illus.	1	1	1	Bolt Ø 7 x 40	
no illus.	1	1	1	Clamping screw 6 x 130	
55	2/4	2/4	2/4	Centre lock CE HS PORTAL TS B1 for sealing rail C, no. 29 - 32 , mat. no.: PMZB0180-...	PMZB0210-10001_
56	2/4	2/4	2/4	Centre lock CE HS PORTAL TS B1 for sealing rail C made of timber	PMZB0150-10001_
57	2	2	2	Additional lock HS	PMGB0010-12401_ PMGB0010-13201_
61	2/4	2/4	2/4	Locking part top CTS for additional lock	719152

Hardware components scheme G2 / G3

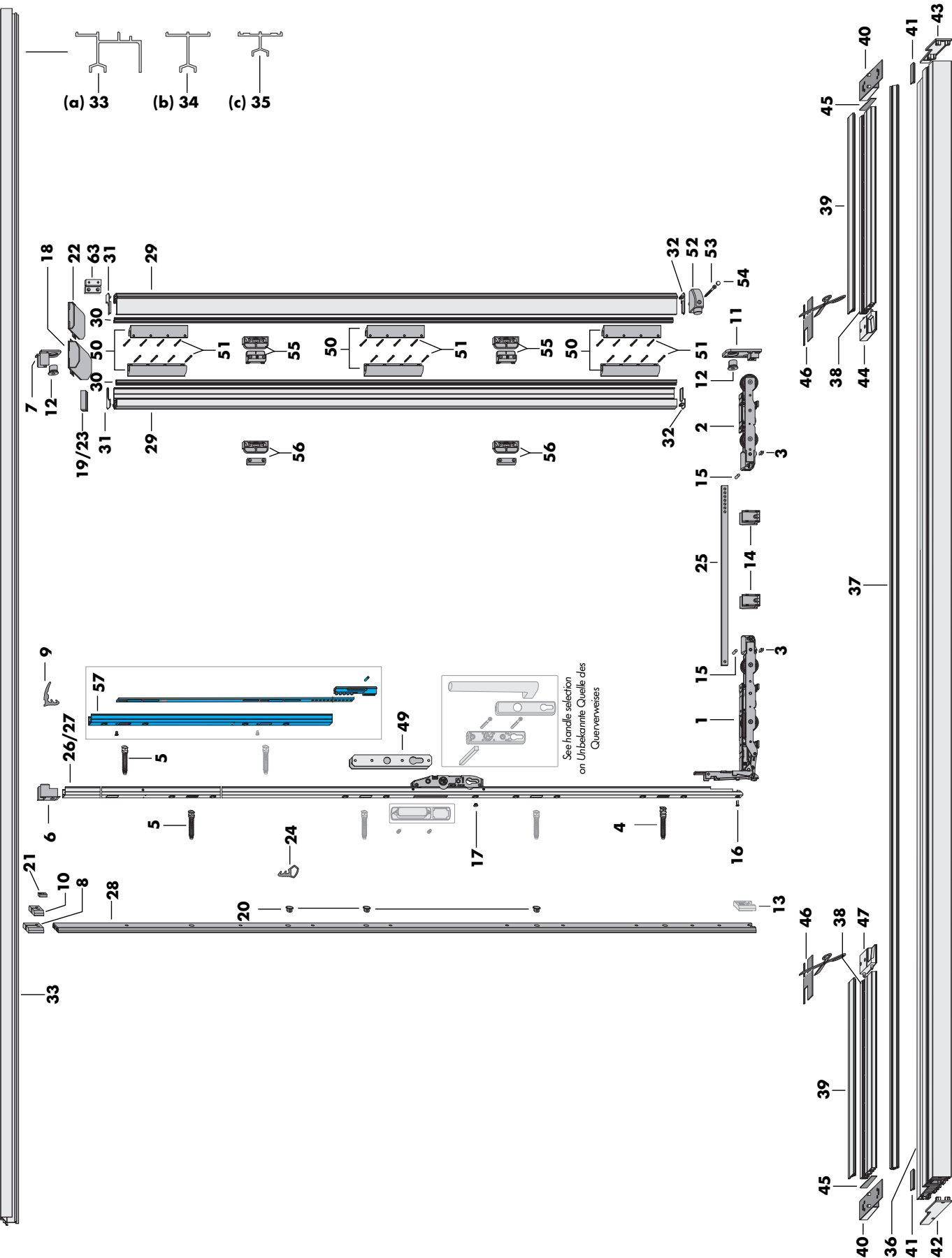


Fig. 3: Hardware diagram HS 300 scheme G 2 and G 3

No.	Piece scheme						HS PORTAL 300 scheme G2 / G3				Material number			
	G 2			G 3			Material description				RAL 7035 grey	RAL 9005 black		
	(a)	(b)	(c)	(a)	(b)	(c)								
General requirements		1	1	1	1	1	1	Handle Si-line HS PORTAL 300				See handle selection on Unbekannte Quelle des Querverweises		
	1	1	1	1	1	1	1	Basic carton HS 300 H TS consisting of:				PMKB0300-10001_		
			1	1	1	1	1	1	Bogie wheels V		VSU HS 300 TS		PMZB0330-02101_	PMZB0330-02301_
		2	1	1	1	1	1	1	Bogie wheels H		HS 300 TS			
	3	1	1	1	1	1	1	Brush		Length 100 mm				
	4	1	1	-	1	1	-	Carton HS-H HH0130-02/-03 consisting of:				PMZB0340-02101_	PMZB0340-02301_	
			1	1	1	1	1	1	Locking bolt E, bottom TS					
		5	1	1	1	1	1	1	Locking bolt E, top TS					
		6	1	1	1	1	1	1	Front top guide					
		7	1	1	1	1	1	1	Rear top guide					
		8	1	1	1	1	1	1	Top filling piece					
		9	1	1	1	1	1	1	Top seal HH0134-01		Length 10.2			
			-	-	1	-	-	1	Carton HS-H HH0130-04 consisting of:					
		4	-	-	1	-	-	1	Locking bolt E, bottom TS					
	5	-	-	1	-	-	1	Locking bolt E, top TS						
	6	-	-	1	-	-	1	Front top guide						
	7	-	-	1	-	-	1	Rear top guide						
	10	-	-	1	-	-	1	Top filling piece		for guiding rail HH0130-04				
	9	-	-	1	-	-	1	Top seal HH0134-01		Length 10.2 m				
	11	1	1	1	1	1	1	Bag of accessories HS-H bottom high consisting of:				PMZB0310-02101_	PMZB0310-02301_	
			1	1	1	1	1	1	Cover plate, bottom rear high					
		12	2	2	2	2	2	2	Stop					
		13	1	1	1	1	1	1	Bottom high filling piece					
		14	2	2	2	2	2	2	Bottom guide					
		15	2	2	2	2	2	2	Dowel pin 6 x 16					
		16	1	1	1	1	1	1	Countersunk screw M5 x 13					
		17	1	1	1	1	1	1	Bag closing cap		grey			
	18	1	1	-	1	1	-	Sealing elements set HS-H HH0130-02/03 IV 68 consisting of:				PMZB0370-02101_	PMZB0370-02301_	
			1	1	1	1	1	1	Gasket bridge size 2					
		19	1	1	1	1	1	1	Top sealing part					
		20	3	3	3	3	3	3	Bag closing cap					
		21	1	1	1	1	1	1	Top sealing part HSK					
22	-	-	1	-	-	1	Sealing elements set HS-H HH0130-04 IV 68 consisting of:				PMZB0400-02101_	PMZB0400-02301_		
		-	-	1	-	-	1	Gasket bridge A0017						
	19	-	-	1	-	-	1	Top sealing part						
	20	-	-	1	-	-	1	Bag closing cap		for sealing rail B				
	21	1	1	1	1	1	1	Top sealing part HSK						
24	1	1	1	1	1	1	Seal HH0134-02		Length 17.5 m		PDPB0030-02101_	PDPB0030-09901_		
depend. on SW	25	1	1	1	1	1	1	Connecting rod		Size 150 TS 200 TS 250 TS 335 TS	Length (in mm) 898 1398 1898 2748	SW (in mm) 720 to 1500 2001 to 2500 2501 to 3350	719282 719480 719497 719725	
depending on SH	26	1	1	1	1	1	1	HS PORTAL 300 gear PZ		Size 170 220 260	Handle height (in mm) 410 1010 1010	SH (in mm) 1208 to 1775 1776 to 2275 2276 to 2675	EV 1 silver PGKB0010-S2401_ PGKB0020-S2401_ PGKB0030-S2401_	
	for lift and slide sashes up to 200 kg													
	HS PORTAL comfort gear 300 PZ							Size 220 260	Handle height (in mm) 1010 1010	SH (in mm) 1776 to 2275 2276 to 2675	EV 1 silver PGKB4070-S2401_ PGKB4080-S2401_			
	27	for lift and slide sashes from 200 kg												
	28	1	1	1	1	1	1	Sealing rail B Alternative: rail B in timber version.		Size 260	SH (in mm) 1208 to 2675	PPDB0010-02101_	PPDB0010-02301_	
	29	1	1	1	1	1	1	Sealing rail C Alternative: rail C in timber version.		Size 260	Sash distance (in mm) 28	SH (in mm) 1208 to 2675	PMZB0180-02101_	
		2	2	2	2	2	2	Sealing rail C HS		Length 2.7 m				
		30	2	2	2	2	2	Sealing profile rail C HS		for sealing rail C				
		31	2	2	2	2	2	Cover cap left sealing rail C						
		32	2	2	2	2	2	Cover cap right sealing rail C						

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No.	Piece scheme						HS PORTAL 300 scheme G2 / G3						Material number	
	G 2			G 3			Material description						RAL 7035 grey	RAL 9005 black
	(a)	(b)	(c)	(a)	(b)	(c)								
depending on FW	33	1	-	-	1	-	-	Guiding rail HH0130-02 for STT 68 mm	Size	Length (in mm)	FW (in mm)	EV 1 silver 137154 137161 152669 153390 151341 151167 150498	C 34 dark bronze 137178 - 151037 - 155165 - 155196	
									300	2900	1470 to 3000			
									350	3400	3001 to 3500			
									400	3900	3501 to 4000			
									450	4400	4001 to 4500			
									500	4900	4501 to 5000			
									570	5600	5001 to 5700			
									670	6600	5701 to 6700			
	34	-	1	-	-	1	-	Guiding rail HH0130-03 for STT 68 mm	Size	Length (in mm)	FW (in mm)	PPFB0100-52401_ PPFB0110-52401_ PPFB0120-52401_ PPFB0130-52401_ 126813 - 126837	126820 126844	
									300	2900	1470 to 3000			
									350	3400	3001 to 3500			
									400	3900	3501 to 4000			
									450	4400	4001 to 4500			
									500	4900	4501 to 5000			
									570	5600	5001 to 5700			
									670	6600	5701 to 6700			
	35	-	-	1	-	-	1	Guiding rail HH0130-04 for STT 68 mm	Size	Length (in mm)	FW (in mm)	- PPFB0230-52401_ - PPFB0200-52401_ - - PPFB0210-52401_		
									300	2900	1470 to 3000			
									350	3400	3001 to 3500			
									400	3900	3501 to 4000			
									450	4400	4001 to 4500			
									500	4900	4501 to 5000			
									570	5600	5001 to 5700			
									670	6600	5701 to 6700			
	36	1	1	1	1	1	1	ECO PASS threshold B171	300	3000	1493 to 3000	PPBB0600-52401_ PPBB0610-52401_ PPBB0620-52401_ PPBB0630-52401_ PPBB0650-52401_ PPBB0750-52401_ PPBB0660-52401_		
									350	3500	3001 to 3500			
									400	4000	3501 to 4000			
									450	4500	4001 to 4500			
									500	5000	4501 to 5000			
									570	5700	5001 to 5500			
									670	6700	5501 to 6700			
									37	1	1			1
	400	4000	3501 to 4000											
	450	4500	4001 to 4500											
	500	5000	4501 to 5000											
	570	5700	5001 to 5500											
	670	6700	5501 to 6700											
	38	2	2	2	2	2	2	ECO PASS support rail S96				Size	Length (in mm)	
									150	1500	720 to 1500			
									200	2000	1501 to 2000			
									250	2500	2001 to 2500			
	39	2	2	2	2	2	2	ECO PASS adapter rail H 5 for timber profile	350	3500	2501 to 3350	PPZB5480-02101_ PPZB5390-02101_ PPZB5400-02101_ PPZB5160-02101_		
									150	1500	720 to 1500			
									200	2000	1501 to 2000			
									250	2500	2001 to 2500			
	depending on FW		1	1	1	1	1	1	Frame corner connection H EP B171 consisting of:	ECO PASS for timber elements			PMRB0150-02101_	
		40	1	1	1	1	1	1	ECO PASS sealing part REV					
41		1	1	1	1	1	1	Seal	for recess running rail REV					
42		1	1	1	1	1	1	End cap, left	for ECO PASS threshold					
43		1	1	1	1	1	1	End cap, right	for ECO PASS threshold					
		1	1	1	1	1	1	Sealing part MP, left consisting of:	for DIN, left			PMRB0212-02101_		
44		1	1	1	1	1	1	ECO PASS sealing part MP left B171	for sealing between sliding and fixed sash					
45		1	1	1	1	1	1	End seal MP	for sealing support rail and sealing block REV					
46		1	1	1	1	1	1	Sealing pad H B171	on sealing block and support rail					
		1	1	1	1	1	1	Sealing part MP, right consisting of:	for DIN, right			PMRB0211-02101_		
47		1	1	1	1	1	1	ECO PASS sealing part MP right B171	for sealing between sliding and fixed sash					
45		1	1	1	1	1	1	End seal MP	for sealing support rail and sealing block REV					
46	1	1	1	1	1	1	Sealing pad H B171	on sealing block and support rail						

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No.	Piece scheme						HS PORTAL 300 scheme G2 / G3	Material description	Material number	
	G 2			G 3					RAL 7035 grey	RAL 9005 black
	(a)	(b)	(c)	(a)	(b)	(c)				

Accessories**for anti-intruder elements**

5	2	2	2	2	2	2	Locking bolt E, top TS	719152	
49	1	1	1	1	1	1	Anti-drill guard E	721216	
	1	1	1	1	1	1	Security interlock (C-E rail) HS	Can only be used with sealing rail CPMZB0180-...	PMZB0190-50001_
50	6	6	6	6	6	6	Security interlock (C-E rail) HS WK 2 K1		
51	25	25	25	25	25	25	Screw for frame part 5 x 55 mm		

for other requirements

	1	1	1	1	1	1	Bag stop consisting of:	PMZB0140-02101_	831922
52	1	1	1	1	1	1	Stop		
53	1	1	1	1	1	1	Countersunk tapping screw B 4.8 x 70		
54	1	1	1	1	1	1	Cover cap		
	1	1	1	1	1	1	Bag of accessories HS-H for frame corner connection consisting of:	PMZB0440-10001_	
no illus.	1	1	1	1	1	1	Bolt Ø 7 x 40		
no illus.	1	1	1	1	1	1	Clamping screw 6 x 130		
55	1/2	1/2	1/2	1/2	1/2	1/2	Centre lock CE HS PORTAL TS B1 for sealing rail C, no. 29 - 32, mat. no.: PMZB0180-...	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm	PMZB0210-10001_
56	1/2	1/2	1/2	1/2	1/2	1/2	Centre lock CE HS PORTAL TS B1 for sealing rail C made of timber	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm	PMZB0150-10001_
57	1	1	1	1	1	1	Additional lock HS	Sash height 1480 to 3310 mm	PMGB0010-12401_ PMGB0010-13201_
5	1/2	1/2	1/2	1/2	1/2	1/2	Locking bolt E, top TS	for additional lock	719152

Hardware component accessories for ECO PASS threshold

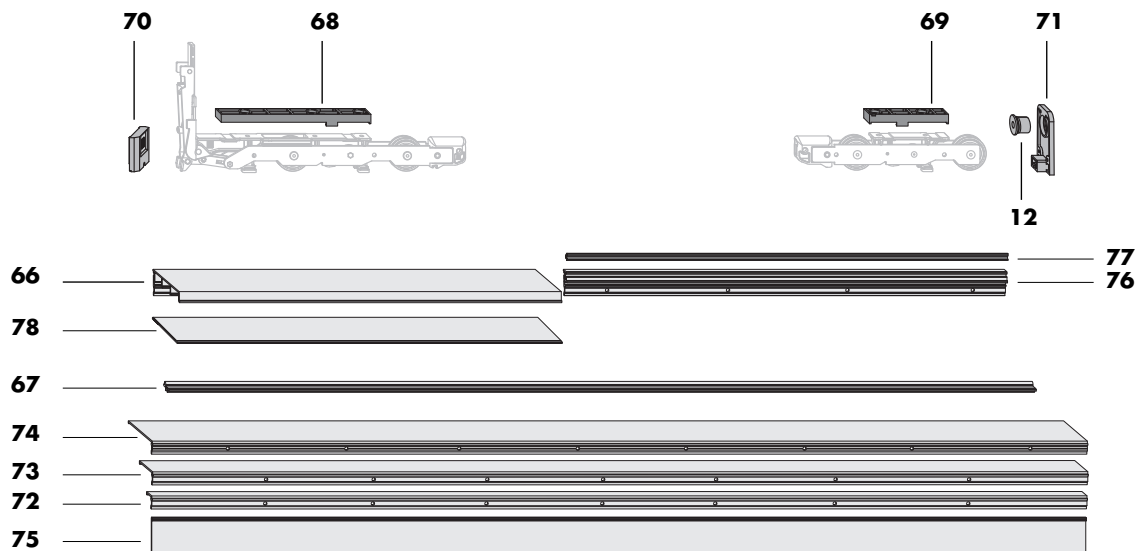


Fig. 4: Hardware diagram HS PORTAL accessories for ECO PASS threshold

No.	Piece scheme				HS PORTAL 300 Material description	Material number	
	A	C	G2	G3		RAL 7035 grey	RAL 9005 black

Accessories for barrier-free elements

66	1	1	1	1	ECO PASS tread threshold B171	Size	Length (in mm)	FW (in mm)	PPTB0180-52401_ PPTB0190-52401_ PPTB0040-52401_
						200	2000	1493 to 4000	
						250	2500	4001 to 5000	
						350	3500	5001 to 6700	
67	1	1	1	1	ECO PASS running rail 5/5	350	3500	1493 to 3500	PPLB5180-52401_ PPLB6240-52401_ PPLB5190-52401_ PPLB6190-52401_ PPLB6200-52401_ PPLB6250-52401_
						400	4000	3501 to 4000	
						450	4500	4001 to 4500	
						500	5000	4501 to 5000	
						570	5700	5001 to 5500	
						670	6700	5501 to 6700	
	1	1	1	1	Bag of sash parts HS barrier-free				PMZB0200-09701_
68	1	1	1	1	Distance plate, long	for bogie wheels, front			
69	1	1	1	1	Distance plate, short	for bogie wheels, back			
no illus.	5	5	5	5	Countersunk tapping screw B 4.8 x 45				PMZB0300-0E601_

for other requirements

72	1	1	1	1	ECO PASS weatherside profile B 20	Size	Length (in mm)	FW (in mm)	PPWB0010-52401_ PPWB0020-52401_
						450	4500	1493 to 4500	
						670	6700	4501 to 6700	
73	1	1	1	1	ECO PASS weatherside profile B 50	450	4500	1493 to 4500	PPWB0030-52401_ PPWB0040-52401_
						670	6700	4501 to 6700	
74	1	1	1	1	ECO PASS weatherside profile B 90	450	4500	1493 to 4500	PPWB0100-52401_ PPWB0110-52401_
						670	6700	4501 to 6700	
75	1	1	1	1	Sealing plate	450	4500	1493 to 4500	PPAB0070-52401_ PPAB0080-52401_
						670	6700	4501 to 6700	
	1	1	1	1	Carton compensation rail¹⁾	450	4500	1493 to 6700	PPZB0250-52401_
76	1	1	1	1	Compensation rail				
77	1	1	1	1	Seal				
78	0/1	0/1	0/1	0/1	ECO PASS flat tread threshold B171 (for anti-slip protection or to cover the joint on two-sided threshold)	Size	Length (in mm)	FW (in mm)	PPTB0240-52401_ PPTB0250-52401_ PPTB0260-52401_ PPTB0270-52401_ PPTB0280-52401_ PPTB0290-52401_ PPTB0300-52401_
						200	2000	1493 to 4000	
						250	2500	4001 to 5000	
						350	3500	5001 to 6700	
						450	4500	to 9000	
						500	5000	9001 to 10000	
						570	5700	10001 to 11400	
						670	6700	11401 to 13400	

¹⁾ required when tread threshold is used

Hardware components for elements with sash weight 300 – 400 kg

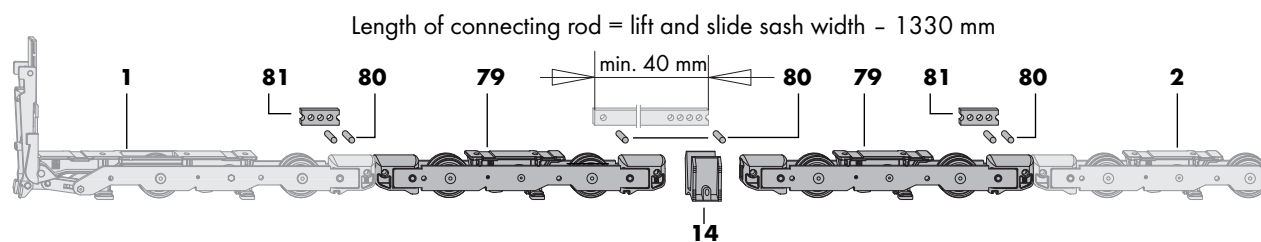


Fig. 5: Hardware diagram HS 400

For a sash weight of 300-400 kg, the connecting rod **must** be fastened to the bogie wheels with Dowel pin 6 x 16 (**80**).

	No.	Piece scheme				HS PORTAL 400			Material number	
		A	C	G2	G3	Material description			RAL 7035 grey	RAL 9005 black
		1	2	1	1	Additional carton HS 400 H TS consisting of:			PMKB0340-10001_	
79		2	4	2	2	Bogie wheels M HS 300 TS				
80		6	12	6	6	Dowel pin 6 x 16				
81		2	4	2	2	Connecting rod Length 40 mm				
27		1	2	1	1	HS PORTAL comfort gear 300 PZ (Length = SH - 115)			EV 1 silver PGKB4070-52401_ PGKB4080-52401_	EV 1 silver PGKB4070-52401_ PGKB4080-52401_
						Size	Handle height (in mm)	SH (in mm)		
						220	1010	1776 to 2275		
						260	1010	2276 to 2675		

PORTAL CATALOGUE

HS 300 H ECO PASS
78/28 HH0130-02/-03/-04

Contents	Page
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Hardware component accessories for ECO PASS threshold.....	53
Hardware components for elements with sash weight of 300 - 400 kg.....	54

Technical specifications and colours are subject to change.

Size range HS 300 H ECO PASS 78/28 HH0130-02/-03/-04

Sash width	HS 300	(mm)	720 to 3335
Sash width	HS 400	(mm)	1370 to 3335
Sash height (sliding sash)	HH 0130-02/-03	(mm)	1175 to 2675
Sash height (sliding sash)	HH 0130-04	(mm)	1190 to 2690
Frame width		(mm)	1470 to 6700
Frame height		(mm)	1308 to 2808
Sash weight	HS 300	(kg)	max. 300
Sash weight	HS 400	(kg)	max. 400
Backset (gear)		(mm)	37.5
Sash timber thickness		(mm)	78
Sash distance		HS (mm)	28
Handle height (window:	SH 1175 - 1775)	(mm)	410
Handle height (door:	SH 1775 - 2675)	(mm)	1010

- The **profile sections** must match the details of the following SIEGENIA-AUBI construction drawings, sash timber thickness 78 mm:

<i>H48.HS_HZS102EN</i>	Sheet 1.1	HS-PORTAL with guiding rail HH0130-04		Scheme A
	Sheet 2.1	HS-PORTAL with guiding rail HH0130-03		Scheme A
	Sheet 3.1	HS-PORTAL with guiding rail HH0130-02		Scheme A
	Sheet 1.2	HS-PORTAL		Scheme C
	Sheet 1.3	HS-PORTAL with guiding rail HH0130-04		Scheme D
	Sheet 2.3	HS-PORTAL with guiding rail HH0130-03		Scheme D
	Sheet 3.3	HS-PORTAL with guiding rail HH0130-02		Scheme D
	Sheet 1.4	HS-PORTAL		Scheme G2
	Sheet 1.5	HS-PORTAL		Scheme G3
	Sheet 5.1	HS-PORTAL with guiding rail HH0130-04	barrier-free	Scheme A
	Sheet 6.1	Threshold cutting dimensions		Scheme A
	Sheet 6.2	Threshold cutting dimensions		Scheme C

- With a sash weight of 200 kg or more, we recommend using Comfort gear HS PORTAL 300 PZ – PGKB4070-52401_ or PGKB4080-52401_
- With a sash weight of 300 kg or more, the use of Comfort gear HS PORTAL 300 PZ – PGKB4070-52401_ or PGKB4080-52401_ is required.
- For HS 300 with a sash weight of 300-400 kg, the connecting rod must be fastened to the bogie wheels with Dowel pin 6 x 16 (**80**).
- We recommend the use of stainless steel screws for the mounting of components to the ECO PASS threshold.
- The threshold must be shimmed at intervals of 300 mm to be pressure-tight and sound-absorbing.
- We recommend using the following elastic adhesives and sealants: e.g. from OTTO Chemie - OTTOCOLL® HiTack or from Collano Adhesives AG - Collano® A 1970 or equivalent.

Hardware components scheme A

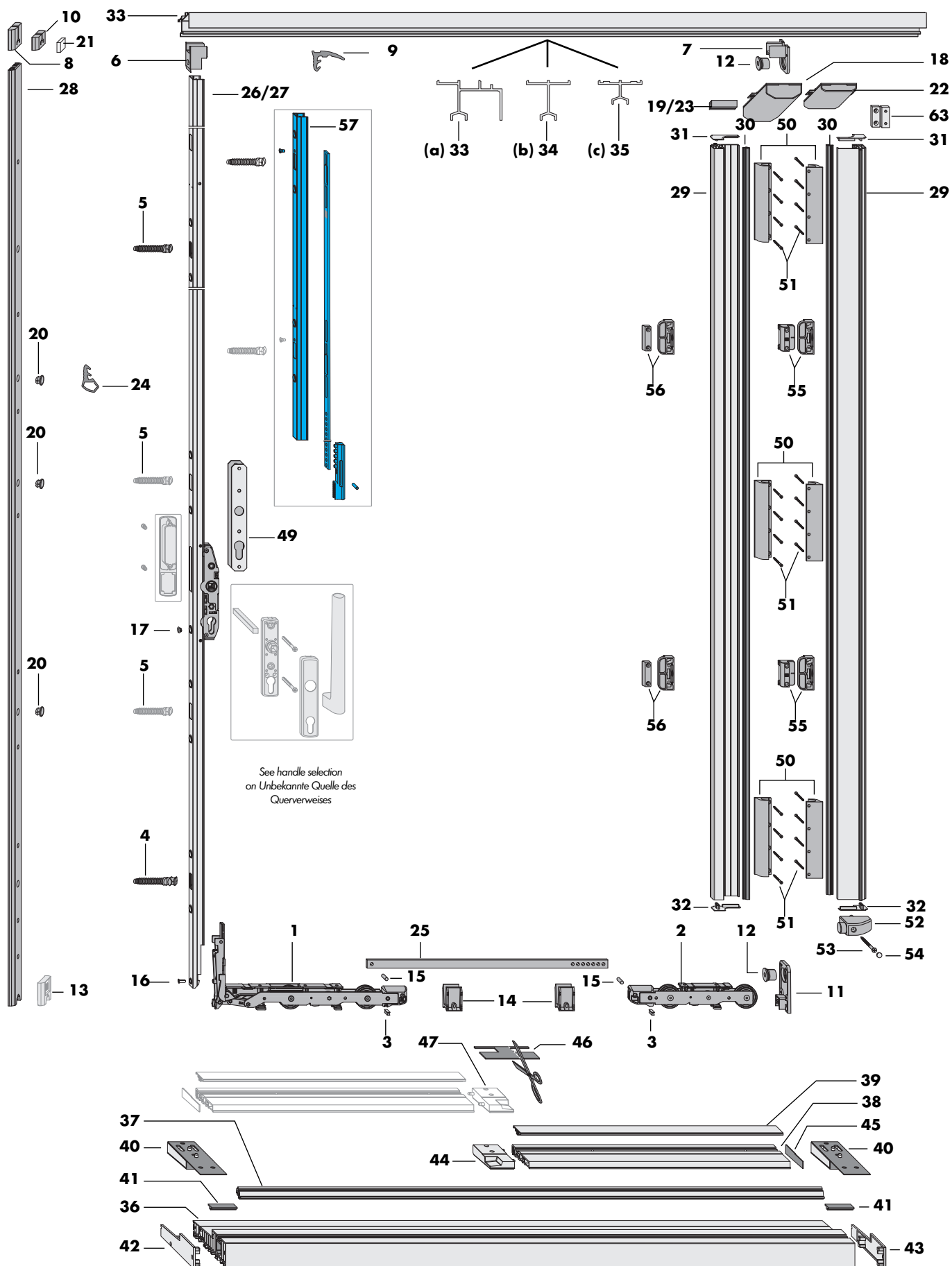


Fig. 1: Hardware diagram HS 300 scheme A

No.	Piece scheme			HS PORTAL 300 scheme A	Material number	
	A (a)	A (b)	A (c)		RAL 7035 grey	RAL 9005 black
General requirements	1	1	1	Handle Si-line HS PORTAL 300	See handle selection on Unbekannte Quelle des Querverweises	
	1	1	1	Basic carton HS 300 TS consisting of:	PMKB0300-10001_	
	1	1	1	Bogie wheels V	VSU HS 300 TS	
	2	1	1	Bogie wheels H	HS 300 TS	
	3	1	1	Brush	Length 100 mm	
	1	1	-	Carton HS-H HH0130-02/-03 consisting of:	for guiding rail HH0130-02/-03	
	4	1	-	Locking bolt E, bottom TS		
	5	1	-	Locking bolt E, top TS		
	6	1	-	Front top guide		
	7	1	-	Rear top guide		
	8	1	-	Top filling piece	for guiding rail HH0130-02/-03	
	9	1	-	Top seal HH0134-01	Length 10.2 m	
	-	-	1	Carton HS-H HH0130-04 consisting of:	for guiding rail HH0130-04	
	4	-	1	Locking bolt E, bottom TS		
	5	-	1	Locking bolt E, top TS		
	6	-	1	Front top guide		
	7	-	1	Rear top guide		
	10	-	1	Top filling piece	for guiding rail HH0130-04	
	9	-	1	Top seal HH0134-01	Length 10.2 m	
	1	1	1	Bag of accessories HS-H bottom high consisting of:		
	11	1	1	Cover plate, bottom rear high		
	12	2	2	Stop		
	13	1	1	Bottom high filling piece	for sealing rail B made of timber	
	14	2	2	Bottom guide		
	15	2	2	Dowel pin 6 x 16		
	16	1	1	Countersunk screw M5 x 13		
	17	1	1	Bag closing cap	grey	
				Bag closing cap	brown	
	1	1	-	Sealing elements set HS-H HH0130-02/03 IV 78 consisting of:		
	18	1	-	Gasket bridge size 3		
	19	1	-	Top seal		
	20	3	-	Bag closing cap	for sealing rail B	
	21	1	1	Top sealing part		
	-	-	1	Sealing elements set HS-H HH0130-04 IV 78 consisting of:		
	22	-	1	Gasket bridge 92/15		
	23	-	1	Top seal		
	20	-	3	Bag closing cap	for sealing rail B	
	21	1	1	Top sealing part		
	24	1	1	Seal HH0134-02	Length 17.5 m	
depend. on SW	25	1	1	Connecting rod	Size Length (in mm) SW (in mm) 150 TS 898 720 to 1500 200 TS 1398 1501 to 2000 250 TS 1898 2001 to 2500 335 TS 2748 2501 to 3350	719282 719480 719497 719725
depending on SH	26	1	1	HS PORTAL 300 gear PZ	Size Handle height (in mm) SH (in mm) 170 410 1208 to 1775 220 1010 1776 to 2275 260 1010 2276 to 2675	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_
	27	1	1	Comfort gear HS PORTAL 300 PZ for lift and slide sashes from 200 kg	Size Handle height (in mm) SH (in mm) 220 1010 1776 to 2275 260 1010 2276 to 2675	EV 1 silver PGKB4070-52401_ PGKB4080-52401_
	28	1	1	Sealing rail B Alternative: rail B in timber version.	Size SH (in mm) 260 1208 to 2675	PPDB0010-02101_ PPDB0010-02301_
		1	1	Sealing rail C Alternative: rail C in timber version.	Size Sash distance (in mm) SH (in mm) 260 28 1208 to 2675	PMZB0180-02101_
	29	2	2	Sealing rail C HS	Length 2.7 m	
	30	2	2	Sealing profile rail C HS	for sealing rail C	
	31	2	2	Cover cap left sealing rail C		
	32	2	2	Cover cap right sealing rail C		

A (a) = Element with guiding rail HH 0130-02 A (b) = Element with guiding rail HH 0130-03 A (c) = Element with guiding rail HH 0130-04 

Continued on next page

No.	Piece scheme			HS PORTAL 300 scheme A				Material number	
	A (a)	A (b)	A (c)	Material description				RAL 7035 grey	RAL 9005 black
depending on FW	33	1	-	-	Guiding rail HH0130-02 for STT 78 mm	Size	Length (in mm)	FW (in mm)	EV 1 silver
						300	2900	1470 to 3000	137154
						350	3400	3001 to 3500	137161
						400	3900	3501 to 4000	152669
						450	4400	4001 to 4500	153390
						500	4900	4501 to 5000	151341
						570	5600	5001 to 5700	151167
						670	6600	5701 to 6700	150498
	34	-	1	-	Guiding rail HH0130-03 for STT 78 mm	Size	Length (in mm)	FW (in mm)	PPFB0100-52401_
						300	2900	1470 to 3000	PPFB0110-52401_
depending on FW						350	3400	3001 to 3500	PPFB0120-52401_
						400	3900	3501 to 4000	PPFB0130-52401_
						450	4400	4001 to 4500	126813
						500	4900	4501 to 5000	-
						570	5600	5001 to 5700	126837
						670	6600	5701 to 6700	126844
	35	-	-	1	Guiding rail HH0130-04 for STT 78 mm Only in conjunction with ECO PASS running rail M/5	Size	Length (in mm)	FW (in mm)	-
						300	2900	1470 to 3000	PPFB0230-52401_
						350	3400	3001 to 3500	-
						400	3900	3501 to 4000	PPFB0200-52401_
depending on FW						450	4400	4001 to 4500	-
						500	4900	4501 to 5000	PPFB0210-52401_
						570	5600	5001 to 5700	-
						670	6600	5701 to 6700	-
	36	1	1	1	ECO PASS threshold B182	Size	Length (in mm)	FW (in mm)	PPBB0680-52401_
						300	3000	1493 to 3000	PPBB0690-52401_
						350	3500	3001 to 3500	PPBB0700-52401_
						400	4000	3501 to 4000	PPBB0710-52401_
						450	4500	4001 to 4500	PPBB0720-52401_
						500	5000	4501 to 5000	PPBB0760-52401_
depending on FW						570	5700	5001 to 5500	PPBB0730-52401_
						670	6700	5501 to 6700	-
	37	1	1	1	ECO PASS running rail M/15	Size	Length (in mm)	FW (in mm)	PPLB5120-52401_
						350	3500	1493 to 3500	PPLB6130-52401_
						400	4000	3501 to 4000	PPLB5130-52401_
						450	4500	4001 to 4500	PPLB6140-52401_
						500	5000	4501 to 5000	PPLB6150-52401_
						570	5700	5001 to 5500	PPLB5160-52401_
						670	6700	5501 to 6700	-
	38	1	1	1	ECO PASS support rail B182 S106	Size	Length (in mm)	SW (in mm)	PPZB5360-02101_
depending on FW						150	1500	720 to 1500	PPZB5370-02101_
						200	2000	1501 to 2000	PPZB5380-02101_
						250	2500	2001 to 2500	PPZB5220-02101_
						350	3500	2501 to 3350	-
	39	1	1	1	ECO PASS adapter rail H M for timber profile	Size	Length (in mm)	FW (in mm)	PPZB5410-02101_
						150	1500	720 to 1500	PPZB5420-02101_
						200	2000	1501 to 2000	PPZB5430-02101_
						250	2500	2001 to 2500	PPZB5190-02101_
						350	3500	2501 to 3350	-
									-
depending on FW		1	1	1	Frame corner connection H EP B182 consisting of:	ECO PASS for timber elements			PMRB0160-02101_
	40	2	2	2	ECO PASS sealing part REV				
	41	2	2	2	Seal	for recess running rail REV			
	42	1	1	1	End cap, left	for ECO PASS threshold			
	43	1	1	1	End cap, right	for ECO PASS threshold			
		1	1	1	Sealing part MPEP H B182, left consisting of:	for DIN, left			PMRB0182-02101_
	44	1	1	1	ECO PASS sealing part MP, left B182	for sealing between sliding and fixed sash			
	45	1	1	1	End seal MP	for sealing support rail and sealing block REV			
	46	1	1	1	Sealing pad H B182	on sealing block and support rail			
		1	1	1	Sealing part MPEP H B182, right consisting of:	for DIN, right			PMRB0181-02101_
depending on FW	47	1	1	1	ECO PASS sealing part MP, right B182	for sealing between sliding and fixed sash			
	45	1	1	1	End seal MP	for sealing support rail and sealing block REV			
	46	1	1	1	Sealing pad H B182	on sealing block and support rail			

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No.	Piece scheme			HS PORTAL 300 scheme A	Material description	Material number	
	A (a)	A (b)	A (c)			RAL 7035 grey	RAL 9005 black

Accessories**for anti-intruder elements**

5	2	2	2	Locking bolt E, top TS		719152	
48	-	-	-	Top locking part C TS		719466	
49	1	1	1	Anti-drill guard E		721216	
	1	1	1	Security interlock (C-E rail) HS consisting of:	Can only be used with sealing rail CPMZB0180...	PMZB0190-50001_	
50	6	6	6	Security interlock (C-E rail) HS WK 2 K1			
51	25	25	25	Screw for frame part 5 x 55 mm			

for other requirements

	1	1	1	Bag stop consisting of:		PMZB0140-02101_	831922
52	1	1	1	Stop			
53	1	1	1	Countersunk tapping screw B 4.8 x 70			
54	1	1	1	Cover cap			
	1	1	1	Bag of accessories HS-H for frame corner connection consisting of:		PMZB0440-10001_	
no illus.	1	1	1	Bolt Ø 7 x 40			
no illus.	1	1	1	Clamping screw 6 x 130			
55	1/2	1/2	1/2	Centre lock CE HS-PORTAL TS B1 for sealing rail C, no. 29 - 32 , mat. no.: PMZB0180...	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm	PMZB0210-10001_	
56	1/2	1/2	1/2	Centre lock CE HS-PORTAL TS B1 for sealing rail C made of timber	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm	PMZB0150-10001_	
57	1	1	1	Additional lock HS	Sash height 1480 to 3310 mm	PMGB0010-12401_	PMGB0010-13201_
5	1/2	1/2	1/2	Locking bolt E, top TS	for additional lock	719152	

Hardware components scheme C

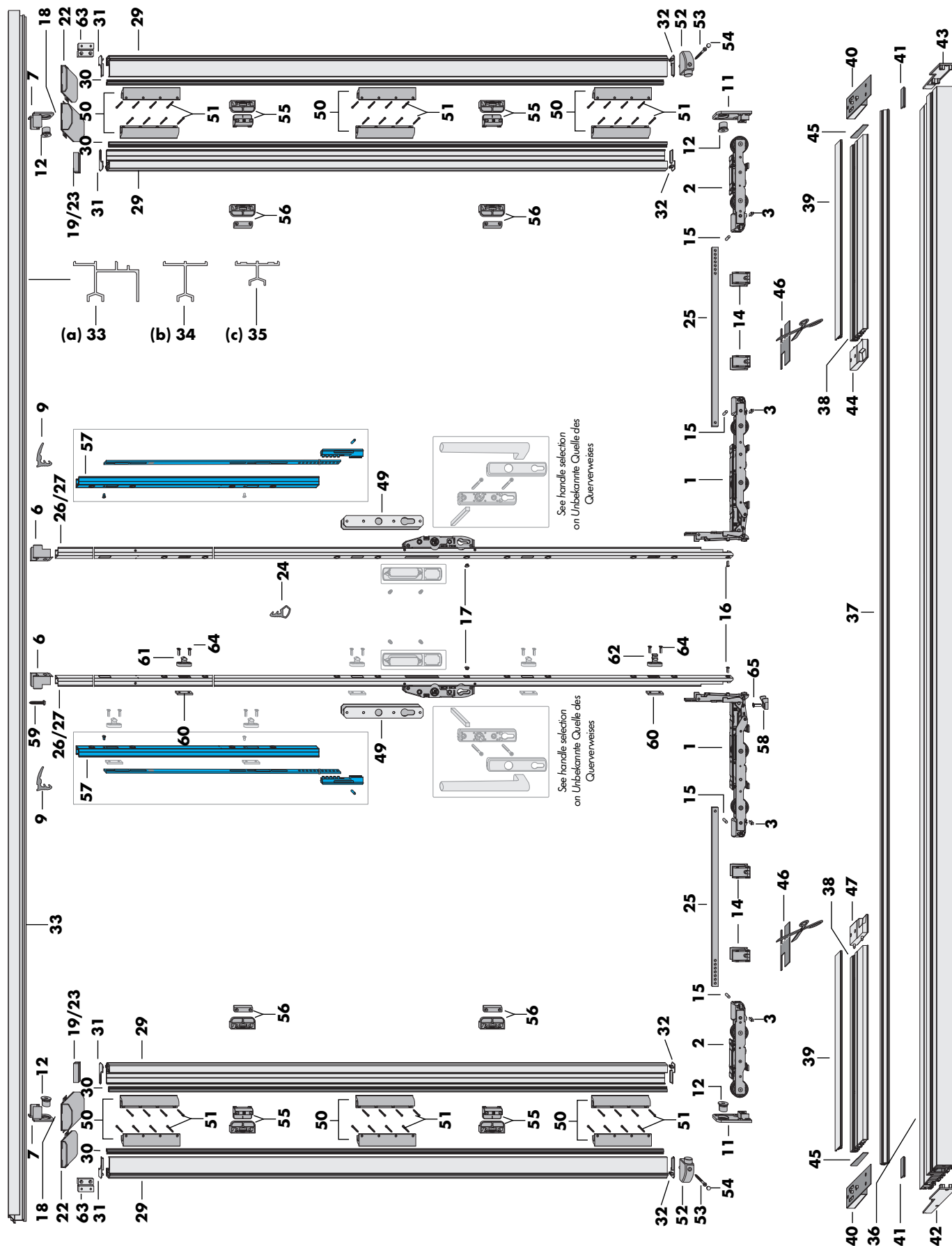


Fig. 2: Hardware diagram HS 300 scheme C

	No.	Piece scheme			HS PORTAL 300 scheme C	Material number	
		C (a)	C (b)	C (c)		RAL 7035 grey	RAL 9005 black
General requirements		2	2	2	Handle Si-line HS PORTAL 300	See handle selection on Unbekannte Quelle des Querverweises	
		2	2	2	Basic carton HS 300 C TS consisting of:	PMKB0310-10001_	
	1	2	2	2	Bogie wheels V	VSU HS 300 TS	
	2	2	2	2	Bogie wheels H	HS 300 TS	
	3	1	1	1	Brush	Length 100 mm	
		2	2	-	Carton HS-H HH0130-02/-03 consisting of:	for guiding rail HH0130-02/03	PMZB0330-02101_ PMZB0330-02301_
	4	-	-	-	Locking bolt E, bottom TS		
	5	-	-	-	Locking bolt E, top TS		
	6	2	2	-	Front top guide		
	7	2	2	-	Rear top guide		
	8	-	-	-	Top filling piece		
	9	2	2	-	Top seal HH013401	Length 10.2 m	
		-	-	2	Carton HS-H HH0130-04 consisting of:	for guiding rail HH0130-04	PMZB0340-02101_ PMZB0340-02301_
	4	-	-	-	Locking bolt E, bottom TS		
	5	-	-	-	Locking bolt E, top TS		
	6	-	-	2	Front top guide		
	7	-	-	2	Rear top guide		
	10	-	-	-	Top filling piece	for guiding rail HH0130-04	
	9	-	-	2	Top seal HH013401	Length 10.2 m	
		2	2	2	Bag of accessories HS-H bottom high consisting of:		PMZB0310-02101_ PMZB0310-02301_
	11	2	2	2	Cover plate, bottom rear high		
	12	4	4	4	Stop		
	13	-	-	-	Bottom high filling piece	for sealing rail B made of timber	
	14	4	4	4	Bottom guide		
	15	4	4	4	Dowel pin 6 x 16		
	16	2	2	2	Countersunk screw M5 x 13		
	17	2	2	2	Bag closing cap	grey	
					Bag closing cap	brown	
		1	1	1	Bag of accessories HS-H consisting of:	for scheme C	239087
	58	1	1	1	Locking part G TS		
	59	1	1	1	Head self-tapping screw B 6.3 X 38-A2		
	60	2	2	2	Threaded plate M 5		
	61	1	1	1	Top locking part C TS		
	62	1	1	1	Bottom locking part C TS		
	63	-	-	-	Stop HS 10FA	only required for sash distance 10 mm	
	64	4	4	4	Countersunk screw PZD DIN965 M5X20-A2		
	65	1	1	1	Countersunk screw PZD DIN965 M6X20-A2		
		2	2	-	Sealing elements set HS-H HH0130-02/03 IV 78 consisting of:		PMZB0370-02101_ PMZB0370-02301_
	18	2	2	-	Gasket bridge size 3		
	19	2	2	-	Top seal		
	20	-	-	-	Bag closing cap	for sealing rail B	
	21	-	-	-	Top sealing part		
		-	-	2	Sealing elements set HS-H HH0130-04 IV 78 consisting of:		PMZB0410-02101_ PMZB0410-02301_
	22	-	-	2	Gasket bridge 92/15		
	19	-	-	2	Top seal		
	20	-	-	-	Bag closing cap	for sealing rail B	
	21	-	-	-	Top sealing part		
	24	2	2	2	Seal HH0134-02	Length 17.5 m	PDPB0030-02101_ PDPB0030-09901_
depend. on SW	25	2	2	2	Connecting rod	Size Length (in mm) SW (in mm) 150 TS 898 720 to 1500 200 TS 1398 1501 to 2000 250 TS 1898 2001 to 2500 335 TS 2748 2501 to 3350	719282 719480 719497 719725
depending on SH	26				HS PORTAL 300 gear PZ	Size Handle height (in mm) SH (in mm) 170 410 1208 to 1775 220 1010 1776 to 2275 260 1010 2276 to 2675	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_
		2	2	2	or lift and slide sashes up to 200 kg		
	27				Comfort gear HS PORTAL 300 PZ	Size Handle height (in mm) SH (in mm) 220 1010 1776 to 2275 260 1010 2276 to 2675	EV 1 silver PGKB4070-52401_ PGKB4080-52401_
					for lift and slide sashes from 200 kg		
		2	2	2	Sealing rail C	Size Sash distance (in mm) SH (in mm) 260 28 1208 to 2675	PMZB0180-02101_
					Alternative: rail C in timber version.		
	29	4	4	4	Sealing rail C HS	Length 2.7 m	
	30	4	4	4	Sealing profile rail C HS	for sealing rail C	
	31	4	4	4	Cover cap left sealing rail C		
	32	4	4	4	Cover cap right sealing rail C		

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No.	Piece scheme			HS PORTAL 300 scheme C				Material number								
	C (a)	C (b)	C (c)	Material description				RAL 7035 grey	RAL 9005 black							
depending on FW	33	1	-	-	Guiding rail HH0130-02 for STT 78 mm	Size	Length (in mm)	FW (in mm)	EV 1 silver 137154 137161 152669 153390 151341 151167 150498	C 34 dark bronze 137178 - 151037 - 155165 - 155196						
						300	2900	1470 to 3000								
						350	3400	3001 to 3500								
						400	3900	3501 to 4000								
						450	4400	4001 to 4500								
						500	4900	4501 to 5000								
						570	5600	5001 to 5700								
						670	6600	5701 to 6700								
	34	-	1	-	Guiding rail HH0130-03 for STT 78 mm	Size	Length (in mm)	FW (in mm)	PPFB0100-52401_ PPFB0110-52401_ PPFB0120-52401_ PPFB0130-52401_ 126813 - 126837	- - - - 126820 - 126844						
						300	2900	1470 to 3000								
						350	3400	3001 to 3500								
						400	3900	3501 to 4000								
						450	4400	4001 to 4500								
						500	4900	4501 to 5000								
						570	5600	5001 to 5700								
						670	6600	5701 to 6700								
	35	-	-	1	Guiding rail HH0130-04 for STT 78 mm Only in conjunction with ECO PASS running rail M/5	Size	Length (in mm)	FW (in mm)	- PPFB0230-52401_ - PPFB0200-52401_ - - PPFB0210-52401_	- - - - - -						
						300	2900	1470 to 3000								
						350	3400	3001 to 3500								
						400	3900	3501 to 4000								
						450	4400	4001 to 4500								
						500	4900	4501 to 5000								
						570	5600	5001 to 5700								
						670	6600	5701 to 6700								
	36	1	1	1	ECO PASS threshold B182	300	3000	1493 to 3000	PPBB0680-52401_ PPBB0690-52401_ PPBB0700-52401_ PPBB0710-52401_ PPBB0720-52401_ PPBB0760-52401_ PPBB0730-52401_	-						
						350	3500	3001 to 3500								
						400	4000	3501 to 4000								
						450	4500	4001 to 4500								
500						5000	4501 to 5000									
570						5700	5001 to 5500									
670						6700	5501 to 6700									
37						1	1	1			ECO PASS running rail M/15	350	3500	1493 to 3500	PPLB5120-52401_ PPLB6130-52401_ PPLB5130-52401_ PPLB6140-52401_ PPLB6150-52401_ PPLB5160-52401_	-
	400	4000	3501 to 4000													
	450	4500	4001 to 4500													
	500	5000	4501 to 5000													
	570	5700	5001 to 5500													
	670	6700	5501 to 6700													
	38	2	2	2	ECO PASS support rail B182 S106				Size	Length (in mm)		SW (in mm)	PPZB5360-02101_ PPZB5370-02101_ PPZB5380-02101_ PPZB5220-02101_	-		
									150	1500		720 to 1500				
200						2000	1501 to 2000									
250						2500	2001 to 2500									
350						3500	2501 to 3350									
39	2	2	2	ECO PASS adapter rail H M for timber profile	150	1500	720 to 1500	PPZB5410-02101_ PPZB5420-02101_ PPZB5430-02101_ PPZB5190-02101_	-							
					200	2000	1501 to 2000									
					250	2500	2001 to 2500									
					350	3500	2501 to 3350									
depending on FW		1	1	1	Frame corner connection H EP B182 consisting of:	ECO PASS for timber elements			PMRB0160-02101_							
	40	1	1	1	ECO PASS sealing part REV											
	41	1	1	1	Seal	for recess running rail REV										
	42	1	1	1	End cap, left	for ECO PASS threshold										
	43	1	1	1	End cap, right	for ECO PASS threshold										
		1	1	1	Sealing part MP EP H B182, left consisting of:	for DIN, left			PMRB0182-02101_							
	44	1	1	1	ECO PASS sealing part MP, left B182	for sealing between sliding and fixed sash										
	45	1	1	1	End seal MP	for sealing support rail and sealing block REV										
	46	1	1	1	Sealing pad H B182	on sealing block and support rail										
		1	1	1	Sealing part MP EP H B182, right consisting of:	for DIN, right										
	47	1	1	1	ECO PASS sealing part MP, right B182	for sealing between sliding and fixed sash			PMRB0181-02101_							
	45	1	1	1	End seal MP	for sealing support rail and sealing block REV										
	46	1	1	1	Sealing pad H B182	on sealing block and support rail										

Continued on next page

No.	Piece scheme			HS PORTAL 300 scheme C	Material number
	C (a)	C (b)	C (c)		
Material description					
Accessories					
for anti-intruder elements					
61	2	2	2	Unbekannte Quelle des Querverweises	719466
49	2	2	2	Anti-drill guard E	721216
	2	2	2	Security interlock (C-E rail) HS	PMZB0190-50001_
50	12	121	12	Security interlock (C-E rail) HS WK 2 K1	
51	50	50	50	Screw for frame part 5 x 55 mm	
for other requirements					
	2	2	2	Bag stop consisting of:	PMZB0140-02101_
52	2	2	2	Stop	831922
53	2	2	2	Countersunk tapping screw B 4.8 x 70	
54	2	2	2	Cover cap	
	1	1	1	Bag of accessories HS-H for frame corner connection consisting of:	PMZB0440-10001_
no illus.	1	1	1	Bolt Ø 7 x 40	
no illus.	1	1	1	Clamping screw 6 x 130	
55	2/4	2/4	2/4	Centre lock CE HS-PORTAL TS B1 for sealing rail C, no. 29 - 32 , mat. no.: PMZB0180-...	PMZB0210-10001_
56	2/4	2/4	2/4	Centre lock CE HS-PORTAL TS B1 for sealing rail C made of timber	PMZB0150-10001_
57	2	2	2	Additional lock HS	PMGB0010-12401_ PMGB0010-13201_
61	2/4	2/4	2/4	Unbekannte Quelle des Querverweises	719152
				for additional lock	

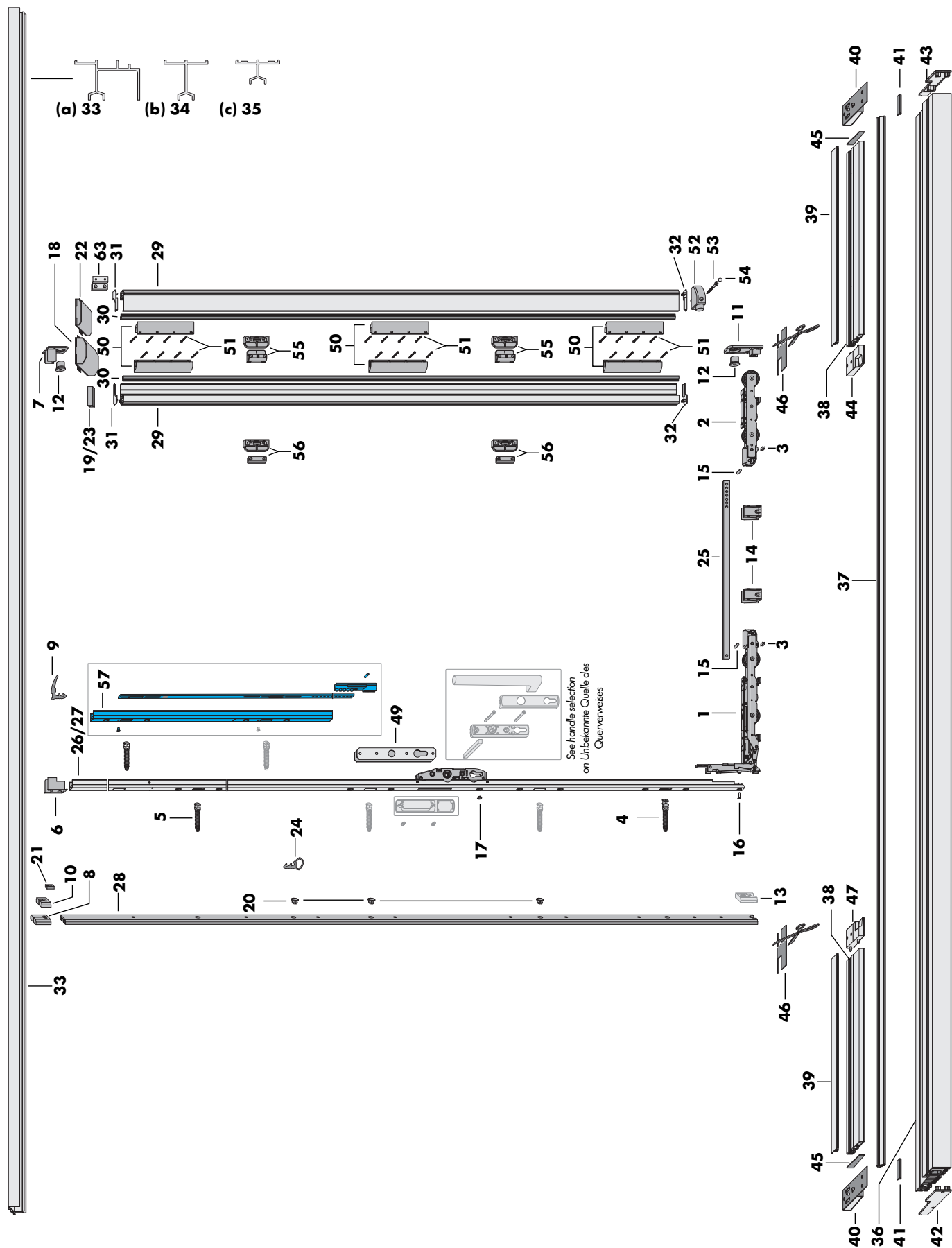


Fig. 3: Hardware diagram HS 300 scheme G 2 and G 3

	No.	Piece scheme						HS PORTAL 300 scheme G2/G3				Material number			
		G 2			G 3			Material description				RAL 7035 grey	RAL 9005 black		
		(a)	(b)	(c)	(a)	(b)	(c)								
General requirements		1	1	1	1	1	1	Handle Si-line HS PORTAL 300				See handle selection on Unbekannte Quelle des Querverweises			
	1	1	1	1	1	1	1	Basic carton HS 300 H TS consisting of:				PMKB0300-10001_			
			1	1	1	1	1	1	Bogie wheels V		VSU HS 300 TS				
		2	1	1	1	1	1	1	Bogie wheels H		HS 300 TS				
		3	1	1	1	1	1	1	Brush		Length 100 mm				
	4	1	1	-	1	1	-	Carton HS-H HH0130-02/-03 consisting of:		for guiding rail HH0130-02/03		PMZB0330-02101_	PMZB0330-02301_		
			1	1	1	1	1	1	Locking bolt E, bottom TS						
		5	1	1	1	1	1	1	Locking bolt E, top TS						
		6	1	1	1	1	1	1	Front top guide						
		7	1	1	1	1	1	1	Rear top guide						
		8	1	1	1	1	1	1	Top filling piece						
		9	1	1	1	1	1	1	Top seal HH0134-01		Length 10.2	PMZB0340-02101_	PMZB0340-02301_		
		-	-	1	-	-	1	Carton HS-H HH0130-04 consisting of:		for guiding rail HH0130-04					
		4	-	-	1	-	-	1	Locking bolt E, bottom TS						
	5	-	-	1	-	-	1	Locking bolt E, top TS							
	6	-	-	1	-	-	1	Front top guide							
		7	-	-	1	-	-	1	Rear top guide						
		10	-	-	1	-	-	1	Top filling piece		for guiding rail HH0130-04				
		9	-	-	1	-	-	1	Top seal HH0134-01		Length 10.2 m				
		1	1	1	1	1	1	Bag of accessories HS-H bottom high consisting of:						PMZB0310-02101_	PMZB0310-02301_
		11	1	1	1	1	1	1	Cover plate, bottom rear high						
		12	2	2	2	2	2	2	Stop						
		13	1	1	1	1	1	1	Bottom high filling piece						
		14	2	2	2	2	2	2	Bottom guide						
	15	2	2	2	2	2	2	Dowel pin 6 x 16							
	16	1	1	1	1	1	1	Countersunk screw M5 x 13							
	17	1	1	1	1	1	1	Bag closing cap		grey	brown				
								Bag closing cap							
	18	1	1	-	1	1	-	Sealing elements set HS-H HH0130-02/03 IV 78 consisting of:				PMZB0370-02101_	PMZB0370-02301_		
			1	1	1	1	1	1	Gasket bridge size 3						
		19	1	1	1	1	1	1	Top seal						
		20	3	3	3	3	3	3	Bag closing cap		for sealing rail B				
21		1	1	1	1	1	1	Top sealing part				PMZB0410-02101_	PMZB0410-02301_		
-	-	1	-	-	1	Sealing elements set HS-H HH0130-04 IV 78 consisting of:									
22	-	-	1	-	-	1	Gasket bridge 92/15								
19	-	-	1	-	-	1	Top seal								
20	-	-	1	-	-	1	Bag closing cap		for sealing rail B						
21	1	1	1	1	1	1	Top sealing part								
24	1	1	1	1	1	1	Seal HH0134-02		Length 17.5 m						
											PDPB0030-02101_	PDPB0030-09901_			
depend. on SW								Connecting rod				Size	Length (in mm)	SW (in mm)	719282 719480 719497 719725
	25	1	1	1	1	1	1	150 TS	898	720 to 1500					
								200 TS	1398	1501 to 2000					
								250 TS	1898	2001 to 2500					
								335 TS	2748	2501 to 3350					
depending on SH	26							HS PORTAL 300 gear PZ		Size	Handle height (in mm)	SH (in mm)	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_		
	27	1	1	1	1	1	1	170	410	1208 to 1775	220	1010	1776 to 2275	EV 1 silver PGKB4070-52401_ PGKB4080-52401_	
								220	1010	1776 to 2275					
								260	1010	2276 to 2675					
	28	1	1	1	1	1	1	Comfort gear HS PORTAL 300 PZ		Size	Handle height (in mm)	SH (in mm)	PPDB0010-02101_	PPDB0010-02301_	
								for lift and slide sashes from 200 kg		220	1010	1776 to 2275			
	29	1	1	1	1	1	1	Sealing rail B Alternative: rail B in timber version.		Size		SH (in mm)	PMZB0180-02101_		
										260	1208 to 2675				
		1	1	1	1	1	1	Sealing rail C Alternative: rail C in timber version.		Size	Sash distance (in mm)	SH (in mm)			
										260	28	1208 to 2675			
29		2	2	2	2	2	2	Sealing rail C HS		Length 2.7 m					
30		2	2	2	2	2	2	Sealing profile rail C HS		for sealing rail C					
31	2	2	2	2	2	2	Cover cap left sealing rail C								
32	2	2	2	2	2	2	Cover cap right sealing rail C								

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No.	Piece scheme						HS PORTAL 300 scheme G2/G3						Material number	
	G 2			G 3			Material description						RAL 7035 grey	RAL 9005 black
	(a)	(b)	(c)	(a)	(b)	(c)								
depending on FW	33	1	-	-	1	-	-	Guiding rail HH0130-02 for STT 78 mm	Size	Length (in mm)	FW (in mm)	EV 1 silver 137154 137161 152669 153390 151341 151167 150498	C 34 dark bronze 137178 - 151037 - 155165 - 155196	
									300	2900	1470 to 3000			
									350	3400	3001 to 3500			
									400	3900	3501 to 4000			
									450	4400	4001 to 4500			
									500	4900	4501 to 5000			
									570	5600	5001 to 5700			
									670	6600	5701 to 6700			
	34	-	1	-	-	1	-	Guiding rail HH0130-03 for STT 78 mm	Size	Length (in mm)	FW (in mm)	PPFB0100-52401_ PPFB0110-52401_ PPFB0120-52401_ PPFB0130-52401_ 126813 - 126837	126820 126844	
									300	2900	1470 to 3000			
									350	3400	3001 to 3500			
									400	3900	3501 to 4000			
									450	4400	4001 to 4500			
									500	4900	4501 to 5000			
									570	5600	5001 to 5700			
									670	6600	5701 to 6700			
	35	-	-	1	-	-	1	Guiding rail HH0130-04 for STT 78 mm Only in conjunction with ECO PASS running rail M/5	Size	Length (in mm)	FW (in mm)	- PPFB0230-52401_ - PPFB0200-52401_ - - PPFB0210-52401_		
									300	2900	1470 to 3000			
									350	3400	3001 to 3500			
									400	3900	3501 to 4000			
									450	4400	4001 to 4500			
									500	4900	4501 to 5000			
									570	5600	5001 to 5700			
									670	6600	5701 to 6700			
	36	1	1	1	1	1	1	ECO PASS threshold B182	300	3000	1493 to 3000	PPBB0680-52401_ PPBB0690-52401_ PPBB0700-52401_ PPBB0710-52401_ PPBB0720-52401_ PPBB0760-52401_ PPBB0730-52401_		
									350	3500	3001 to 3500			
									400	4000	3501 to 4000			
									450	4500	4001 to 4500			
									500	5000	4501 to 5000			
									570	5700	5001 to 5500			
									670	6700	5501 to 6700			
	37	1	1	1	1	1	1	ECO PASS running rail M/15	350	3500	1493 to 3500	PPLB5120-52401_ PPLB6130-52401_ PPLB5130-52401_ PPLB6140-52401_ PPLB6150-52401_ PPLB5160-52401_		
									400	4000	3501 to 4000			
									450	4500	4001 to 4500			
									500	5000	4501 to 5000			
									570	5700	5001 to 5500			
									670	6700	5501 to 6700			
38	2	2	2	2	2	2	ECO PASS support rail B182 S106	Size	Length (in mm)	SW (in mm)	PPZB5360-02101_ PPZB5370-02101_ PPZB5380-02101_ PPZB5220-02101_			
								150	1500	720 to 1500				
								200	2000	1501 to 2000				
								250	2500	2001 to 2500				
39	2	2	2	2	2	2	ECO PASS adapter rail H M for timber profile	350	3500	2501 to 3350	PPZB5410-02101_ PPZB5420-02101_ PPZB5430-02101_ PPZB5190-02101_			
								150	1500	720 to 1500				
								200	2000	1501 to 2000				
								250	2500	2001 to 2500				
depending on FW		1	1	1	1	1	1	Frame corner connection H EP B182 consisting of:	ECO PASS for timber elements			PMRB0160-02101_		
	40	1	1	1	1	1	1	ECO PASS sealing part REV						
	41	1	1	1	1	1	1	Seal	for recess running rail REV					
	42	1	1	1	1	1	1	End cap, left	for ECO PASS threshold					
	43	1	1	1	1	1	1	End cap, right	for ECO PASS threshold			PMRB0182-02101_		
		1	1	1	1	1	1	Sealing part MP EP H B182, left consisting of:	for DIN, left					
	44	1	1	1	1	1	1	ECO PASS sealing part MP, left B182	for sealing between sliding and fixed sash					
	45	1	1	1	1	1	1	End seal MP	for sealing support rail and sealing block REV					
	46	1	1	1	1	1	1	Sealing pad H B182	on sealing block and support rail			PMRB0181-02101_		
		1	1	1	1	1	1	Sealing part MP EP H B182, right consisting of:	for DIN, right					
	47	1	1	1	1	1	1	ECO PASS sealing part MP, right B182	for sealing between sliding and fixed sash					
	45	1	1	1	1	1	1	End seal MP	for sealing support rail and sealing block REV					
	46	1	1	1	1	1	1	Sealing pad H B182	on sealing block and support rail					

Continued on next page

No.	Piece scheme						HS PORTAL 300 scheme G2/G3	Material description	Material number	
	G 2			G 3					RAL 7035 grey	RAL 9005 black
	(a)	(b)	(c)	(a)	(b)	(c)				

Accessories**for anti-intruder elements**

5	2	2	2	2	2	2	Locking bolt E, top TS	719152
49	1	1	1	1	1	1	Anti-drill guard E	721216
	1	1	1	1	1	1	Security interlock (C-E rail) HS	PMZB0190-50001_
50	6	6	6	6	6	6	Security interlock (C-E rail) HS WK 2 K1	
51	25	25	25	25	25	25	Screw for frame part 5 x 55 mm	

for other requirements

	1	1	1	1	1	1	Bag stop consisting of:	PMZB0140-02101_	831922
52	1	1	1	1	1	1	Stop		
53	1	1	1	1	1	1	Countersunk tapping screw B 4.8 x 70		
54	1	1	1	1	1	1	Cover cap		
	1	1	1	1	1	1	Bag of accessories HS-H for frame corner connection consisting of:	PMZB0440-10001_	
no illus.	1	1	1	1	1	1	Bolt Ø 7 x 40		
no illus.	1	1	1	1	1	1	Clamping screw 6 x 130		
55	1/2	1/2	1/2	1/2	1/2	1/2	Centre lock CE HS-PORTAL TS B1 for sealing rail C, no. 29 - 32, mat. no.: PMZB0180-...	PMZB0210-10001_	
56	1/2	1/2	1/2	1/2	1/2	1/2	Centre lock CE HS-PORTAL TS B1 for sealing rail C made of timber	PMZB0150-10001_	
57	1	1	1	1	1	1	Additional lock HS	PMGB0010-12401_	PMGB0010-13201_
5	1/2	1/2	1/2	1/2	1/2	1/2	Locking bolt E, top TS	719152	

Hardware component accessories for ECO PASS threshold

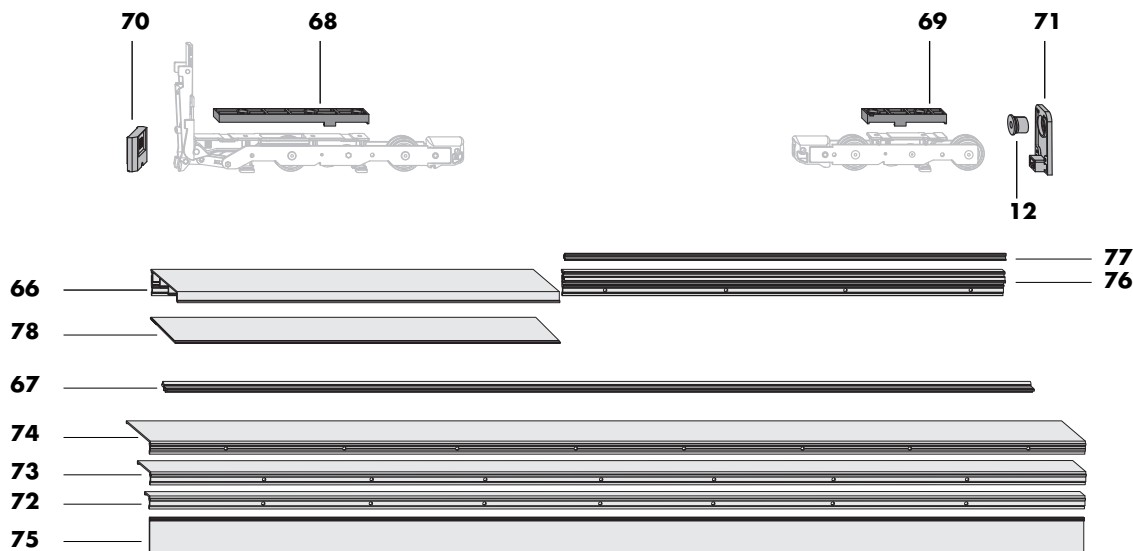


Fig. 4: Hardware diagram HS-PORTAL accessories for ECO PASS threshold

No.	Piece scheme				HS-PORTAL 300 Material description	Material number	
	A	C	G2	G3		RAL 7035 grey	RAL 9005 black

Accessories for barrier-free elements

66	1	1	1	1	ECO PASS tread threshold B182	Size	Length (in mm)	FW (in mm)	PPTB0210-52401_ PPTB0220-52401_ PPTB0090-52401_
						200	2000	1493 to 4000	
						250	2500	4001 to 5000	
67	1	1	1	1	ECO PASS running rail M/5	350	3500	1493 to 3500	PPLB6030-52401_ PPLB6160-52401_ PPLB6040-52401_ PPLB6170-52401_ PPLB6180-52401_ PPLB6060-52401_
						400	4000	3501 to 4000	
						450	4500	4001 to 4500	
						500	5000	4501 to 5000	
						570	5700	5001 to 5500	
						670	6700	5501 to 6700	
	1	1	1	1	Bag of sash parts HS barrier-free				PMZB0200-09701_
68	1	1	1	1	Distance plate, long			for bogie wheels, front	
69	1	1	1	1	Distance plate, short			for bogie wheels, back	
no illus.	5	5	5	5	Countersunk tapping screw B 4.8 x 45				PMZB0300-0E601_ PMZB0300-02301_
	1	1	1	1	Bag of accessories HS-H bottom low				
70	1	1	1	1	Bottom low filling piece				
71	1	1	1	1	Cover plate, bottom rear low				
12	2	2	2	2	Stop				
14	3	3	3	3	Bottom guide				
15	2	2	2	2	Dowel pin 6 x 16				
16	1	1	1	1	Countersunk screw PZD M5 x 13 A2				
17	1	1	1	1	Bag closing cap			grey	
					Bag closing cap			brown	

for other requirements

72	1	1	1	1	ECO PASS weatherside profile B 20	Size	Length (in mm)	FW (in mm)	PPWB0010-52401_ PPWB0020-52401_
						450	4500	1493 to 4500	
						670	6700	4501 to 6700	
73	1	1	1	1	ECO PASS weatherside profile B 50	450	4500	1493 to 4500	PPWB0030-52401_ PPWB0040-52401_
						670	6700	4501 to 6700	
74	1	1	1	1	ECO PASS weatherside profile B 90	450	4500	1493 to 4500	PPWB0100-52401_ PPWB0110-52401_
						670	6700	4501 to 6700	
75	1	1	1	1	Sealing plate	450	4500	1493 to 4500	PPAB0070-52401_ PPAB0080-52401_
						670	6700	4501 to 6700	
	1	1	1	1	Carton compensation rail ¹⁾	450	4500	1493 to 6700	PPZB0250-52401_
76	1	1	1	1	Compensation rail				
77	1	1	1	1	Seal				
78	0/1	0/1	0/1	0/1	ECO PASS flat tread threshold B171	Size	Length (in mm)	FW (in mm)	PPTB0240-52401_ PPTB0250-52401_ PPTB0260-52401_ PPTB0270-52401_ PPTB0280-52401_ PPTB0290-52401_ PPTB0300-52401_
					(for anti-slip protection or to cover the joint for two-sided threshold)	200	2000	1493 to 4000	
						250	2500	4001 to 5000	
						350	3500	5001 to 6700	
						450	4500	to 9000	
						500	5000	9001 to 10000	
						570	5700	10001 to 11400	
						670	6700	11401 to 13400	

¹⁾ required when tread threshold is used

Hardware components for elements with sash weight of 300 - 400 kg

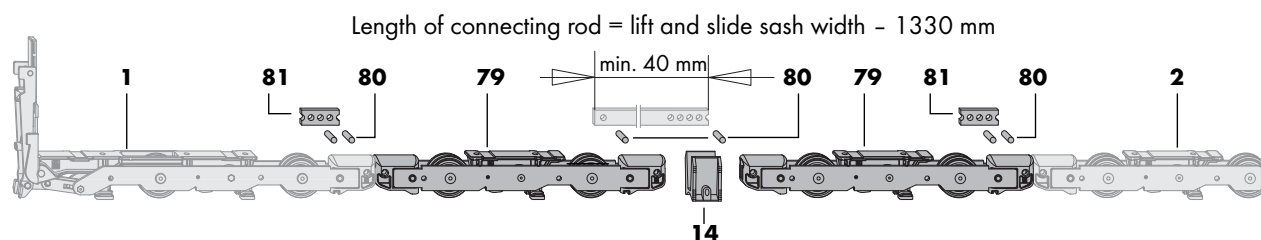


Fig. 5: Hardware diagram HS 400

For a sash weight of 300-400 kg, the connecting rod **must** be fastened to the bogie wheels with Dowel pin 6 x 16 (**80**).

	No.	Piece scheme				HS PORTAL 400			Material number	
		A	C	G2	G3	Material description			RAL 7035 grey	RAL 9005 black
		1	2	1	1	Additional carton HS 400 H TS		PMKB0340-10001 _		
						consisting of:				
79		2	4	2	2	Bogie wheels M				
80		6	12	6	6	Dowel pin 6 x 16				
81		2	4	2	2	Connecting rod				
						Length 40 mm				
						Comfort gear HS PORTAL 300 PZ				
						Size	Handle height (in mm)	SH (in mm)	EV 1 silver	EV 1 silver
						220	1010	1776 to 2275	PGKB4070-52401_	PGKB4070-52401_
						260	1010	2276 to 2675	PGKB4080-52401_	PGKB4080-52401_

PORTAL CATALOGUE

HS 300 H ECO PASS
92/30 HH0130-02/-03/-04

Contents	Page
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Hardware components for elements with sash weight 300 - 400 kg	72

Technical specifications and colours are subject to change.

Size range HS 300 H ECO PASS 92/30 HH0130-02/-03/-04

Sash width	HS 300	(mm)	720 to 3335
Sash width	HS 400	(mm)	1370 to 3335
Sash height (sliding sash)	HH 0130-03	(mm)	1175 to 2675
Sash height (sliding sash)	HH 0130-04	(mm)	1190 to 2690
Frame width		(mm)	1470 to 6700
Frame height		(mm)	1308 to 2808
Sash weight	HS 300	(kg)	max. 300
Sash weight	HS 400	(kg)	max. 400
Backset (gear)		(mm)	37.5
Sash timber width		(mm)	92
Sash distance		HS (mm)	30
Handle height (window:	SH 1175 - 1775)	(mm)	410
Handle height (door:	SH 1775 - 2675)	(mm)	1010

- The **profile sections** must match the details of the following SIEGENIA-AUBI construction drawings, sash timber thickness 92 mm:

<i>H48.HS_HZS103EN</i>	Sheet 1.1	HS PORTAL with guiding rail HH0130-04		Scheme A
	Sheet 2.1	HS PORTAL with guiding rail HH0130-03		Scheme A
	Sheet 1.2	HS PORTAL		Scheme C
	Sheet 1.3	HS PORTAL with guiding rail HH0130-04		Scheme D
	Sheet 2.3	HS PORTAL with guiding rail HH0130-03		Scheme D
	Sheet 1.4	HS PORTAL		Scheme G2
	Sheet 1.5	HS PORTAL		Scheme G3
	Sheet 5.1	HS PORTAL with guiding rail HH0130-04	barrier-free	Scheme A
	Sheet 6.1	Threshold cutting dimensions		Scheme A
	Sheet 6.2	Threshold cutting dimensions		Scheme C

- With a sash weight of 200 kg or more, we recommend using Comfort gear HS PORTAL 300 PZ – PGKB4070-52401_ or PGKB4080-52401_
- With a sash weight of 300 kg or more, the use of Comfort gear HS PORTAL 300 PZ – PGKB4070-52401_ or PGKB4080-52401_ is required.
- For HS 300 with a sash weight of 300 – 400 kg, the connecting rod must be fastened to the bogie wheels with Dowel pin 6 x 16 (**79**).
- We recommend the use of stainless steel screws for the mounting of components to the ECO PASS threshold.
- The threshold must be shimmed at intervals of 300 mm to be pressure-tight and sound-absorbing.
- We recommend using the following elastic adhesives and sealants: e.g. from OTTO Chemie - OTTOCOLL® HiTack or from Collano Adhesives AG - Collano® A 1970 or equivalent.

Hardware components scheme A

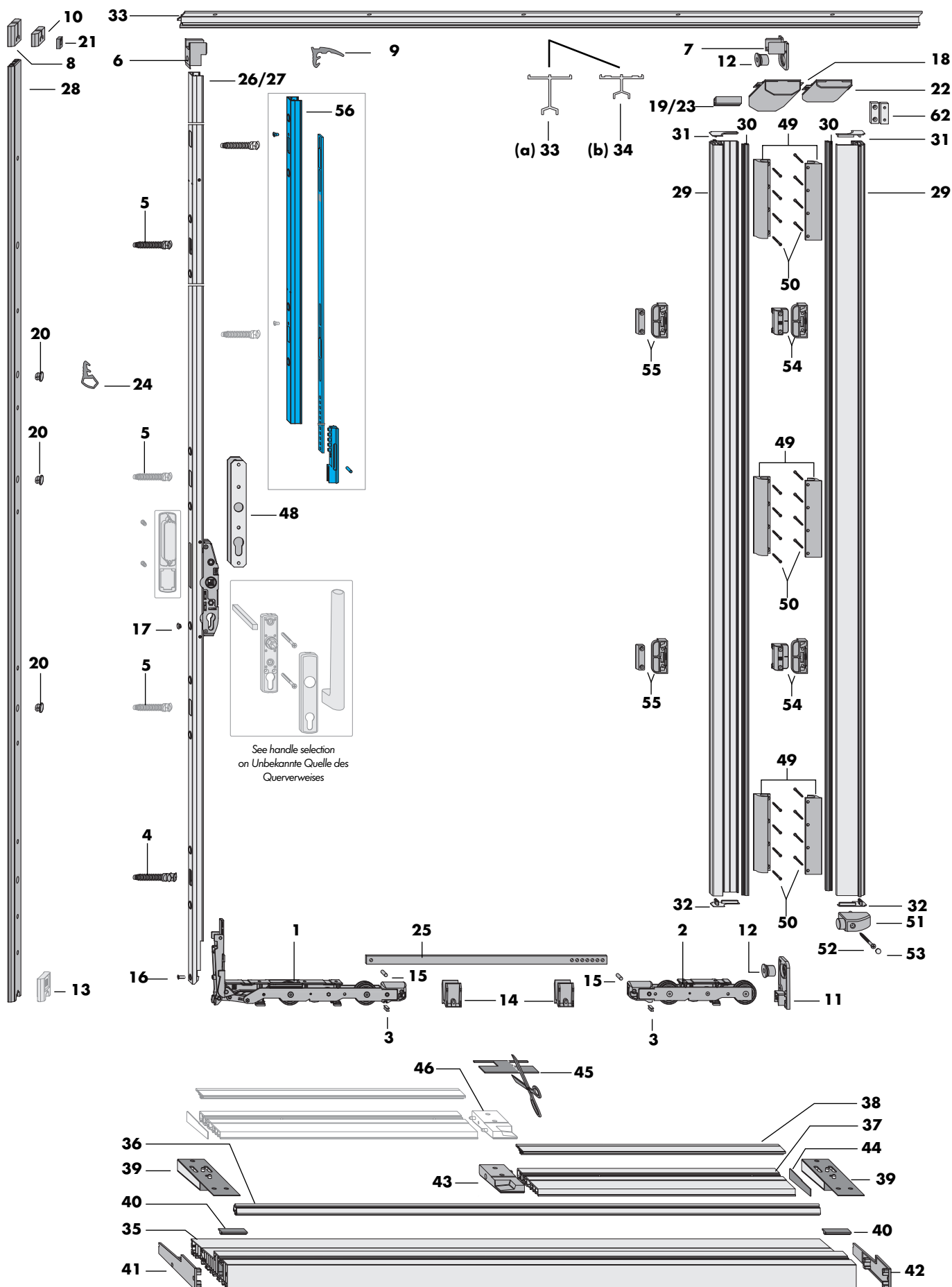


Fig. 1: Hardware diagram HS 300 scheme A

No.	Piece scheme		HS PORTAL 300 scheme A					Material number			
	A (a)	A (b)	Material description					RAL 7035 grey	RAL 9005 black		
General requirements		1	1	Handle Si-line HS PORTAL 300					See handle selection on Unbekannte Quelle des Querverweises		
	1	1	1	Basic carton HS 300 TS consisting of:					PMKB0300-10001_		
		1	1	Bogie wheels V		VSU HS 300 TS			PMZB0330-02101_	PMZB0330-02301_	
		2	1	Bogie wheels H		HS 300 TS					
		3	1	Brush		Length 100 mm					
		1	-	Carton HS-H HH0130-02/-03 consisting of:		for guiding rail HH0130-03					
	4	1	-	Locking bolt E, bottom TS					PMZB0340-02101_	PMZB0340-02301_	
	5	1	-	Locking bolt E, top TS							
	6	1	-	Front top guide							
	7	1	-	Rear top guide							
	8	1	-	Top filling piece		for guiding rail HH0130-03			PMZB0310-02101_	PMZB0310-02301_	
	9	1	-	Top seal HH0134-01		Length 10.2 m					
		-	1	Carton HS-H HH0130-04 consisting of:		for guiding rail HH0130-04					
	4	-	1	Locking bolt E, bottom TS							
	5	-	1	Locking bolt E, top TS					PMZB0390-02101_	PMZB0390-02301_	
	6	-	1	Front top guide							
	7	-	1	Rear top guide							
	10	-	1	Top filling piece		for guiding rail HH0130-04					
	9	-	1	Top seal HH0134-01		Length 10.2 m			PMZB0420-02101_	PMZB0420-02301_	
		1	1	Bag of accessories HS-H bottom high consisting of:							
	11	1	1	Cover plate, bottom rear high							
	12	2	2	Stop							
	13	1	1	Bottom high filling piece		for sealing rail B made of timber			PDPB0030-02101_	PDPB0030-09901_	
	14	2	2	Bottom guide							
	15	2	2	Dowel pin 6 x 16							
	16	1	1	Countersunk screw M5 x 13							
	17	1	1	Bag closing cap		grey				PMZB0010-52401_	PMZB0010-52401_
				Bag closing cap		brown					
		1	-	Sealing elements set HS-H HH0130-02/03 IV 92 consisting of:							
	18	1	-	Gasket bridge size 3							
	19	1	-	Top seal					PMZB04070-52401_	PMZB04070-52401_	
	20	3	-	Bag closing cap		for sealing rail B					
	21	1	1	Top sealing part							
		-	1	Sealing elements set HS-H HH0130-04 IV 92 consisting of:							
	22	-	1	Gasket bridge 92/15					PMZB0030-02101_	PMZB0030-09901_	
	23	-	1	Top seal							
	20	-	3	Bag closing cap		for sealing rail B					
	21	1	1	Top sealing part							
	24	1	1	Seal HH0134-02		Length 17.5 m					
depend. on SW	25	1	1	Connecting rod		Size	Length (in mm)	SW (in mm)	719282		
						150 TS	898	720 to 1500	719480		
						200 TS	1398	1501 to 2000	719497		
						250 TS	1898	2001 to 2500	719725		
						335 TS	2748	2501 to 3350			
depending on SH	26	1	1	Gear HS PORTAL 300 PZ		Size	Handle height (in mm)		SH (in mm)	EV 1 silver	
						170	410	1208 to 1775	PGKB0010-52401_		
						220	1010	1776 to 2275	PGKB0020-52401_		
						260	1010	2276 to 2675	PGKB0030-52401_		
	27			Comfort gear HS PORTAL 300 PZ		Size	Handle height (in mm)		SH (in mm)	EV 1 silver	
						220	1010	1776 to 2275	PGKB4070-52401_		
						260	1010	2276 to 2675	PGKB4080-52401_		
	28	1	1	Sealing rail B Alternative: rail B in timber version.		Size	SH (in mm)		PPDB0010-02101_		
						260	1208 to 2675		PPDB0010-02301_		
		1	1	Sealing rail C Alternative: rail C in timber version.		Size	Sash distance (in mm)		SH (in mm)	PMZB0180-02101_	
						260	28	1208 to 2675			
	29	2	2	Sealing rail C HS		Length 2.7 m					
30	2	2	Sealing profile rail C HS		for sealing rail C						
31	2	2	Cover cap left sealing rail C								
32	2	2	Cover cap right sealing rail C								

A (a) = Element with guiding rail HH 0130-03 A (b) = Element with guiding rail HH 0130-04 

Continued on next page

No.		Piece scheme		HS PORTAL 300 scheme A					Material number		
		A (a)	A (b)						Material description		RAL 7035 grey
depending on FW	33	1	-	Guiding rail HH0130-03 for STT 92 mm	Size	Length (in mm)	FW (in mm)	PPFB0100-52401_ PPFB0110-52401_ PPFB0120-52401_ PPFB0130-52401_ 126813 - 126837	126820 126844		
					300	2900	1470 to 3000				
					350	3400	3001 to 3500				
					400	3900	3501 to 4000				
					450	4400	4001 to 4500				
					500	4900	4501 to 5000				
	34	-	1	Guiding rail HH0130-04 for STT 92 mm Only in conjunction with ECO PASS running rail M/5	Size	Length (in mm)	FW (in mm)	- PPFB0230-52401_ - PPFB0200-52401_ - - PPFB0210-52401_			
					300	2900	1470 to 3000				
					350	3400	3001 to 3500				
					400	3900	3501 to 4000				
					450	4400	4001 to 4500				
					500	4900	4501 to 5000				
	35	1	1	ECO PASS threshold B203	Size	Length (in mm)	FW (in mm)	PPBB0500-52401_ PPBB0510-52401_ PPBB0520-52401_ PPBB0530-52401_ PPBB0550-52401_ PPBB0770-52401_ PPBB0560-52401_			
					300	3000	1493 to 3000				
					350	3500	3001 to 3500				
					400	4000	3501 to 4000				
					450	4500	4001 to 4500				
					500	5000	4501 to 5000				
	36	1	1	ECO PASS running rail M/15	Size	Length (in mm)	FW (in mm)	PPLB5120-52401_ PPLB6130-52401_ PPLB5130-52401_ PPLB6140-52401_ PPLB6150-52401_ PPLB5160-52401_			
					350	3500	1493 to 3500				
					400	4000	3501 to 4000				
					450	4500	4001 to 4500				
					500	5000	4501 to 5000				
					570	5700	5001 to 5500				
37	1	1	ECO PASS support rail S117	Size	Length (in mm)	SW (in mm)	PPZB5300-02101_ PPZB5310-02101_ PPZB5320-02101_ PPZB5020-02101_				
				150	1500	720 to 1500					
				200	2000	1501 to 2000					
				250	2500	2001 to 2500					
38	1	1	ECO PASS adapter rail H 5 for timber profile	Size	Length (in mm)	FW (in mm)	PPZB5480-02101_ PPZB5390-02101_ PPZB5400-02101_ PPZB5160-02101_				
				150	1500	720 to 1500					
				200	2000	1501 to 2000					
				250	2500	2001 to 2500					
depending on FW		1	1	Frame corner connection H EP B203 consisting of:	ECO PASS for timber elements			PMRB0170-02101_			
	39	2	2	ECO PASS sealing part REV							
	40	2	2	Seal	for recess running rail REV						
	41	1	1	End cap, left	for ECO PASS threshold						
	42	1	1	End cap, right	for ECO PASS threshold			PMRB0222-02101_			
		1	1	Sealing part MP EP H B203, left consisting of:	for DIN, left						
	43	1	1	ECO PASS sealing part MP left B203	for sealing between sliding and fixed sash						
	44	1	1	End seal MP	for sealing support rail and sealing block REV						
	45	1	1	Sealing pad H B203	on sealing block and support rail			PMRB0221-02101_			
		1	1	Sealing part MP EP H B203, right consisting of:	for DIN, right						
	46	1	1	ECO PASS sealing part MP right B203	for sealing between sliding and fixed sash						
	44	1	1	End seal MP	for sealing support rail and sealing block REV						
	45	1	1	Sealing pad H B203	on sealing block and support rail						

Continued on next page

No.		Piece scheme			HS PORTAL 300 scheme A Material description	Material number	
		A (a)	A (b)	A (c)		RAL 7035 grey	RAL 9005 black
Accessories							
for anti-intruder elements							
5	2	2	2	Locking bolt E, top TS		719152	
47	–	–	–	Top locking part C TS		719466	
48	1	1	1	Anti-drill guard E		721216	
	1	1	1	Security interlock (C-E rail) HS consisting of: Can only be used with sealing rail CPMZB0180-...		PMZB0190-50001_	
49	6	6	6	Security interlock (CE rail) HS WK 2 K1			
50	25	25	25	Screw for frame part 5 x 55 mm			
for other requirements							
	1	1	1	Bag stop consisting of:		PMZB0140-02101_	831922
51	1	1	1	Stop			
52	1	1	1	Countersunk tapping screw B 4.8 x 70			
53	1	1	1	Cover cap			
	1	1	1	Bag of accessories HS-H for frame corner connection consisting of:		PMZB0440-10001_	
no illus.	1	1	1	Bolt Ø 7 x 40			
no illus.	1	1	1	Clamping screw 6 x 130			
54	1/2	1/2	1/2	Centre lock CE HS PORTAL TS B1 for sealing rail C, no. 29 - 32 , mat. no.: PMZB0180-... 1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm		PMZB0210-10001_	
55	1/2	1/2	1/2	Centre lock CE HS PORTAL TS B1 for sealing rail C made of timber 1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm		PMZB0150-10001_	
56	1	1	1	Additional lock HS Sash height 1480 to 3310 mm		PMGB0010-12401_	PMGB0010-13201_
5	1/2	1/2	1/2	Locking bolt E, top TS for additional lock		719152	

Hardware components scheme C

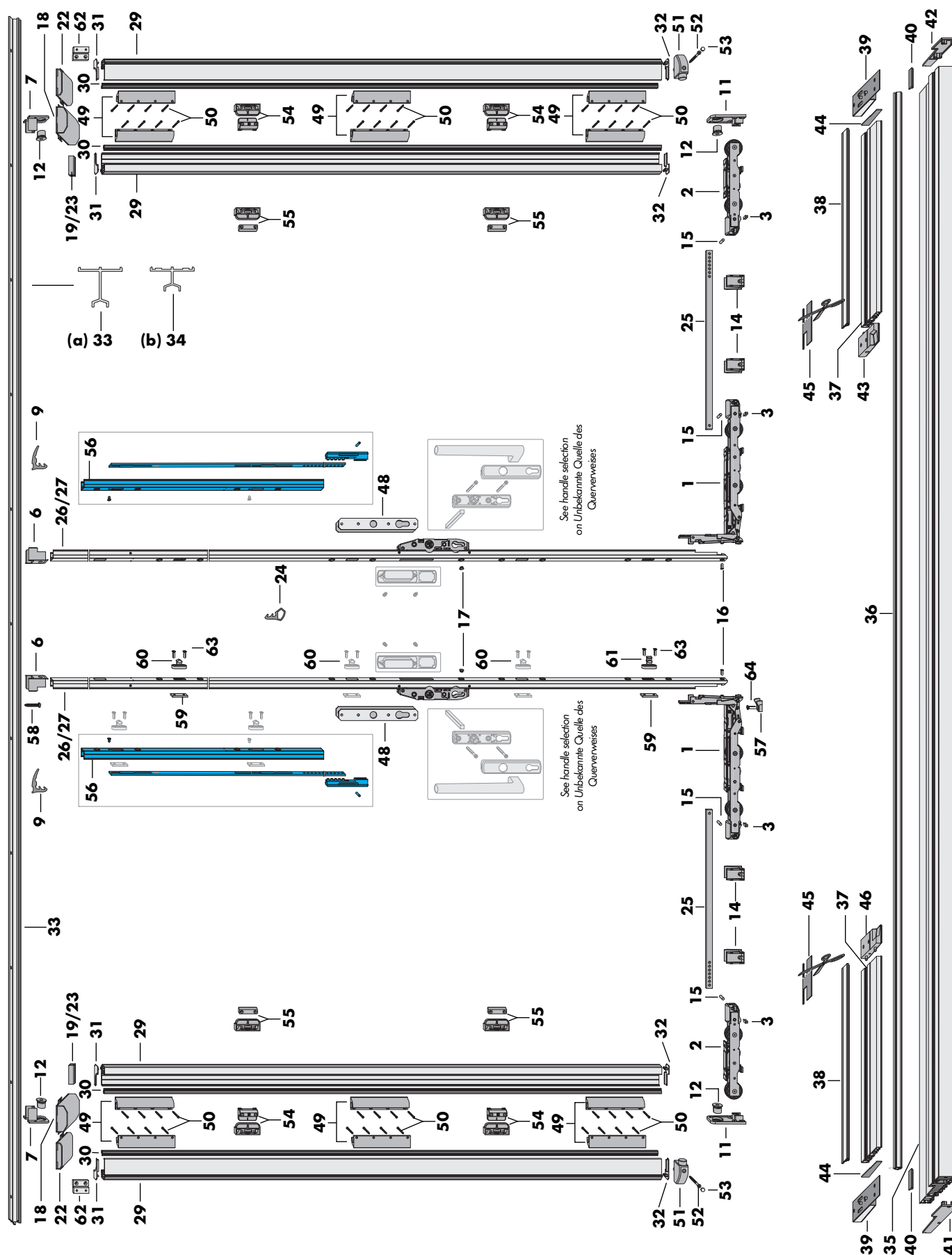


Fig. 2: Hardware diagram HS 300 scheme C

No.	Piece scheme		HS PORTAL 300 scheme C			Material number					
	C (a)	C (b)	Material description			RAL 7035 grey	RAL 9005 black				
General requirements		2	2	Handle Si-line HS PORTAL 300			See handle selection on Unbekannte Quelle des Querverweises				
	1	2	2	Basic carton HS 300 C TS consisting of:			PMKB0310-10001_				
		2	2	Bogie wheels V VSU HS 300 TS			PMZB0330-02101_	PMZB0330-02301_			
		2	2	Bogie wheels H HS 300 TS							
		1	1	Brush Length 100 mm							
	4	2	-	Carton HS-H HH0130-02/-03 consisting of:			PMZB0330-02101_	PMZB0330-02301_			
		-	-	for guiding rail HH0130-03							
		-	-	Locking bolt E, bottom TS							
		-	-	Locking bolt E, top TS							
		2	-	Front top guide							
		2	-	Rear top guide							
		-	-	Top filling piece for guiding rail HH0130-03							
		2	-	Top seal HH0134-01 Length 10.2 m							
		-	2	Carton HS-H HH0130-04 consisting of:							
	4	-	-	for guiding rail HH0130-04			PMZB0340-02101_	PMZB0340-02301_			
		-	-	Locking bolt E, bottom TS							
		-	-	Locking bolt E, top TS							
		-	2	Front top guide							
		-	2	Rear top guide							
		-	-	Top filling piece for guiding rail HH0130-04							
		-	2	Top seal HH0134-01 Length 10.2 m							
		11	2	2	Bag of accessories HS-H bottom high consisting of:				PMZB0310-02101_	PMZB0310-02301_	
			2	2	Cover plate, bottom rear high						
	4		4	Stop							
	-		-	Bottom high filling piece for sealing rail B made of timber							
	4		4	Bottom guide							
	4		4	Dowel pin 6 x 16							
	2		2	Countersunk screw M5 x 13							
	2		2	Bag closing cap grey							
				Bag closing cap brown							
	57		1	1	Bag of accessories HS-H consisting of:			239087			
		1	1	for scheme C							
		1	1	Locking part G TS							
		1	1	Head self-tapping screw B 6.3 x 38-A2							
		2	2	Threaded plate M 5							
		1	1	Top locking part C TS							
		1	1	Bottom locking part C TS							
		-	-	Stop HS 10FA only required for sash distance 10 mm							
		4	4	Countersunk screw PZD DIN965 M5X20-A2							
		1	1	Countersunk screw PZD DIN965 M6X20-A2							
	18	2	-	Sealing elements set HS-H HH0130-02/03 IV 92 consisting of:			PMZB0390-02101_	PMZB0390-02301_			
		2	-	Gasket bridge size 3							
		2	-	Top seal							
		-	-	Bag closing cap for sealing rail B							
		-	-	Top sealing part							
	22	-	2	Sealing elements set HS-H HH0130-04 IV 92 consisting of:			PMZB0420-02101_	PMZB0420-02301_			
		-	2	Gasket bridge 92/15							
		-	2	Top seal							
		-	-	Bag closing cap for sealing rail B							
-		-	Top sealing part								
24	2	2	Seal HH0134-02 Length 17.5 m			PDPB0030-02101_	PDPB0030-09901_				
depend. on SW	25	2	2	Connecting rod							
				Size	Length (in mm)	SW (in mm)					
				150 TS	898	720 to 1500	719282				
				200 TS	1398	1501 to 2000	719480				
				250 TS	1898	2001 to 2500	719497				
				335 TS	2748	2501 to 3350	719725				
depending on SH	26	2	2	Gear HS PORTAL 300 PZ			EV 1 silver				
	260			Size	Handle height (in mm)	SH (in mm)	PGKB0010-52401_				
				170	410	1208 to 1775	PGKB0020-52401_				
				220	1010	1776 to 2275	PGKB0030-52401_				
				260	1010	2276 to 2675					
	27	Comfort gear HS PORTAL 300 PZ			EV 1 silver						
		260	Size	Handle height (in mm)	SH (in mm)	PGKB4070-52401_					
			220	1010	1776 to 2275	PGKB4080-52401_					
			260	1010	2276 to 2675						
	29	2	2	Sealing rail C Alternative: rail C in timber version.			RAL 7035 light grey				
		4	4	Size	Sash distance (in mm)	SH (in mm)	PMZB0180-02101_				
			4	260	28	1208 to 2675					
			4	Sealing rail C HS Length 2.7 m							
4			Sealing profile rail C HS for sealing rail C								
4			Cover cap left sealing rail C								
32	4	4	Cover cap right sealing rail C								

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	No.	Piece scheme		HS PORTAL 300 scheme C				Material number	
		C (a)	C (b)	Material description				RAL 7035 grey	RAL 9005 black
depending on FW	33	1	-	Guiding rail HH0130-03 for STT 92 mm	Size	Length (in mm)	FW (in mm)	PPFB0100-52401_ PPFB0110-52401_ PPFB0120-52401_ PPFB0130-52401_ 126813 - 126837	126820 126844
					300	2900	1470 to 3000		
					350	3400	3001 to 3500		
					400	3900	3501 to 4000		
					450	4400	4001 to 4500		
					500	4900	4501 to 5000		
depending on FW	34	-	1	Guiding rail HH0130-04 for STT 92 mm Only in conjunction with ECO PASS running rail M/5	Size	Length (in mm)	FW (in mm)	PPFB0230-52401_ - PPFB0200-52401_ - PPFB0210-52401_	
					300	2900	1470 to 3000		
					350	3400	3001 to 3500		
					400	3900	3501 to 4000		
					450	4400	4001 to 4500		
					500	4900	4501 to 5000		
depending on FW	35	1	1	ECO PASS threshold B203	Size	Length (in mm)	FW (in mm)	PPBB0500-52401_ PPBB0510-52401_ PPBB0520-52401_ PPBB0530-52401_ PPBB0550-52401_ PPBB0770-52401_ PPBB0560-52401_	
					300	3000	1493 to 3000		
					350	3500	3001 to 3500		
					400	4000	3501 to 4000		
					450	4500	4001 to 4500		
					500	5000	4501 to 5000		
depending on FW	36	1	1	ECO PASS running rail M/15	Size	Length (in mm)	FW (in mm)	PPLB5120-52401_ PPLB6130-52401_ PPLB5130-52401_ PPLB6140-52401_ PPLB6150-52401_ PPLB5160-52401_	
					350	3500	1493 to 3500		
					400	4000	3501 to 4000		
					450	4500	4001 to 4500		
					500	5000	4501 to 5000		
					570	5700	5001 to 5500		
depending on FW	37	2	2	ECO PASS support rail S117	Size	Length (in mm)	SW (in mm)	PPZB5300-02101_ PPZB5310-02101_ PPZB5320-02101_ PPZB5020-02101_	
					150	1500	720 to 1500		
					200	2000	1501 to 2000		
					250	2500	2001 to 2500		
					350	3500	2501 to 3350		
depending on FW	38	2	2	ECO PASS adapter rail H 5 for timber profile	Size	Length (in mm)	FW (in mm)	PPZB5480-02101_ PPZB5390-02101_ PPZB5400-02101_ PPZB5160-02101_	
					150	1500	720 to 1500		
					200	2000	1501 to 2000		
					250	2500	2001 to 2500		
					350	3500	2501 to 3350		
		1	1	Frame corner connection H EP B203 consisting of:	ECO PASS for timber elements			PMRB0170-02101_	
	39	1	1	ECO PASS sealing part REV					
	40	1	1	Seal	for recess running rail REV				
	41	1	1	End cap, left	for ECO PASS threshold				
	42	1	1	End cap, right	for ECO PASS threshold				
		1	1	Sealing part MP EP H B203, left consisting of:	for DIN, left			PMRB0222-02101_	
	43	1	1	ECO PASS sealing part MP left B203	for sealing between sliding and fixed sash				
	44	1	1	End seal MP	for sealing support rail and sealing block REV				
	45	1	1	Sealing pad H B203	on sealing block and support rail				
		1	1	Sealing part MP EP H B203, right consisting of:	for DIN, right			PMRB0221-02101_	
	46	1	1	ECO PASS sealing part MP right B203	for sealing between sliding and fixed sash				
	44	1	1	End seal MP	for sealing support rail and sealing block REV				
	45	1	1	Sealing pad H B203	on sealing block and support rail				

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No.	Piece scheme			HS PORTAL 300 scheme C	Material description	Material number	
	C (a)	C (b)	C (c)			RAL 7035 grey	RAL 9005 black
Accessories							
for anti-intruder elements							
	60	2	2	2	Top locking part C TS	719466	
	48	2	2	2	Anti-drill guard E	721216	
		2	2	2	Security interlock (C-E rail) HS	PMZB0190-50001_	
	49	12	12	12	Security interlock (C-E rail) HS WK 2 K1		
	50	50	50	50	Screw for frame part 5 x 55 mm		
for other requirements							
		2	2	2	Bag stop consisting of:	PMZB0140-02101_	831922
	51	2	2	2	Stop		
	52	2	2	2	Countersunk tapping screw B 4.8 x 70		
	53	2	2	2	Cover cap		
		1	1	1	Bag of accessories HS-H for frame corner connection consisting of:	PMZB0440-10001_	
	no illus.	1	1	1	Bolt Ø 7 x 40		
	no illus.	1	1	1	Clamping screw 6 x 130		
	54	2/4	2/4	2/4	Centre lock CE HS PORTAL TS B1 for sealing rail C, no. 29 - 32 , mat. no.: PMZB0180-...	PMZB0210-10001_	
	55	2/4	2/4	2/4	Centre lock CE HS PORTAL TS B1 for sealing rail C made of timber	PMZB0150-10001_	
	56	2	2	2	Additional lock HS	PMGB0010-12401_	PMGB0010-13201_
	60	2/4	2/4	2/4	Top locking part C TS	719152	
					for additional lock		

Hardware components scheme G2/G3

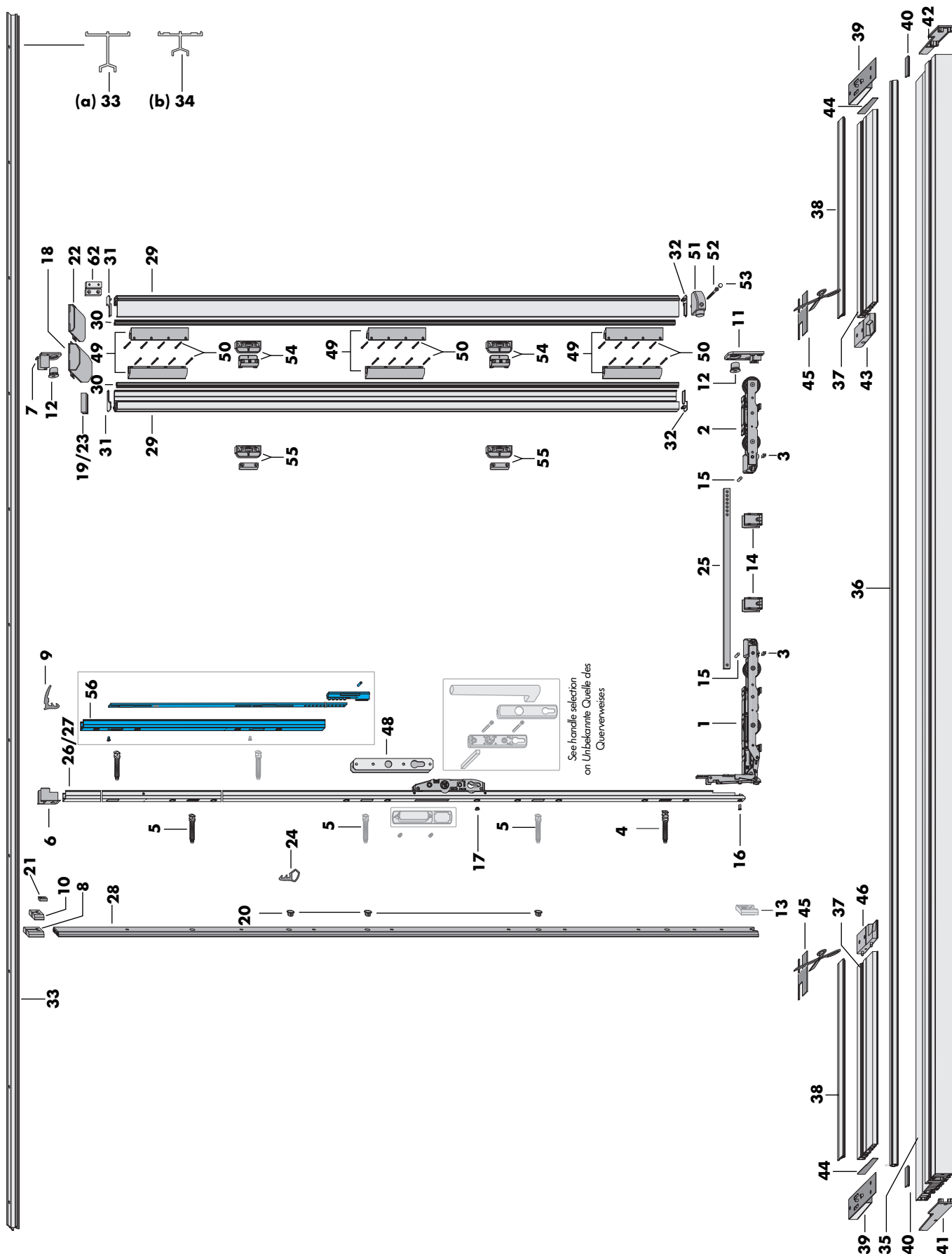


Fig. 3: Hardware diagram HS 300 scheme G 2 and G 3

No.		Piece scheme				HS PORTAL 300 scheme G2 / G3				Material number	
		G 2		G 3		Material description				RAL 7035 grey	RAL 9005 black
		(a)	(b)	(a)	(b)						
General requirements		1	1	1	1	Handle S-line HS PORTAL 300				See handle selection on Unbekannte Quelle des Querverweises	
		1	1	1	1	Basic carton HS 300 H TS consisting of:				PMKB0300-10001_	
	1	1	1	1	1	Bogie wheels V		VSU HS 300 TS		PMZB0330-02101_	PMZB0330-02301_
	2	1	1	1	1	Bogie wheels H		HS 300 TS			
	3	1	1	1	1	Brush		Length 100 mm			
		1	-	1	-	Carton HS-H HH0130-02/-03 consisting of:		for guiding rail HH0130-03		PMZB0340-02101_	PMZB0340-02301_
	4	1	1	1	1	Locking bolt E, bottom TS					
	5	1	1	1	1	Locking bolt E, top TS					
	6	1	1	1	1	Front top guide					
	7	1	1	1	1	Rear top guide					
	8	1	1	1	1	Top filling piece		for guiding rail HH0130-03			
	9	1	1	1	1	Top seal HH013401		Length 10.2 m			
		-	1	-	1	Carton HS-H HH0130-04 consisting of:		for guiding rail HH0130-04			
	4	-	1	-	1	Locking bolt E, bottom TS					
	5	-	1	-	1	Locking bolt E, top TS					
	6	-	1	-	1	Front top guide					
	7	-	1	-	1	Rear top guide					
	10	-	1	-	1	Top filling piece		for guiding rail HH0130-04			
	9	-	1	-	1	Top seal HH013401		Length 10.2 m			
		1	1	1	1	Bag of accessories HS-H bottom high consisting of:				PMZB0310-02101_	PMZB0310-02301_
	11	1	1	1	1	Cover plate, bottom rear high					
	12	2	2	2	2	Stop					
	13	1	1	1	1	Bottom high filling piece					
	14	2	2	2	2	Bottom guide					
	15	2	2	2	2	Dowel pin 6 x 16					
	16	1	1	1	1	Countersunk screw M5 x 13					
	17	1	1	1	1	Bag closing cap		grey			
						Bag closing cap		brown		PMZB0390-02101_	PMZB0390-02301_
		1	-	1	-	Sealing elements set HS-H HH0130-02/03 IV 92 consisting of:					
	18	1	-	1	-	Gasket bridge size 3					
	19	1	-	1	-	Top seal					
	20	3	-	3	-	Bag closing cap		for sealing rail B			
21	1	-	1	-	Top sealing part						
	-	1	-	1	Sealing elements set HS-H HH0130-04 IV 92 consisting of:				PMZB0420-02101_	PMZB0420-02301_	
22	-	1	-	1	Gasket bridge 92/15						
23	-	1	-	1	Top seal						
20	-	3	-	3	Bag closing cap		for sealing rail B				
21	-	1	-	1	Top sealing part						
24	1	1	1	1	Seal HH0134-02		Length 17.5 m				PDPB0030-02101_
depend. on SW	25	1	1	1	1	Connecting rod		Size	Length (in mm)	SW (in mm)	719282 719480 719497 719725
								150 TS	898	720 to 1500	
								200 TS	1398	1501 to 2000	
								250 TS	1898	2001 to 2500	
								335 TS	2748	2501 to 3350	
depending on SH	26					Gear HS PORTAL 300 PZ		Size	Handle height (in mm)	SH (in mm)	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_
								170	410	1208 to 1775	
								220	1010	1776 to 2275	
								260	1010	2276 to 2675	
		1	1	1	1	for lift and slide sashes up to 200 kg				EV 1 silver PGKB4070-52401_ PGKB4080-52401_	
	27					Comfort gear HS PORTAL 300 PZ		Size	Handle height (in mm)		SH (in mm)
								220	1010		1776 to 2275
								260	1010		2276 to 2675
						for lift and slide sashes from 200 kg				PPDB0010-02101_ PPDB0010-02301_	
	28	1	1	1	1	Sealing rail B Alternative: rail B in timber version.		Size			SH (in mm)
								260			1208 to 2675
		1	1	1	1	Sealing rail C Alternative: rail C in timber version.		Size	Sash distance (in mm)	SH (in mm)	PMZB0180-02101_
								260	28	1208 to 2675	
29	2	2	2	2	Sealing rail C HS		Length 2.7 m				
30	2	2	2	2	Sealing profile rail C HS		for sealing rail C				
31	2	2	2	2	Cover cap left sealing rail C						
32	2	2	2	2	Cover cap right sealing rail C						

Continued on next page

	No.	Piece scheme				HS PORTAL 300 scheme G2 / G3				Material number	
		G 2		G 3		Material description				RAL 7035 grey	RAL 9005 black
		(a)	(b)	(a)	(b)						
depending on FW	33	1	-	1	-	Guiding rail HH0130-03 for STT 92 mm	Size 300 350 400 450 500 570 670	Length (in mm) 2900 3400 3900 4400 4900 5600 6600	FW (in mm) 1470 to 3000 3001 to 3500 3501 to 4000 4001 to 4500 4501 to 5000 5001 to 5700 5701 to 6700	PPFB0100-52401_ PPFB0110-52401_ PPFB0120-52401_ PPFB0130-52401_ 126813 - 126837	126820 126844
	34	-	1	-	1	Guiding rail HH0130-04 for STT 92 mm Only in conjunction with ECO PASS running rail M/5	Size 300 350 400 450 500 570 670	Length (in mm) 2900 3400 3900 4400 4900 5600 6600	FW (in mm) 1470 to 3000 3001 to 3500 3501 to 4000 4001 to 4500 4501 to 5000 5001 to 5700 5701 to 6700	- PPFB0230-52401_ - PPFB0200-52401_ - - PPFB0210-52401_	
	35	1	1	1	1	ECO PASS threshold B203	300 350 400 450 500 570 670	3000 3500 4000 4500 5000 5700 6700	1493 to 3000 3001 to 3500 3501 to 4000 4001 to 4500 4501 to 5000 5001 to 5500 5501 to 6700	PPBB0500-52401_ PPBB0510-52401_ PPBB0520-52401_ PPBB0530-52401_ PPBB0550-52401_ PPBB0770-52401_ PPBB0560-52401_	
	36	1	1	1	1	ECO PASS running rail M/15	350 400 450 500 570 670	3500 4000 4500 5000 5700 6700	1493 to 3500 3501 to 4000 4001 to 4500 4501 to 5000 5001 to 5500 5501 to 6700	PPLB5120-52401_ PPLB6130-52401_ PPLB5130-52401_ PPLB6140-52401_ PPLB6150-52401_ PPLB5160-52401_	
	37	2	2	2	2	ECO PASS support rail S117	Size 150 200 250 350	Length (in mm) 1500 2000 2500 3500	SW (in mm) 720 to 1500 1501 to 2000 2001 to 2500 2501 to 3350	PPZB5300-02101_ PPZB5310-02101_ PPZB5320-02101_ PPZB5020-02101_	
	38	2	2	2	2	ECO PASS adapter rail H 5 for timber profile	150 200 250 350	1500 2000 2500 3500	720 to 1500 1501 to 2000 2001 to 2500 2501 to 3350	PPZB5480-02101_ PPZB5390-02101_ PPZB5400-02101_ PPZB5160-02101_	
depending on FW		1	1	1	1	Frame corner connection H EP B203 consisting of:	ECO PASS for timber elements				PMRB0170-02101_
	39	1	1	1	1	ECO PASS sealing part REV					
	40	1	1	1	1	Seal	for recess running rail REV				
	41	1	1	1	1	End cap, left	for ECO PASS threshold				
	42	1	1	1	1	End cap, right	for ECO PASS threshold				
		1	1	1	1	Sealing part MP EP H B203, left consisting of:	for DIN, left				PMRB0222-02101_
	43	1	1	1	1	ECO PASS sealing part MP left B203	for sealing between sliding and fixed sash				
	44	1	1	1	1	End seal MP	for sealing support rail and sealing block REV				
	45	1	1	1	1	Sealing pad H B203	on sealing block and support rail				
		1	1	1	1	Sealing part MP EP H B203, right consisting of:	for DIN, right				PMRB0221-02101_
	46	1	1	1	1	ECO PASS sealing part MP right B203	for sealing between sliding and fixed sash				
	44	1	1	1	1	End seal MP	for sealing support rail and sealing block REV				
	45	1	1	1	1	Sealing pad H B203	on sealing block and support rail				

Continued on next page

No.	Piece scheme						HS PORTAL 300 scheme G2 / G3	Material number	
	G 2			G 3				RAL 7035 grey	RAL 9005 black
	(a)	(b)	(c)	(a)	(b)	(c)			
Material description									

Accessories**for anti-intruder elements**

5	2	2	2	2	2	2	Locking bolt E, top TS	719152
48	1	1	1	1	1	1	Anti-drill guard E	721216
	1	1	1	1	1	1	Security interlock (C-E rail) HS	PMZB0190-50001_
49	6	6	6	6	6	6	Security interlock (C-E rail) HS WK 2 K1	
50	25	25	25	25	25	25	Screw for frame part 5 x 55 mm	

for other requirements

	1	1	1	1	1	1	Bag stop consisting of:	PMZB0140-02101_	831922
51	1	1	1	1	1	1	Stop		
52	1	1	1	1	1	1	Countersunk tapping screw B 4.8 x 70		
53	1	1	1	1	1	1	Cover cap		
	1	1	1	1	1	1	Bag of accessories HS-H for frame corner connection consisting of:	PMZB0440-10001_	
no illus.	1	1	1	1	1	1	Bolt Ø 7 x 40		
no illus.	1	1	1	1	1	1	Clamping screw 6 x 130		
54	1/2	1/2	1/2	1/2	1/2	1/2	Centre lock CE HS PORTAL TS B1 for sealing rail C, no. 29 - 32, mat. no.: PMZB0180-...	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm	PMZB0210-10001_
55	1/2	1/2	1/2	1/2	1/2	1/2	Centre lock CE HS PORTAL TS B1 for sealing rail C made of timber	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm	PMZB0150-10001_
56	1	1	1	1	1	1	Additional lock HS	Sash height 1480 to 3310 mm	PMGB0010-12401_ PMGB0010-13201_
5	1/2	1/2	1/2	1/2	1/2	1/2	Locking bolt E, top TS	for additional lock	719152

Hardware component accessories for ECO PASS threshold

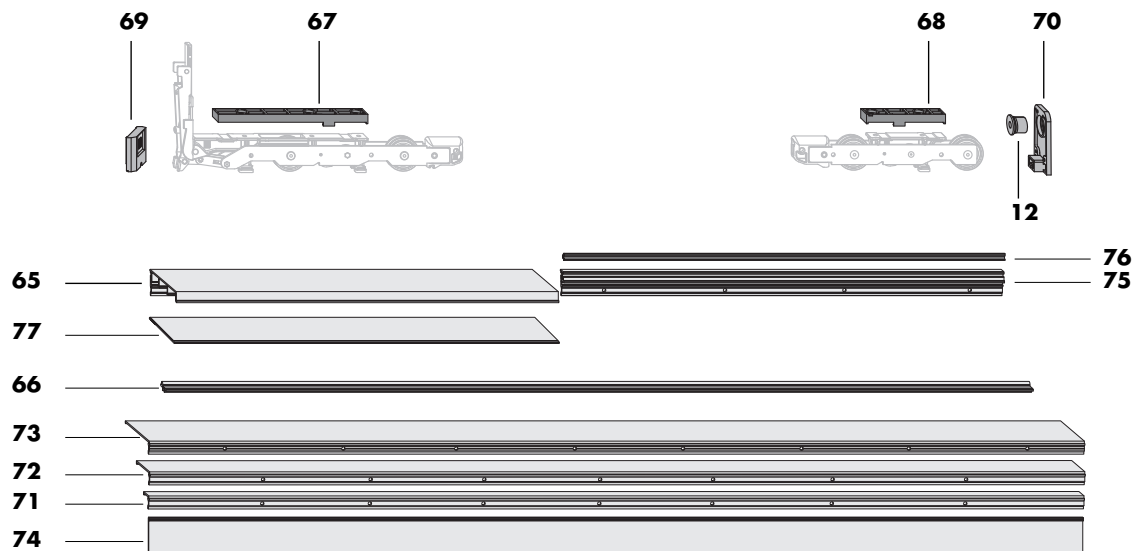


Fig. 4: Hardware diagram HS PORTAL accessories for ECO PASS threshold

No.	Piece scheme				HS PORTAL 300	Material number	
	A	C	G2	G3		RAL 7035 grey	RAL 9005 black

Accessories for barrier-free elements

Barrier-free elements					ECO PASS threshold B203				Size	Length (in mm)	FW (in mm)		
65	1	1	1	1		200	2000	1493	to	4000	PPTB0150-52401_ PPTB0160-52401_ PPTB0020-52401_		
						250	2500	4001	to	5000			
						350	3500	5001	to	6700			
66	1	1	1	1	ECO PASS running rail M/5	350	3500	1493	to	3500	PPLB6030-52401_ PPLB6160-52401_ PPLB6040-52401_ PPLB6170-52401_ PPLB6180-52401_ PPLB6060-52401_		
						400	4000	3501	to	4000			
						450	4500	4001	to	4500			
						500	5000	4501	to	5000			
						570	5700	5001	to	5500			
						670	6700	5501	to	6700			
	1	1	1	1	Bag of sash parts HS barrier-free						PMZB0200-09701_		
67	1	1	1	1	Distance plate, long	for bogie wheels, front							
68	1	1	1	1	Distance plate, short	for bogie wheels, back							
no illus.	5	5	5	5	Countersunk tapping screw B 4.8 x 45								
	1	1	1	1	Bag of accessories HS-H bottom low						PMZB0300-0E601_	PMZB0300-02301_	
69	1	1	1	1	Filling piece, bottom low								
70	1	1	1	1	Cover plate, bottom rear low								
12	2	2	2	2	Stop								
14	3	3	3	3	Bottom guide								
15	2	2	2	2	Dowel pin 6 x 16								
16	1	1	1	1	Countersunk screw PZD M5 x 13 A2								
17	1	1	1	1	Bag closing cap	grey							
					Bag closing cap	brown							

for other requirements

71	1	1	1	1	ECO PASS weatherside profile B 20	Size	Length (in mm)	FW (in mm)	PPWB0010-52401_ PPWB0020-52401_
					450	4500	1493 to 4500		
					670	6700	4501 to 6700		
72	1	1	1	1	ECO PASS weatherside profile B 50	450	4500	1493 to 4500	PPWB0030-52401_ PPWB0040-52401_
						670	6700	4501 to 6700	
73					ECO PASS weatherside profile B 90	450	4500	1493 to 4500	PPWB0100-52401_ PPWB0110-52401_
						670	6700	4501 to 6700	
74	1	1	1	1	Sealing plate	450	4500	1493 to 4500	PPAB0070-52401_ PPAB0080-52401_
						670	6700	4501 to 6700	
	1	1	1	1	Carton compensation rail ¹⁾	450	4500	1493 to 6700	PPZB0250-52401_
75	1	1	1	1	Compensation rail				
76	1	1	1	1	Seal				
77	0/1	0/1	0/1	0/1	ECO PASS flat threshold B171	Size	Length (in mm)	FW (in mm)	PPTB0240-52401_ PPTB0250-52401_ PPTB0260-52401_ PPTB0270-52401_ PPTB0280-52401_ PPTB0290-52401_ PPTB0300-52401_
					(for anti-slip protection or to cover the joint on two-sided threshold)	200	2000	1493to4000	
						250	2500	4001to5000	
						350	3500	5001to6700	
						450	4500	to9000	
						500	5000	9001to10000	
						570	5700	10001to11400	
						670	6700	11401to13400	

¹⁾ required when threshold is used

Hardware components for elements with sash weight 300 - 400 kg

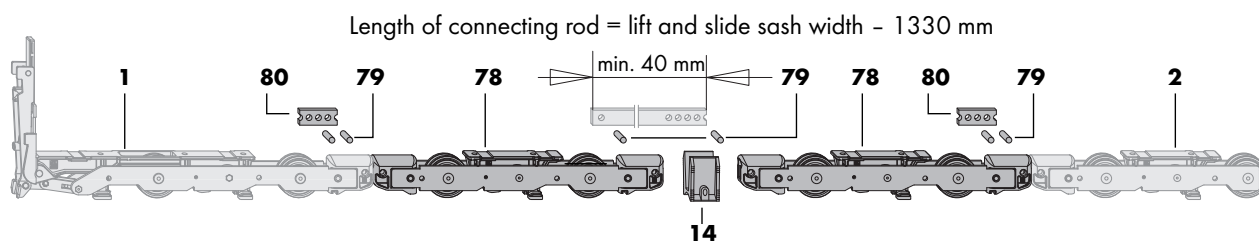


Fig. 5: Hardware diagram HS 400

For a sash weight of 300-400 kg, the connecting rod **must** be fastened to the bogie wheels with Dowel pin 6 x 16 (**79**).

	No.	Piece scheme				HS PORTAL 400			Material number	
		A	C	G2	G3	Material description			RAL 7035 grey	RAL 9005 black
		1	2	1	1	Additional carton HS 400 H TS consisting of:			PMKB0340-10001 _	
78		2	4	2	2	Bogie wheels M				
79		6	12	6	6	Dowel pin 6 x 16				
80		2	4	2	2	Connecting rod				
						Length 40 mm				
						Comfort gear HS PORTAL 300 PZ				
						Size	Handle height (in mm)	SH (in mm)	EV 1 silver	EV 1 silver
						220	1010	1776 to 2275	PGKB4070-52401_	PGKB4070-52401_
						260	1010	2276 to 2675	PGKB4080-52401_	PGKB4080-52401_

PORTAL CATALOGUE

HS 300 H ECO PASS
68/28 KH0130-01

Contents	Page
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Hardware components for elements with sash weight 300 - 400 kg	87

Technical specifications and colours are subject to change.

Size range HS PORTAL 68/28 KH0130-01

Sash width	HS 300	(mm)	720 to 3335
Sash width	HS 400	(mm)	1370 to 3335
Sash height (sliding sash)	KH 0130-01	(mm)	1190 to 2690
Frame width		(mm)	1470 to 6700
Frame height		(mm)	1308 to 2808
Sash weight	HS 300	(kg)	max. 300
Sash weight	HS 400	(kg)	max. 400
Backset (gear)		(mm)	37.5
Sash timber thickness		(mm)	68
Sash distance		HS (mm)	28
Handle height (window:	SH 1190 -1790)	(mm)	410
Handle height (door:	SH 1790 -2690)	(mm)	1010

- The **profile sections** must match the details of the following SIEGENIA-AUBI construction drawings, sash timber thickness 68 mm:

<i>H48.HS_HZS101EN</i>	Sheet 4.1	HS PORTAL with guiding rail KH0130-01	Scheme A
	Sheet 1.2	HS-PORTAL	Scheme C
	Sheet 1.4	HS-PORTAL	Scheme G2
	Sheet 1.5	HS-PORTAL	Scheme G3
	Sheet 6.1	Threshold cutting dimensions	Scheme A
	Sheet 6.2	Threshold cutting dimensions	Scheme A
- With a sash weight of 200 kg or more, we recommend using Comfort gear HS PORTAL 300 PZ – PGKB4070-52401_ or PGKB4080-52401_
- With a sash weight of 300 kg or more, the use of Comfort gear HS PORTAL 300 PZ – PGKB4070-52401_ or PGKB4080-52401_ is required.
- For HS 300 with a sash weight of 300 – 400 kg, the connecting rod must be fastened to the bogie wheels with Dowel pin 6 x 16 (**78**).
- We recommend the use of stainless steel screws for mounting components on the ECO PASS threshold.
- The threshold must be shimmed at intervals of 300 mm to be pressure-tight and sound-absorbing.
- We recommend using the following elastic adhesives and sealants: e.g. from OTTO Chemie - OTTOCOLL® HiTack or from Collano Adhesives AG - Collano® A 1970 or equivalent.

Hardware components scheme A

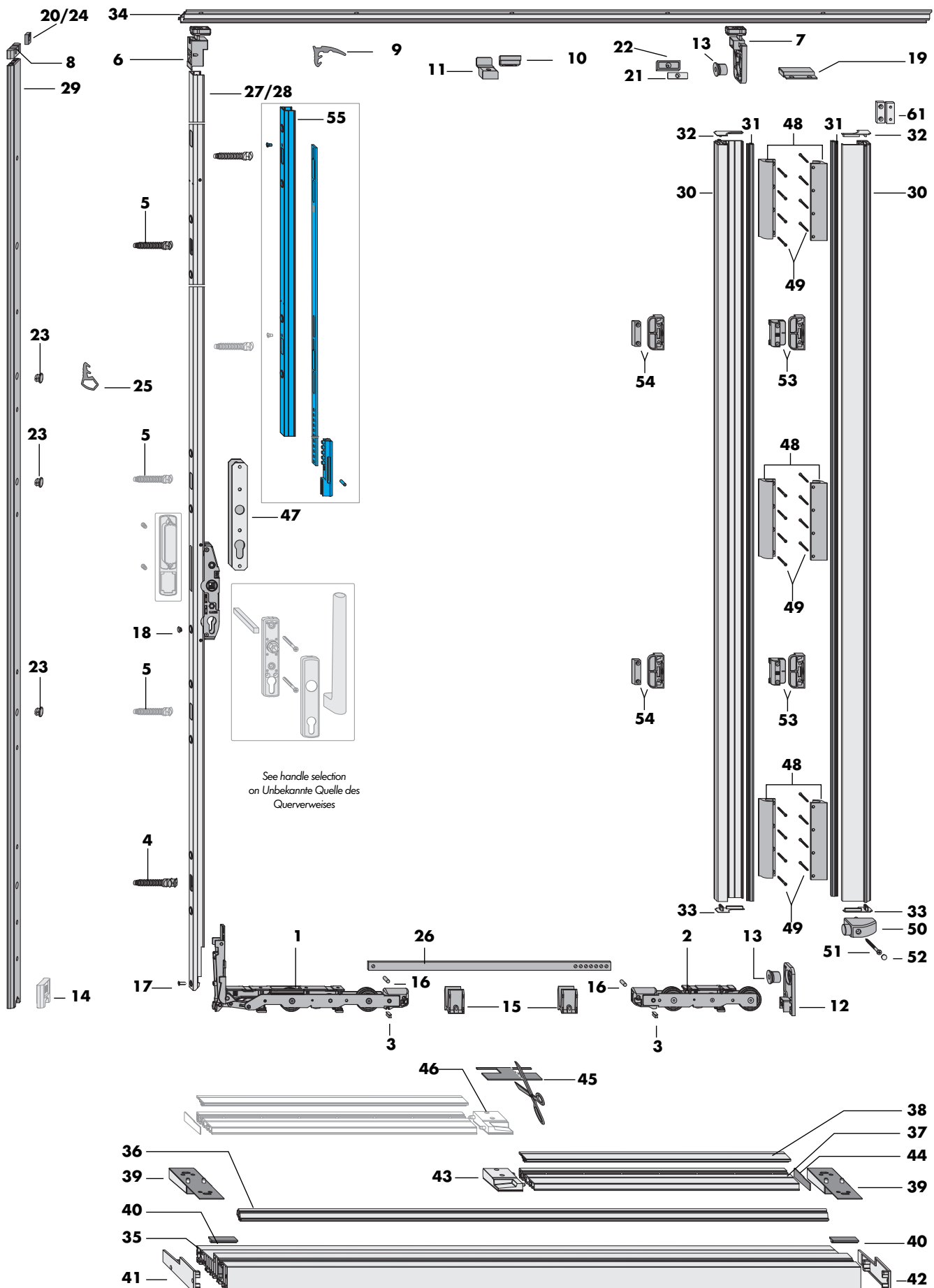


Fig. 1: Hardware diagram HS 300 scheme A

		Piece scheme	HS PORTAL 300 scheme A				Material number			
		A	Material description				RAL 7035 grey	RAL 9005 black		
General requirements		1	Handle Si-line HS PORTAL 300				See handle selection on Unbekannte Quelle des Querverweises			
		1	Basic carton HS 300 TS consisting of:				PMKB0300-10001_			
	1	1	Bogie wheels V	VSU HS 300 TS			PMZB0350-02101_	PMZB0350-02301_		
	2	1	Bogie wheels H	HS 300 TS						
	3	1	Brush	Length 100 mm						
		1	Carton HS-H KH0130-01 consisting of:							
	4	1	Locking bolt E, bottom TS	for guiding rail KH0130-01			PMZB0310-02101_	PMZB0310-02301_		
	5	1	Locking bolt E, top TS							
	6	1	Front top guide							
	7	1	Rear top guide							
	8	1	Top filling piece							
	9	1	Top seal HH0134-05							
	10	1	Locking bolt CL							
	11	1	Top locking bolt CL							
		1	Bag of accessories HS-H bottom high consisting of:						PMZB0310-02101_	PMZB0310-02301_
	12	1	Cover plate, bottom rear high	for sealing rail B made of timber						
	13	2	Stop							
	14	1	Bottom high filling piece							
	15	2	Bottom guide							
	16	2	Dowel pin 6 x 16							
	17	1	Countersunk screw M5 x 13							
	18	1	Bag closing cap							
		1	Bag closing cap							
		1	Sealing elements set HS-H KH0130-01 IV 68 consisting of:				PMZB0450-02101_	PMZB0450-02301_		
	19	1	Gasket bridge	for sealing rail B						
	20	1	Top sealing part							
	21	1	Fastening plate 10							
	22	1	Sealing element 10							
	23	3	Bag closing cap							
	24	1	Top sealing part HSK							
	25	1	Seal HH0134-02 Length 17.5 m				PDPB0030-02101_	PDPB0030-09901_		
depend on SW	26	1	Connecting rod	Size 150 TS 200 TS 250 TS 335 TS	Length (in mm) 898 1398 1898 2748	SW (in mm) 720 to 1500 1501 to 2000 2001 to 2500 2501 to 3350	719282 719480 719497 719725			
depending on SH	27	1	Gear HS PORTAL 300 PZ for lift and slide sashes up to 200 kg	Size 170 220 260	Handle height (in mm) 410 1010 1010	SH (in mm) 1208 to 1775 1776 to 2275 2276 to 2675	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_			
	28		Comfort gear HS PORTAL 300 PZ for lift and slide sashes from 200 kg	Size 220 260	Handle height (in mm) 1010 1010	SH (in mm) 1776 to 2275 2276 to 2675	EV 1 silver PGKB4070-52401_ PGKB4080-52401_			
	29	1	Sealing rail B Alternative: rail B in timber version.	Size 260	SH (in mm) 1208 to 2675		PPDB0010-02101_	PPDB0010-02301_		
		1	Sealing rail C Alternative: rail C in timber version.	Size 260	Sash distance (in mm) 28	SH (in mm) 1208 to 2675	RAL 7035 light grey PMZB0180-02101_			
	30	2	Sealing rail C HS	Length 2.7 m						
	31	2	Sealing profile rail C HS	for sealing rail C						
	32	2	Cover cap left sealing rail C							
	33	2	Cover cap right sealing rail C							

Continued on next page

No.	Piece scheme	HS PORTAL 300 scheme A				Material number	
	A	Material description				RAL 7035 grey	RAL 9005 black
34	1	Guiding rail KH0130-01 for STT 68 mm	Size	Length (in mm)	FW (in mm)	EV 1 silver	C 34 dark bronze
			300	2900	1470 to 3000	130865	130872
			350	3400	3001 to 3500	130889	-
			400	3900	3501 to 4000	130902	130919
			450	4400	4001 to 4500	130926	-
			500	4900	4501 to 5000	130940	130957
			570	5600	5001 to 5700	130964	-
			670	6600	5701 to 6700	130988	130995
35	1	ECO PASS threshold B171	300	3000	1493 to 3000	PPBB0600-52401_	
			350	3500	3001 to 3500	PPBB0610-52401_	
			400	4000	3501 to 4000	PPBB0620-52401_	
			450	4500	4001 to 4500	PPBB0630-52401_	
			500	5000	4501 to 5000	PPBB0650-52401_	
			570	5700	5001 to 5500	PPBB0750-52401_	
			670	6700	5501 to 6700	PPBB0660-52401_	
36	1	ECO PASS running rail 5/15	350	3500	1493 to 3500	PPLB5210-52401_	
			400	4000	3501 to 4000	PPLB6210-52401_	
			450	4500	4001 to 4500	PPLB5220-52401_	
			500	5000	4501 to 5000	PPLB6220-52401_	
			570	5700	5001 to 5500	PPLB6230-52401_	
			670	6700	5501 to 6700	PPLB5240-52401_	
37	1	ECO PASS support rail S96	Size	Length (in mm)	SW (in mm)	PPZB5330-02101_	
			150	1500	720 to 1500	PPZB5340-02101_	
			200	2000	1501 to 2000	PPZB5350-02101_	
			350	3500	2501 to 3350	PPZB5060-02101_	
38	1	ECO PASS adapter rail H 5 for timber profile	150	1500	720 to 1500	PPZB5480-02101_	
			200	2000	1501 to 2000	PPZB5390-02101_	
			250	2500	2001 to 2500	PPZB5400-02101_	
			350	3500	2501 to 3350	PPZB5160-02101_	

depending on FW		1	Frame corner connection H EP B171 <i>consisting of:</i>	ECO PASS for timber elements	PMRB0150-02101_
	39	2	ECO PASS sealing part REV		
	40	2	Seal	for recess running rail REV	
	41	1	End cap, left	for ECO PASS threshold	
	42	1	End cap, right	for ECO PASS threshold	PMRB0212-02101_
		1	Sealing part MP, left <i>consisting of:</i>	for DIN, left	
	43	1	ECO PASS sealing part MP left B171	for sealing between sliding and fixed sash	
	44	1	End seal MP	for sealing support rail and sealing block REV	
	45	1	Sealing pad H B171	on sealing block and support rail	PMRB0211-02101_
		1	Sealing part MP, right <i>consisting of:</i>	for DIN, right	
	46	1	ECO PASS sealing part MP right B171	for sealing between sliding and fixed sash	
	44	1	End seal MP	for sealing support rail and sealing block REV	
	45	1	Sealing pad H B171	on sealing block and support rail	

Accessories
for anti-intruder elements

5	2	Locking bolt E, top TS	719152
59	-	Top locking part C TS	719466
47	1	Anti-drill guard E	721216
	1	Security interlock (C-E rail) HS <i>consisting of:</i>	PMZB0190-50001_
48	6	Security interlock (C-E rail) HS WK 2 K1	
49	25	Screw for frame part 5 x 55 mm	

for other requirements

	1	Bag stop consisting of:	PMZB0140-02101_	831922
50	1	Stop		
51	1	Countersunk tapping screw B 4.8 x 70		
52	1	Cover cap		
	1	Bag of accessories HS-H for frame corner connection consisting of:	PMZB0440-10001_	
no illus.	1	Bolt Ø 7 x 40		
no illus.	1	Clamping screw 6 x 130		
	1	Bag of accessories HS-H for frame corner connection consisting of:	PMZB0440-10001_	
no illus.	1	Bolt Ø 7 x 40		
no illus.	1	Clamping screw 6 x 130		
53	1/2	Centre lock CE HS PORTAL TS B1 for sealing rail C, no. 30 - 33 , mat. no.: PMZB0180...	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm	PMZB0210-10001_
54	1/2	Centre lock CE HS PORTAL TS B1 for sealing rail C made of timber	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm	PMZB0150-10001_
55	1	Additional lock HS	Sash height 1495 to 3325 mm	PMGB0010-12401_ PMGB0010-13201_
5	1/2	Locking bolt E, top TS	for additional lock	719152

Hardware components scheme C

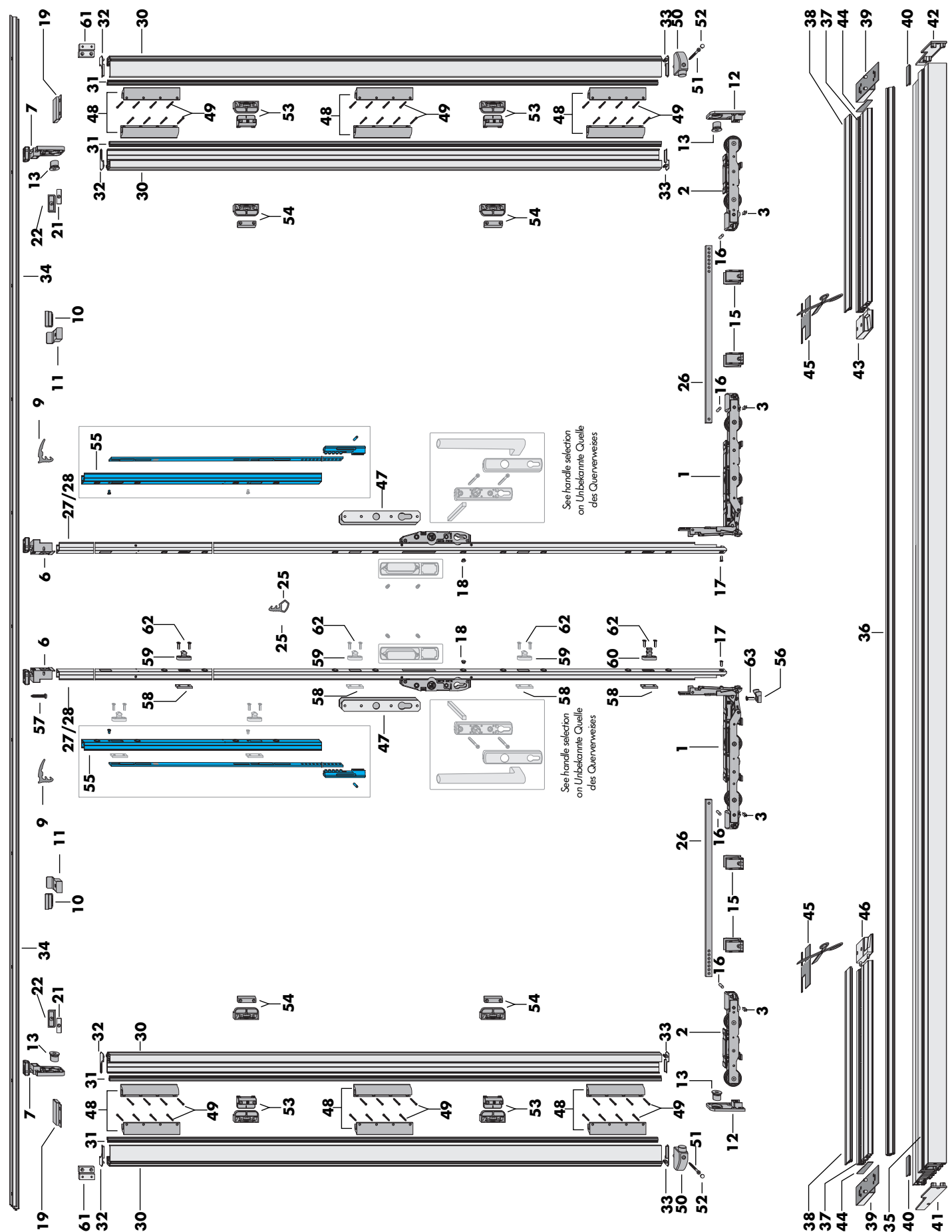


Fig. 2: Hardware diagram HS 300 scheme C

	No.	Piece scheme	HS PORTAL 300 scheme C				Material number			
		C	Material description				RAL 7035 grey	RAL 9005 black		
General requirements		2	Handle Si-line HS PORTAL 300				See handle selection on Unbekannte Quelle des Querverweises			
		2	Basic carton HS 300 C TS consisting of:				PMKB0310-10001_			
	1	2	Bogie wheels V	VSU HS 300 TS		PMZB0350-02101_	PMZB0350-02301_			
	2	2	Bogie wheels H	HS 300 TS						
	3	1	Brush	Length 100 mm						
		2	Carton HS-H KH0130-01 consisting of:		for guiding rail KH0130-01					
	4	-	Locking bolt E, bottom TS		for guiding rail KH0130-01	PMZB0310-02101_	PMZB0310-02301_			
	5	-	Locking bolt E, top TS							
	6	2	Front top guide							
	7	2	Rear top guide							
	8	-	Top filling piece							
	9	2	Top seal HH0134-05							
	10	2	Locking bolt CL							
	11	2	Top locking bolt CL							
		2	Bag of accessories HS-H bottom high consisting of:					PMZB0310-02101_	PMZB0310-02301_	
	12	2	Cover plate, bottom rear high					for sealing rail B made of timber	239087	
	13	4	Stop							
	14	-	Bottom high filling piece							
	15	4	Bottom guide							
	16	4	Dowel pin 6 x 16							
	17	2	Countersunk screw M5 x 13							
	18	2	Bag closing cap							
		2	Bag closing cap							
		1	Bag of accessories HS-H consisting of:		for scheme C					
	56	1	Locking part G TS		only required for sash distance 10 mm					
	57	1	Pan head tapping screw B6.3X38-A2							
	58	2	Threaded plate M 5							
	59	1	Top locking part C TS							
	60	1	Bottom locking part C TS							
	61	-	Stop HS 10FA							
	62	4	Countersunk screw PZD DIN965 M5X20-A2							
	63	1	Countersunk screw PZD DIN965 M6X20-A2							
		2	Sealing elements set HS-H KH0130-01 IV 68 consisting of:		PMZB0450-02101_	PMZB0450-02301_				
	19	2	Gasket bridge		for sealing rail B					
	20	2	Top sealing part							
	21	2	Fastening plate 10							
	22	2	Sealing element 10							
	23	-	Bag closing cap							
	24	2	Top sealing part HSK							
	25	2	Seal HH0134-02		Length 17.5 m	PDPB0030-02101_	PDPB0030-09901_			
depend on SW	26	2	Connecting rod		Size	Length (in mm)	SW (in mm)	719282 719480 719497 719725		
					150 TS	898	720 to 1500			
					200 TS	1398	1501 to 2000			
					250 TS	1898	2001 to 2500			
					335 TS	2748	2501 to 3350			
depending on SH	27	2	Gear HS PORTAL 300 PZ		Size	Handle height (in mm)	SH (in mm)	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_		
					170	410	1208 to 1775			
					220	1010	1776 to 2275			
					260	1010	2276 to 2675			
	28	2	Comfort gear HS PORTAL 300 PZ		Size	Handle height (in mm)	SH (in mm)	EV 1 silver PGKB4070-52401_ PGKB4080-52401_		
					220	1010	1776 to 2275			
					260	1010	2276 to 2675			
		2	Sealing rail C Alternative: rail C in timber version.		Size	Sash distance (in mm)	SH (in mm)	RAL 7035 light grey PMZB0180-02101_		
	30	4	Sealing rail C HS		Length 2.7 m					
	31	4	Sealing profile rail C HS		for sealing rail C					
	32	4	Cover cap left sealing rail C							
	33	4	Cover cap right sealing rail C							

Continued on next page

	No.	Piece scheme C	HS PORTAL 300 scheme C				Material number	
			Material description				RAL 7035 grey	RAL 9005 black
depending on FW	34	1	Guiding rail KH0130-01 for STT 68 mm	Size	Length (in mm)	FW (in mm)	EV 1 silver	C 34 dark bronze
				300	2900	1470 to 3000	130865	130872
				350	3400	3001 to 3500	130889	-
				400	3900	3501 to 4000	130902	130919
				450	4400	4001 to 4500	130926	-
				500	4900	4501 to 5000	130940	130957
				570	5600	5001 to 5700	130964	-
				670	6600	5701 to 6700	130988	130995
	35	1	ECO PASS threshold B171	300	3000	1493 to 3000	PPBB0600-52401_	
				350	3500	3001 to 3500	PPBB0610-52401_	
				400	4000	3501 to 4000	PPBB0620-52401_	
				450	4500	4001 to 4500	PPBB0630-52401_	
				500	5000	4501 to 5000	PPBB0650-52401_	
				570	5700	5001 to 5500	PPBB0750-52401_	
				670	6700	5501 to 6700	PPBB0660-52401_	
	36	1	ECO PASS running rail 5/15	350	3500	1493 to 3500	PPLB5210-52401_	
				400	4000	3501 to 4000	PPLB6210-52401_	
				450	4500	4001 to 4500	PPLB5220-52401_	
				500	5000	4501 to 5000	PPLB6220-52401_	
				570	5700	5001 to 5500	PPLB6230-52401_	
				670	6700	5501 to 6700	PPLB5240-52401_	
	37	2	ECO PASS support rail S96	Size	Length (in mm)	SW (in mm)		
				150	1500	720 to 1500	PPZB5330-02101_	
				200	2000	1501 to 2000	PPZB5340-02101_	
				250	2500	2001 to 2500	PPZB5350-02101_	
				350	3500	2501 to 3350	PPZB5060-02101_	
	38	2	ECO PASS adapter rail H 5 for timber profile	150	1500	720 to 1500	PPZB5480-02101_	
				200	2000	1501 to 2000	PPZB5390-02101_	
250				2500	2001 to 2500	PPZB5400-02101_		
350				3500	2501 to 3350	PPZB5160-02101_		

depending on FW		1	Frame corner connection H EP B171 consisting of:	ECO PASS for timber elements	PMRB0150-02101_
	39	1	ECO PASS sealing part REV		
	40	1	Seal	for recess running rail REV	
	41	1	End cap, left	for ECO PASS threshold	
	42	1	End cap, right	for ECO PASS threshold	
		1	Sealing part MP, left consisting of:		PMRB0212-02101_
	43	1	ECO PASS sealing part MP left B171	for sealing between sliding and fixed sash	
	44	1	End seal MP	for sealing support rail and sealing block REV	
	45	1	Sealing pad H B171	on sealing block and support rail	
		1	Sealing part MP, right consisting of:		PMRB0211-02101_
	46	1	ECO PASS sealing part MP right B171	for sealing between sliding and fixed sash	
	44	1	End seal MP	for sealing support rail and sealing block REV	
	45	1	Sealing pad H B171	on sealing block and support rail	

Accessories for anti-intruder elements

59	2	Top locking part C TS		719466
47	2	Anti-drill guard E		721216
	2	Security interlock (C-E rail) HS	Can only be used with sealing rail CPMZB0180...	PMZB0190-50001_
48	12	Security interlock (C-E rail) HS WK 2 K1		
49	50	Screw for frame part 5 x 55 mm		

for other requirements

	2	Bag stop consisting of:		PMZB0140-02101_	831922
50	2	Stop			
51	2	Countersunk tapping screw B 4.8 x 70			
52	2	Cover cap			
	1	Bag of accessories HS-H for frame corner connection consisting of:		PMZB0440-10001_	
no illus.	1	Bolt Ø 7 x 40			
no illus.	1	Clamping screw 6 x 130			
53	2/4	Centre lock CE HS PORTAL TS B1 for sealing rail C, no. 30 - 33, mat. no.: PMZB0180...	2 pieces for sash height up to 1800 mm, 4 pieces for > 1800 mm	PMZB0210-10001_	
54	2/4	Centre lock CE HS PORTAL TS B1 for sealing rail C made of timber	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm	PMZB0150-10001_	
55	2	Additional lock HS	Sash height 1495 to 3325 mm	PMGB0010-12401_	PMGB0010-13201_
59	2/4	Locking bolt E, top TS	for additional lock	719152	

Hardware components scheme G2 / G3

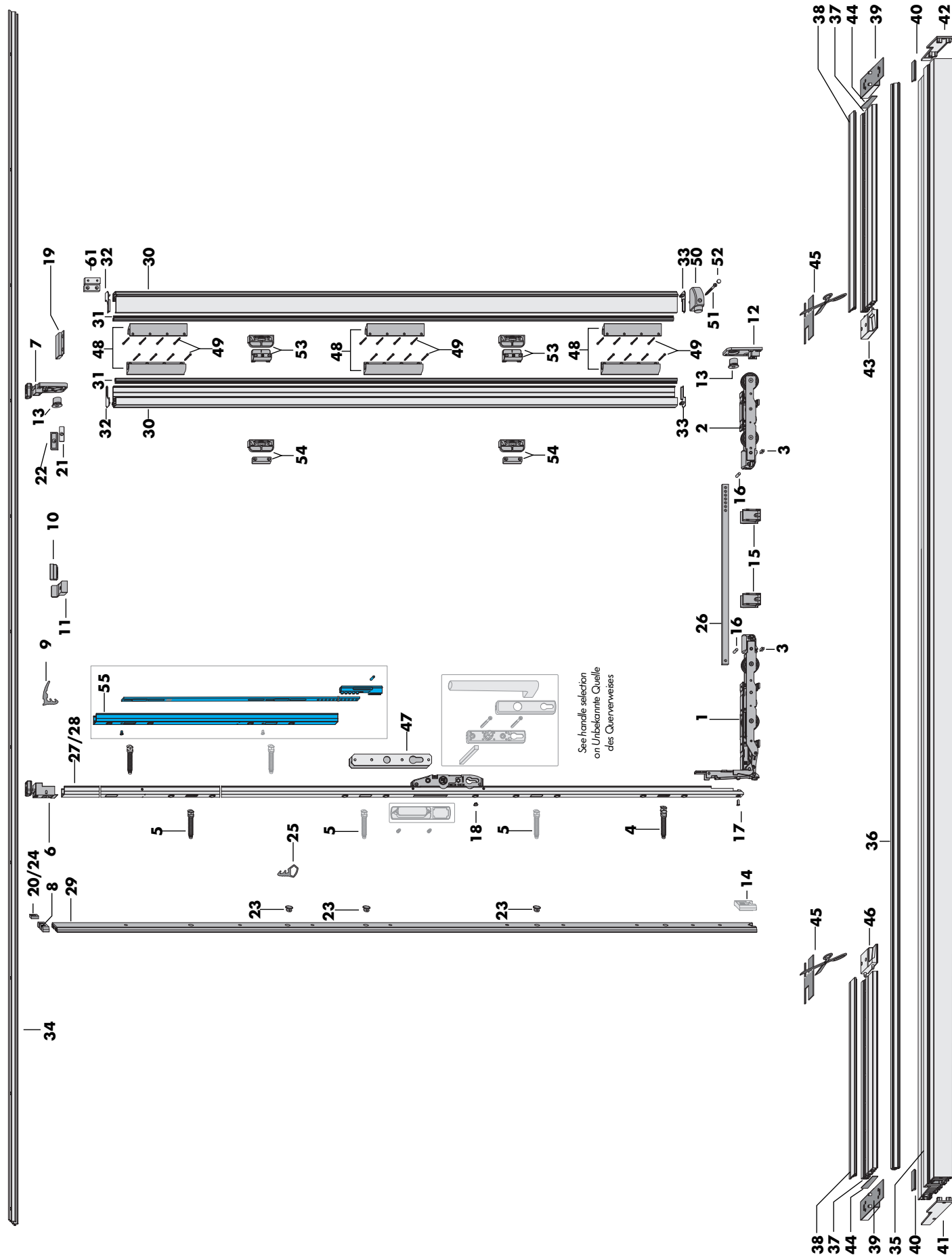


Fig. 3: Hardware diagram HS 300 scheme G 2 and G 3

	No.	Piece scheme		HS PORTAL 300 scheme G2 / G3			Material number				
		G 2	G 3	Material description			RAL 7035 grey	RAL 9005 black			
General requirements		1	1	Handle Si-line HS PORTAL 300			See handle selection on Unbekannte Quelle des Querverweises				
	1	1	1	Basic carton HS 300 H TS consisting of:			PMKB0300-10001_				
		1	1	Bogie wheels V	VSU HS 300 TS		PMZB0350-02101_	PMZB0350-02301_			
		2	1	Bogie wheels H	HS 300 TS						
	3	1	Brush	Length 100 mm							
	4	1	1	Carton HS-H KH0130-01 consisting of:			PMZB0310-02101_	PMZB0310-02301_			
		1	1	Locking bolt E, bottom TS							
		1	1	Locking bolt E, top TS							
		1	1	Front top guide							
		1	1	Rear top guide							
		1	1	Top filling piece	for guiding rail KH0130-01						
		1	1	Top seal HH0134-05	Length 3.4 m						
		1	1	Locking bolt CL							
		1	1	Top locking bolt CL							
		12	1	1	Bag of accessories HS-H bottom high consisting of:				PMZB0450-02101_	PMZB0450-02301_	
			1	1	Cover plate, bottom rear high						
	2		2	Stop							
	1		1	Bottom high filling piece							
	2		2	Bottom guide							
	2		2	Dowel pin 6 x 16							
	1		1	Countersunk screw M5 x 13							
	1		1	Bag closing cap	grey						
	19			Bag closing cap	brown		PDPB0030-02101_	PDPB0030-09901_			
		1	1	Sealing elements set HS-H KH0130-01 IV 68 consisting of:							
		1	1	Gasket bridge							
		1	1	Top sealing part							
		1	1	Fastening plate 10							
		1	1	Sealing element 10							
		3	3	Bag closing cap	for sealing rail B						
		1	1	Top sealing part HSK							
	25	1	1	Seal HH0134-02 Length 17.5 m							
depending on SW	26	1	1	Connecting rod Size Length (in mm) SW (in mm) 150 TS 898 720 to 1500 200 TS 1398 1501 to 2000 250 TS 1898 2001 to 2500 335 TS 2748 2501 to 3350			719282 719480 719497 719725				
depending on SH	27	1	1	Gear HS PORTAL 300 PZ Size Handle height (in mm) SH (in mm) 170 410 1208 to 1775 220 1010 1776 to 2275 260 1010 2276 to 2675 for lift and slide sashes up to 200 kg			EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_				
	28			Comfort gear HS PORTAL 300 PZ Size Handle height (in mm) SH (in mm) 220 1010 1776 to 2275 260 1010 2276 to 2675 for lift and slide sashes from 200 kg			EV 1 silver PGKB4070-52401_ PGKB4080-52401_				
	29			1	1	Sealing rail B Alternative: rail B in timber version. Size SH (in mm) 260 1208 to 2675			PPDB0010-02101_	PPDB0010-02301_	
	30			1	1	Sealing rail C Alternative: rail C in timber version. Size Sash distance (in mm) SH (in mm) 260 28 1208 to 2675			PMZB0180-02101_		
		2	2	Sealing rail C HS Length 2.7 m							
		2	2	Sealing profile rail C HS for sealing rail C							
		2	2	Cover cap left sealing rail C							
		2	2	Cover cap right sealing rail C							

Continued on next page

	No.	Piece scheme		HS PORTAL 300 scheme G2 / G3					Material number	
		G 2	G 3	Material description					RAL 7035 grey	RAL 9005 black
depending on FW	34	1	1	Guiding rail KH0130-01 for STT 68 mm	Size	Length (in mm)	FW (in mm)	EV 1 silver 130865 130889 130902 130926 130940 130964 130988	C 34 dark bronze 130872 - 130919 - 130957 - 130995	
					300	2900	1470 to 3000			
					350	3400	3001 to 3500			
					400	3900	3501 to 4000			
					450	4400	4001 to 4500			
					500	4900	4501 to 5000			
					570	5600	5001 to 5700			
					670	6600	5701 to 6700			
	35	1	1	ECO PASS threshold B171	300	3000	1493 to 3000	PPBB0600-52401_ PPBB0610-52401_ PPBB0620-52401_ PPBB0630-52401_ PPBB0650-52401_ PPBB0750-52401_ PPBB0660-52401_		
					350	3500	3001 to 3500			
					400	4000	3501 to 4000			
					450	4500	4001 to 4500			
					500	5000	4501 to 5000			
					570	5700	5001 to 5500			
					670	6700	5501 to 6700			
	36	1	1	ECO PASS running rail 5/15	350	3500	1493 to 3500	PPLB5210-52401_ PPLB6210-52401_ PPLB5220-52401_ PPLB6220-52401_ PPLB6230-52401_ PPLB5240-52401_		
					400	4000	3501 to 4000			
					450	4500	4001 to 4500			
					500	5000	4501 to 5000			
					570	5700	5001 to 5500			
					670	6700	5501 to 6700			
	37	2	2	ECO PASS support rail S96	Size	Length (in mm)	SW (in mm)	PPZB5330-02101_ PPZB5340-02101_ PPZB5350-02101_ PPZB5060-02101_		
					150	1500	720 to 1500			
					200	2000	1501 to 2000			
					250	2500	2001 to 2500			
	38	2	2	ECO PASS adapter rail H 5 for timber profile	350	3500	2501 to 3350	PPZB5480-02101_ PPZB5390-02101_ PPZB5400-02101_ PPZB5160-02101_		
					150	1500	720 to 1500			
					200	2000	1501 to 2000			
250					2500	2001 to 2500				

depending on FW		1	1	Frame corner connection H EP B171	ECO PASS for timber elements	PMRB0150-02101_	
	39	1	1	consisting of:			
	40	1	1	ECO PASS sealing part REV			
	41	1	1	Seal	for recess running rail REV		
	42	1	1	End cap, left	for ECO PASS threshold		
				End cap, right	for ECO PASS threshold		
		1	1	Sealing part MP, left	for DIN, left	PMRB0212-02101_	
				consisting of:			
	43	1	1	ECO PASS sealing part MP left B171	for sealing between sliding and fixed sash		
	44	1	1	End seal MP	for sealing support rail and sealing block REV		
	45	1	1	Sealing pad H B171	on sealing block and support rail		
		1	1	Sealing part MP, right	for DIN, right	PMRB0211-02101_	
				consisting of:			
	46	1	1	ECO PASS sealing part MP right B171	for sealing between sliding and fixed sash		
	44	1	1	End seal MP	for sealing support rail and sealing block REV		
	45	1	1	Sealing pad H B171	on sealing block and support rail		

Accessories

for anti-intruder elements

5	2	2	Locking bolt E, top TS		719152
47	1	1	Anti-drill guard E		721216
	1	1	Security interlock (C-E rail) HS	Can only be used with sealing rail CPMZB0180-...	PMZB0190-50001_
48	6	6	Security interlock (C-E rail) HS WK 2 K1		
49	25	25	Screw for frame part 5 x 55 mm		

for other requirements

	1	1	Bag stop		PMZB0140-02101_	831922
			consisting of:			
50	1	1	Stop			
51	1	1	Countersunk tapping screw B 4.8 x 70			
52	1	1	Cover cap			
	1	1	Bag of accessories HS-H for frame corner connection		PMZB0440-10001_	
			consisting of:			
no illus.	1	1	Bolt Ø 7 x 40			
no illus.	1	1	Clamping screw 6 x 130			
53	1/2	1/2	Centre lock CE HS PORTAL TS B1	2 pieces for sash height up to 1800 mm, 4 pieces for > 1800 mm	PMZB0210-10001_	
			for sealing rail C, no. 30 - 33, mat. no.: PMZB0180-...			
54	1/2	1/2	Centre lock CE HS PORTAL TS B1	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm	PMZB0150-10001_	
			for sealing rail C made of timber			
55	1	1	Additional lock HS	Sash height 1495 to 3325 mm	PMGB0010-12401_	PMGB0010-13201_
59	1/2	1/2	Locking bolt E, top TS	for additional lock	719152	

Hardware component accessories for ECO PASS threshold

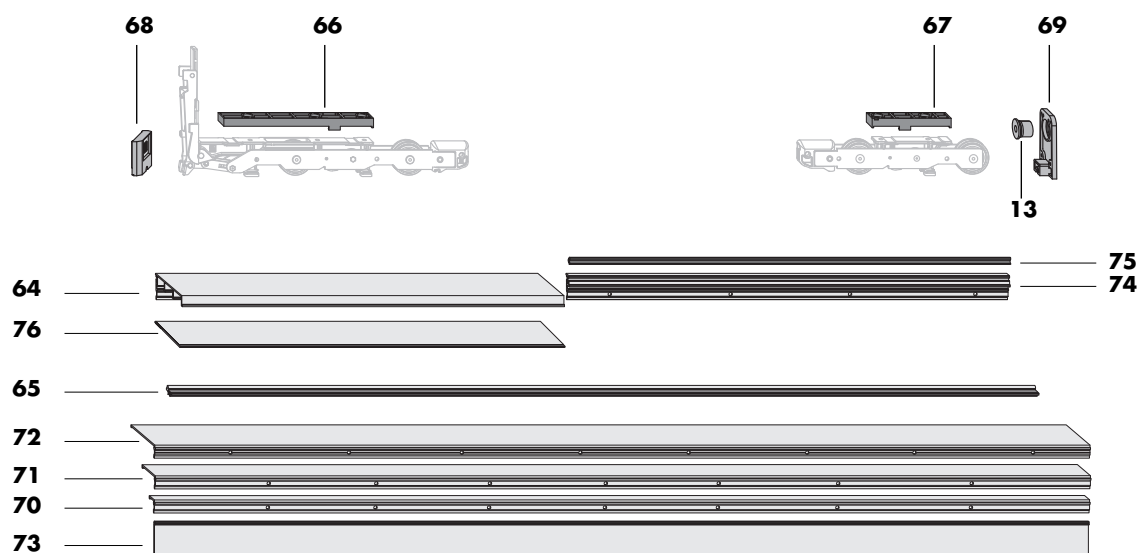


Fig. 4: Hardware diagram HS-PORTAL accessories for ECO PASS threshold

No.	Piece scheme				HS PORTAL 300 Material description	Material number	
	A	C	G2	G3		RAL 7035 grey	RAL 9005 black

Accessories

for barrier-free elements

64	1	1	1	1	ECO PASS threshold B171	Size	Length (in mm)	FW (in mm)	PPTB0180-52401_ PPTB0190-52401_ PPTB0040-52401_
						200	2000	1493 to 4000	
						250	2500	4001 to 5000	
65	1	1	1	1	ECO PASS running rail 5/5	350	3500	1493 to 3500	PPLB5180-52401_ PPLB6240-52401_ PPLB5190-52401_ PPLB6190-52401_ PPLB6200-52401_ PPLB6250-52401_
						400	4000	3501 to 4000	
						450	4500	4001 to 4500	
66	1	1	1	1	Bag of sash parts HS barrier-free	500	5000	4501 to 5000	PMZB0200-09701_
					Distance plate, long	570	5700	5001 to 5500	
					Distance plate, short	670	6700	5501 to 6700	
no illus.	5	5	5	5	Countersunk tapping screw B 4.8 x 45				PMZB0300-0E601_ PMZB0300-02301_
67	1	1	1	1	Bag of accessories for HS-H bottom low				
					Filling piece, bottom low				
					Cover plate, bottom rear low				
13	2	2	2	2	Stop				PMZB0300-0E601_ PMZB0300-02301_
15	3	3	3	3	Bottom guide				
16	2	2	2	2	Dowel pin 6 x 16				
17	1	1	1	1	Countersunk screw PZD M5 x 13 A2				PMZB0300-0E601_ PMZB0300-02301_
18	1	1	1	1	Bag closing cap	grey			
					Bag closing cap	brown			

for other requirements

70	1	1	1	1	ECO PASS weatherside profile B 20	Size	Length (in mm)	FW (in mm)	PPWB0010-52401_ PPWB0020-52401_
						450	4500	1493 to 4500	
						670	6700	4501 to 6700	
71	1	1	1	1	ECO PASS weatherside profile B 50	450	4500	1493 to 4500	PPWB0030-52401_ PPWB0040-52401_
						670	6700	4501 to 6700	
72	1	1	1	1	ECO PASS weatherside profile B 90	450	4500	1493 to 4500	PPWB0100-52401_ PPWB0110-52401_
						670	6700	4501 to 6700	
73	1	1	1	1	Sealing plate	450	4500	1493 to 4500	PPAB0070-52401_ PPAB0080-52401_
						670	6700	4501 to 6700	
74	1	1	1	1	Carton compensation rail ¹⁾	450	4500	1493 to 6700	PPZB0250-52401_
					Compensation rail				
					Seal				
75	1	1	1	1	ECO PASS flat threshold B171	Size	Length (in mm)	FW (in mm)	PPTB0240-52401_ PPTB0250-52401_ PPTB0260-52401_ PPTB0270-52401_ PPTB0280-52401_ PPTB0290-52401_ PPTB0300-52401_
					(for anti-slip protection or to cover the joint on two-sided threshold)	200	2000	1493 to 4000	
						250	2500	4001 to 5000	
76	0/1	0/1	0/1	0/1		350	3500	5001 to 6700	
						450	4500	to 9000	
						500	5000	9001 to 10000	
77	1	1	1	1		570	5700	10001 to 11400	
						670	6700	11401 to 13400	

¹⁾ required when threshold is used

Hardware components for elements with sash weight 300 - 400 kg

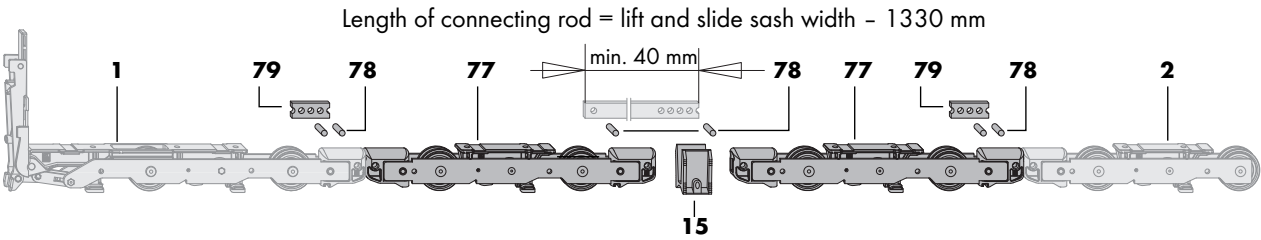


Fig. 5: Hardware diagram HS 400

For a sash weight of 300 – 400 kg, the connecting rod **must** be fastened to the bogie wheels with Dowel pin 6 x 16 (**78**).

No.	Piece scheme				HS PORTAL 400			Material number	
	A	C	G2	G3	Material description			RAL 7035 grey	RAL 9005 black
		1	2	1	1	Additional carton HS 400 H TS consisting of:		PMKB0340-10001_	
	77	2	4	2	2	Bogie wheels M HS 300 TS			
	78	6	12	6	6	Dowel pin 6 x 16			
	79	2	4	2	2	Connecting rod Length 40 mm			
	28	1	2	1	1	Comfort gear HS PORTAL 300 PZ (Length = SH - 115)		EV 1 silver PGKB4070-52401_ PGKB4080-52401_	EV 1 silver PGKB4070-52401_ PGKB4080-52401_
						Size	Handle height (in mm)	SH (in mm)	
						220	1010	1776 to 2275	
						260	1010	2276 to 2675	

PORTAL CATALOGUE

HS 300 H ECO PASS
78/28 KH0130-01

Contents	Page
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Hardware component accessories for ECO PASS threshold.....	102
Hardware components for elements with sash weight 300 - 400 kg	103

Technical specifications and colours are subject to change.

Size range HS PORTAL 78/28 KH 0130-01

Sash width	HS 300	(mm)	720 to 3335
Sash width	HS 400	(mm)	1370 to 3335
Sash height (sliding sash)	KH 0130-01	(mm)	1190 to 2690
Frame width		(mm)	1470 to 6700
Frame height		(mm)	1308 to 2808
Sash weight	HS 300	(kg)	max. 300
Sash weight	HS 400	(kg)	max. 400
Backset (gear)		(mm)	37.5
Sash timber thickness		(mm)	78
Sash distance		HS (mm)	28
Handle height (window:	SH 1190 -1790)	(mm)	410
Handle height (door:	SH 1790 -2690)	(mm)	1010

- The **profile sections** must match the details of the following SIEGENIA-AUBI construction drawings sash timber thickness 78 mm:

<i>H48.HS_HZS102EN</i>	<i>Sheet 4.1</i>	HS PORTAL with guiding rail KH0130-01	Scheme A
	<i>Sheet 1.2</i>	HS PORTAL	Scheme C
	<i>Sheet 1.4</i>	HS PORTAL	Scheme G2
	<i>Sheet 1.5</i>	HS PORTAL	Scheme G3
	<i>Sheet 6.1</i>	Threshold cutting dimensions	Scheme A
	<i>Sheet 6.2</i>	Threshold cutting dimensions	Scheme A
- With a sash weight of 200 kg or more, we recommend using Comfort gear HS PORTAL 300 PZ – PGKB4070-52401_ or PGKB4080-52401_
- With a sash weight of 300 kg or more, the use of Comfort gear HS PORTAL 300 PZ – PGKB4070-52401_ or PGKB4080-52401_ is required.
- For HS 300 with a sash weight of 300 – 400 kg, the connecting rod must be fastened to the bogie wheels with Dowel pin 6 x 16 (**78**).
- We recommend the use of stainless steel screws for the mounting of components to the ECO PASS threshold.
- The threshold must be shimmed at intervals of 300 mm to be pressure-tight and sound-absorbing.
- We recommend using the following elastic adhesives and sealants: e.g. from OTTO Chemie - OTTOCOLL® HiTack or from Collano Adhesives AG - Collano® A 1970 or equivalent.

Hardware components scheme A

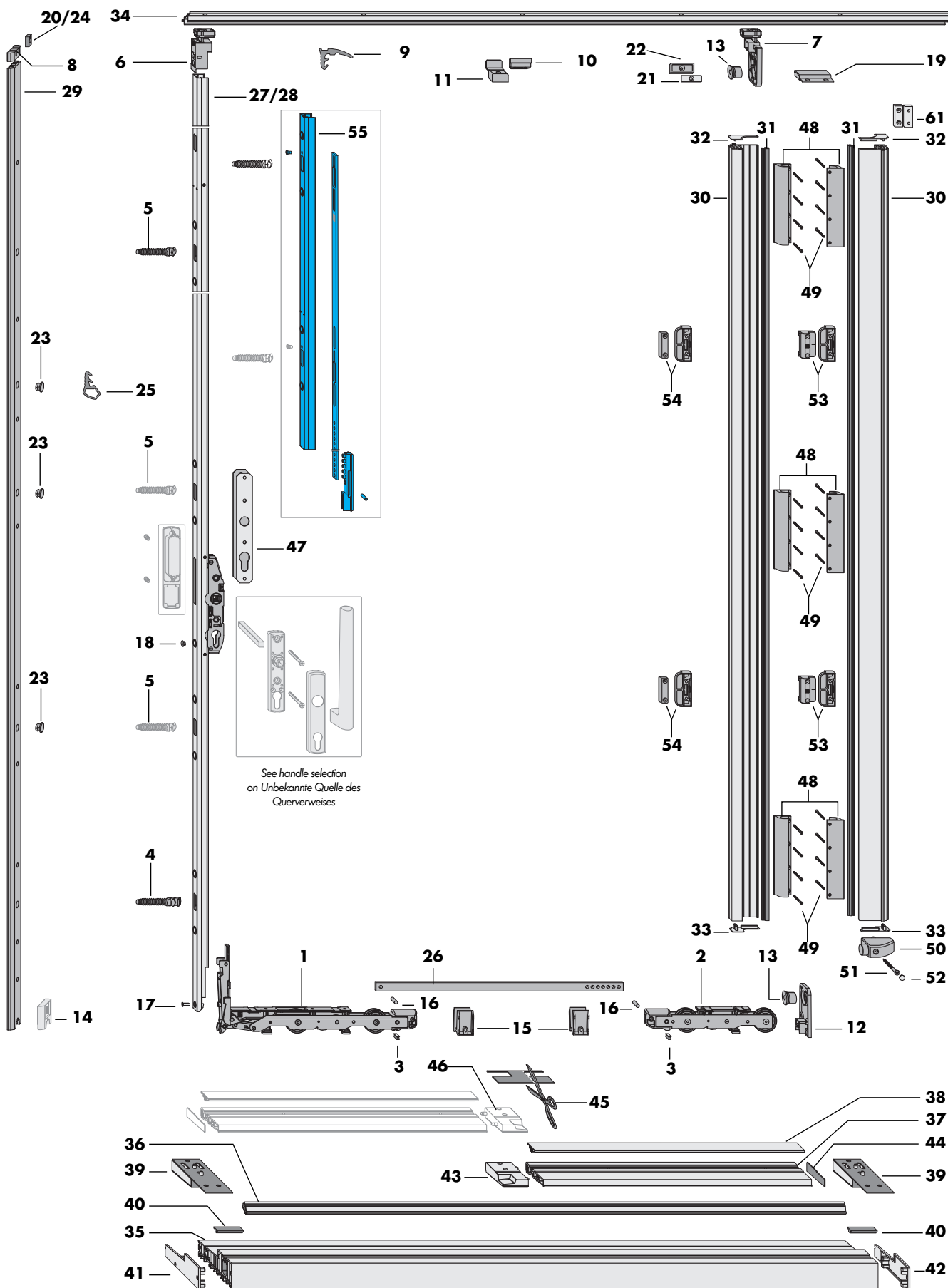


Fig. 1: Hardware diagram HS 300 scheme A

	No.	Piece scheme A	HS PORTAL 300 scheme A Material description				Material number RAL 7035 grey		RAL 9005 black
General requirements		1	Handle Si-line HS PORTAL 300				See handle selection on Unbekannte Quelle des Querverweises		
		1	Basic carton HS 300 TS consisting of:				PMKB0300-10001_		
	1	1	Bogie wheels V	VSU HS 300 TS			PMZB0350-02101_	PMZB0350-02301_	
	2	1	Bogie wheels H	HS 300 TS					
	3	1	Brush	Length 100 mm					
		1	Carton HS-H KH0130-01 consisting of:			PMZB0310-02101_			PMZB0310-02301_
	4	1	Locking bolt E, bottom TS						
	5	1	Locking bolt E, top TS						
	6	1	Front top guide						
	7	1	Rear top guide						
	8	1	Top filling piece	for guiding rail KH0130-01					
	9	1	Top seal HH0134-05	Length 3.4 m					
	10	1	Locking bolt CL						
	11	1	Top locking bolt CL						
		1	Bag of accessories HS-H bottom high consisting of:				PMZB0450-02101_	PMZB0450-02301_	
	12	1	Cover plate, bottom rear high						
	13	2	Stop						
	14	1	Bottom high filling piece	for sealing rail B made of timber					
	15	2	Bottom guide						
	16	2	Dowel pin 6 x 16						
	17	1	Countersunk screw M5 x 13						
	18	1	Bag closing cap	grey					
		1	Bag closing cap	brown					
		1	Sealing elements set HS-H KH0130-01 consisting of:			PDPB0030-02101_	PDPB0030-09901_		
	19	1	Gasket bridge						
	20	1	Top sealing part						
	21	1	Fastening plate 10						
	22	1	Sealing part 10						
	23	3	Bag closing cap	for sealing rail B					
	24	1	Top sealing part HSK						
	25	1	Seal HH0134-02			Length 17.5 m			
depend. on SW	26	1	Connecting rod	Size	Length (in mm)	SW (in mm)			
				150 TS	898	720 to 1500	719282		
				200 TS	1398	1501 to 2000	719480		
				250 TS	1898	2001 to 2500	719497		
				335 TS	2748	2501 to 3350	719725		
depending on SH	27	1	Gear HS PORTAL 300 PZ	Size	Handle height (in mm)	SH (in mm)	EV 1 silver		
				170	410	1208 to 1775	PGKB0010-52401_		
				220	1010	1776 to 2275	PGKB0020-52401_		
			for lift and slide sashes up to 200 kg	260	1010	2276 to 2675	PGKB0030-52401_		
	28		Comfort gear HS PORTAL 300 PZ	Size	Handle height (in mm)	SH (in mm)	EV 1 silver		
				220	1010	1776 to 2275	PGKB4070-52401_		
			for lift and slide sashes from 200 kg	260	1010	2276 to 2675	PGKB4080-52401_		
	29	1	Sealing rail B Alternative: rail B in timber version.	Size		SH (in mm)	PPDB0010-02101_	PPDB0010-02301_	
				260		1208 to 2675			
		1	Sealing rail C Alternative: rail C in timber version.	Size	sash clearance (in mm)	SH (in mm)	PMZB0180-02101_		
				260	28	1208 to 2675			
	30	2	Sealing rail C HS	Length 2.7 m					
	31	2	Sealing profile rail C HS	for sealing rail C					
	32	2	Cover cap left sealing rail C						
	33	2	Cover cap right sealing rail C						

Continued on next page

No.	Piece scheme	HS PORTAL 300 scheme A				Material number	
	A	Material description				RAL 7035 grey	RAL 9005 black
34	1	Guiding rail KH0130-01 for STT 78 mm	Size	Length (in mm)	FW (in mm)	EV 1 silver	C 34 dark bronze
			300	2900	1470 to 3000	130865	130872
			350	3400	3001 to 3500	130889	-
			400	3900	3501 to 4000	130902	130919
			450	4400	4001 to 4500	130926	-
			500	4900	4501 to 5000	130940	130957
			570	5600	5001 to 5700	130964	-
			670	6600	5701 to 6700	130988	130995
35	1	ECO PASS threshold B182	300	3000	1493 to 3000	PPBB0680-52401_	
			350	3500	3001 to 3500	PPBB0690-52401_	
			400	4000	3501 to 4000	PPBB0700-52401_	
			450	4500	4001 to 4500	PPBB0710-52401_	
			500	5000	4501 to 5000	PPBB0720-52401_	
			570	5700	5001 to 5500	PPBB0760-52401_	
			670	6700	5501 to 6700	PPBB0730-52401_	
36	1	ECO PASS running rail M/15	350	3500	1493 to 3500	PPLB5120-52401_	
			400	4000	3501 to 4000	PPLB6130-52401_	
			450	4500	4001 to 4500	PPLB5130-52401_	
			500	5000	4501 to 5000	PPLB6140-52401_	
			570	5700	5001 to 5500	PPLB6150-52401_	
			670	6700	5501 to 6700	PPLB5160-52401_	
37	1	ECO PASS support rail B182 S106	Size	Length (in mm)	SW (in mm)	PPZB5360-02101_	
			150	1500	720 to 1500	PPZB5370-02101_	
			200	2000	1501 to 2000	PPZB5380-02101_	
			250	2500	2001 to 2500	PPZB5220-02101_	
38	1	ECO PASS adapter rail H M for timber profile	350	3500	2501 to 3350	PPZB5410-02101_	
			150	1500	720 to 1500	PPZB5420-02101_	
			200	2000	1501 to 2000	PPZB5430-02101_	
			250	2500	2001 to 2500	PPZB5190-02101_	

depending on FW		1	Frame corner connection H EP B182 <i>consisting of:</i>	ECO PASS for timber elements	PMRB0160-02101_
	39	2	ECO PASS sealing part REV		
	40	2	Seal	for recess running rail REV	
	41	1	End cap, left	for ECO PASS threshold	
	42	1	End cap, right	for ECO PASS threshold	PMRB0182-02101_
		1	Sealing part MP EP H B182, left <i>consisting of:</i>	for DIN, left	
	43	1	ECO PASS sealing part MP left B182	for sealing between sliding and fixed sash	
	44	1	End seal MP	for sealing support rail and sealing block REV	
	45	1	Sealing pad H B182	on sealing block and support rail	PMRB0181-02101_
		1	Sealing part MP EP H B182, right <i>consisting of:</i>	for DIN, right	
	46	1	ECO PASS sealing part MP right B182	for sealing between sliding and fixed sash	
	44	1	End seal MP	for sealing support rail and sealing block REV	
	45	1	Sealing pad H B182	on sealing block and support rail	

Accessories
for anti-intruder elements

5	2	Locking bolt E, top TS	719152
59	-	Locking part top C TS	719466
47	1	Anti-drill guard E	721216
	1	Security interlock (C-E rail) HS <i>consisting of:</i>	PMZB0190-50001_
48	6	Security interlock (C-E rail) HS WK 2 K1	
49	25	Screw for frame part 5 x 55 mm	

for other requirements

	1	Bag stop consisting of:	PMZB0140-02101_	831922
50	1	Stop		
51	1	Countersunk tapping screw B 4.8 x 70		
52	1	Cover cap		
	1	Bag of accessories HS-H for frame corner connection consisting of:	PMZB0440-10001_	
no illus.	1	Bolt Ø 7 x 40		
no illus.	1	Clamping screw 6 x 130		
53	1/2	Centre lock CE HS PORTAL TS B1 for sealing rail C, no. 30 - 33 , mat. no.: PMZB0180-...	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm	PMZB0210-10001_
54	1/2	Centre lock CE HS PORTAL TS B1 for sealing rail C made of timber	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm	PMZB0150-10001_
55	1	Additional lock HS	Sash height 1495 to 3325 mm	PMGB0010-12401_ PMGB0010-13201_
5	1/2	Locking bolt E, top TS	for additional lock	719152

Hardware components scheme C

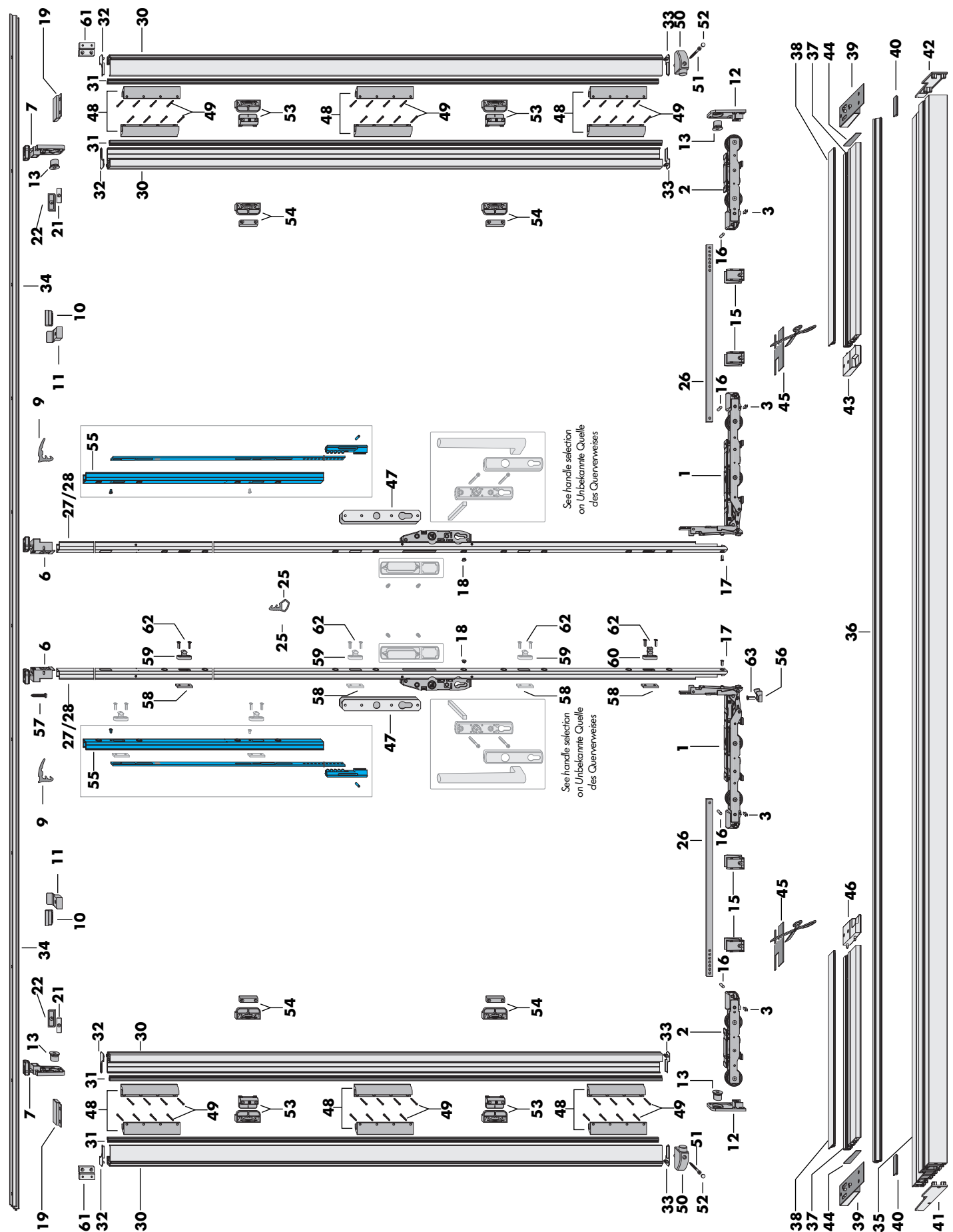


Fig. 2: Hardware diagram HS 300 scheme C

		Piece scheme	HS PORTAL 300 scheme C				Material number		
No.		C	Material description				RAL 7035 grey	RAL 9005 black	
General requirements		2	Handle SI-line HS PORTAL 300				See handle selection on Unbekannte Quelle des Querverweises		
		2	Basic carton HS 300 C TS consisting of:				PMKB0310-10001_		
	1	2	Bogie wheels V	VSU HS 300 TS		PMZB0350-02101_	PMZB0350-02301_		
	2	2	Bogie wheels H	HS 300 TS					
	3	1	Brush	Length 100 mm					
		2	Carton HS-H KH0130-01 consisting of:		for guiding rail KH0130-01				
	4	-	Locking bolt E, bottom TS		for guiding rail KH0130-01	PMZB0310-02101_	PMZB0310-02301_		
	5	-	Locking bolt E, top TS						
	6	2	Front top guide						
	7	2	Rear top guide						
	8	-	Top filling piece						
	9	2	Top seal HH0134-05						
	10	2	Locking bolt CL						
	11	2	Top locking bolt CL						
		2	Bag of accessories HS-H bottom high consisting of:					PMZB0310-02101_	PMZB0310-02301_
	12	2	Cover plate, bottom rear high					for sealing rail B made of timber	239087
	13	4	Stop						
	14	-	Bottom high filling piece						
	15	4	Bottom guide						
	16	4	Dowel pin 6 x 16						
	17	2	Countersunk screw M5 x 13						
	18	2	Bag closing cap						
			Bag closing cap		grey				
					brown				
		1	Bag of accessories HS-H consisting of:		for scheme C	PMZB0450-02101_	PMZB0450-02301_		
	56	1	Locking part G TS						
	57	1	Pan head tapping screw B6.3X38-A2						
	58	2	Threaded plate M 5						
	59	1	Locking part top C TS						
	60	1	Locking part bottom C TS						
	61	-	Stop HS 10FA		only required for sash distance 10 mm				
	62	4	Countersunk screw PZD DIN965 M5X20-A2						
	63	1	Countersunk screw PZD DIN965 M6X20-A2						
		2	Sealing elements set HS-H KH0130-01 consisting of:						
	19	2	Gasket bridge						
	20	2	Top sealing part						
	21	2	Fastening plate 10						
	22	2	Sealing element 10						
	23	-	Bag closing cap		For sealing rail B				
	24	2	Top sealing part HSK						
25	2	Seal HH0134-02		Length 17.5 m	PDPB0030-02101_	PDPB0030-09901_			
depend on SW	26	2	Connecting rod	Size	Length (in mm)	SW (in mm)	719282		
				150 TS	898	720 to 1500	719480		
				200 TS	1398	1501 to 2000	719497		
				250 TS	1898	2001 to 2500	719725		
				335 TS	2748	2501 to 3350			
depending on SH	27	2	Gear HS PORTAL 300 PZ	Size	Handle height (in mm)	SH (in mm)	EV 1 silver		
				170	410	1208 to 1775	PGKB0010-52401_		
				220	1010	1776 to 2275	PGKB0020-52401_		
			for lift and slide sashes up to 200 kg	260	1010	2276 to 2675	PGKB0030-52401_		
	28	2	Comfort gear HS PORTAL 300 PZ	Size	Handle height (in mm)	SH (in mm)	EV 1 silver		
				220	1010	1776 to 2275	PGKB4070-52401_		
			for lift and slide sashes from 200 kg	260	1010	2276 to 2675	PGKB4080-52401_		
		2	Sealing rail C	Size	Sash Distance (in mm)	SH (in mm)	RAL 7035 light grey		
			Alternative: rail C in timber version.	260	28	1208 to 2675	PMZB0180-02101_		
	30	4	Sealing rail C HS	Length 2.7 m					
	31	4	Sealing profile rail C HS	for sealing rail C					
	32	4	Cover cap left sealing rail C						
	33	4	Cover cap right sealing rail C						

Continued on next page

	No.	Piece scheme	HS PORTAL 300 scheme C					Material number	
		C	Material description					RAL 7035 grey	RAL 9005 black
depending on FW	34	1	Guiding rail KH0130-01 for STT 78 mm	Size	Length (in mm)	FW (in mm)	EV 1 silver	C 34 dark bronze	
				300	2900	1470 to 3000	130865	130872	
				350	3400	3001 to 3500	130889	-	
				400	3900	3501 to 4000	130902	130919	
				450	4400	4001 to 4500	130926	-	
				500	4900	4501 to 5000	130940	130957	
				570	5600	5001 to 5700	130964	-	
				670	6600	5701 to 6700	130988	130995	
	35	1	ECO PASS threshold B182	300	3000	1493 to 3000	PPBB0680-52401_		
				350	3500	3001 to 3500	PPBB0690-52401_		
				400	4000	3501 to 4000	PPBB0700-52401_		
				450	4500	4001 to 4500	PPBB0710-52401_		
				500	5000	4501 to 5000	PPBB0720-52401_		
				570	5700	5001 to 5500	PPBB0760-52401_		
				670	6700	5501 to 6700	PPBB0730-52401_		
	36	1	ECO PASS running rail M/15	350	3500	1493 to 3500	PPLB5120-52401_		
				400	4000	3501 to 4000	PPLB6130-52401_		
				450	4500	4001 to 4500	PPLB5130-52401_		
				500	5000	4501 to 5000	PPLB6140-52401_		
				570	5700	5001 to 5500	PPLB6150-52401_		
670				6700	5501 to 6700	PPLB5160-52401_			
37	2	ECO PASS support rail B182 S106	Size	Length (in mm)	SW (in mm)	PPZB5360-02101_			
			150	1500	720 to 1500	PPZB5370-02101_			
			200	2000	1501 to 2000	PPZB5380-02101_			
			250	2500	2001 to 2500	PPZB5220-02101_			
38	2	ECO PASS adapter rail H M for timber profile	350	3500	2501 to 3350	PPZB5410-02101_			
			150	1500	720 to 1500	PPZB5420-02101_			
			200	2000	1501 to 2000	PPZB5430-02101_			
			250	2500	2001 to 2500	PPZB5190-02101_			
depending on FW		1	Frame corner connection H EP B182 consisting of:	ECO PASS for timber elements			PMRB0160-02101_		
	39	1	ECO PASS sealing part REV						
	40	1	Seal	for recess running rail REV					
	41	1	End cap, left	for ECO PASS threshold					
	42	1	End cap, right	for ECO PASS threshold					
		1	Sealing part MP EP H B182, left consisting of:	for DIN, left			PMRB0182-02101_		
	43	1	ECO PASS sealing part MP left B182	for sealing between sliding and fixed sash					
	44	1	End seal MP	for sealing support rail and sealing block REV					
	45	1	Sealing pad H B182	on sealing block and support rail					
		1	Sealing part MP EP H B182, right consisting of:	for DIN, right			PMRB0181-02101_		
	46	1	ECO PASS sealing part MP right B182	for sealing between sliding and fixed sash					
	44	1	End seal MP	for sealing support rail and sealing block REV					
	45	1	Sealing pad H B182	on sealing block and support rail					

Accessories for anti-intruder elements

59	2	Locking part top CTS		719466
47	2	Anti-drill guard E		721216
	2	Security interlock (C-E rail) HS	Can only be used with sealing rail CPMZB0180...	PMZB0190-50001_
48	12	Security interlock (C-E rail) HS WK 2 K1		
49	50	Screw for frame part 5 x 55 mm		

for other requirements

	2	Bag stop consisting of:		PMZB0140-02101_	831922
50	2	Stop			
51	2	Countersunk tapping screw B 4.8 x 70			
52	2	Cover cap			
	1	Bag of accessories HS-H for frame corner connection consisting of:		PMZB0440-10001_	
no illus.	1	Bolt Ø 7 x 40			
no illus.	1	Clamping screw 6 x 130			
53	2/4	Centre lock CE HS PORTAL TS B1 for sealing rail C, no. 30 - 33, mat. no.: PMZB0180...	2 pieces for sash height up to 1800 mm, 4 pieces for > 1800 mm	PMZB0210-10001_	
54	2/4	Centre lock CE HS PORTAL TS B1 for sealing rail C made of timber	2 pieces for sash height up to 1800 mm, 4 pieces for > 1800 mm	PMZB0150-10001_	
55	2	Additional lock HS	Sash height 1495 to 3325 mm	PMGB0010-12401_	PMGB0010-13201_
59	2/4	Locking bolt E, top TS	for additional lock	719152	

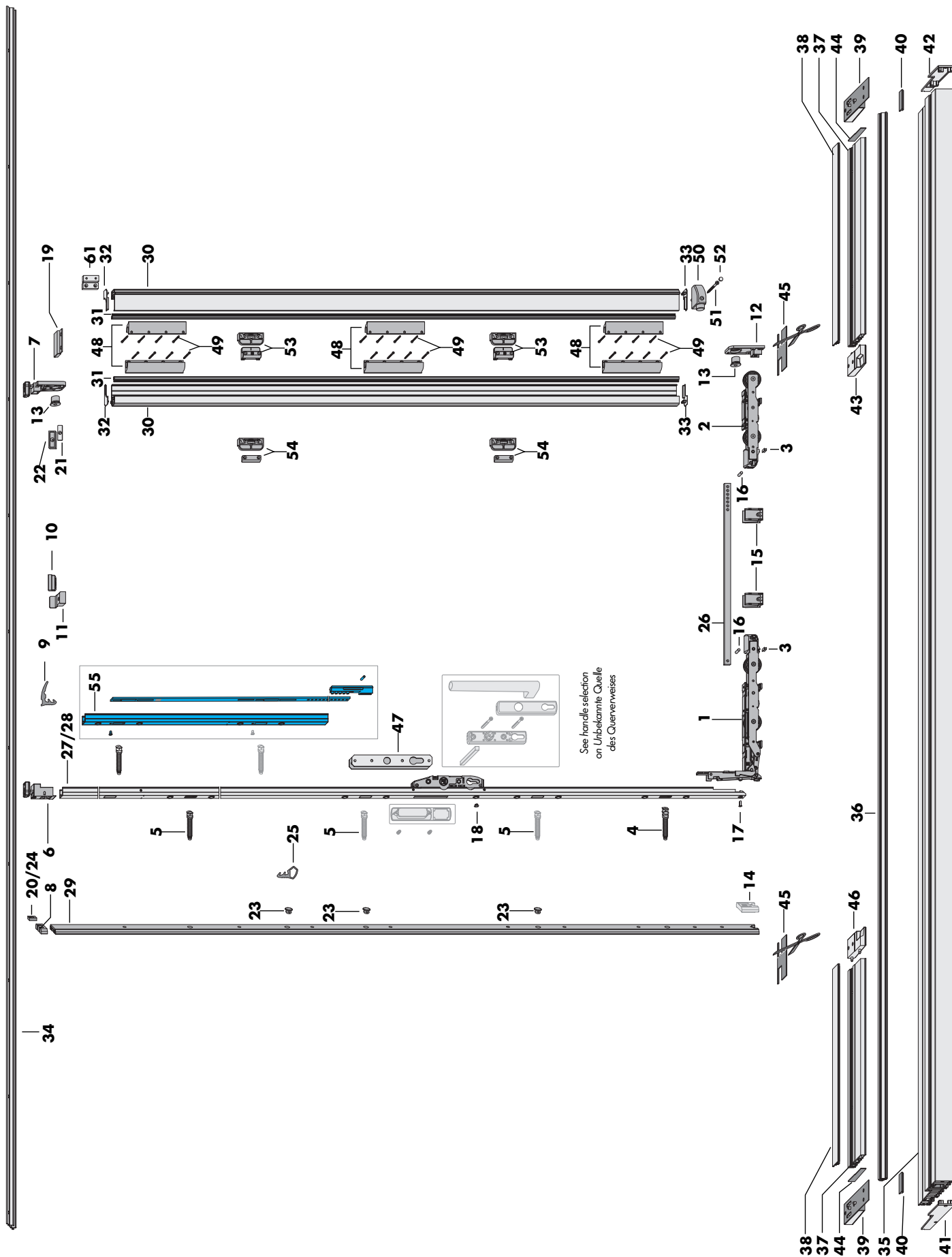


Fig. 3: Hardware diagram HS 300 scheme G 2 and G 3

	No.	Piece scheme		HS PORTAL 300 scheme G2 / G3	Material number	
		G 2	G 3		RAL 7035 grey	RAL 9005 black
General requirements		1	1	Handle Si-line HS PORTAL 300	See handle selection on Unbekannte Quelle des Querverweises	
		1	1	Basic carton HS 300 H TS consisting of:	PMKB0300-10001_	
	1	1	1	Bogie wheels V	VSU HS 300 TS	
	2	1	1	Bogie wheels H	HS 300 TS	
	3	1	1	Brush	Length 100 mm	
		1	1	Carton HS-H KH0130-01 consisting of:	for guiding rail KH0130-01	PMZB0350-02101_ PMZB0350-02301_
	4	1	1	Locking bolt E, bottom TS		
	5	1	1	Locking bolt E, top TS		
	6	1	1	Front top guide		
	7	1	1	Rear top guide		
	8	1	1	Top filling piece	for guiding rail KH0130-01	
	9	1	1	Top seal HH013405	Length 3.4 m	
	10	1	1	Locking bolt CL		
	11	1	1	Top locking bolt CL		
		1	1	Bag of accessories HS-H bottom high consisting of:		PMZB0310-02101_ PMZB0310-02301_
	12	1	1	Cover plate, bottom rear high		
	13	2	2	Stop		
	14	1	1	Bottom high filling piece		
	15	2	2	Bottom guide		
	16	2	2	Dowel pin 6 x 16		
	17	1	1	Countersunk screw M5 x 13		
	18	1	1	Bag closing cap	grey	
				Bag closing cap	brown	
		1	1	Sealing elements set HS-H KH0130-01 consisting of:		PMZB0450-02101_ PMZB0450-02301_
	19	1	1	Gasket bridge		
	20	1	1	Top sealing part		
	21	1	1	Fastening plate 10		
	22	1	1	Sealing element 10		
	23	3	3	Bag closing cap	for sealing rail B	
	24	1	1	Top sealing part HSK		
	25	1	1	Seal HH0134-02	Length 17.5 m	PDPB0030-02101_ PDPB0030-09901_
depend. on SW	26	1	1	Connecting rod	Size Length (in mm) SW (in mm) 150 TS 898 720 to 1500 200 TS 1398 1501 to 2000 250 TS 1898 2001 to 2500 335 TS 2748 2501 to 3350	719282 719480 719497 719725
depending on SH	27	1	1	Gear HS PORTAL 300 PZ	Size Handle height (in mm) SH (in mm) 170 410 1208 to 1775 220 1010 1776 to 2275 260 1010 2276 to 2675	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_
	28			Comfort gear HS PORTAL 300 PZ	Size Handle height (in mm) SH (in mm) 220 1010 1776 to 2275 260 1010 2276 to 2675	EV 1 silver PGKB4070-52401_ PGKB4080-52401_
	29	1	1	Sealing rail B Alternative: rail B in timber version.	Size SH (in mm) 260 1208 to 2675	PPDB0010-02101_ PPDB0010-02301_
		1	1	Sealing rail C Alternative: rail C in timber version.	Size Sash Distance (in mm) SH (in mm) 260 28 1208 to 2675	PMZB0180-02101_
	30	2	2	Sealing rail C HS	Length 2.7 m	
	31	2	2	Sealing profile rail C HS	for sealing rail C	
	32	2	2	Cover cap left sealing rail C		
	33	2	2	Cover cap right sealing rail C		

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	No.	Piece scheme		HS PORTAL 300 scheme G2 / G3				Material number	
		G 2	G 3	Material description				RAL 7035 grey	RAL 9005 black
depending on FW	34	1	1	Guiding rail KH0130-01 for STT 78 mm	Size	Length (in mm)	FW (in mm)	EV 1 silver 130865 130889 130902 130926 130940 130964 130988	C 34 dark bronze 130872 - 130919 - 130957 - 130995
					300	2900	1470 to 3000		
					350	3400	3001 to 3500		
					400	3900	3501 to 4000		
					450	4400	4001 to 4500		
					500	4900	4501 to 5000		
					570	5600	5001 to 5700		
	35	1	1	ECO PASS threshold B182	300	3000	1493 to 3000	PPBB0680-52401_ PPBB0690-52401_ PPBB0700-52401_ PPBB0710-52401_ PPBB0720-52401_ PPBB0760-52401_ PPBB0730-52401_	
					350	3500	3001 to 3500		
					400	4000	3501 to 4000		
					450	4500	4001 to 4500		
					500	5000	4501 to 5000		
					570	5700	5001 to 5500		
					670	6700	5501 to 6700		
	36	1	1	ECO PASS running rail M/15	350	3500	1493 to 3500	PPLB5120-52401_ PPLB6130-52401_ PPLB5130-52401_ PPLB6140-52401_ PPLB6150-52401_ PPLB5160-52401_	
					400	4000	3501 to 4000		
					450	4500	4001 to 4500		
					500	5000	4501 to 5000		
					570	5700	5001 to 5500		
					670	6700	5501 to 6700		
					37	2	2		ECO PASS support rail B182 S106
	150	1500	720 to 1500						
	200	2000	1501 to 2000						
	250	2500	2001 to 2500						
350	3500	2501 to 3350							
38	2	2	ECO PASS adapter rail H M for timber profile	150	1500	720 to 1500	PPZB5410-02101_ PPZB5420-02101_ PPZB5430-02101_ PPZB5190-02101_		
				200	2000	1501 to 2000			
				250	2500	2001 to 2500			
				350	3500	2501 to 3350			

depending on FW		1	1	Frame corner connection H EP B182 consisting of:	ECO PASS for timber elements			PMRB0160-02101_	
	39	1	1	ECO PASS sealing part REV					
	40	1	1	Seal	for recess running rail REV				
	41	1	1	End cap, left	for ECO PASS threshold				
	42	1	1	End cap, right	for ECO PASS threshold				
		1	1	Sealing part MP EP H B182, left consisting of:	for DIN, left			PMRB0182-02101_	
	43	1	1	ECO PASS sealing part MP left B182	for sealing between sliding and fixed sash				
	44	1	1	End seal MP	for sealing support rail and sealing block REV				
	45	1	1	Sealing pad H B182	on sealing block and support rail				
		1	1	Sealing part MP EP H B182, right consisting of:	for DIN, right			PMRB0181-02101_	
	46	1	1	ECO PASS sealing part MP right B182	for sealing between sliding and fixed sash				
	44	1	1	End seal MP	for sealing support rail and sealing block REV				
	45	1	1	Sealing pad H B182	on sealing block and support rail				

Accessories

for anti-intruder elements

5	2	2	Locking bolt E, top TS	719152
47	1	1	Anti-drill guard E	721216
	1	1	Security interlock (C-E rail) HS	PMZB0190-50001_
48	6	6	Security interlock (C-E rail) HS WK 2 K1	
49	25	25	Screw for frame part 5 x 55 mm	

for other requirements

	1	1	Bag stop consisting of:	PMZB0140-02101_	831922
50	1	1	Stop		
51	1	1	Countersunk tapping screw B 4.8 x 70		
52	1	1	Cover cap		
	1	1	Bag of accessories HS-H for frame corner connection consisting of:	PMZB0440-10001_	
no illus.	1	1	Bolt Ø 7 x 40		
no illus.	1	1	Clamping screw 6 x 130		
53	1/2	1/2	Centre lock CE HS PORTAL TS B1 for sealing rail C, no. 30 - 33, mat. no.: PMZB0180-...	PMZB0210-10001_	
54	1/2	1/2	Centre lock CE HS PORTAL TS B1 for sealing rail C made of timber	PMZB0150-10001_	
55	1	1	Additional lock HS	PMGB0010-12401_	PMGB0010-13201_
59	1/2	1/2	Locking bolt E, top TS	719152	

Hardware component accessories for ECO PASS threshold

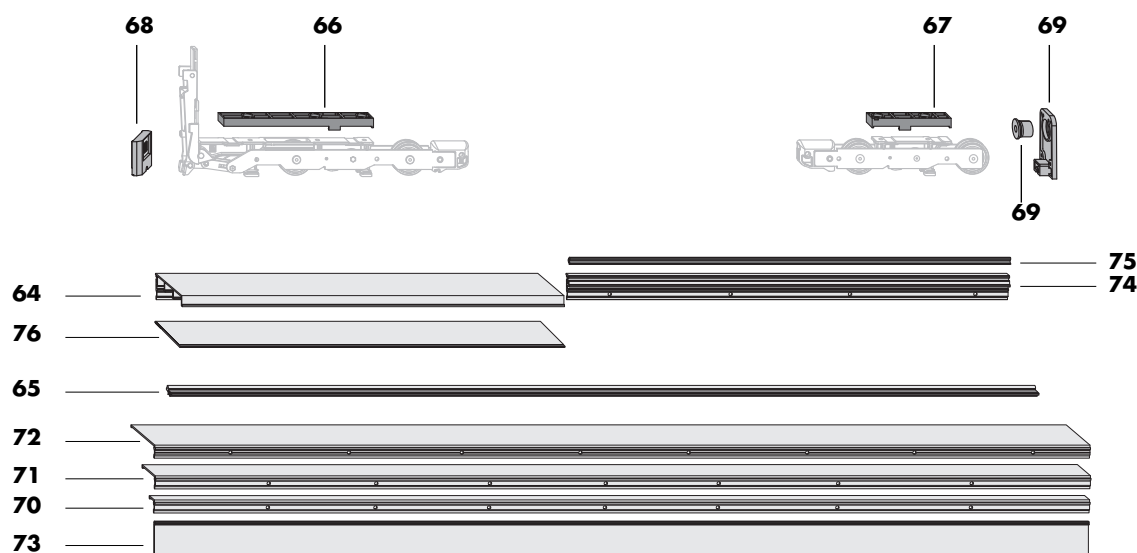


Fig. 4: Hardware diagram HS PORTAL accessories for ECO PASS threshold

No.	Piece scheme				HS PORTAL 300 Material description	Material number	
	A	C	G2	G3		RAL 7035 grey	RAL 9005 black

Accessories

for barrier-free elements

for barrier-free elements						
64	1	1	1	1	ECO PASS tread threshold B182 Size 200 2000 1493 to 4000 250 2500 4001 to 5000 350 3500 5001 to 6700	PPTB0210-52401_ PPTB0220-52401_ PPTB0090-52401_
65	1	1	1	1	ECO PASS running rail M/5 350 3500 1493 to 3500 400 4000 3501 to 4000 450 4500 4001 to 4500 500 5000 4501 to 5000 570 5700 5001 to 5500 670 6700 5501 to 6700	PPLB6030-52401_ PPLB6160-52401_ PPLB6040-52401_ PPLB6170-52401_ PPLB6180-52401_ PPLB6060-52401_
	1	1	1	1	Bag of sash parts HS barrier-free	PMZB0200-09701_
66	1	1	1	1	Distance plate, long for bogie wheels, front	
67	1	1	1	1	Distance plate, short for bogie wheels, back	
no illus.	5	5	5	5	Countersunk tapping screw B 4.8 x 45	PMZB0300-0E601_ PMZB0300-02301_
	1	1	1	1	Bag of accessories HS-H bottom low	
68	1	1	1	1	Bottom low filling piece	
69	1	1	1	1	Cover plate, bottom rear low	
13	2	2	2	2	Stop	
15	3	3	3	3	Bottom guide	
16	2	2	2	2	Dowel pin 6 x 16	
17	1	1	1	1	Countersunk screw PZD M5 x 13 A2	
18	1	1	1	1	Bag closing cap grey Bag closing cap brown	

for other requirements

Other Requirements									
70	1	1	1	1	ECO PASS weatherside profile B 20	Size	Length (in mm)	FW (in mm)	PPWB0010-52401_ PPWB0020-52401_ PPWB0030-52401_ PPWB0040-52401_ PPWB0100-52401_ PPWB0110-52401_
71					ECO PASS weatherside profile B 50	450 670	4500 6700	1493 to 4500 4501 to 6700	
72					ECO PASS weatherside profile B 90	450 670	4500 6700	1493 to 4500 4501 to 6700	
73	1	1	1	1	Sealing plate	450 670	4500 6700	1493 to 4500 4501 to 6700	PPAB0070-52401_ PPAB0080-52401_ PPZB0250-52401_
74	1	1	1	1	Carton compensation rail ¹⁾	450	4500	1493 to 6700	
75	1	1	1	1	Compensation rail				
					Seal				
76	0/1	0/1	0/1	0/1	ECO PASS flat tread threshold B171 (for anti-slip protection or to cover the joint on two-sided threshold)	Size	Length (in mm)	FW (in mm)	PPTB0240-52401_ PPTB0250-52401_ PPTB0260-52401_ PPTB0270-52401_ PPTB0280-52401_ PPTB0290-52401_ PPTB0300-52401_
						200	2000	1493 to 4000	
						250	2500	4001 to 5000	
						350	3500	5001 to 6700	
						450	4500	to 9000	
						500	5000	9001 to 10000	
						570	5700	10001 to 11400	
						670	6700	11401 to 13400	

¹⁾ required when tread threshold is used

Hardware components for elements with sash weight 300 - 400 kg

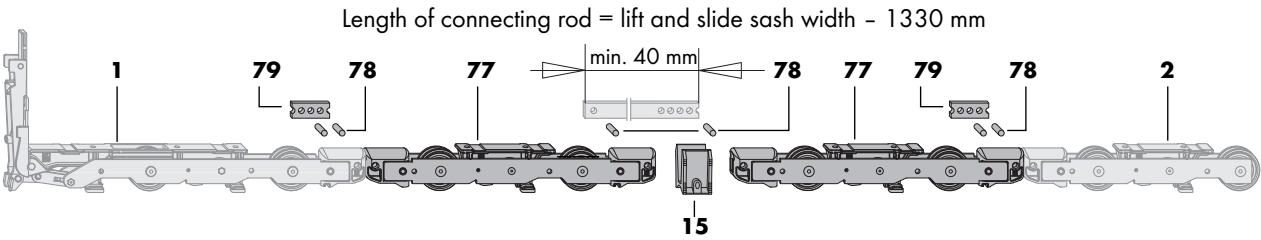


Fig. 5: Hardware diagram HS 400

For a sash weight of 300-400 kg, the connecting rod **must** be fastened to the bogie wheels with Dowel pin 6 x 16 (78).

No.	Piece scheme				HS PORTAL 400				Material number		
	A	C	G2	G3	Material description				RAL 7035 grey	RAL 9005 black	
		1	2	1	1	Additional carton HS 400 H TS consisting of:		For lift and slide sashes of 300 to 400 kg, use the following hardware components in addition to PMKB0300-10001_:		PMKB0340-10001_	
	77	2	4	2	2	Bogie wheels M		HS 300 TS			
	78	6	12	6	6	Dowel pin 6 x 16					
	79	2	4	2	2	Connecting rod		Length 40 mm			
	28	1	2	1	1	Comfort gear HS PORTAL 300 PZ (Length = SH - 115)		Size	Handle height (in mm)	SH (in mm)	EV 1 silver PGKB4070-52401_ PGKB4080-52401_

PORTAL CATALOGUE

HS 300 H ECO PASS
92/30 KH0130-01

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Technical specifications and colours are subject to change.

Size range HS PORTAL 92/30 KH0130-01

Sash width	HS 300	(mm)	720 to 3335
Sash width	HS 400	(mm)	1370 to 3335
Sash height (sliding sash)	KH 0130-01	(mm)	1190 to 2690
Frame width		(mm)	1470 to 6700
Frame height		(mm)	1308 to 2808
Sash weight	HS 300	(kg)	max. 300
Sash weight	HS 400	(kg)	max. 400
Backset (gear)		(mm)	37.5
Sash timber thickness		(mm)	92
Sash distance		HS (mm)	30
Handle height (window:	SH 1190 -1790)	(mm)	410
Handle height (door:	SH 1790 -2690)	(mm)	1010

- The **profile sections** must match the details of the following SIEGENIA-AUBI construction drawings, sash timber thickness 92 mm:

<i>H48.HS_HZS103EN</i>	<i>Sheet 4.1</i>	HS PORTAL with guiding rail KH0130-01	Scheme A
	<i>Sheet 1.2</i>	HS PORTAL	Scheme C
	<i>Sheet 1.4</i>	HS PORTAL	Scheme G2
	<i>Sheet 1.5</i>	HS PORTAL	Scheme G3
	<i>Sheet 6.1</i>	Threshold cutting dimensions	Scheme A
	<i>Sheet 6.2</i>	Threshold cutting dimensions	Scheme A
- With a sash weight of 200 kg or more, we recommend using Comfort gear HS PORTAL 300 PZ – PGKB4070-52401_ or PGKB4080-52401_
- With a sash weight of 300 kg or more, the use of Comfort gear HS PORTAL 300 PZ – PGKB4070-52401_ or PGKB4080-52401_ is required.
- For HS 300 with a sash weight of 300 – 400 kg, the connecting rod must be fastened to the bogie wheels with Dowel pin 6 x 16 (**78**).
- We recommend the use of stainless steel screws for the mounting of components to the ECO PASS threshold.
- The threshold must be shimmed at intervals of 300 mm to be pressure-tight and sound-absorbing.
- We recommend using the following elastic adhesives and sealants: e.g. from OTTO Chemie - OTTOCOLL® HiTack or from Collano Adhesives AG - Collano® A 1970 or equivalent.

Hardware components scheme A

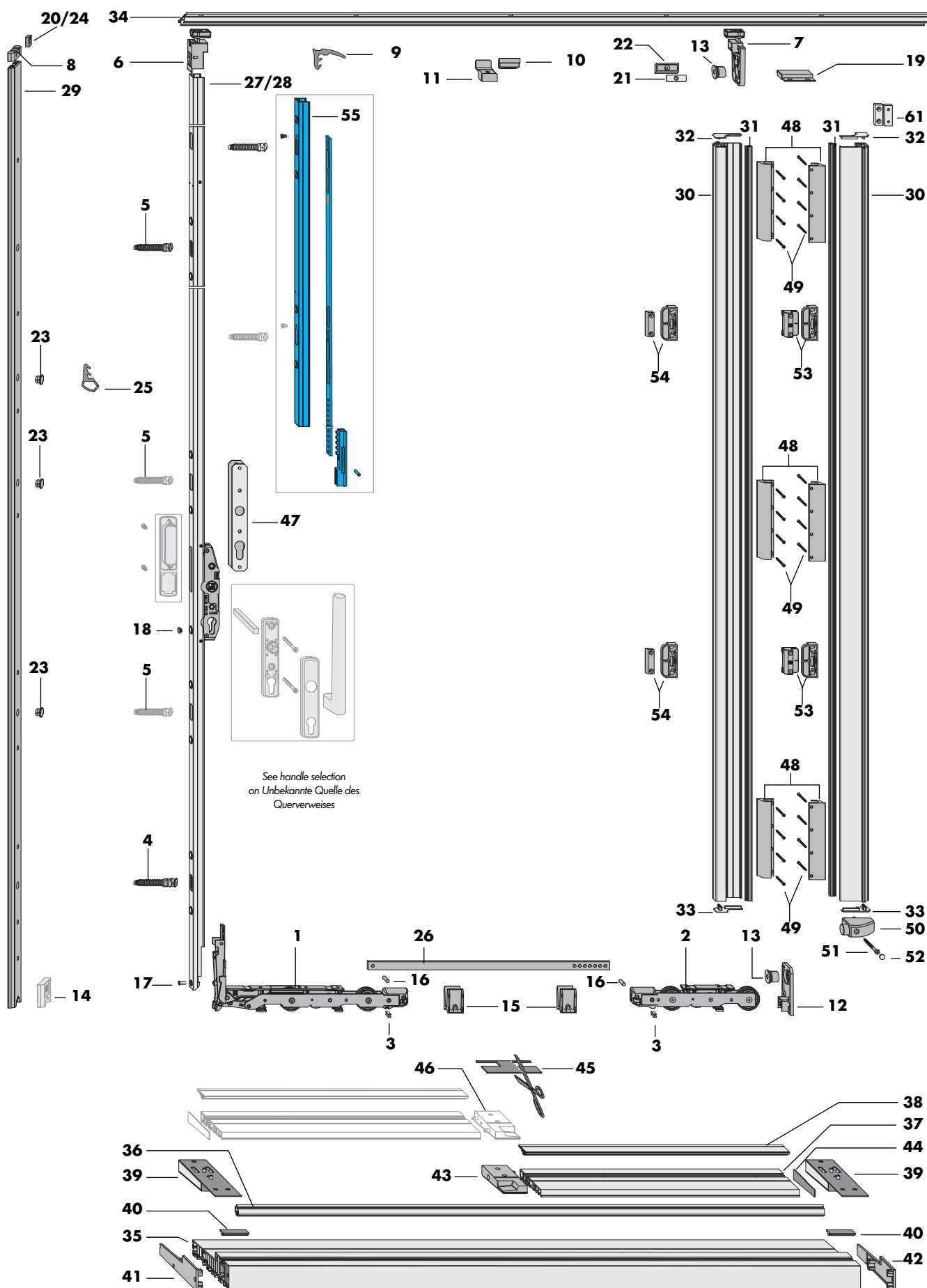


Fig. 1: Hardware diagram HS 300 scheme A

	No.	Piece scheme A	HS PORTAL 300 scheme A Material description				Material number RAL 7035 grey		RAL 9005 black		
General requirements		1	Handle Si-line HS PORTAL 300				See handle selection on Unbekannte Quelle des Querverweises				
		1	Basic carton HS 300 TS consisting of:				PMKB0300-10001_				
	1	1	Bogie wheels V	VSU HS 300 TS		PMZB0350-02101_	PMZB0350-02301_				
	2	1	Bogie wheels H	HS 300 TS							
	3	1	Brush	Length 100 mm							
		1	Carton HS-H KH0130-01 consisting of:								
	4	1	Locking bolt E, bottom TS	for guiding rail KH0130-01		PMZB0310-02101_	PMZB0310-02301_				
	5	1	Locking bolt E, top TS								
	6	1	Front top guide								
	7	1	Rear top guide								
	8	1	Top filling piece								
	9	1	Top seal HH0134-05	Length 3.4 m							
	10	1	Locking bolt CL								
	11	1	Top locking bolt CL								
		1	Bag of accessories HS-H bottom high consisting of:								
	12	1	Cover plate, bottom rear high	for sealing rail B made of timber					PMZB0450-02101_	PMZB0450-02301_	
	13	2	Stop								
	14	1	Bottom high filling piece								
	15	2	Bottom guide								
	16	2	Dowel pin 6 x 16								
	17	1	Countersunk screw M5 x 13								
	18	1	Bag closing cap								
		1	Bag closing cap								
		1	Sealing elements set HS-H KH0130-01 consisting of:				PMZB0450-02101_	PMZB0450-02301_			
	19	1	Gasket bridge	for sealing rail B							
20	1	Top sealing part									
21	1	Fastening plate 10									
22	1	Sealing element 10									
23	3	Bag closing cap									
24	1	Top sealing part HSK									
25	1	Seal HH0134-02	Length 17.5 m		PDPB0030-02101_	PDPB0030-09901_					
depend. on SW	26	1	Connecting rod	Size	Length (in mm)	SW (in mm)	719282				
				150 TS	898	720 to 1500	719480				
				200 TS	1398	1501 to 2000	719497				
				250 TS	1898	2001 to 2500	719725				
				335 TS	2748	2501 to 3350					
depending on SH	27	1	Gear HS PORTAL 300 PZ	Size	Handle height (in mm)	SH (in mm)	EV 1 silver				
				170	410	1208 to 1775	PGKB0010-52401_				
				220	1010	1776 to 2275	PGKB0020-52401_				
			for lift and slide sashes up to 200 kg	260	1010	2276 to 2675	PGKB0030-52401_				
	28		Comfort gear HS PORTAL 300 PZ	Size	Handle height (in mm)	SH (in mm)	EV 1 silver				
				220	1010	1776 to 2275	PGKB4070-52401_				
			for lift and slide sashes from 200 kg	260	1010	2276 to 2675	PGKB4080-52401_				
	29	1	Sealing rail B Alternative: rail B in timber version.	Size	SH (in mm)		PPDB0010-02101_	PPDB0010-02301_			
				260	1208 to 2675						
		1	Sealing rail C Alternative: rail C in timber version.	Size	Sash distance (in mm)	SH (in mm)	PMZB0180-02101_				
				260	28	1208 to 2675					
30	2	Sealing rail C HS	Length 2.7 m								
31	2	Sealing profile rail C HS	for sealing rail C								
32	2	Cover cap left sealing rail C									
33	2	Cover cap right sealing rail C									

Continued on next page

No.	Piece scheme	HS PORTAL 300 scheme A				Material number	
	A	Material description				RAL 7035 grey	RAL 9005 black
34	1	Guiding rail KH0130-01 for STT 92 mm	Size	Length (in mm)	FW (in mm)	EV 1 silver	C 34 dark bronze
			300	2900	1470 to 3000	130865	130872
			350	3400	3001 to 3500	130889	-
			400	3900	3501 to 4000	130902	130919
			450	4400	4001 to 4500	130926	-
			500	4900	4501 to 5000	130940	130957
			570	5600	5001 to 5700	130964	-
			670	6600	5701 to 6700	130988	130995
35	1	ECO PASS threshold B203	300	3000	1493 to 3000	PPBB0500-52401_	
			350	3500	3001 to 3500	PPBB0510-52401_	
			400	4000	3501 to 4000	PPBB0520-52401_	
			450	4500	4001 to 4500	PPBB0530-52401_	
			500	5000	4501 to 5000	PPBB0550-52401_	
			570	5700	5001 to 5500	PPBB0770-52401_	
			670	6700	5501 to 6700	PPBB0560-52401_	
36	1	ECO PASS running rail M/15	350	3500	1493 to 3500	PPLB5120-52401_	
			400	4000	3501 to 4000	PPLB6130-52401_	
			450	4500	4001 to 4500	PPLB5130-52401_	
			500	5000	4501 to 5000	PPLB6140-52401_	
			570	5700	5001 to 5500	PPLB6150-52401_	
			670	6700	5501 to 6700	PPLB5160-52401_	
37	1	ECO PASS support rail S117	Size	Length (in mm)	SW (in mm)	PPZB5300-02101_	
			150	1500	720 to 1500	PPZB5310-02101_	
			200	2000	1501 to 2000	PPZB5320-02101_	
			250	2500	2001 to 2500	PPZB5020-02101_	
38	1	ECO PASS adapter rail H 5 for timber profile	350	3500	2501 to 3350	PPZB5480-02101_	
			150	1500	720 to 1500	PPZB5390-02101_	
			200	2000	1501 to 2000	PPZB5400-02101_	
			250	2500	2001 to 2500	PPZB5160-02101_	

depending on FW		1	Frame corner connection H EP B203	ECO PASS for timber elements	PMRB0170-02101_
	39	2	consisting of:		
	40	2	ECO PASS sealing part REV		
	41	1	Seal	for recess running rail REV	
	42	1	End cap, left	for ECO PASS threshold	PMRB0222-02101_
			End cap, right	for ECO PASS threshold	
		1	Sealing part MP EP H B203, left	for DIN, left	
			consisting of:		
	43	1	ECO PASS sealing part MP left B203	for sealing between sliding and fixed sash	
	44	1	End seal MP	for sealing support rail and sealing block REV	
	45	1	Sealing pad H B203	on sealing block and support rail	
		1	Sealing part MP EP H B203, right	for DIN, right	PMRB0221-02101_
			consisting of:		
	46	1	ECO PASS sealing part MP right B203	for sealing between sliding and fixed sash	
	44	1	End seal MP	for sealing support rail and sealing block REV	
	45	1	Sealing pad H B203	on sealing block and support rail	

Accessories
for anti-intruder elements

5	2	Locking bolt E, top TS	719152
59	-	Locking part top C TS	719466
47	1	Anti-drill guard E	
	1	Security interlock (C-E rail) HS	PMZB0190-50001_
		consisting of:	
48	6	Security interlock (C-E rail) HS WK 2 K1	
49	25	Screw for frame part 5 x 55 mm	

for other requirements

	1	Bag stop consisting of:	PMZB0140-02101_	831922
50	1	Stop		
51	1	Countersunk tapping screw B 4.8 x 70		
52	1	Cover cap		
	1	Bag of accessories HS-H for frame corner connection consisting of:	PMZB0440-10001_	
no illus.	1	Bolt Ø 7 x 40		
no illus.	1	Clamping screw 6 x 130		
53	1/2	Centre lock CE HS PORTAL TS B1 for sealing rail C, no. 30 - 33 , mat. no.: PMZB0180-...	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm	PMZB0210-10001_
54	1/2	Centre lock CE HS PORTAL TS B1 for sealing rail C made of timber	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm	PMZB0150-10001_
55	1	Additional lock HS	Sash height 1495 to 3325 mm	PMGB0010-12401_ PMGB0010-13201_
5	1/2	Locking bolt E, top TS	for additional lock	719152

Hardware components scheme C

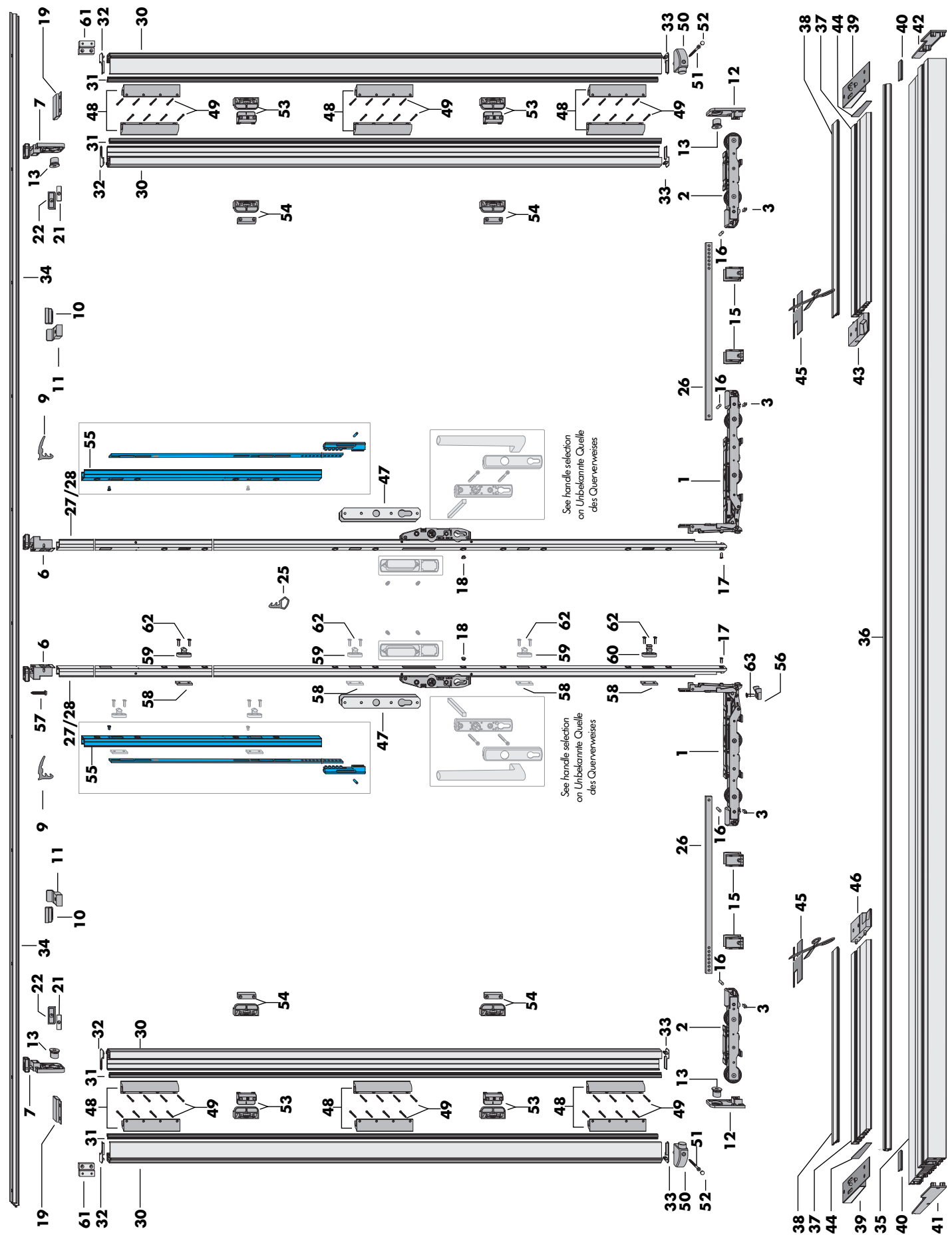


Fig. 2: Hardware diagram HS 300 scheme C

	No.	Piece scheme	HS PORTAL 300 scheme C				Material number	
		C	Material description				RAL 7035 grey	RAL 9005 black
General requirements		2	Handle Si-line HS PORTAL 300				See handle selection on Unbekannte Quelle des Querverweises	
		2	Basic carton HS 300 C TS consisting of:				PMKB0310-10001_	
	1	2	Bogie wheels V	VSU HS 300 TS		PMZB0350-02101_	PMZB0350-02301_	
	2	2	Bogie wheels H	HS 300 TS				
	3	1	Brush	Length 100 mm				
		2	Carton HS-H KH0130-01 consisting of:		for guiding rail KH0130-01			
	4	-	Locking bolt E, bottom TS		PMZB0310-02101_			PMZB0310-02301_
	5	-	Locking bolt E, top TS					
	6	2	Front top guide					
	7	2	Rear top guide					
	8	-	Top filling piece	for guiding rail KH0130-01				
	9	2	Top seal HH0134-05 Length 3.4 m					
	10	2	Locking bolt CL					
	11	2	Top locking bolt CL					
		2	Bag of accessories HS-H bottom high consisting of:			PMZB0310-02101_	PMZB0310-02301_	
	12	2	Cover plate, bottom rear high			239087		
	13	4	Stop					
	14	-	Bottom high filling piece for sealing rail B made of timber					
	15	4	Bottom guide					
	16	4	Dowel pin 6 x 16					
	17	2	Countersunk screw M5 x 13					
	18	2	Bag closing cap	grey				
			Bag closing cap	brown				
		1	Bag of accessories HS-H consisting of:		for scheme C			
	56	1	Locking part G TS					
	57	1	Pan head tapping screw B6.3X38-A2					
	58	2	Threaded plate M 5					
	59	1	Locking part top C TS					
	60	1	Locking part bottom C TS					
	61	-	Stop HS 10FA only required for sash distance 10 mm					
	62	4	Countersunk screw PZD DIN965 M5X20-A2					
	63	1	Countersunk screw PZD DIN965 M6X20-A2					
		2	Sealing elements set HS-H KH0130-01 consisting of:		PMZB0450-02101_	PMZB0450-02301_		
	19	2	Gasket bridge					
	20	-	Top sealing part					
	21	2	Fastening plate 10					
	22	2	Sealing element 10					
	23	-	Bag closing cap	for sealing rail B				
	24	-	Top sealing part HSK					
	25	2	Seal HH0134-02 Length 17.5 m		PDPB0030-02101_	PDPB0030-09901_		
depend on SW	26	2	Connecting rod		Size	Length (in mm)	SW (in mm)	719282 719480 719497 719725
			150 TS	898	720 to	1500		
			200 TS	1398	1501 to	2000		
			250 TS	1898	2001 to	2500		
			335 TS	2748	2501 to	3350		
depending on SH	27	2	Gear HS PORTAL 300 PZ		Size	Handle height (in mm)	SH (in mm)	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_
			170	410	1208 to	1775		
			220	1010	1776 to	2275		
			260	1010	2276 to	2675		
	28	2	Comfort gear HS PORTAL 300 PZ		Size	Handle height (in mm)	SH (in mm)	EV 1 silver PGKB4070-52401_ PGKB4080-52401_
			220	1010	1776 to	2275		
			260	1010	2276 to	2675		
		2	Sealing rail C Alternative: rail C in timber version.		Size	Sash distance (in mm)	SH (in mm)	RAL 7035 light grey PMZB0180-02101_
	30	4	Sealing rail C HS		Length 2.7 m			
	31	4	Sealing profile rail C HS		for sealing rail C			
	32	4	Cover cap left sealing rail C					
	33	4	Cover cap right sealing rail C					

Continued on next page

	No.	Piece scheme	HS PORTAL 300 scheme C					Material number		
		C	Material description					RAL 7035 grey	RAL 9005 black	
depending on FW	34	1	Guiding rail KH0130-01 for STT 92 mm	Size	Length (in mm)	FW (in mm)		EV 1 silver	C 34 dark bronze	
				300	2900	1470	to	3000	130865	130872
				350	3400	3001	to	3500	130889	-
				400	3900	3501	to	4000	130902	130919
				450	4400	4001	to	4500	130926	-
				500	4900	4501	to	5000	130940	130957
				570	5600	5001	to	5700	130964	-
	35	1	ECO PASS threshold B203	670	6600	5701	to	6700	130988	130995
				300	3000	1493	to	3000	PPBB0500-52401_	
				350	3500	3001	to	3500	PPBB0510-52401_	
				400	4000	3501	to	4000	PPBB0520-52401_	
				450	4500	4001	to	4500	PPBB0530-52401_	
				500	5000	4501	to	5000	PPBB0550-52401_	
				570	5700	5001	to	5500	PPBB0770-52401_	
	36	1	ECO PASS running rail M/15	670	6700	5501	to	6700	PPBB0560-52401_	
				350	3500	1493	to	3500	PPLB5120-52401_	
				400	4000	3501	to	4000	PPLB6130-52401_	
				450	4500	4001	to	4500	PPLB5130-52401_	
				500	5000	4501	to	5000	PPLB6140-52401_	
				570	5700	5001	to	5500	PPLB6150-52401_	
				670	6700	5501	to	6700	PPLB5160-52401_	
	37	2	ECO PASS support rail S117	Size	Length (in mm)	SW (in mm)				
				150	1500	720	to	1500	PPZB5300-02101_	
				200	2000	1501	to	2000	PPZB5310-02101_	
				250	2500	2001	to	2500	PPZB5320-02101_	
	38	2	ECO PASS adapter rail H 5 for timber profile	350	3500	2501	to	3350	PPZB5020-02101_	
				150	1500	720	to	1500	PPZB5480-02101_	
				200	2000	1501	to	2000	PPZB5390-02101_	
				250	2500	2001	to	2500	PPZB5400-02101_	
depending on FW		1	Frame corner connection H EP B203 consisting of:	ECO PASS for timber elements				PMRB0170-02101_		
	39	1	ECO PASS sealing part REV							
	40	1	Seal	for recess running rail REV						
	41	1	End cap, left	for ECO PASS threshold						
	42	1	End cap, right	for ECO PASS threshold						
		1	Sealing part MP EP H B203, left consisting of:	for DIN, left				PMRB0222-02101_		
	43	1	ECO PASS sealing part MP left B203	for sealing between sliding and fixed sash						
	44	1	End seal MP	for sealing support rail and sealing block REV						
	45	1	Sealing pad H B203	on sealing block and support rail						
		1	Sealing part MP EP H B203, right consisting of:	for DIN, right				PMRB0221-02101_		
	46	1	ECO PASS sealing part MP right B203	for sealing between sliding and fixed sash						
	44	1	End seal MP	for sealing support rail and sealing block REV						
	45	1	Sealing pad H B203	on sealing block and support rail						

Accessories

for anti-intruder elements

59	2	Locking part top CTS		719466
47	2	Anti-drill guard E		
	2	Security interlock (C-E rail) HS	Can only be used with sealing rail CPMZB0180...	PMZB0190-50001_
48	12	Security interlock (C-E rail) HS WK 2 K1		
49	50	Screw for frame part 5 x 55 mm		

for other requirements

	2	Bag stop consisting of:		PMZB0140-02101_	831922
50	2	Stop			
51	2	Countersunk tapping screw B 4.8 x 70			
52	2	Cover cap			
	1	Bag of accessories HS-H for frame corner connection consisting of:		PMZB0440-10001_	
no illus.	1	Bolt Ø 7 x 40			
no illus.	1	Clamping screw 6 x 130			
53	2/4	HS PORTAL centre lock CE TS B1 for sealing rail C, no. 30 - 33, mat. no.: PMZB0180...	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm	PMZB0210-10001_	
54	2/4	HS PORTAL centre lock CE TS B1 for sealing rail C made of timber	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm	PMZB0150-10001_	
55	2	Additional lock HS	Sash height 1495 to 3325 mm	PMGB0010-12401_	PMGB0010-13201_
59	2/4	Locking bolt E, top TS	for additional lock	719152	

Hardware components scheme G2 / G3

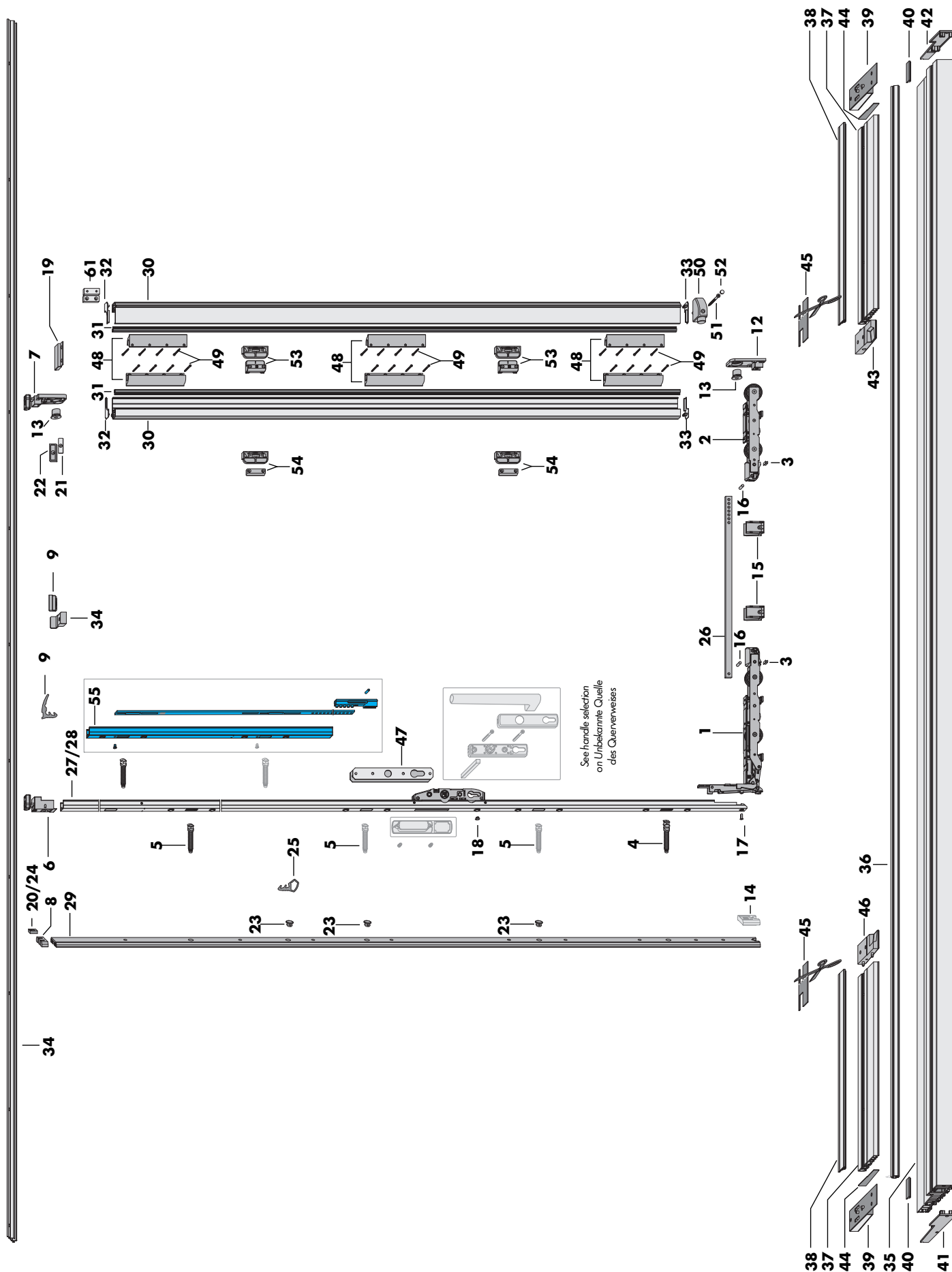


Fig. 3: Hardware diagram HS 300 scheme G 2 and G 3

	No.	Piece scheme		HS PORTAL 300 scheme G2 / G3	Material number	
		G 2	G 3		RAL 7035 grey	RAL 9005 black
General requirements		1	1	Handle Si-line HS PORTAL 300	See handle selection on Unbekannte Quelle des Querverweises	
		1	1	Basic carton HS 300 H TS consisting of:	PMKB0300-10001_	
	1	1	1	Bogie wheels V	VSU HS 300 TS	
	2	1	1	Bogie wheels H	HS 300 TS	
	3	1	1	Brush	Length 100 mm	
		1	1	Carton HS-H KH0130-01 consisting of:	for guiding rail KH0130-01	PMZB0350-02101_ PMZB0350-02301_
	4	1	1	Locking bolt E, bottom TS		
	5	1	1	Locking bolt E, top TS		
	6	1	1	Front top guide		
	7	1	1	Rear top guide		
	8	1	1	Top filling piece	for guiding rail KH0130-01	
	9	1	1	Top seal HH013405	Length 3.4 m	
	10	1	1	Locking bolt CL		
	11	1	1	Top locking bolt CL		
		1	1	Bag of accessories HS-H bottom high consisting of:		PMZB0310-02101_ PMZB0310-02301_
	12	1	1	Cover plate, bottom rear high		
	13	2	2	Stop		
	14	1	1	Bottom high filling piece		
	15	2	2	Bottom guide		
	16	2	2	Dowel pin 6 x 16		
	17	1	1	Countersunk screw M5 x 13		
	18	1	1	Bag closing cap	grey	
				Bag closing cap	brown	
		1	1	Sealing elements set HS-H KH0130-01 consisting of:		PMZB0450-02101_ PMZB0450-02301_
	19	1	1	Gasket bridge		
	20	1	1	Top sealing part		
	21	1	1	Fastening plate 10		
	22	1	1	Sealing element 10		
	23	3	3	Bag closing cap	for sealing rail B	
	24	1	1	Top sealing part HSK		
	25	1	1	Seal HH0134-02	Length 17.5 m	PDPB0030-02101_ PDPB0030-09901_
depend. on SW	26	1	1	Connecting rod	Size Length (in mm) SW (in mm) 150 TS 898 720 to 1500 200 TS 1398 1501 to 2000 250 TS 1898 2001 to 2500 335 TS 2748 2501 to 3350	719282 719480 719497 719725
depending on SH	27	1	1	Gear HS PORTAL 300 PZ	Size Handle height (in mm) SH (in mm) 170 410 1208 to 1775 220 1010 1776 to 2275 260 1010 2276 to 2675	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_
	28			Comfort gear HS PORTAL 300 PZ	Size Handle height (in mm) SH (in mm) 220 1010 1776 to 2275 260 1010 2276 to 2675	EV 1 silver PGKB4070-52401_ PGKB4080-52401_
	29	1	1	Sealing rail B Alternative: rail B in timber version.	Size SH (in mm) 260 1208 to 2675	PPDB0010-02101_ PPDB0010-02301_
		1	1	Sealing rail C Alternative: rail C in timber version.	Size Sash distance (in mm) SH (in mm) 260 28 1208 to 2675	PMZB0180-02101_
	30	2	2	Sealing rail C HS	Length 2.7 m	
	31	2	2	Sealing profile rail C HS	for sealing rail C	
	32	2	2	Cover cap left sealing rail C		
	33	2	2	Cover cap right sealing rail C		

Continued on next page

	No.	Piece scheme		HS PORTAL 300 scheme G2 / G3					Material number	
		G 2	G 3	Material description					RAL 7035 grey	RAL 9005 black
depending on FW	34	1	1	Guiding rail KH0130-01 for STT 92 mm	Size	Length (in mm)	FW (in mm)	EV 1 silver 130865 130889 130902 130926 130940 130964 130988	C 34 dark bronze 130872 - 130919 - 130957 - 130995	
					300	2900	1470 to 3000			
					350	3400	3001 to 3500			
					400	3900	3501 to 4000			
					450	4400	4001 to 4500			
					500	4900	4501 to 5000			
					570	5600	5001 to 5700			
	35	1	1	ECO PASS threshold B203	300	3000	1493 to 3000	PPBB0500-52401_ PPBB0510-52401_ PPBB0520-52401_ PPBB0530-52401_ PPBB0550-52401_ PPBB0770-52401_ PPBB0560-52401_		
					350	3500	3001 to 3500			
					400	4000	3501 to 4000			
					450	4500	4001 to 4500			
					500	5000	4501 to 5000			
					570	5700	5001 to 5500			
					670	6700	5501 to 6700			
	36	1	1	ECO PASS running rail M/15	350	3500	1493 to 3500	PPLB5120-52401_ PPLB6130-52401_ PPLB5130-52401_ PPLB6140-52401_ PPLB6150-52401_ PPLB5160-52401_		
					400	4000	3501 to 4000			
					450	4500	4001 to 4500			
					500	5000	4501 to 5000			
					570	5700	5001 to 5500			
					670	6700	5501 to 6700			
					37	2	2			ECO PASS support rail S117
	150	1500	720 to 1500							
	200	2000	1501 to 2000							
	250	2500	2001 to 2500							
350	3500	2501 to 3350								
38	2	2	ECO PASS adapter rail H 5 for timber profile	150	1500	720 to 1500	PPZB5480-02101_ PPZB5390-02101_ PPZB5400-02101_ PPZB5160-02101_			
				200	2000	1501 to 2000				
				250	2500	2001 to 2500				
				350	3500	2501 to 3350				

depending on FW		1	1	Frame corner connection H EP B203 consisting of:	ECO PASS for timber elements			PMRB0170-02101_	
	39	1	1	ECO PASS sealing part REV					
	40	1	1	Seal	for recess running rail REV				
	41	1	1	End cap, left	for ECO PASS threshold				
	42	1	1	End cap, right	for ECO PASS threshold				
		1	1	Sealing part MP EP H B203, left consisting of:	for DIN, left			PMRB0222-02101_	
	43	1	1	ECO PASS sealing part MP left B203	for sealing between sliding and fixed sash				
	44	1	1	End seal MP	for sealing support rail and sealing block REV				
	45	1	1	Sealing pad H B203	on sealing block and support rail				
		1	1	Sealing part MP EP H B203, right consisting of:	for DIN, right			PMRB0221-02101_	
	46	1	1	ECO PASS sealing part MP right B203	for sealing between sliding and fixed sash				
	44	1	1	End seal MP	for sealing support rail and sealing block REV				
	45	1	1	Sealing pad H B203	on sealing block and support rail				

Accessories

for anti-intruder elements

5	2	2	Locking bolt E, top TS	719152
47	1	1	Anti-drill guard E	
	1	1	Security interlock (C-E rail) HS	Can only be used with sealing rail CPMZB0180-...
48	6	6	Security interlock (C-E rail) HS WK 2 K1	PMZB0190-50001_
49	25	25	Screw for frame part 5 x 55 mm	

for other requirements

	1	1	Bag stop consisting of:	PMZB0140-02101_	831922
50	1	1	Stop		
51	1	1	Countersunk tapping screw B 4.8 x 70		
52	1	1	Cover cap		
	1	1	Bag of accessories HS-H for frame corner connection consisting of:	PMZB0440-10001_	
no illus.	1	1	Bolt Ø 7 x 40		
no illus.	1	1	Clamping screw 6 x 130		
53	1/2	1/2	HS PORTAL centre lock CE TS B1 for sealing rail C, no. 30 - 33, mat. no.: PMZB0180-...	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm PMZB0210-10001_	
54	1/2	1/2	HS PORTAL centre lock CE TS B1 for sealing rail C made of timber	1 piece for sash height up to 1800 mm, 2 pieces for > 1800 mm PMZB0150-10001_	
55	1	1	Additional lock HS	Sash height 1495 to 3325 mm	PMGB0010-12401_ PMGB0010-13201_
59	1/2	1/2	Locking bolt E, top TS	for additional lock	719152

Hardware component accessories for ECO PASS threshold

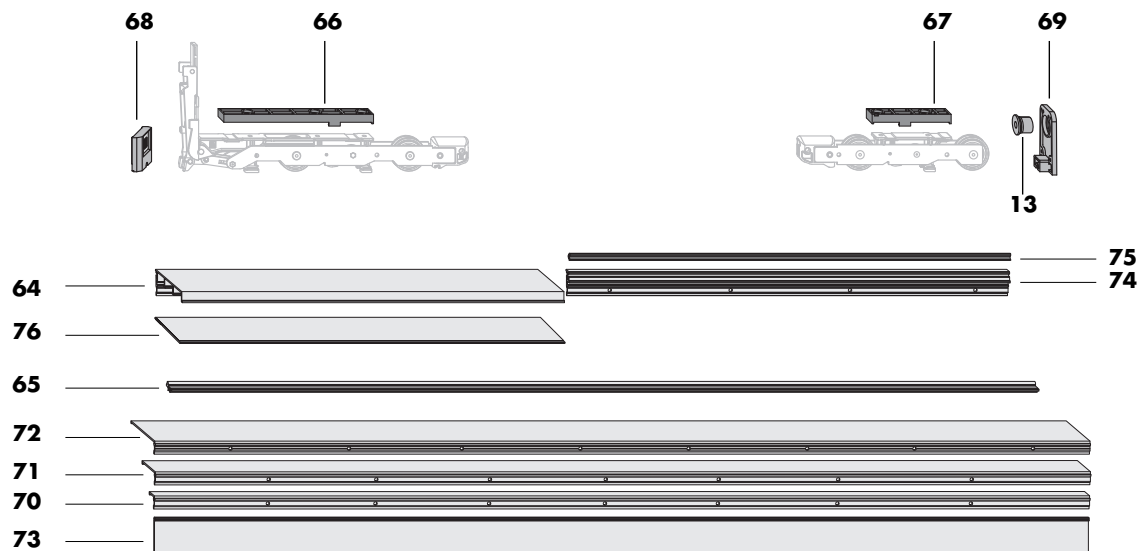


Fig. 4: Hardware diagram HS-PORTAL accessories for ECO PASS threshold

No.	Piece scheme				HS PORTAL 300 Material description	Material number	
	A	C	G2	G3		RAL 7035 grey	RAL 9005 black

Accessories

for barrier-free elements

Barrier-free elements					ECO PASS tread threshold B203				Size	Length (in mm)	FW (in mm)		
64	1	1	1	1	200	2000	1493 to 4000	PPTB0150-52401_					
					250	2500	4001 to 5000	PPTB0160-52401_					
					350	3500	5001 to 6700	PPTB0020-52401_					
65	1	1	1	1	ECO PASS running rail M/5		350	3500	1493 to 3500	PPLB6030-52401_			
					400	4000	3501 to 4000	PPLB6160-52401_					
					450	4500	4001 to 4500	PPLB6040-52401_					
					500	5000	4501 to 5000	PPLB6170-52401_					
					570	5700	5001 to 5500	PPLB6180-52401_					
					670	6700	5501 to 6700	PPLB6060-52401_					
	1	1	1	1	Bag of sash parts HS barrier-free						PMZB0200-09701_		
66	1	1	1	1	Distance plate, long	for bogie wheels, front							
67	1	1	1	1	Distance plate, short	for bogie wheels, back							
no illus.	5	5	5	5	Countersunk tapping screw B 4.8 x 45								
	1	1	1	1	Bag of accessories HS-H bottom low						PMZB0300-0E601_		
68	1	1	1	1	Filling piece, bottom low								
69	1	1	1	1	Cover plate, bottom rear low								
13	2	2	2	2	Stop								
15	3	3	3	3	Bottom guide								
16	2	2	2	2	Dowel pin 6 x 16								
17	1	1	1	1	Countersunk screw PZD M5 x 13 A2								
18	1	1	1	1	Bag closing cap						grey		
					Bag closing cap						brown		

for other requirements

70	1	1	1	1	ECO PASS weatherside profile B 20	Size	Length (in mm)	FW (in mm)	PPWB0010-52401_ PPWB0020-52401_
					450	4500	1493 to 4500		
					670	6700	4501 to 6700		
71	1	1	1	1	ECO PASS weatherside profile B 50	450	4500	1493 to 4500	PPWB0030-52401_ PPWB0040-52401_
					670	6700	4501 to 6700		
72					ECO PASS weatherside profile B 90	450	4500	1493 to 4500	PPWB0100-52401_ PPWB0110-52401_
					670	6700	4501 to 6700		
73	1	1	1	1	Sealing plate	450	4500	1493 to 4500	PPAB0070-52401_ PPAB0080-52401_
					670	6700	4501 to 6700		
	1	1	1	1	Carton compensation rail ¹⁾	450	4500	1493 to 6700	PPZB0250-52401_
74	1	1	1	1	Compensation rail				
75	1	1	1	1	Seal				
76	0/1	0/1	0/1	0/1	ECO PASS flat tread threshold B171	Size	Length (in mm)	FW (in mm)	PPTB0240-52401_ PPTB0250-52401_ PPTB0260-52401_ PPTB0270-52401_ PPTB0280-52401_ PPTB0290-52401_ PPTB0300-52401_
					200	2000	1493 to 4000		
					250	2500	4001 to 5000		
					350	3500	5001 to 6700		
					450	4500	9001 to 9000		
					500	5000	9001 to 10000		
					570	5700	10001 to 11400		
					670	6700	11401 to 13400		

¹⁾ required when tread threshold is used

Hardware components for elements with sash weight 300 - 400 kg

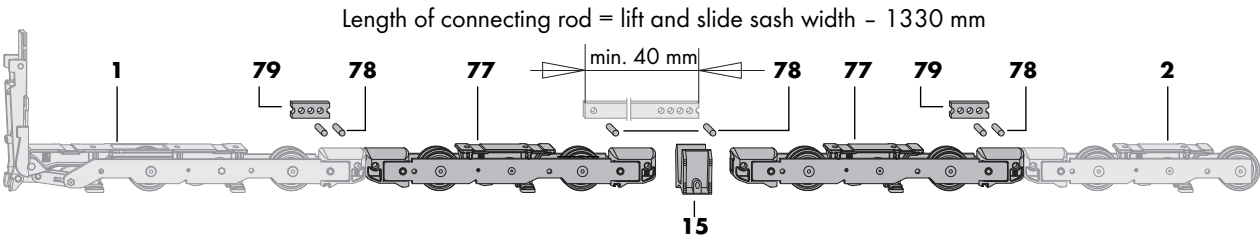


Fig. 5: Hardware diagram HS 400

For a sash weight of 300 – 400 kg, the connecting rod **must** be fastened to the bogie wheels with Dowel pin 6 x 16 (**78**).

No.	Piece scheme				HS PORTAL 400				Material number		
	A	C	G2	G3	Material description				RAL 7035 grey	RAL 9005 black	
	1	2	1	1	Additional carton HS 400 H TS consisting of:		For the lift and slide sash of 300 to 400 kg, use the following hardware components in addition to PMKB0300-10001_:			PMKB0340-10001_	
77	2	4	2	2	Bogie wheels M		HS 300 TS				
78	6	12	6	6	Dowel pin 6 x 16						
79	2	4	2	2	Connecting rod		Length 40 mm				
28	1	2	1	1	Comfort gear HS PORTAL 300 PZ (Length = SH - 115)		Size	Handle height (in mm)	SH (in mm)	EV 1 silver	
							220	1010	1776 to 2275	PGKB4070-52401_	PGKB4070-52401_
							260	1010	2276 to 2675	PGKB4080-52401_	PGKB4080-52401_

PORTAL CATALOGUE

HS PVC/ALU ELEMENTS

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Technical specifications and colours are subject to change.

3.1 Aluplast HST 4000

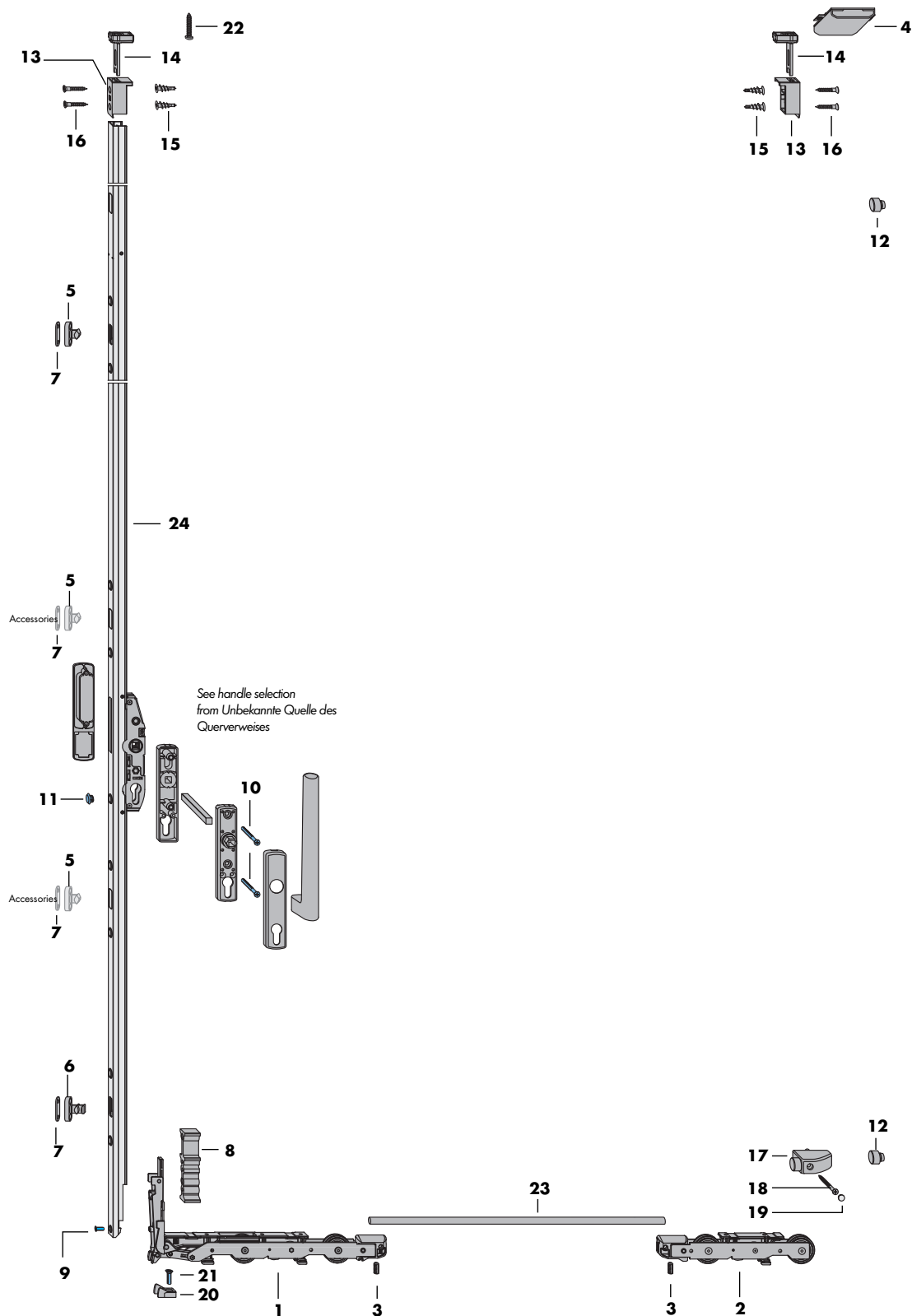


Fig. 1: HS PORTAL 300 KF with Aluplast HST 4000 profile

3.1.1 Aluplast HST 4000 size range

Aluplast HST 4000				
Sash width	(mm)	750	to	3322
Sash height (sliding sash)	(mm)	1192	to	2692
Frame width	(mm)	for scheme A: max. 6700		
Frame height	(mm)	1319.5	to	2819.5
Sash weight	(kg)	max. 300		
Backset (profile)	(mm)	38.5		
Handle height (window: 1192 to 1792)	(mm)	406.5		
Handle height (door: 1793 to 2692)	(mm)	1006.5		

3.1.2 List of hardware for HS PORTAL 300 KF with Aluplast HST 4000 profile

Pieces with scheme					Material description	Material number		
No.	A	D	C	F		white	EV 1 silver	C 34 dark bronze
General requirements	1	2	2	4	Carton handle Si-line HS PORTAL 300	See handle selection from Unbekannte Quelle des Querverweises		
	1	2	2	4	Carton HS PORTAL 300 KF A0022 Aluplast HST 4000 TS consisting of:	PMKB4280-10001_		
	1	1	2	4	VSU corner drive	A0146		
	2	1	2	4	Bogie wheels	A0146		
	3	4	8	16	Stud M 8 x 16	for connecting rod		
	4	1	1 ¹⁾	3 ¹⁾	Gasket bridge	A0017		
		1	2	3 ¹⁾	Bag of locking parts HS-KF	A0202		
	5	1	2	3 ¹⁾	Locking part, top	A0020		
	6	1	2	3 ¹⁾	Locking part, bottom	A0020		
	7	2	4	6 ¹⁾	Packer	2 mm		
	4	8	1 ¹⁾	8 ¹⁾	Countersunk tapping screw B 4.8 x 32			
		1	2	4	Bag of sash parts HS-300 KF	A0022 Aluplast HST 4000		
	8	1	2	4	Distance block	A0006		
	9	1	2	4	Countersunk screw M 5 x 13			
	10	2	4	8	Countersunk screw M 5 x 75			
	11	1	2	4	Bag closing cap	grey		
		1	2	4	Bag closing cap	brown		
	12	2	1 ¹⁾	4	Stop			
	13	2	4	8	Front top guide			
	14	2	4	8	Guiding plate			
	15	4	8	16	Special dowels			
	16	4	8	16	Clamping screw 4.5 x 45			
	9	18	18	36	Countersunk tapping screw B 4.8 x 60			
	1	2	2	4	Countersunk tapping screw B 4.8 x 50			
	1	2	2	4	Countersunk tapping screw B 4.8 x 38			
	5	10	10	20	Countersunk tapping screw B 4.8 x 32			
	2	4	4	8	Countersunk tapping screw B 3.5 x 19			
		1	1	2	Stop bag			
					consisting of:			
	17	-	1	2	Stop			
	18	-	1	2	Countersunk tapping screw B 4.8 x 70			
	19	-	1	2	Cover cap			
	4	-	-	1	Gasket bridge A0017			
		-	-	1	Bag of locking parts HS Scheme G			
					consisting of:			
	20	-	-	1	Bottom locking part, scheme G			
	21	-	-	1	Countersunk screw M 6 x 20			
	22	-	-	1	Pan head tapping screw B 6.3 x 38			

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	No.	Pieces with scheme				Material description	Material number		
		A	D	C	F		white	EV 1 silver	C 34 dark bronze
depending on SW	23	1	2	2	4	Connecting rod Ø 10 mm (Length = SW - 715) Size Length (in mm) SW (in mm) 130 1015 770 to 1600 200 1670 1601 to 2400 335 2750 2401 to 3334	714768 PVSE0060-10001_ PVSE0050-10001_		
depending on SH	24	1	2	2	4	HS PORTAL 300 gear PZ (Length = SH - 122) Size Handle height (in mm) SH (in mm) 170 406.5 1192 to 1792 220 1006.5 1793 to 2292 260 1006.5 2292 to 2692	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_	C 34 dark bronze PGKB0010-53201_ PGKB0020-53201_ PGKB0030-53201_
Accessories									
	5	0..2	0..4	-	0..2	Locking part, top A0020	719305		
	7	0..2	0..4	-	0..2	Packer HS 2 mm	721292		
No illus.	0..4	0..8	-	0..8		Countersunk tapping screw 4.8 x 32	840603		

¹⁾ Actual requirement; additional parts are included in the scope of delivery.

3.2 Aluplast HST 85

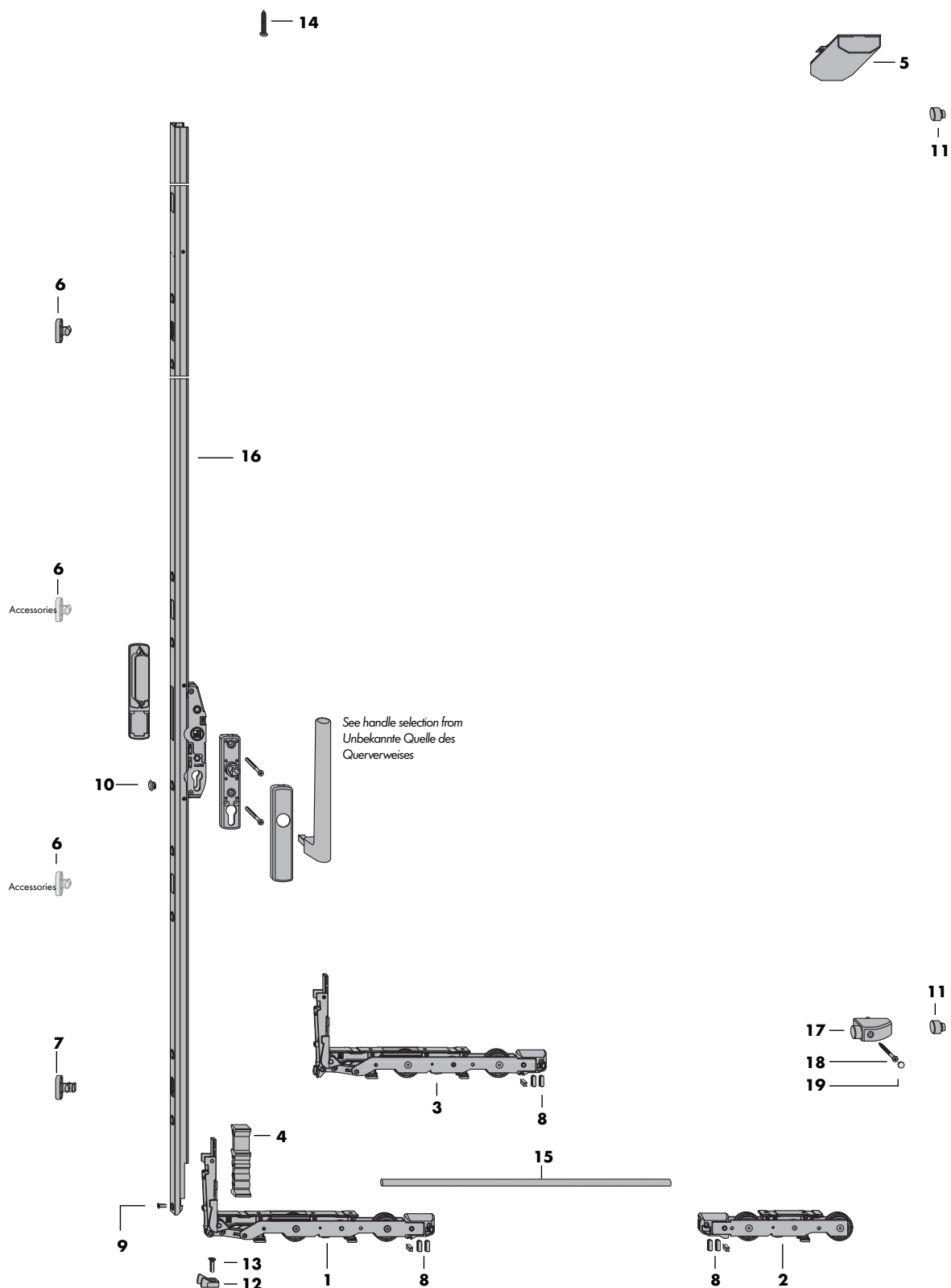


Fig. 2: HS PORTAL 300 KF with Aluplast HST 85 profile

3.2.1 Aluplast HST 85 size range

Aluplast HST 85				
Sash width	(mm)	742	to	3102
Sash height (sliding sash)	(mm)	1099	to	2599
Frame width	(mm)	for scheme A: max. 6700		
Frame height	(mm)	1225	to	2725
Sash weight	(kg)	max. 300		
Backset (profile)	(mm)	38.5		
Handle height (window: 1192 to 1792)	(mm)	408		
Handle height (door: 1793 to 2692)	(mm)	1008		

3.2.2 List of hardware for HS PORTAL 300 KF with Aluplast HST 85 profile

	No.	Pieces with scheme		Material description	Material number		
		A	C		white	EV 1 silver	C 34 dark bronze
General requirements		1	2	Carton handle Si-line HS PORTAL 300	See handle selection from Unbekannte Quelle des Querverweises		
		1	1	Carton HS300 consisting of:	PMKB0300-10001_		
	1	1	1	Corner drive VSU HS 300 KF			
	2	1	1	Bogie wheels HS 300			
		-	1	Carton HS300 C consisting of:	PMKB0310-10001_		
	3	-	1	Corner drive VSU HS 300			
	2	-	1	Bogie wheels HS 300			
		1	-	Carton of accessories HSKF A ALUPLAST HST 85 consisting of:	PMZB4190-10001_		
		-	1	Carton of accessories HS KF C ALUPLAST HST 85 consisting of:	PMZB4200-10001_		
	4	1	2	Distance block, bottom A0015			
	5	1	2	Gasket bridge 62/15			
				in the bag			
	6	1	1	Locking part, top A0006			
	7	1	1	Locking part, bottom A0006			
		4	_ 1)	Countersunk tapping screw PH B 4.8 x 45 DIN 7982			
depending on SW	8	4	8	in the bag: Grub screw M 8 x 16			
	9	1	2	in the bag: Countersunk screw M 5 x 13			
	10	1	2	Bag closing cap grey			
		1	2	Bag closing cap brown			
	11	2	4	Stop			
		9	18	Countersunk tapping screw B 4.8 x 65 for gear			
		5	10	Countersunk tapping screw B 4.8 x 32 for corner drive and bogie wheels			
		1	2	Countersunk tapping screw B 4.8 x 50 for vertical corner drive			
		1	2	Countersunk tapping screw B 4.8 x 38 for bottom distance block			
		2	4	Countersunk tapping screw B 3.5 x 19 for gasket bridge			
depending on SH		-	1	Bag of locking parts HS			
	12	-	1	Bottom locking part, scheme G for scheme C			
	13	-	1	Countersunk screw M 6 x 20			
	14	-	1	Pan head tapping screw B 6.3 x 38			
depending on SW	15	1	2	Connecting rod Ø 10 mm (Length = SW - 715)	714768		
				Size Length (in mm) SW (in mm)	PVSE0060-10001_		
				130 1015 742 to 1600	PVSE0050-10001_		
				200 1670 1601 to 2400			
depending on SH	16	1	2	HS PORTAL 300 gear PZ (Length = SH - 122)			
				Size Handle height (in mm) SH (in mm)	EV 1 silver	EV 1 silver	C 34 dark bronze
				170 406.5 1099 to 1699	PGKB0010-52401_	PGKB0010-52401_	PGKB0010-53201_
				220 1006.5 1700 to 2199	PGKB0020-52401_	PGKB0020-52401_	PGKB0020-53201_
depending on SH				260 1006.5 2200 to 2599	PGKB0030-52401_	PGKB0030-52401_	PGKB0030-53201_

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	No.	Pieces with scheme		Material description	Material number		
		A	C		white	EV 1 silver	C 34 dark bronze
Accessories							
	6	0..2	–	Locking part, top A0006	719213		
	No illus.	0..4	–	Countersunk tapping screw 4.8 x 32	840603		
		–	1	Stop bag consisting of:	RAL 9003 white 821237	RAL 7035 grey PMZB0140-02101_	RAL 9005 black 831922
	17	–	1	Stop			
	18	–	1	Countersunk tapping screw B 4.8 x 70			
	19	–	1	Cover cap			

¹⁾ Actual requirement; additional parts are included in the scope of delivery.

3.3 Deceuninck Monorail

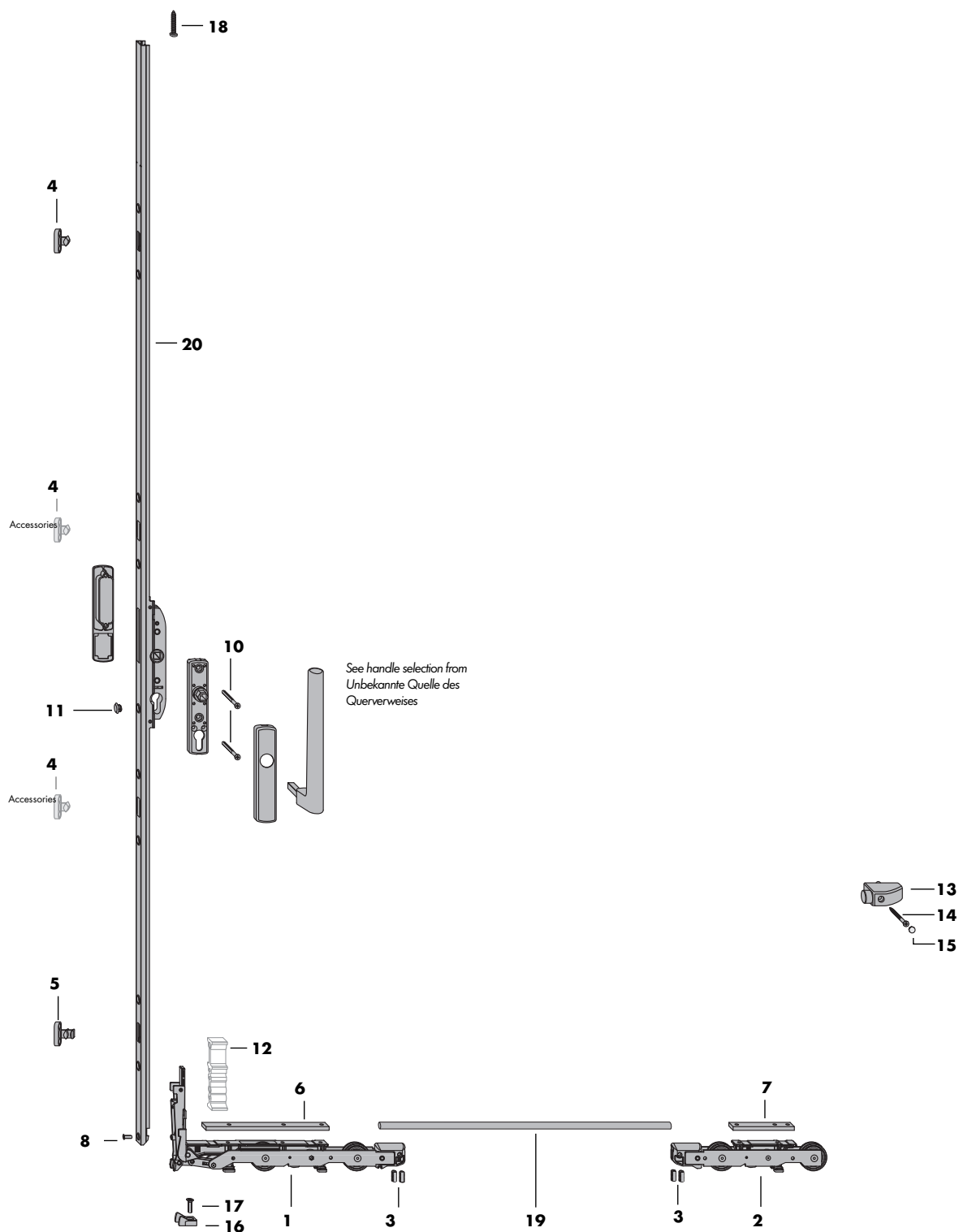


Fig. 3: HS PORTAL 300 KF with Deceuninck Monorail profile

3.3.1 Deceuninck Monorail size range

Deceuninck Monorail				
Sash width	(mm)	760	to	3350
Sash height (sliding sash)	(mm)	1796	to	2296
Frame width	(mm)	for scheme A: max. 6700		
Frame height	(mm)	1916	to	2416
Sash weight	(kg)	max. 300		
Backset (profile)	(mm)	41.5		
Handle height	(mm)	1010		

3.3.2 List of hardware for HS PORTAL 300 KF with Deceuninck Monorail profile

	No.	Pieces with scheme		Material description	Material number		
		A	C		RAL 9003 white	silver	RAL 8022 brown
General requirements		1	2	Carton handle Si-line HS-300	See handle selection from Unbekannte Quelle des Querverweises		
		1	2	Carton HS PORTAL 300 KF consisting of:	PMKB4180-10001_		
	1	1	2	VSU corner drive			
	2	1	2	Bogie wheels			
	3	4	8	Stud M 8 x 16 for connecting rod			
		1	2	Bag of locking parts HS-KF			
	4	1	2	Locking part, top A0012			
	5	1	2	Locking part, bottom A0012			
		4	8	Countersunk tapping screw B 4.8 x 25			
		1	2	Bag of accessories			
	6	1	2	Distance plate, corner drive A0216			
	7	1	2	Distance plate, bogie wheels A0216			
	8	1	2	Countersunk screw M 5 x 13			
	9	2	4	Countersunk screw M 5 x 75			
	10	1	2	Bag closing cap grey			
	11	1	1 ¹⁾	Gasket bridge A0251			
		1	2	Bag of screws			
	no illus.	7	14	Countersunk tapping screw B 4.8 x 50			
	no illus.	8	16	Countersunk tapping screw B 4.8 x 38			
		12	0..1	0..2	Distance block, bottom A0008 only with steel reinforcement 3411 in profile 3410 front vertical	863282	
		0..1	0..2	Stop bag consisting of:	RAL 9003 white 821237	RAL 7035 grey PMZB0140-02101_	RAL 9005 black 831922
13	0..1	0..2	Stop				
14	0..1	0..2	Countersunk tapping screw B 4.8 x 70				
15	0..1	0..2	Cover cap				
	-		1	Bag of locking parts HS consisting of:	238691		
16	-		1	Locking part, bottom Scheme G			
17	-		1	Countersunk screw M 6 x 20			
18	-		1	Pan head tapping screw W 6.3 x 38			
depending on SW	19	1	2	Connecting rod Ø 10 mm (Length = SW - 680) Size Length (in mm) SW (in mm) 130 1015 770 to 1600 200 1670 1601 to 2400 335 2750 2401 to 3334	714768 PVSE0060-10001_ PVSE0050-10001_		
depending on SH	20	1	2	HS PORTAL 200 gear PZ A0251 (Length = SH - 84) Size Handle height (in mm) SH (in mm) 220 1010 1796to2296	PGKB4000-52401_	PGKB4000-52401_	PGKB4000-52401_

¹⁾ Actual requirement; additional parts are included in the scope of delivery

3.4 Gealan S8000 with ECO PASS threshold

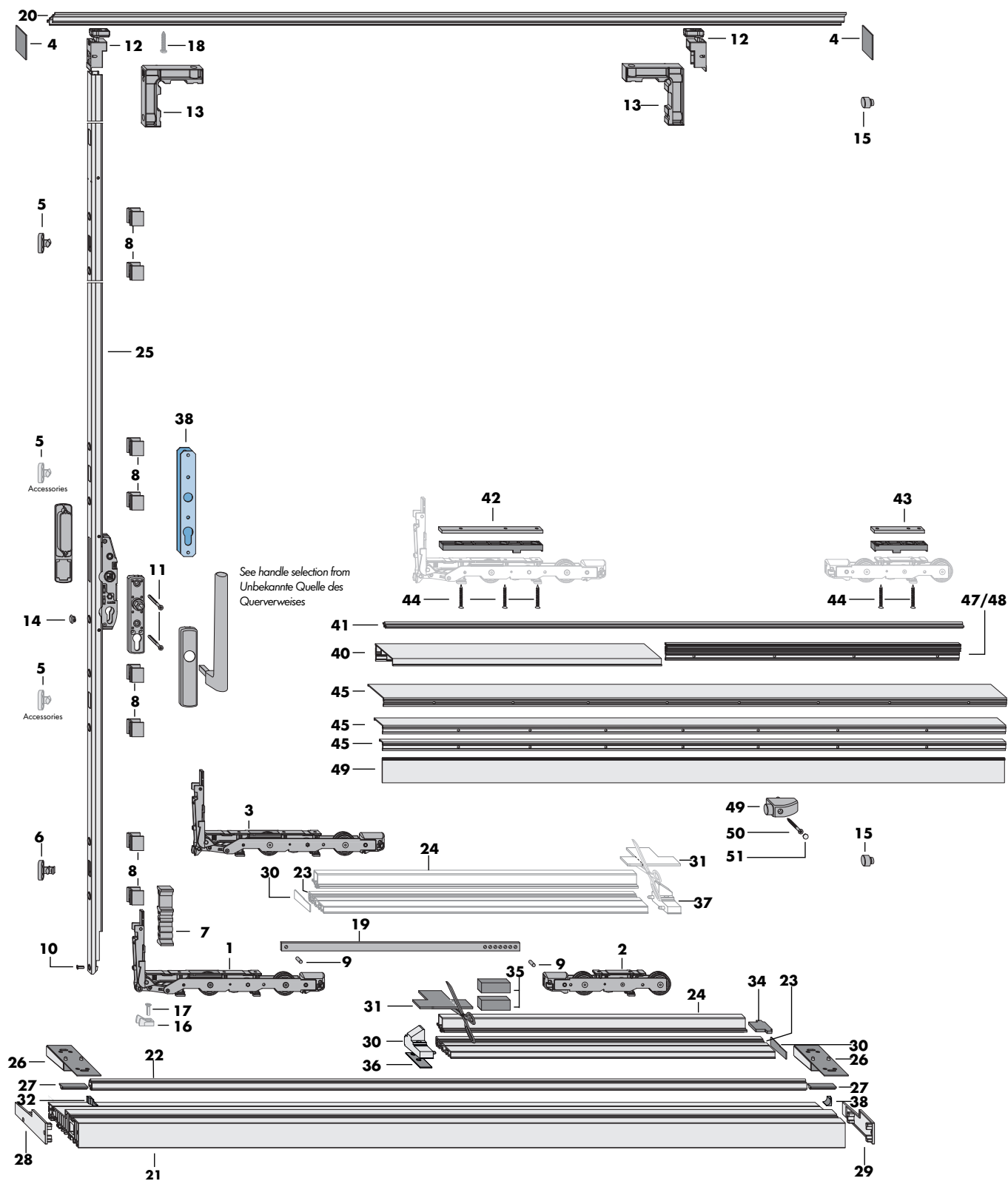


Fig. 4: HS PORTAL 300 KF with Gealan S8000 profile with ECO PASS threshold

3.4.1 Gealan S8000 with ECO PASS threshold size range

Gealan S 8000			
Sash width	(mm)	770	to 3350
Sash height (sliding sash)	(mm)	1185	to 2685
Frame width	(mm)	for scheme A: max. 6713	
Frame height	(mm)	1300	to 2800
Sash weight	(kg)	max. 300	
Backset (profile)	(mm)	41.5	
Handle height (window: 1125 to 1725)	(mm)	408.5	
Handle height (door: 1726 to 2625)	(mm)	1008.5	

3.4.2 List of hardware for HS PORTAL 300 KF with Gealan S8000 profile with ECO PASS threshold

	No.	Pieces with scheme		Material description	Material number		
		A	C		RAL 9003 white	EV 1 silver	
General requirements	1	2		Carton handle S-line HS PORTAL 300	See handle selection from Unbekannte Quelle des Querverweises		
	1	-		Carton HS PORTAL 300 KF Gealan TS scheme A consisting of:	PMKB4390-10001_		
	-	1		Carton HS PORTAL 300 KF Gealan TS scheme C consisting of:	PMKB4400-10001_		
	1	1	1	Corner drive VSU HS 300 TS			
	2	1	2	Bogie wheels HS 300 TS			
	3	-	1	Corner drive VSU HS 300 TS for scheme C			
	4	2	2	Sealing element, self adhesive (only on vertical frame, top)			
	5	1	2	Locking part, top A0001 for scheme A and C			
	6	1	2	Locking part, bottom A0001 for scheme A and C			
	4	8		Countersunk tapping screw B 4.8 x 32 for locking parts with scheme A			
	7	1	2	Distance block, bottom A0006			
	8	8	16	Distance piece, short A0006			
	9	2	4	Dowel pin 6 x 16			
	10	1	2	Countersunk screw M 5 x 13			
	11	2	4	Countersunk screw M 5 x 80			
	12	2	4	Front top guide KH 0130-01			
	13	2	4	Distance angle			
	14	1	2	Bag closing cap grey			
	15	2	4	Stop brown			
depending on SW	8	16		Countersunk tapping screw B 4.8 x 70			
	1	2		Countersunk tapping screw B 4.8 x 60			
	1	2		Countersunk tapping screw B 4.8 x 50			
	7	14		Countersunk tapping screw B 4.8 x 38			
	5	10		Countersunk tapping screw B 4.8 x 32			
depending on FW	16	-	1	Locking part G for scheme C 2nd sash			
	17	-	1	Countersunk screw M 6 x 20			
	18	-	1	Pan head tapping screw W 6.3 x 38			
	19	1	2	Connecting rod (Length = SW - 730)	Size	Length (in mm)	SW (in mm)
					150	898	770 to 1630
depending on FW	20	1	1	Guiding rail KH0130-01	Size	Length (in mm)	FW (in mm)
					300	2900	1493 to 3000
					350	3400	3001 to 3500
					400	3900	3501 to 4000
					450	4400	4001 to 4500
					500	4900	4501 to 5000
					570	5700	5001 to 5700
					670	6600	5701 to 6700
	21	1	1	ECO PASS threshold B171	Size	Length (in mm)	FW (in mm)
					300	3000	1493 to 3000
					350	3500	3001 to 3500
					400	4000	3501 to 4000
					450	4500	4001 to 4500
					500	5000	4501 to 5000
					570	5700	5001 to 5700
					670	6700	5701 to 6700

Continued on next page

	No.	Pieces with scheme		Material description	Material number		
		A	C		RAL 9003 white	EV 1 silver	
depending on FW	22	1	1	ECO PASS running rail M/15	Size	Length (in mm)	FW (in mm)
					350	3500	1493 to 3500
					400	4000	3501 to 4000
					450	4500	4001 to 4500
					500	5000	4501 to 5000
					570	5700	5001 to 5700
					670	6700	5701 to 6700
	23	1	2	ECO PASS support rail S96	150	1500	1493 to 3000
					200	2000	3001 to 4000
					250	2500	4001 to 5000
					350	3500	5001 to 6700
	24	1	2	ECO PASS adapter rail for Gealan S 8000 profile	150	1500	1493 to 3000
					200	2000	3001 to 4000
					250	2500	4001 to 5000
					350	3500	5001 to 6700
depending on SH/FW	25	1	2	HS PORTAL 300 gear PZ (Length = SH - 115)	Size	Handle height (in mm)	SH (in mm)
					170	408.5	1185 to 1785
					220	1008.5	1786 to 2285
					260	1008.5	2286 to 2685
		1	1	Frame corner connection consisting of:	ECO PASS for Gealan		
	26	2	2	ECO PASS sealing part REV	PMRB0110-02101_		
	27	2	2	Seal			
	28	1	1	End cap, left			
	29	1	1	End cap, right			
		0/1 ¹⁾	1	Sealing part MP left consisting of:	PMRB0132-02103_		
	30	1	1	ECO PASS sealing part MP, left			
	31	1	1	Gealan sealing pad			
	32	1	1	Gealan left corner seal			
	33	1	1	End seal MP			
	34	1	1	Gealan sealing pad 1			
	35	2	2	Gealan sealing pad F			
	36	2	2	Seal MP B171	PMRB0131-02103_		
		0/1 ²⁾	1	Sealing part MP, right consisting of:			
	37	1	1	ECO PASS sealing part MP, right			
	31	1	1	Gealan sealing pad			
	38	1	1	Gealan right corner seal			
	33	1	1	End seal MP			
	34	1	1	Gealan sealing pad 1			
	35	2	2	Gealan sealing pad F			
	36	2	2	Seal MP B171			

Accessories

for anti-intruder elements

5	2	2	Locking part, top	A0001	719190
39	1	2	Anti-drill guard E		721216
No illus.	4	4	Countersunk tapping screw 4.8 x 32		840603

for barrier-free elements

	40	1	1	ECO PASS tread threshold B171	Size	Length (in mm)	FW (in mm)	PPTB0180-52401_ PPTB0190-52401_ PPTB0040-52401_
					200	2000	1493 to 4000	
					250	2500	4001 to 5000	
					350	3500	5001 to 6700	
				ECO PASS running rail M/5	350	3500	1493 to 3500	
					400	4000	3501 to 4000	
	41	1	1		450	4500	4001 to 4500	PPLB6030-52401_ PPLB6160-52401_ PPLB6040-52401_ PPLB6170-52401_ PPLB6180-52401_ PPLB6060-52401_
					500	5000	4501 to 5000	
					570	5700	5001 to 5500	
					670	6700	5501 to 6700	
				Bag of sash parts HS barrier-free				PMZB0200-09701_
				42	1	2	Distance plate, long	
				43	1	2	Distance plate, short	
				44	5	10	Countersunk tapping screw B 4.8 x 45	

Continued on next page

	No.	Pieces with scheme		Material description	Material number				
		A	C		RAL 9003 white	EV 1 silver			
for other requirements									
45	1	1	ECO PASS weatherside profile B 20	Size 450 670	Length (in mm) 4500 6700	FW (in mm) 1493 to 4500 4501 to 6700	PPWB0010-52401_ PPWB0020-52401_		
			ECO PASS weatherside profile B 50	450 670	4500 6700	1493 to 4500 4501 to 6700	PPWB0030-52401_ PPWB0040-52401_		
			ECO PASS weatherside profile B 90	450 670	4500 6700	1493 to 4500 4501 to 6700	PPWB0100-52401_ PPWB0110-52401_		
46	1	1	Sealing plate	450 670	4500 6700	1493 to 4500 4501 to 6700	PPAB0070-52401_ PPAB0080-52401_		
	1	1	Carton compensation rail ³⁾	450	4500	1493 to 6700	PPZB0250-52401_		
47			Compensation rail						
48			Seal						
No illus.	1	2	HS PORTAL comfort gear 300 PZ (Length = SH – 115)	Size 220 260	Handle height (in mm) 1008.5 1008.5	SH (in mm) 1786 to 2285 2286 to 2685	EV 1 silver PGKB4070-52401_ PGKB4080-52401_	EV 1 silver PGKB4070-52401_ PGKB4080-52401_	
	-	1	Stop bag consisting of:	For scheme C			RAL 9003 white 821237	RAL 7035 grey PMZB0140-02101_	RAL 9005 black 831922
49	-	1	Stop						
50	-	1	Countersunk tapping screw B 4.8 x 70						
51	-	1	Cover cap						

¹⁾ 1 piece required for element DIN left

²⁾ 1 piece required for element DIN, right

³⁾ required when tread threshold is used

3.5 Inoutic Elite/Prestige

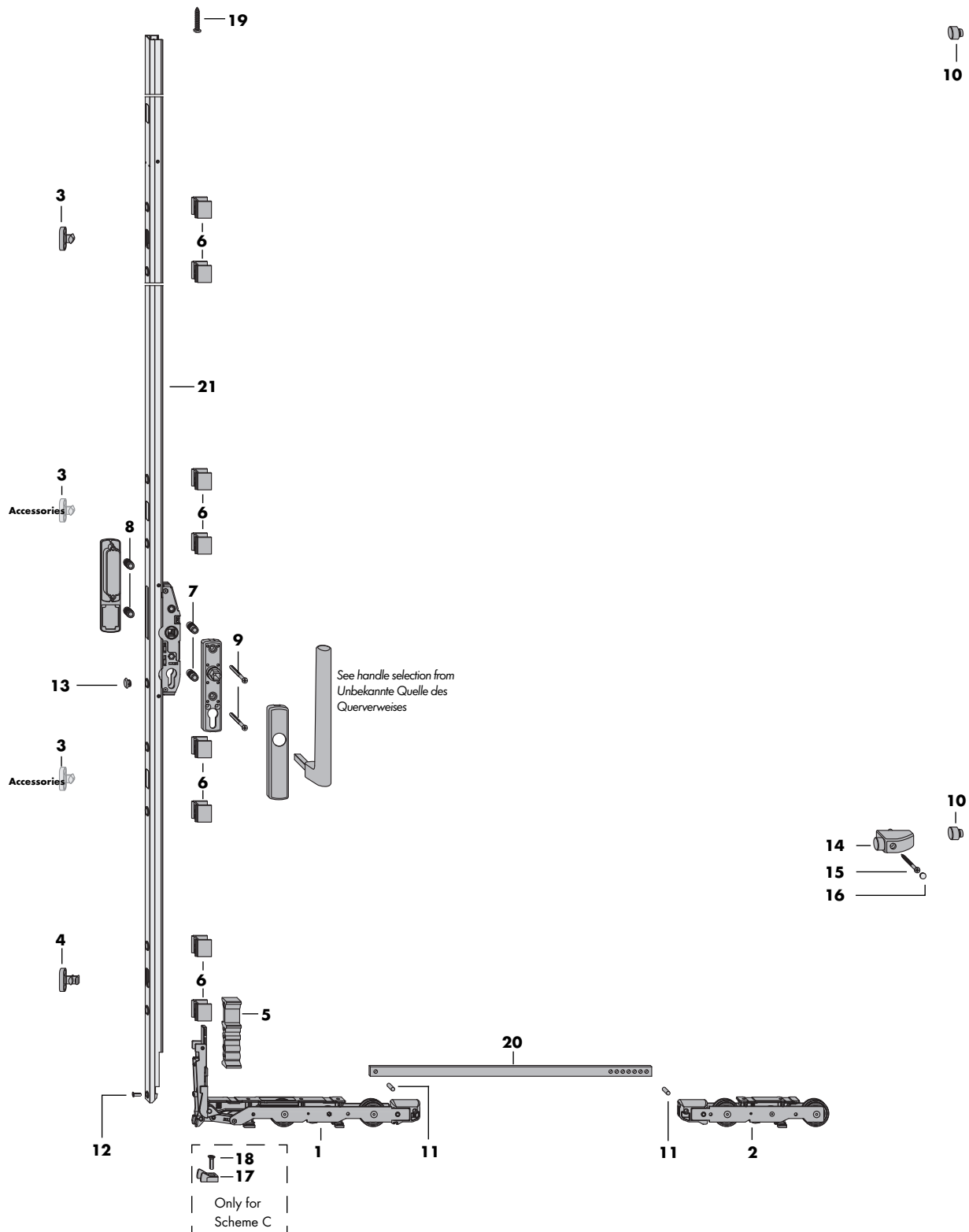


Fig. 5: HS PORTAL 300 KF with Inoutic Elite/Prestige profile

3.5.1 Inoutic Elite/Prestige size range

Inoutic Elite/Prestige				
Sash width	(mm)	720	to	3350
Sash height (sliding sash)	(mm)	1155	to	2655
Frame width	(mm)	1471	to	6731
Frame height	(mm)	1295.5	to	2795.5
Sash weight	(kg)	max. 300		
Backset (profile)	(mm)	47.5		
Handle height (window: 1192 to 1792)	(mm)	405		
Handle height (door: 1793 to 2692)	(mm)	1005		

3.5.2 List of hardware for HS PORTAL 300 KF with Inoutic Elite/Prestige profile

	No.	Pieces with scheme			Material description	Material number		
		A	G-2	C		RAL 9003 white	silver	RAL 8022 brown
General requirements		1	1	2	Carton handle Si-line HS PORTAL 300	See handle selection from Unbekannte Quelle des Querverweises		
		1	1	2	Carton HS PORTAL 300 KF A0280 Inoutic Elite / Prestige	PMKB4220-10001_		
					consisting of:			
	1	1	1	2	VSU corner drive HS			
	2	1	1	2	Bogie wheels HS			
					Bag of locking parts A0280			
	3	1	1	1 ¹⁾	Locking part, top A0009			
	4	1	1	1 ¹⁾	Locking part, bottom A0009			
		4	4	4 ¹⁾	Countersunk screw 5 x 25			
	5	1	1	2	Distance block, bottom A0029			
	6	8	8	16	Distance piece, short A0029			
	7	2	2	4	Distance sleeve, long Handle support, interior			
	8	0..2	0..2	0..4	Distance sleeve, short Recessed handle support, exterior			
	9	2	2	4	Countersunk screw M5 x 85			
		8	8	16	Countersunk screw 5 x 55			
		1	1	2	Countersunk screw 5 x 50			
		1	1	2	Countersunk screw 5 x 40			
		5	5	10	Countersunk screw 5 x 30			
	10	2	2	4	Stop			
depending on SW					Bag of small parts HS/HSK			
		11	2	2	Dowel pin 6 x 16			
		12	1	1	Countersunk screw M5 x 13			
		13	1	1	Bag closing cap grey			
			1	1	Bag closing cap brown			
		0..1	0..1	0..1	Stop bag	RAL 9003 white	RAL 7035 grey	RAL 9005 black
					consisting of:	821237	PMZB0140-02101_	831922
		14	0..1	0..1	Stop			
		15	0..1	0..1	Countersunk tapping screw B 4.8 x 70			
		16	0..1	0..1	Cover cap			
depending on SH		-	-	1	Bag of locking parts HS Scheme G	238691		
					consisting of:			
	17	-	-	1	Locking part, bottom for scheme C			
	18	-	-	1	Countersunk screw M6 x 20			
	19	-	-	1	Pan head tapping screw B6.3 x 38			
depending on SW					Connecting rod Size Length (in mm) SW (in mm)			
					(Length = SW - 700)			
	20	1	1	2	150 898 720 to 1600	719282		
					200 1398 1601 to 2100	719480		
					250 1898 2101 to 2600	719497		
depending on SH					335 2748 2601 to 3350	719725		
					HS PORTAL 300 gear PZ Size Handle height (in mm) SH (in mm)			
					(Length = SH - 70)			
	21	1	1	2	170 405 1140 to 1740	EV 1 silver PGKB0010-52401_	EV 1 silver PGKB0010-52401_	C 34 dark bronze PGKB0010-53201_
					220 1005 1741 to 2240	PGKB0020-52401_	PGKB0020-52401_	PGKB0020-53201_
depending on SH					260 1005 2241 to 2640	PGKB0030-52401_	PGKB0030-52401_	PGKB0030-53201_

¹⁾ Actual requirement; additional parts are included in the scope of delivery.

3.6 Profine PremiDoor 70

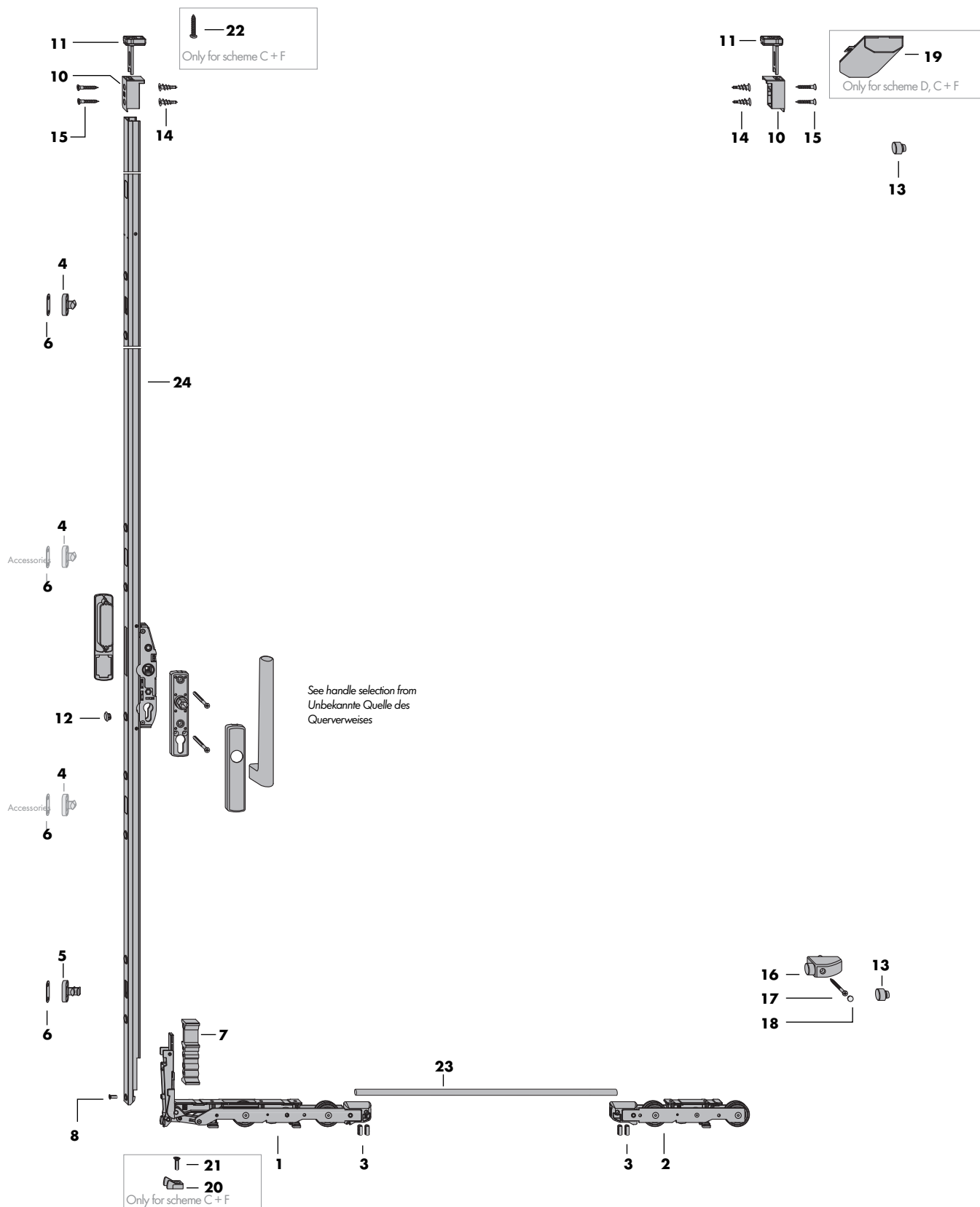


Fig. 6: HS PORTAL 300 KF with PremiDoor profile

3.6.1 Profine PremiDoor 70 size range

Profine PremiDoor 70				
Sash width	(mm)	770	to	3324
Sash height (sliding sash)	(mm)	1192	to	2692
Frame width	(mm)	for scheme A: max. 6700		
Frame height	(mm)	1322	to	2822
Sash weight	(kg)	max. 300		
Backset (profile)	(mm)	38.5		
Handle height (window: 1192 to 1792)	(mm)	406		
Handle height (door: 1793 to 2692)	(mm)	1006		

3.6.2 List of hardware for HS PORTAL 300 KF with PremiDoor 70 profile

	No.	Pieces with scheme				Material description	Material number		
		A	D	C	F		RAL 9003 white	silver	RAL 8019 brown
General requirements		1	2	2	4	Carton handle Si-line HS PORTAL 300	See handle selection from Unbekannte Quelle des Querverweises		
		1	2	2	4	Carton HS PORTAL 300 KF A0213 Profine	PMKB4020-100011		
						consisting of:			
	1	1	2	2	4	VSU corner drive			
	2	1	2	2	4	Bogie wheels			
	3	4	8	8	16	Stud M 8 x 16 for connecting rod			
		1	2	2	4	Bag of locking parts HS-KF A0213 Profine			
	4	1	2	1 ¹⁾	3 ¹⁾	Locking part, top A0005			
	5	1	2	1 ¹⁾	3 ¹⁾	Locking part, bottom A0005			
	6	2	4	2 ¹⁾	6 ¹⁾	Packer 1 mm TS			
		4	8	4 ¹⁾	12 ¹⁾	Countersunk tapping screw B 4.8 x 45 for locking parts			
		1	2	2	4	Bag of sash parts HS-300 KF A0213 Profine			
	7	1	2	2	4	Distance block, bottom A0008			
	8	1	2	2	4	Countersunk screw M 5 x 13			
	9	2	4	4	8	Countersunk screw M 5 x 75			
	10	2	4	4	8	Front top guide			
	11	2	4	4	8	Guiding plate			
	12	1	2	2	4	Bag closing cap grey			
						Bag closing cap brown			
	13	2	4	4	8	Stop			
		8	16	16	32	Countersunk tapping screw B 4.8 x 70 for gear			
		1	2	2	4	Countersunk tapping screw B 4.8 x 60 for VSU vertical			
		1	2	2	4	Countersunk tapping screw B 4.8 x 50 for VSU vertical			
		5	10	10	20	Countersunk tapping screw B 4.8 x 32 for VSU horizontal			
depending on SW	14	4	8	8	16	Special dowels for top guide			
	15	4	8	8	16	Screw 4.5 x 45 for top guide			
		-	1	-	2	Stop bag	RAL 9003 white 821237	RAL 7035 grey PMZB0140-021010	RAL 9005 black 831922
						consisting of:			
	16	-	1	-	2	Stop			
	17	-	1	-	2	Countersunk tapping screw B 4.8 x 70			
	18	-	1	-	2	Cover cap			
	19	-	1	1	3	Gasket bridge A0017	847329		
		-	-	1	1	Bag of locking parts HS Scheme G for scheme C	238691		
						consisting of:			
depending on SH	20	-	-	1	1	Locking part, bottom Scheme G			
	21	-	-	1	1	Countersunk screw M 6 x 20			
	22	-	-	1	1	Pan head tapping screw W 6.3 x 38			
depending on SW						Connecting rod Ø 10 mm (Length = SW - 680)			
						Size Length (in mm) SW (in mm)			
	23	1	2	2	4	130 1015 770 to 1600	714768		
						200 1670 1601 to 2400	PVSE0060-100010		
						335 2750 2401 to 3334	PVSE0050-100010		
depending on SH						HS PORTAL 300 gear PZ (Length = SH - 122)			
						Size Handle height (in mm) SH (in mm)			
	24	1	2	2	4	170 406 1192 to 1792	EV 1 silver PGKB0010-524011	EV 1 silver PGKB0010-524011	C 34 dark bronze PGKB0010-532011
						220 1006 1793 to 2292	PGKB0020-524011	PGKB0020-524011	PGKB0020-532011
						260 1006 2293 to 2692	PGKB0030-524011	PGKB0030-524011	PGKB0030-532011

¹⁾ Actual requirement; additional parts are included in the scope of delivery.

Please note: The fixing screws for attaching the gear are supplied by Rehau, order no. 256471

3.7 Rehau Geneo with ECO PASS threshold

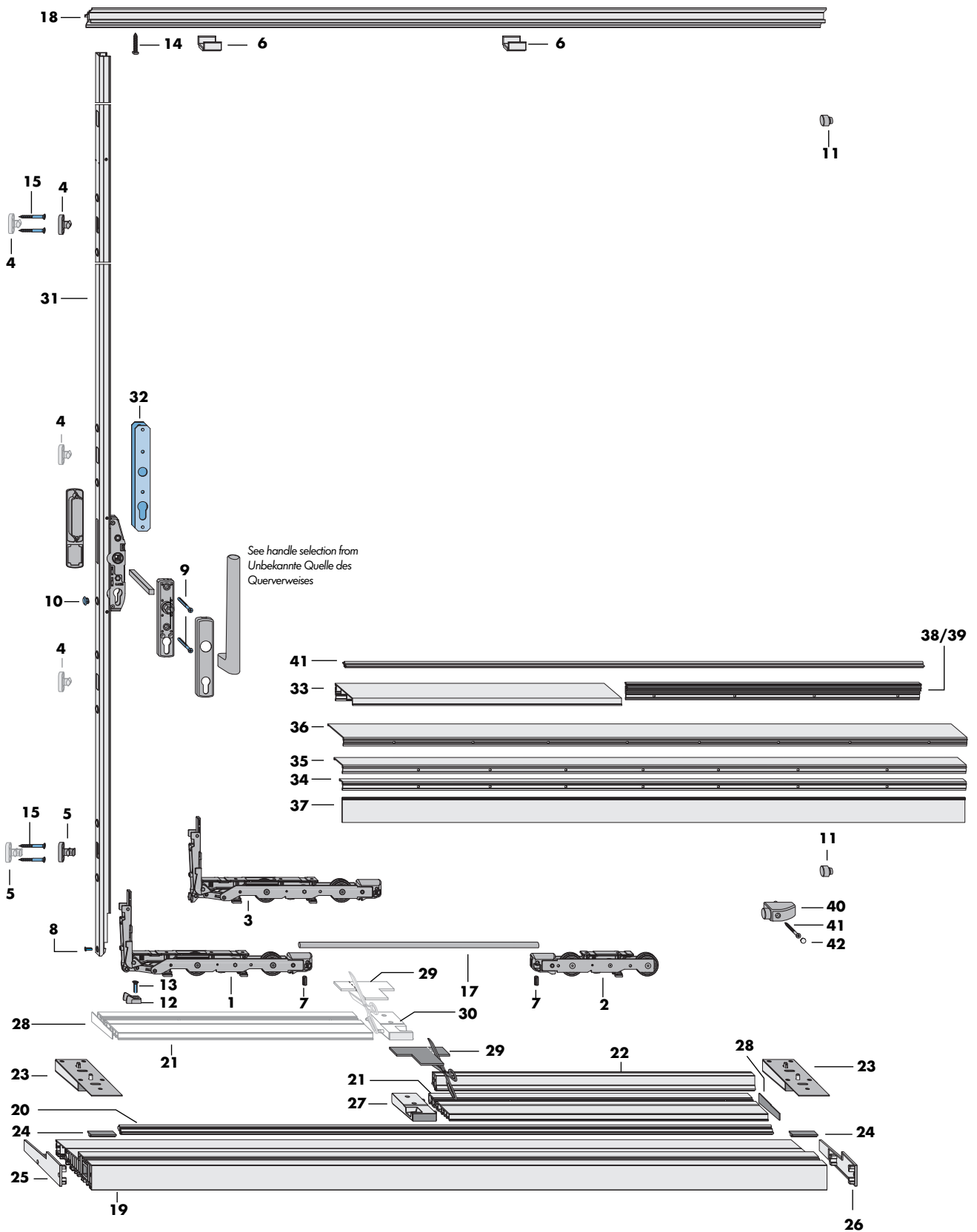


Fig. 7: HS PORTAL 300 KF with Rehau Geneo profile and ECO PASS threshold

3.7.1 Rehau Geneo ECO PASS size range

Rehau Geneo ECO PASS			
Sash width	(mm)	760	to 3334
Sash height (sliding sash)	(mm)	1170	to 2400
Frame width	(mm)	for scheme A: max. 6700	
Frame height	(mm)	1288	to 2560
Sash weight	(kg)	max. 300	
Backset (profile)	(mm)	38.5	
Handle height (window: 1192 to 1792)	(mm)	403	
Handle height (door: 1793 to 2692)	(mm)	1003	

3.7.2 List of hardware for HS PORTAL 300 KF with Geneo profile and ECO PASS threshold

	No.	Pieces with scheme		Material description	Material number		
		A	C		RAL 9003 white	silver	
General requirements	1	2		Carton handle Si-line HS PORTAL 300	See handle selection from Unbekannte Quelle des Querverweises		
	1	-		Carton HS-300 KF REHAU GENEKO TS scheme A consisting of:	PMKB4370-10001_		
	-	1		Carton HS-300 KF REHAU GENEKO TS scheme C consisting of:	PMKB4380-10001_		
	1	1	1	Corner drive VSU HS 300 TS			
	2	1	2	Bogie wheels HS 300 TS			
	3	-	1	Corner drive VSU HS 300 TS for scheme C			
	4	1	1	Locking part, top A0001 TS for scheme A and C			
	5	1	1	Locking part, bottom A0001 TS for scheme A and C			
	4	-		Countersunk tapping screw PH 4.8 x 45 for locking parts with scheme A			
	6	2	4	Top guide			
	7	2	4	Grub screw M 8 x 16			
	8	1	2	Countersunk screw M 5 x 13			
	9	2	4	Countersunk screw M 5 x 95 for handle			
	10	1	2	Bag closing cap grey			
	11	2	2	Stop RAL 9003			
	8	16		Countersunk tapping screw B 4.8 x 65			
depending on SW	1	2		Countersunk tapping screw B 4.8 x 50			
	5	10		Countersunk tapping screw B 4.8 x 38			
	12	-	1	Locking part G for scheme C 2nd sash			
	13	-	1	Countersunk screw M 6 x 20			
	14	-	1	Pan head tapping screw W 6.3 x 38			
	15	-	4	Countersunk tapping screw B 4.8 x 80 for locking parts with scheme C			
	16	1	1	Seal FS for guiding rail			
	17	1	2	Connecting rod Ø 10 mm (Length = SW - 660)	Size	Length (in mm)	SW (mm)
					130	1015	770 to 1600
					200	1640	1601 to 2220
					335	2750	2221 to 3330
depending on FW	18	1	1	Guiding rail HST-KF 01	Size	Length (in mm)	FW (in mm)
					350	3500	1550 to 3500
					450	4500	3501 to 4500
					670	6700	4501 to 6700
	19	1	1	ECO PASS threshold B203	300	3000	1550 to 3000
					350	3500	3001 to 3500
					400	4000	3501 to 4000
					450	4500	4001 to 4500
					500	5000	4501 to 5000
					570	5700	5001 to 5700
					670	6700	5701 to 6700
	20	1	1	ECO PASS running rail 5/10	350	3500	1550 to 3500
					400	4000	3501 to 4000
					450	4500	4001 to 4500
					500	5000	4501 to 5000
					570	5700	5001 to 5700
					670	6700	5701 to 6700
	21	1	2	ECO PASS support rail S 117	150	1500	1550 to 3000
					200	2000	3001 to 4000
					250	2500	4001 to 5000
					350	3500	5001 to 6700
	22	1	2	ECO PASS Rehau adapter rail for Rehau Geneo profile	150	1500	1550 to 3000
					200	2000	3001 to 4000
					250	2500	4001 to 5000
					350	3500	5001 to 6700

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	No.	Pieces with scheme		Material description			Material number		
		A	C				RAL 9003 white	silver	
Accessories for ECO PASS threshold		1	1	Frame corner connection <i>consisting of:</i>			PMRB0100-02103_		
	23	2	2	Sealing part REV <i>for ECO PASS threshold B 203</i>					
	24	2	2	Seal REV <i>for recess running rail REV</i>					
	25	1	1	End cap, left <i>for ECO PASS threshold B 203</i>					
	26	1	1	End cap, right <i>for ECO PASS threshold B 203</i>					
		0/1 ¹⁾	1	Sealing part MP left			PMRB0122-02103_		
	27	1	1	Sealing part MP left <i>for sealing between sliding and fixed sash</i>					
	28	1	1	Support rail seal <i>for sealing support rail and sealing part REV</i>					
	29	1	1	Sealing pad MP, top <i>at the top of sealing part MP and support rail</i>					
		0/1 ²⁾	1	Sealing part MP, right <i>consisting of:</i>			PMRB0121-02103_		
	30	1	1	Sealing part MP, right <i>for sealing between sliding and fixed sash</i>					
	28	1	1	Support rail seal <i>for sealing support rail and sealing part REV</i>					
	29	1	1	Sealing pad MP, top <i>at the top of sealing part MP and support rail</i>					
depending on SH	31	1	2	HS PORTAL 300 gear PZ (Length = SH - 70)			EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_	
				Size	Handle height (in mm)	SH (in mm)			
				170	403	1170 to 1770			
				220	1003	1771 to 2270			
				260	1003	2271 to 2670			

Accessories

for anti-intruder elements

4	2	2	Locking part, top	A0001TS	719190
32	1	2	Anti-drill guard E		721216
No illus.	4	4	Countersunk tapping screw PH 4.8 x 45	for locking parts	862162

for barrier-free elements

33	1	1	ECO PASS tread threshold B203	Size Length (in mm)	PPTB0150-52401_ PPTB0160-52401_ PPTB0020-52401_
				200 2000 250 2500 350 3500	

for other requirements

depending on FW	34	1	1	ECO PASS weatherside profile B 20	Size Length (in mm) FW (in mm)	PPWB0010-52401_ PPWB0020-52401_	
					450 4500 1493 to 4500 670 6700 4501 to 6700		
	35	1	1	ECO PASS weatherside profile B 50	450 4500 1493 to 4500 670 6700 4501 to 6700	PPWB0030-52401_ PPWB0040-52401_	
	36			ECO PASS weatherside profile B 90	450 4500 1493 to 4500 670 6700 4501 to 6700	PPWB0100-52401_ PPWB0110-52401_	
	37	1	1	Sealing plate	450 4500 1493 to 4500 670 6700 4501 to 6700	PPAB0070-52401_ PPAB0080-52401_	
depending on SH	38	1	1	Carton compensation rail³⁾	450 4500 1493 to 6700	PPZB0250-52401_	
	39	1	1	Compensation rail			
				Seal			
depending on SH	No illus.	1	2	HS PORTAL comfort gear 300 PZ (Length = SH - 70)	Size Handle height (in mm) SH (in mm)	EV 1 silver PGKB4070-52401_ PGKB4080-52401_	EV 1 silver PGKB4070-52401_ PGKB4080-52401_
					220 1003 1771 to 2270 260 1003 2271 to 2670		
with outside handle		1	2	Stop bag consisting of:	RAL 9003 white 821237	RAL 7035 grey PMZB0140-02101_	RAL 9005 black 831922
	40	1	2	Stop			
	41	1	2	Countersunk tapping screw B 4.8 x 70			
	42	1	2	Cover cap			
	43	0..X	0..X	ECO PASS stop plate	required for frame enlarging profile		
					PZUB0140-02106_		

¹⁾ 1 piece required for element DIN, left²⁾ 1 piece required for element DIN, right³⁾ required when tread threshold is used
further threshold component sizes on request

3.8 Salamander Design iD with ECO PASS threshold

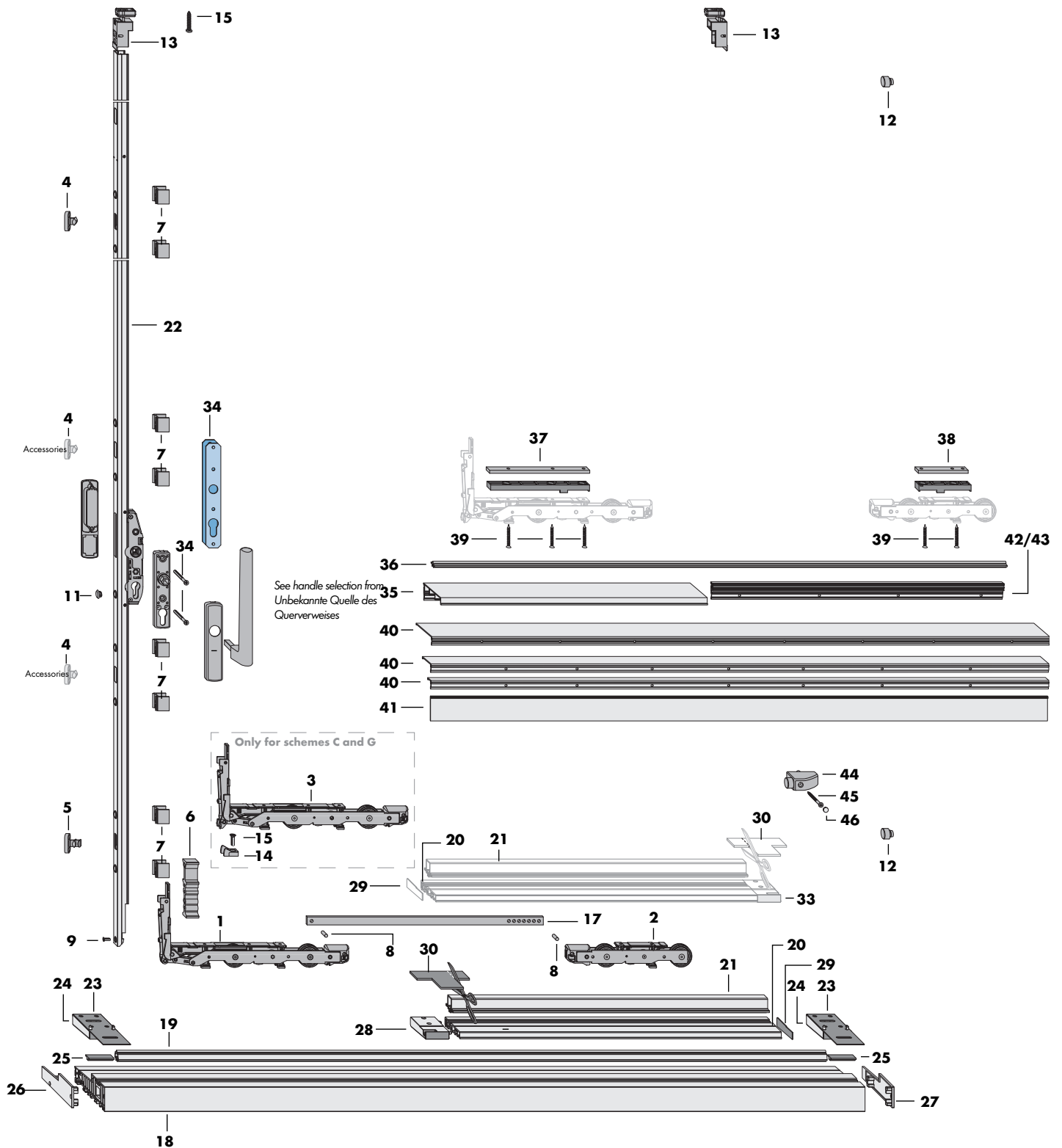


Fig. 8: HS PORTAL 300 KF with Salamander Design iD profile with ECO PASS threshold

3.8.1 Salamander Design iD ECO PASS size range

Salamander Design iD ECO PASS			
Sash width	(mm)	750	to 3334
Sash height (sliding sash)	(mm)	1180	to 2680
Frame width	(mm)	for scheme A: max. 6700	
Frame height	(mm)	1321	to 2821
Sash weight	(kg)	max. 300	
Backset (profile)	(mm)	41	
Handle height (window: 1192 to 1792)	(mm)	409.5	
Handle height (door: 1793 to 2692)	(mm)	1009.5	

3.8.2 List of hardware for HS PORTAL 300 KF with Salamander Design iD profile with ECO PASS threshold

	No.	Pieces with scheme		Material description	Material number		
		A	C		RAL 9003 white	silver	RAL 8022 brown
General requirements	1	2		Carton handle Si-line HS PORTAL 300	See handle selection from Unbekannte Quelle des Querverweises		
	1	1		Carton HS300-KF DM41 Salamander Design iD scheme A	PMKB4450-10001_		
	-	1		Carton HS300-KF DM41 Salamander Design iD scheme C	PMKB4460-10001_		
	1	1		Corner drive VSU HS 300 KF TS			
	2	-	1	Corner drive VSU HS 300 TS			
	3	1	2	Bogie wheels 300 TS			
	4	1	1	Locking part, top A0020			
	5	1	1	Locking part, bottom A0020			
	4	-		Countersunk tapping screw B 4.8 x 32			
	-	4		B 4.8 x 80 countersunk tapping screw			
	6	1	2	Distance block, bottom A0018			
	7	8	16	Distance piece, short A0018			
	8	2	4	Dowel pin 6 x 16			
	9	1	2	Countersunk screw M 5 x 13			
	10	2	4	Countersunk screw M 5 x 85			
	11	1	2	Bag closing cap grey			
	12	1	2	Bag closing cap brown			
depending on SW	12	2	4	Stop	238691		
	13	2	4	Front top guide			
	9	18		Countersunk tapping screw B 4.8 x 70			
	2	4		Countersunk tapping screw B 4.8 x 50			
	5	10		Countersunk tapping screw B 4.8 x 32			
	1	2		Countersunk tapping screw B 4.8 x 19			
	2	4		Countersunk screw M 5 x 30			
	8	8		Clamping screw D 6 x 130			
	-	1		Bag of locking parts HS Scheme G			
	14	-	1	Locking part, bottom Scheme G			
depending on FW	15	-	1	Countersunk screw M 6 x 20	719282 719480 719497 719725		
	16	-	1	Pan head tapping screw W 6.3 x 38			
	17	1	2	Connecting rod (Length = SW - 710)			
				Size Length (in mm) SW (in mm)			
				150 898 750 to 1600			
depending on FW	18	1	1	ECO PASS threshold B171	PPBB0600-52401_ PPBB0610-52401_ PPBB0620-52401_ PPBB0630-52401_ PPBB0650-52401_ PPBB0750-52401_ PPBB0660-52401_ PPLB5120-52401_ PPLB6130-52401_ PPLB5130-52401_ PPLB6140-52401_ PPLB6150-52401_ PPLB5160-52401_		
				Size Length (in mm) FW (in mm)			
				300 3000 1493 to 3000			
				350 3500 3001 to 3500			
				400 4000 3501 to 4000			
				450 4500 4001 to 4600			
				500 5000 4501 to 5000			
				570 5700 5001 to 5700			
				670 6700 5701 to 6700			
	19	1	1	ECO PASS running rail M/15			
				350 3500 1493 to 3500			
				400 4000 3501 to 4000			
				450 4500 4001 to 4600			
				500 5000 4501 to 5000			
				570 5700 5001 to 5700			
				670 6700 5701 to 6700			

Continued on next page

	No.	Pieces with scheme		Material description	Material number		
		A	C		RAL 9003 white	silver	RAL 8022 brown
depending on PV	20	1	2	ECO PASS support rail S96	150 to 3000	PPZB5330-02101_	
				200 to 4000	PPZB5340-02101_		
				250 to 5000	PPZB5350-02101_		
				350 to 6700	PPZB5060-02101_		
	21	1	2	ECO PASS adapter rail	150 to 3000	PPZB5450-02101_	
				200 to 4000	PPZB5460-02101_		
				250 to 5000	PPZB5470-02101_		
				350 to 6700	PPZB5090-02101_		
depending on SH	22	1	2	HS PORTAL 300 gear PZ (Length = SH - 110)	Size Handle height (in mm) SH (in mm)	EV 1 silver	C 34 dark bronze
					170 409.5 1180 to 1780	PGKB0010-52401_	PGKB0010-53201_
					220 1009.5 1781 to 2380	PGKB0020-52401_	PGKB0020-53201_
					260 1009.5 2381 to 2680	PGKB0030-52401_	PGKB0030-53201_
Accessories for ECO PASS threshold		1	1	Frame corner connection REV SAL consisting of:	ECO PASS for Salamander	PMRB012002101_	
	23	2	2	REV ECO PASS Salamander sealing plate, top			
	24	2	2	REV ECO PASS Salamander sealing part			
	25	2	2	Seal	for recess running rail REV		
	26	1	1	End cap, left	for ECO PASS Salamander threshold		
	27	1	1	End cap, right	for ECO PASS Salamander threshold		
		0/1 ¹⁾	1	Sealing part MP left consisting of:		PMRB0202-02103_	
	28	1	1	ECO PASS sealing part MP, left	for sealing between sliding and fixed sash		
	29	1	1	End seal MP	for sealing support rail and sealing block REV		
	30	1	1	Sealing pad SA	on sealing block and support rail		
	31	2	2	Sealing pad F			
	32	1	1	Seal MP B171			
		0/1 ²⁾	1	Sealing part MP, right consisting of:		PMRB0201-02103_	
	33	1	1	ECO PASS sealing part MP, right	for sealing between sliding and fixed sash		
	29	1	1	End seal MP	for sealing support rail and sealing block REV		
	30	1	1	Sealing pad SA	on sealing block and support rail		
	31	2	2	Sealing pad F			
	32	1	1	Seal MP B171			

Accessories

for anti-intruder elements

4	2	2	Locking part, top	A0001	719190
34	1	2	Anti-drill guard E		721216
No illus.	4	4	Countersunk tapping screw 4.8 x 32		840603

for barrier-free elements

35	1	1	ECO PASS tread threshold B171	Size Length (in mm)		PPTB0040-52401_
				350 3500		
36	1	1	ECO PASS running rail M/5	350 to 3500	PPLB6030-52401_	
				400 to 4000	PPLB6160-52401_	
				450 to 4500	PPLB6040-52401_	
				500 to 5000	PPLB6170-52401_	
				570 to 5500	PPLB6180-52401_	
				670 to 6700	PPLB6060-52401_	
	1	2	Bag of sash parts HS barrier-free		PMZB0200-09701_	
37	1	2	Distance plate, long			
38	1	2	Distance plate, short			
39	5	10	Countersunk tapping screw B 4.8 x 45			

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No.	Pieces with scheme		Material description	Material number					
	A	C		RAL 9003 white	silver	RAL 8022 brown			
for other requirements									
40	1	1	ECO PASS weatherside profile B20	Size	Length (in mm)	FW (in mm)	PPWB0010-52401_ PPWB0020-52401_		
				450	4500	1493 to 4500			
				670	6700	4501 to 6700			
	1	1	ECO PASS weatherside profile B50	450	4500	1493 to 4500	PPWB0030-52401_ PPWB0040-52401_		
				670	6700	4501 to 6700			
			ECO PASS weatherside profile B90	450	4500	1493 to 4500	PPWB0100-52401_ PPWB0110-52401_		
41	1	1	Sealing plate	450	4500	1493 to 4500	PPAB0070-52401_ PPAB0080-52401_		
				670	6700	4501 to 6700			
			Carton compensation rail ³⁾	450	4500	1493 to 6700	PPZB0250-52401_		
42	1	1	Compensation rail						
43	1	1	Seal						
No illus.	1	2	HS PORTAL comfort gear 300 PZ (Length = SH - 110)	Size	Handle height (in mm)	SH (in mm)	PGKB4070-52401_ PGKB4080-52401_		
				220	1003	1771 to 2270			
				260	1003	2271 to 2670			
44	-	1	Stop bag consisting of:				RAL 9003 white 821237	RAL 7035 grey PMZB0140-02101_	RAL 9005 black 831922
			Stop						
			Countersunk tapping screw B 4.8 x 70						
46	-	1	Cover cap						

¹⁾ 1 piece required for element DIN, left

²⁾ 1 piece required for element DIN, right

³⁾ required when tread threshold is used
further threshold component sizes on request

3.9 Schüco Corona CT 70 HS

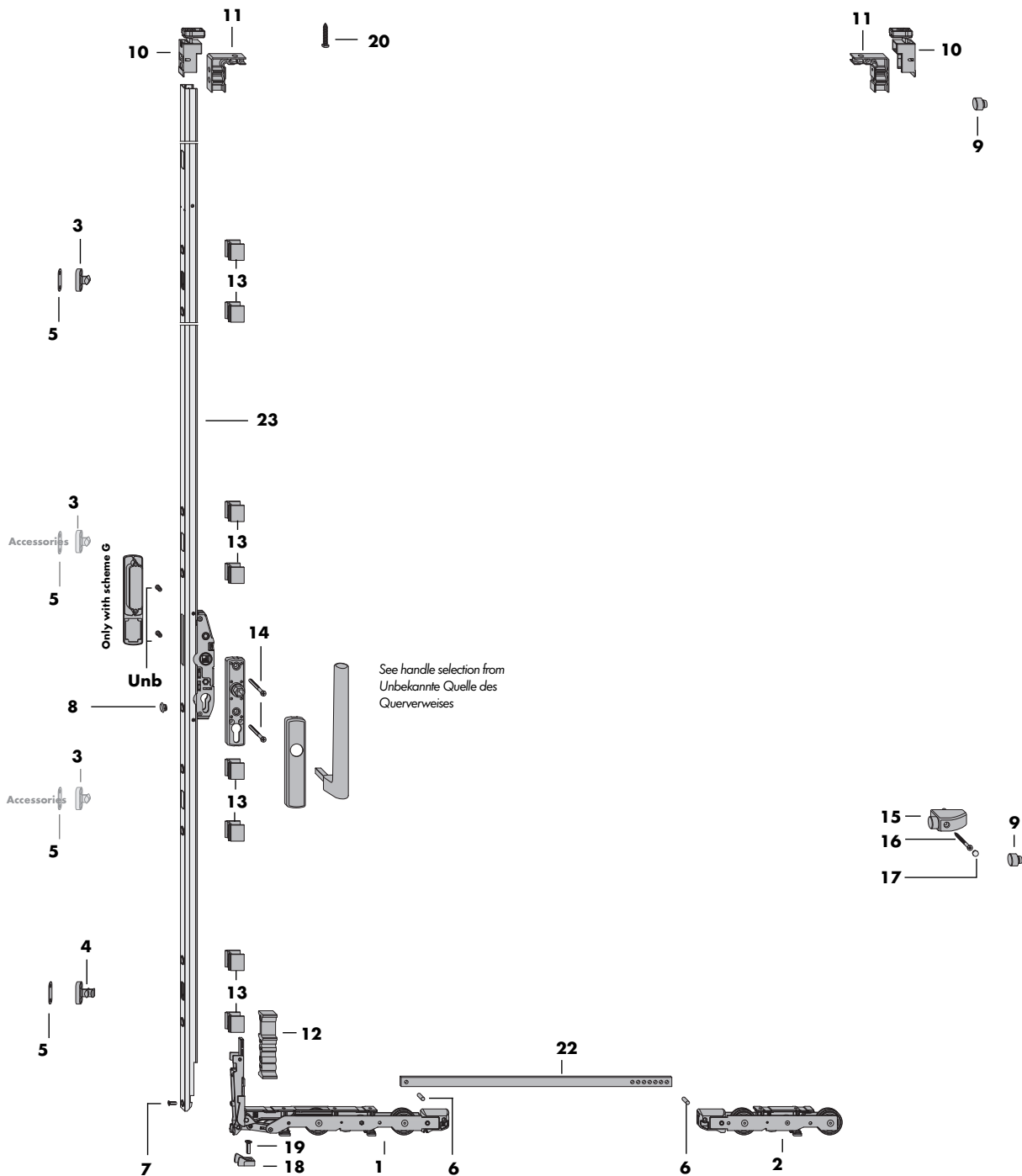


Fig. 9: HS PORTAL 300 KF with Schüco Corona CT 70 HS profile

3.9.1 Schüco Corona CT 70 HS size range

Schüco Corona CT 70 HS			
Sash width	(mm)	770	to 3350
Sash height (sliding sash)	(mm)	1185	to 2685
Frame width	(mm)	for scheme A: max. 6700	
Frame height	(mm)	1309	to 2809
Sash weight	(kg)	max. 300	
Backset (profile)	(mm)	37.5	
Handle height (window: 1192 to 1792)	(mm)	400	
Handle height (door: 1793 to 2692)	(mm)	1000	

3.9.2 List of hardware for HS PORTAL 300 KF with Schüco Corona CT 70 HS

No.	Pieces with scheme					Material description	Material number		
	A	D	G	C	F		RAL 9003 white	EV 1 silver	RAL 8022 brown
General requirements	1	2	1	2	4	Carton handle Si-line HS PORTAL 300	See handle selection from Unbekannte Quelle des Querverweises		
	1	2	1	2	4	Carton HS PORTAL 300 KF A0206 SCHÜCO CORONA CT 70 HS	PMKB4000-10001_		
						consisting of:			
	1	1	2	1	2	4	Corner drive	VSU HS 300 TS	
	2	1	2	1	2	4	Bogie wheels	HS 300 TS	
	3	1	2	1	1 ¹⁾	3 ¹⁾	Locking part, top	A0012	
	4	1	2	1	1 ¹⁾	3 ¹⁾	Locking part, bottom	A0012	
	5	2	4	2	2	4	Packer	1 mm TS	
	4	8	4	4 ¹⁾	16		Countersunk tapping screw B 4.8 x 32		
	1	2	1	2	4		Bag of small parts HS/HSK		
	6	2	4	2	4	8	Dowel pin 6 x 16		
	7	1	2	1	2	8	Countersunk screw M 5 x 13		
	8	1	2	1	2	4	Bag closing cap	grey	
	1	2	1	2	4		Bag closing cap	brown	
	9	2	1 ¹⁾	2	2	2	Stop	black	
	10	2	4	2	4	8	Front top guide KH 0130-1	grey	
	11	2	4	2	4	8	Distance angle	A0206	
	12	1	2	1	2	4	Distance block, bottom	A0004	
	13	8	16	8	16	32	Distance piece, short	A0004	
	14	2	4	2	4	8	Countersunk screw M 5 x 75		
	8	16	8	16	32		Countersunk tapping screw B 4.8 x 70		
	1	2	1	2	4		Countersunk tapping screw B 4.8 x 60		
	1	2	1	2	4		Countersunk tapping screw B 4.8 x 50		
	7	14	7	14	28		Countersunk tapping screw B 4.8 x 38		
	1	2	1	2	4		Countersunk tapping screw B 4.8 x 25		
	4	8	4	8	8		Plate screw 4 x 35		
depending on SW	-	1	1	-	2	Stop bag			
						consisting of:			
	15	-	1	1	-	2	Stop	RAL 9003 white 821237	RAL 7035 grey PMZB0140-02101_
	16	-	1	1	-	2	Countersunk tapping screw B 4.8 x 70		RAL 9005 black 831922
	17	-	1	1	-	2	Cover cap		
	-	-	1	1	1	1	Bag of locking parts HS A0206		PMZB4100-10001_
						consisting of:			
	18	-	-	1	1	1	Locking part, bottom	Scheme G	
	19	-	-	1	1	1	Countersunk screw M 6 x 20		
	20	-	-	1	1	1	Pan head tapping screw W 6.3 x 38		
depending on SH	21	-	-	2	-	-	Sleeve nut	for handle fixation in gear	800287
	-	-	2	-	-	-	Countersunk screw M 5 x 50		801086
depending on SW	22	1	2	1	2	4	Connecting rod (Length = SW - 730)	Size Length (in mm) SW (in mm)	719282 719480 719497 719725
depending on SH	23	1	2	1	2	4	HS PORTAL 300 gear PZ (Length = SH - 115)	Size Handle height (in mm) SH (in mm)	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_
									EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_
									C 34 dark bronze PGKB0010-53201_ PGKB0020-53201_ PGKB0030-53201_

¹⁾ Actual requirement; additional parts are included in the scope of delivery.

3.10 Schüco ThermoSlide 82 HS

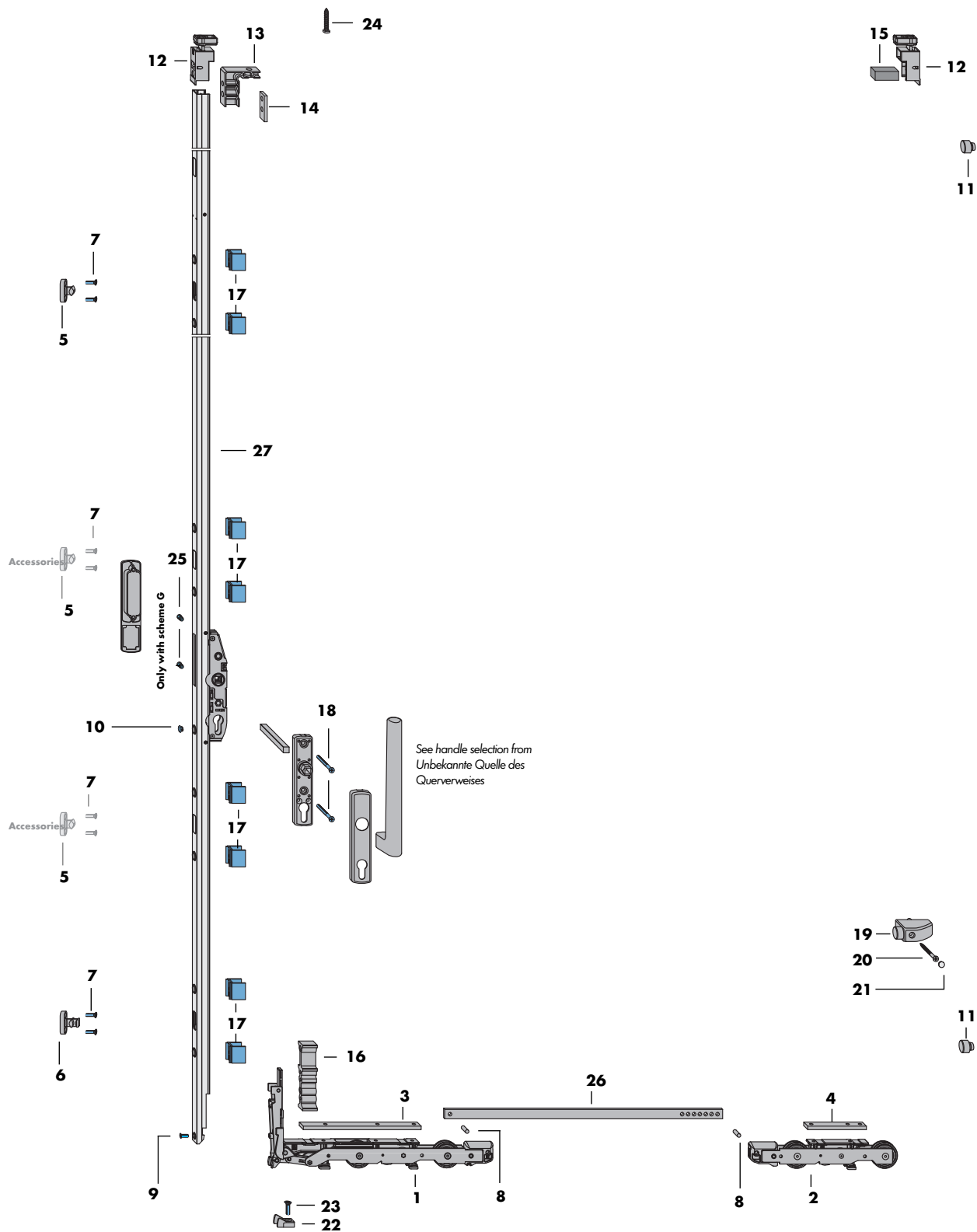


Fig. 10: HS PORTAL 300 KF with Schüco ThermoSlide 82 HS profile

3.10.1 Schüco ThermoSlide 82 HS size range

Schüco ThermoSlide Corona SI 82				
Sash width	(mm)	740	to	3350
Sash height (sliding sash)	(mm)	1185	to	2685
Frame width	(mm)	for scheme A: max. 6700		
Frame height	(mm)	1309	to	2809
Sash weight	(kg)	max. 300		
Backset (profile)	(mm)	37.5		
Handle height (window: 1192 to 1792)	(mm)	400		
Handle height (door: 1793 to 2692)	(mm)	1000		

3.10.2 List of hardware for HS PORTAL 300 KF with Schüco ThermoSlide 82 HS

No.		Pieces with scheme					Material description	Material number				
		A	D	G	C	F		RAL 9003 white	EV 1 silver	RAL 8022 brown		
General requirements		1	2	1	2	4	Carton handle Si-line HS PORTAL 300		See handle selection from Unbekannte Quelle des Querverweises			
		1	2	1	2	4	Carton HS PORTAL 300 KF	SCHÜCO ThermoSlide		PMKB4430-10001_		
		consisting of:										
	1	1	2	1	2	4	Corner drive	VSU HS 300 TS				
	2	1	2	1	2	4	Bogie wheels	HS 300 TS				
	3	1	2	1	2	4	Distance plate corner drive size 3					
	4	1	2	1	2	4	Distance plate bogie wheels size 3					
	5	1	2	1	1 ¹⁾	3 ¹⁾	Locking part, top	A0006				
	6	1	2	1	1 ¹⁾	3 ¹⁾	Locking part, bottom	A0006				
	7	4	8	4	4 ¹⁾	16	Countersunk tapping screw B 4.8 x 32					
		1	2	1	2	4	Bag of small parts HS/HSK					
	8	2	4	2	4	8	Dowel pin 6 x 16					
	9	1	2	1	2	8	Countersunk screw M 5 x 13					
		1	2	1	2	4	Bag closing cap	grey				
		1	2	1	2	4	Bag closing cap	brown				
	11	2	- ¹⁾	- ¹⁾	2	- ¹⁾	Stop	black				
	12	2	4	2	4	8	Front top guide KH 0130-1	grey				
	13	1	2	1	2	4	Distance angle	A0206				
	14	1	2	1	2	4	Packer	for distance angle, selfadhesive				
	15	1	2	1	2	4	Distance piece, top	for front top guide (rear)				
	16	1	2	1	2	4	Distance block, bottom	A0006				
	17	8	16	8	16	32	Distance piece, short	A0006				
	18	2	4	2	4	8	Countersunk screw M 5 x 95					
		8	16	8	16	32	Countersunk tapping screw B 4.8 x 65					
		1	2	1	2	4	Countersunk tapping screw B 4.8 x 50					
		2	4	2	2	8	Countersunk tapping screw B 4.8 x 38					
		5	10	5	10	20	Countersunk tapping screw B 4.8 x 32					
		-	1	1	-	2	Stop bag	RAL 9003 white	RAL 7035 grey	RAL 9005 black		
		consisting of:						821237	PMZB0140-02101_	831922		
	19	-	1	1	-	2	Stop					
	20	-	1	1	-	2	Countersunk tapping screw B 4.8 x 70					
	21	-	1	1	-	2	Cover cap					
		-	-	1	1	1	Bag of locking parts HS A0206	Scheme G		PMZB4100-10001_		
		consisting of:										
	22	-	-	1	1	1	Bottom locking part G	for scheme G and C				
	23	-	-	1	1	1	Countersunk screw M 6 x 20					
24	-	-	1	1	1	Pan head tapping screw W 6.3 x 38	2nd sash scheme C anti-lift protection					
25	-	-	2	-	-	Sleeve nut	for handle fixation in gear		800287			
	-	-	2	-	-	Countersunk screw M 5 x 50	for handle fixation in gear		801086			
depending on SW						Connecting rod (Length = SW - 700)	Size	Length (in mm)	SW (in mm)	719282 719480 719497 719725		
	26	1	2	1	2	4						
depending on SH						HS PORTAL 300 gear PZ (Length = SH - 119)	Size	Handle height (in mm)	SH (in mm)	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_ EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_ C 34 dark bronze PGKB0010-53201_ PGKB0020-53201_ PGKB0030-53201_		
	27	1	2	1	2	4						

¹⁾ Actual requirement; additional parts are included in the scope of delivery.

3.11 Thyssen Polymer

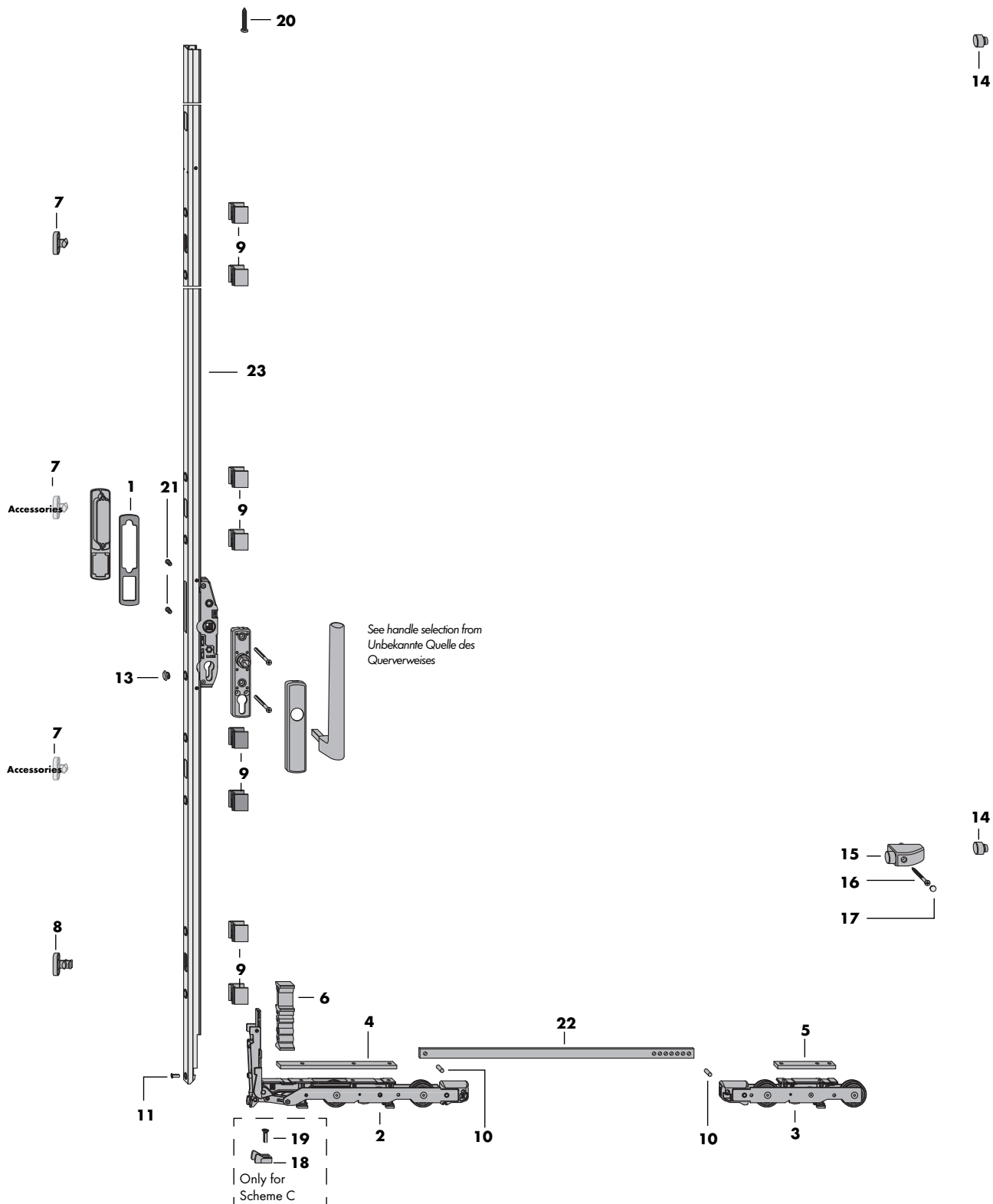


Fig. 11: HS PORTAL 300 KF with Thyssen Polymer profile

3.11.1 Thyssen Polymer size range

Thyssen Polymer				
Sash width	(mm)	720	to	3350
Sash height (sliding sash)	(mm)	1155	to	2655
Frame width	(mm)	1471	to	6731
Frame height	(mm)	1295.5	to	2795.5
Sash weight	(kg)	max. 300		
Backset (profile)	(mm)	47.5		
Handle height (window: 1192 to 1792)	(mm)	407		
Handle height (door: 1793 to 2692)	(mm)	1007		

3.11.2 List of hardware for HS PORTAL 300 KF with Thyssen Polymer profile

	No.	Pieces with scheme		Material description	Material number		
		A	C		RAL 9003 white	silver	RAL 8019 brown
General requirements		1	2	Carton handle Si-line HS PORTAL 300	See handle selection from Unbekannte Quelle des Querverweises		
	1	1	2	Sealing plate Si-line	881798		
		1	2	Carton HS PORTAL 300 KF A0006 Thyssen Polymer consisting of:	PMKB4240-10001_		
	2	1	2	VSU corner drive HS			
	3	1	2	Bogie wheels HS			
	4	1	2	Distance plate corner drive A0006			
	5	1	2	Distance plate bogie wheels A0006			
	6	1	2	Distance block, bottom A0006			
		1	1 ¹⁾	Bag of locking parts A0006			
	7	1	1 ¹⁾	Locking part, top A0006			
	8	1	1 ¹⁾	Locking part, bottom A0006			
		4	4 ¹⁾	Countersunk tapping screw B 4.8 x 38			
		1	2	Bag of sash parts HS KF A0006			
	9	8	16	Distance piece, short A0006			
	10	2	4	Dowel pin 6 x 16			
	11	1	2	Countersunk screw M5 x 13			
	12	2	4	Countersunk screw M5 x 70			
	13	1	2	Bag closing cap grey			
		1	2	Bag closing cap brown			
	14	2	4	Stop			
		8	16	Countersunk tapping screw B 4.8 x 70			
		6	12	Countersunk tapping screw B 4.8 x 38			
		3	6	Countersunk tapping screw B 4.8 x 32			
		0..1	0..1	Stop bag consisting of:	RAL 9003 white 821237	RAL 7035 grey PMZB0140-02101_	RAL 9005 black 831922
	15	0..1	0..1	Stop			
	16	0..1	0..1	Countersunk tapping screw B 4.8 x 70			
	17	0..1	0..1	Cover cap			
		-	1	Bag of locking parts HS Scheme G consisting of:	238691		
	18	-	1	Locking part, bottom for scheme C			
	19	-	1	Countersunk screw M6 x 20			
	20	-	1	Pan head tapping screw B6.3 x 38			
	21	-	-	Sleeve nut for handle fixation in gear	800287		
	7	0..2	-	Locking part, top A0006	719213		
	No ill.	0..4	-	Countersunk tapping screw 4.8 x 38 for locking part, top, no. 10	840610		
depending on SW	22	1	2	Connecting rod (Length = SW - 670) Size Length (in mm) SW (in mm) 150 898 720 to 1500 200 1398 1501 to 2000 250 1898 2001 to 2500 335 2748 2501 to 3350	719282 719480 719497 719725		
depending on SH	23	1	2	HS PORTAL 300 gear PZ (Length = SH - 85) Size Handle height (in mm) SH (in mm) 170 409 1155 to 1755 220 1009 1756 to 2255 260 1009 2256 to 2655	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_	C 34 dark bronze PGKB0010-53201_ PGKB0020-53201_ PGKB0030-53201_

¹⁾ Actual requirement; additional parts are included in the scope of delivery.

3.12 Veka AG VEKASLIDE

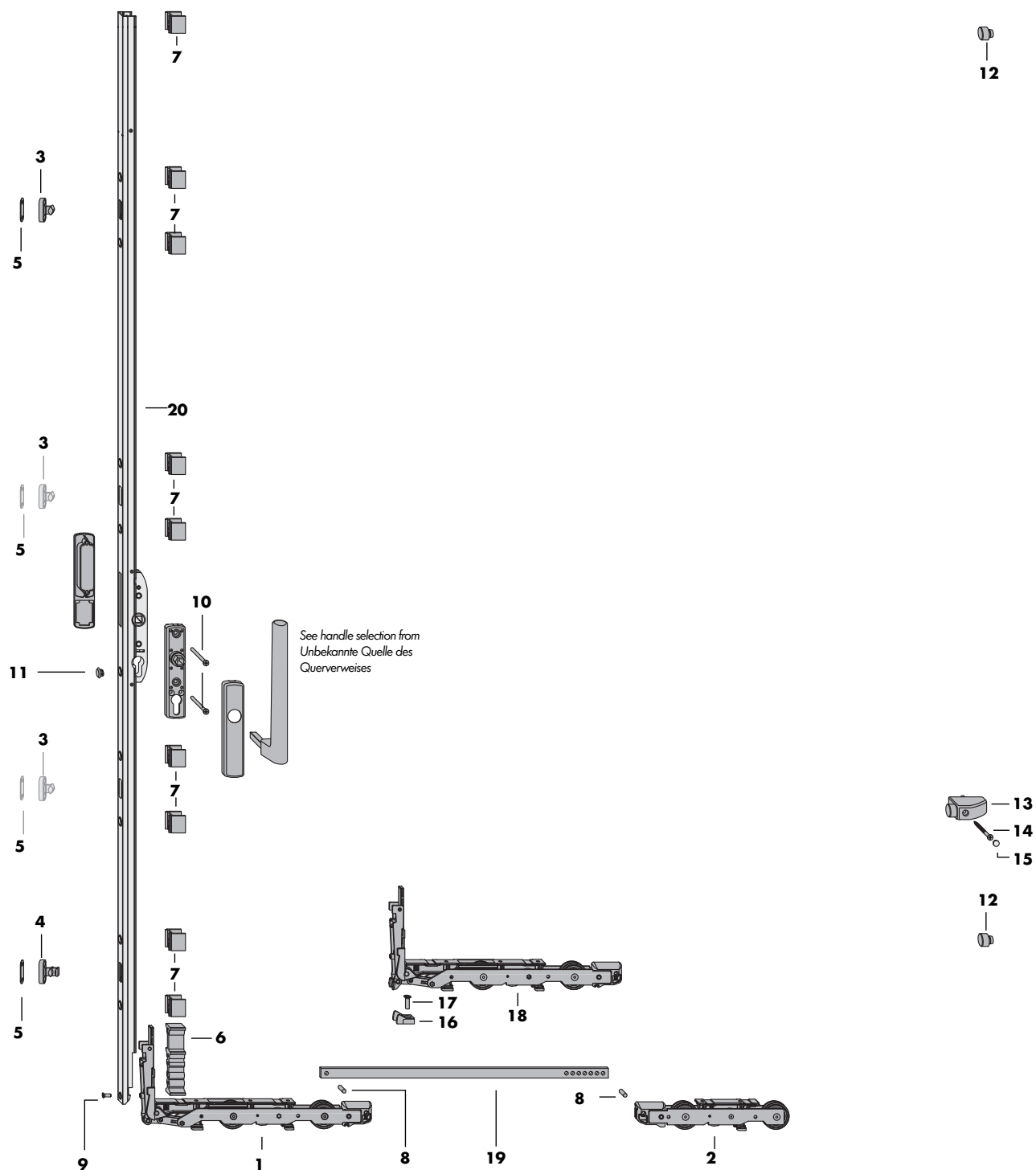


Fig. 12: HS PORTAL 300 KF with Veka AG VEKASLIDE profile

3.12.1 Veka AG VEKASLIDE size range

Veka AG VEKASLIDE				
Sash width	(mm)	760	to	3000
Sash height (sliding sash)	(mm)	1188	to	2688
Frame width	(mm)		to	6500
Frame height	(mm)	1305	to	2805
Sash weight	(kg)		max.	300
Backset (profile)	(mm)			32
Handle height (window: 1210 to 1810)	(mm)			405
Handle height (door: 1811 to 2500)	(mm)			1005

3.12.2 List of hardware for HS PORTAL 300 KF with Veka AG VEKASLIDE profile

	No.	Pieces with scheme				Material description	Material number		
		A	D	C	F		RAL 9003 white	silver	RAL 8022 brown
General requirements		1	2	2	4	Carton handle Si-line HS PORTAL 300	See handle selection from Unbekannte Quelle des Querverweises		
		1	2	2	4	Carton HS PORTAL 300 KF A0298 VEKASLIDE	PMKB4320-10001_		
						consisting of:			
	1	1	2	2	4	Corner drive VSU HS 300 KF TS			
	2	1	2	2	4	Bogie wheels HS 300 TS			
		1	2	2	4	Accessories HS KF A0017 locking parts			
	3	1	2	2	4	Locking part, top A0006			
	4	1	2	2	4	Locking part, bottom A0006			
		4	8	8	16	Countersunk tapping screw B 4.8 x 32			
	5	2	4	2 ¹⁾	6 ¹⁾	Packer HS 1 mm			
		1	2	2	4	Bag of sash parts HS KF A0017 VEKA			
	6	1	2	2	4	Distance block, bottom A0004			
	7	9	18	18	36	Distance piece, short A0004			
	8	2	4	4	8	Dowel pin 6 x 16			
	9	1	2	2	4	Countersunk screw M 5 x 13			
	10	2	4	4	8	Countersunk screw M 5 x 75			
	11	1	2	2	4	Bag closing cap grey			
	12	1	2	2	4	Bag closing cap brown			
depending on SW		9	18	18	36	Countersunk tapping screw B 4.8 x 60			
		1	2	2	4	Countersunk tapping screw B 4.8 x 50			
		6	12	12	24	Countersunk tapping screw B 4.8 x 32			
		1	1	2	2	Stop bag consisting of:	RAL 9003 white 821237	RAL 7035 grey PMZB0140-02101_	RAL 9005 black 831922
	13	1	1	2	2	Stop			
	14	1	1	2	2	Countersunk tapping screw B 4.8 x 70			
	15	1	1	2	2	Cover cap			
		-	-	1	1	Bag of locking parts HS Scheme G	238691		
						consisting of:			
	16	-	-	1	1	Locking part, bottom Scheme G			
depending on SH	17	-	-	1	1	Countersunk screw M 6 x 20			
	no illus.	-	-	1 ¹⁾	1 ¹⁾	Pan head tapping screw VW 6.3 x 38			
	18	-	-	1	1	Corner drive VSU HS 300 TS HS for scheme C and F	PEUB0030-10001_		
depending on SW						Connecting rod (Length = SW - 720)	Size	Length (in mm)	SW (in mm)
	19	1	2	2	4		150	898	760 to 1620
							200	1398	1621 to 2120
							250	1898	2121 to 2620
							335	2748	2621 to 3000
depending on SH						HS PORTAL 200 gear PZ (Length = SH - 118)	Size	Handle height (in mm)	SH (in mm)
	20	1	2	2	4		170	405	1188 to 1788
							220	1005	1789 to 2288
							260	1005	2289 to 2688

¹⁾ Actual requirement; additional parts are included in the scope of delivery.

3.13 Profialis

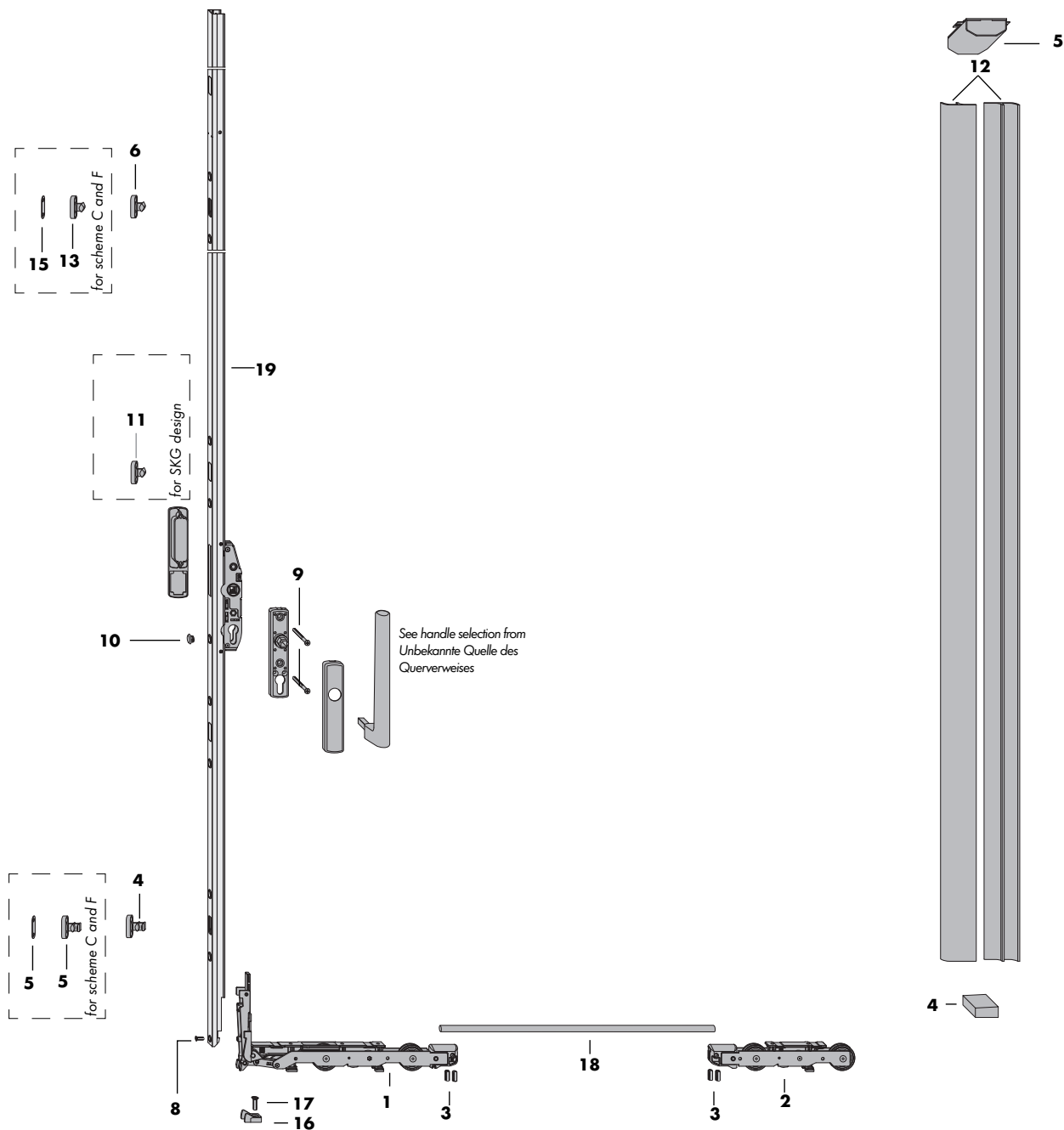


Fig. 13: HS PORTAL 300 KF with Profialis profile

3.13.1 Profialis size range

Profialis				
Sash width	(mm)	650	to	2410
Sash height (sliding sash)	(mm)	1155	to	2655
Frame width	(mm)	1312	to	4832
Frame height	(mm)	1289	to	2789
Sash weight	(kg)	max. 300		
Backset (profile)	(mm)	49.5		
Handle height (window: SH 1155 - 1755)	(mm)	Standard 411		
Handle height (door: 1755 to 2655)	(mm)	Standard 1011		

3.13.2 List of hardware for HS PORTAL 300 KF with Profialis profile

		Pieces with scheme					Material description		Material number		
No.	A SKG	D	G	C	F	RAL 9003 white			silver	RAL 8022 brown	
General requirements		1	2	1	2	4	Carton handle Si-line HS PORTAL 300		See handle selection from Unbekannte Quelle des Querverweises		
		1	2	1	2	4	Basic carton HS 300-KF consisting of:		PMKB4210-10001_		
	1	1	2	1 ¹⁾	1 ¹⁾	3 ¹⁾	VSU corner drive HS 300				
	2	1	2	1	2	4	Bogie wheels HS 300				
	3	4	8	4	8	16	Stud M 8 x 16 for connecting rod				
	4	1	1 ¹⁾	1	2	2 ¹⁾	Sealing block A0195				
	5	1	1 ¹⁾	1	2	2 ¹⁾	Sealing bridge size 3				
		1	2	1	2	4	HS PORTAL accessories KF consisting of:		310366		
	6	1	2	1 ¹⁾	1	4	Locking part, top A0012				
	7	1	2	1 ¹⁾	1	4	Locking part, bottom A0012				
		1 ¹⁾	1 ¹⁾	1 ¹⁾	1 ¹⁾	1 ¹⁾	Countersunk tapping screw 4.8 x 19				
	8	1	2	1	2	4	Bag of sash parts HS KF A0195 Profialis				
	9	1	2	1	2	4	Countersunk screw PZD M5 x 13				
	9	2	4	2	4	8	Countersunk screw M5 x 70				
	10	3	6	3	6	12	Bag closing cap RAL 7001				
	11	1	-	-	-	-	Locking part, top A0012		719398		
	12	1	1	2	2	2	Carton Sealing rails C-E FA10 Contains 2 pieces		262986		
	13	-	-	1	1	-	Locking part, top A0006		719213		
	14	-	-	1	1	-	Locking part, bottom A0006		719237		
	15	-	-	2	2	-	Packer 1 mm		721285		
	-	-	1	1	1	Bag of locking parts HS consisting of:		238691			
16	-	-	1	1	1	Bottom locking part, scheme G					
17	-	-	1	1	1	Countersunk screw M6 x 20					
	-	-	1 ¹⁾	1 ¹⁾	1 ¹⁾	Pan head tapping screw B6.3 x 38					
depending on SW	18	1	2	1	2	4	Connecting rod Ø 10 mm (Length = SW - 670)		714768 PVSE0060-10001_ PVSE0050-10001_		
							Size	Length (in mm)	SW (in mm)		
							130	1015	770 to 1600		
							200	1670	1601 to 2400		
							335	2750	2401 to 3334		
depending on SH	19	1	2	1	2	4	HS PORTAL 300 gear PZ (Length = SH - 90)		EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_		
							Size	Handle height (in mm)	SH (in mm)	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_	
							170	411	1160 to 1760	C 34 dark bronze PGKB0010-53201_ PGKB0020-53201_ PGKB0030-53201_	
							220	1011	1761 to 2260		
							260	1011	2261 to 2660		

¹⁾ Actual requirement; additional parts are included in the scope of delivery.

HS PORTAL hardware sets for aluminium elements

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3.14 RC Ekonal ES 60

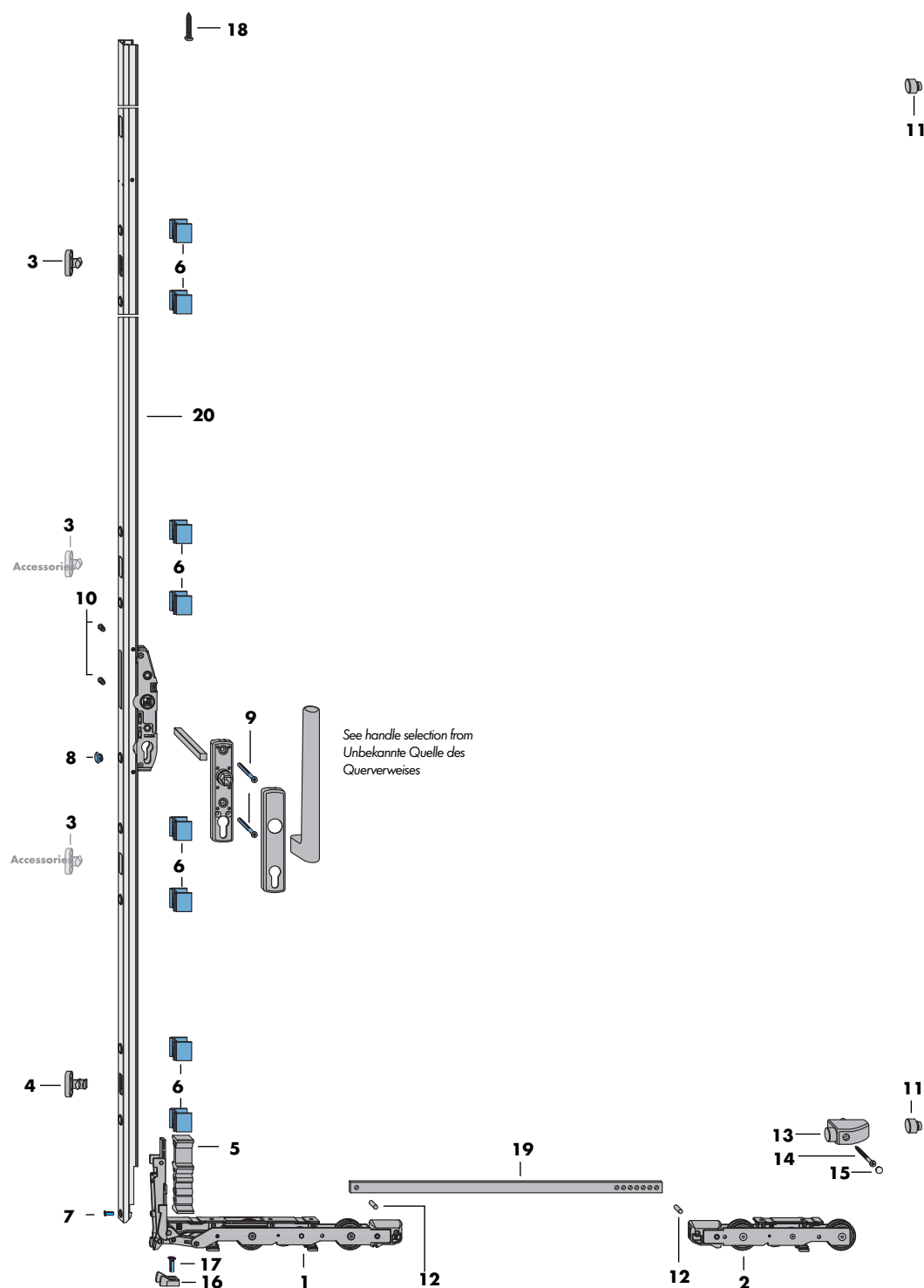


Fig. 14: HS PORTAL 300 LM with RC Ekonal ES 60 profile

3.14.1 HS PORTAL 300 LM with RC Ekonal ES 60 profile size range

RC Ekonal ES 60				
Sash width	(mm)	720	to	3350
Sash height (sliding sash)	(mm)	1190	to	2690
Frame width	(mm)	1425	to	6685
Frame height	(mm)	1276	to	2776
Sash weight	(kg)	max. 300		
Backset (profile)	(mm)	46.5		
Handle height (window: 1190 to 1790)	(mm)	407		
Handle height (door: 1790 to 2690)	(mm)	1007		

3.14.2 List of hardware for HS PORTAL 300 LM with RC Ekonal ES 60 profile

No.	PC					Material description	Material number					
	A	D	G	C	F		RAL 9016 white	silver	Si-brown			
General requirements		1	2	1	2	4	Carton handle S-line HS 300			See handle selection from Unbekannte Quelle des Querverweises PMKB7350-10001_		
		1	2	1	2	4	Carton HS PORTAL 300 LM consisting of:					
	1	1	2	1	2	4	VSU corner drive HS					
	2	1	2	1	2	4	Bogie wheels HS					
		1	2	1 ¹⁾	1 ¹⁾	3 ¹⁾	Bag of locking parts HS-LM A0114					
	3	1	2	1 ¹⁾	1 ¹⁾	3 ¹⁾	Locking part, top A0005					
	4	1	2	1 ¹⁾	1 ¹⁾	3 ¹⁾	Locking part, bottom A0005					
		1	2	1	2	4	Bag of sash parts HS-LM A0114					
	5	1	2	1	2	4	Distance block, bottom A0007					
	6	8	16	8	16	32	Distance piece, short A0007					
	7	1	2	1	2	4	Countersunk screw M5 x 13					
	8	1	2	1	2	4	Bag closing cap grey					
		1	2	1	2	4	Bag closing cap brown					
	9	2	4	2	4	8	Countersunk screw M5 x 40					
	10	2	4	2	4	8	Sleeve nut					
	11	2	4	1 ¹⁾	4	1 ¹⁾	Stop					
	12	1	2	1	2	4	Bag of screws HS-LM A0114					
		2	4	2	4	8	Dowel pin 6 x 16					
		9	18	9	18	36	Countersunk screw M5 x 50					
		1	2	1	2	4	Countersunk screw M5 x 40					
6		12	6	12	24	Countersunk screw M5 x 30						
5		10	1 ¹⁾	6 ¹⁾	16 ¹⁾	Countersunk screw M5 x 20						
13	-	1	1	-	2	Stop bag consisting of:			RAL 9003 white 821237			
	-	1	1	-	2	Stop			RAL 7035 grey PMZB0140-02101_			
	-	1	1	-	2	Countersunk tapping screw B 4.8 x 70			RAL 9005 black 831922			
	-	1	1	-	2	Cover cap						
	-	-	1	1	1	Bag of locking parts HS consisting of:			238691			
16	-	-	1	1	1	Bottom locking part, scheme G						
17	-	-	1	1	1	Countersunk screw M6 x 20						
18	-	-	1	1	1	Pan head tapping screw B6.3 x 38						
depending on SW						Connecting rod						
19	1	2	1	2	4	Size	Length (in mm)	SW (in mm)				
						150	898	720 to 1500				
						200	1398	1501 to 2000				
						250	1898	2001 to 2500				
						335	2748	2501 to 3350				
depending on SH						HS PORTAL 300 gear PZ						
	20	1	2	1	2	4	Size	Handle height (in mm)	SH (in mm)	EV 1 silver PGKB0010S2401_	EV 1 silver PGKB0010S2401_	C34 dark bronze PGKB0010S3201_
							170	407	1190 to 1790			
							220	1007	1791 to 2290	PGKB0020S2401_	PGKB0020S2401_	PGKB0020S3201_
							260	1007	2291 to 2690	PGKB0030S2401_	PGKB0030S2401_	PGKB0030S3201_

¹⁾ Actual requirement; additional parts are included in the scope of delivery.

3.15 Schüco S 120+ with HS 200

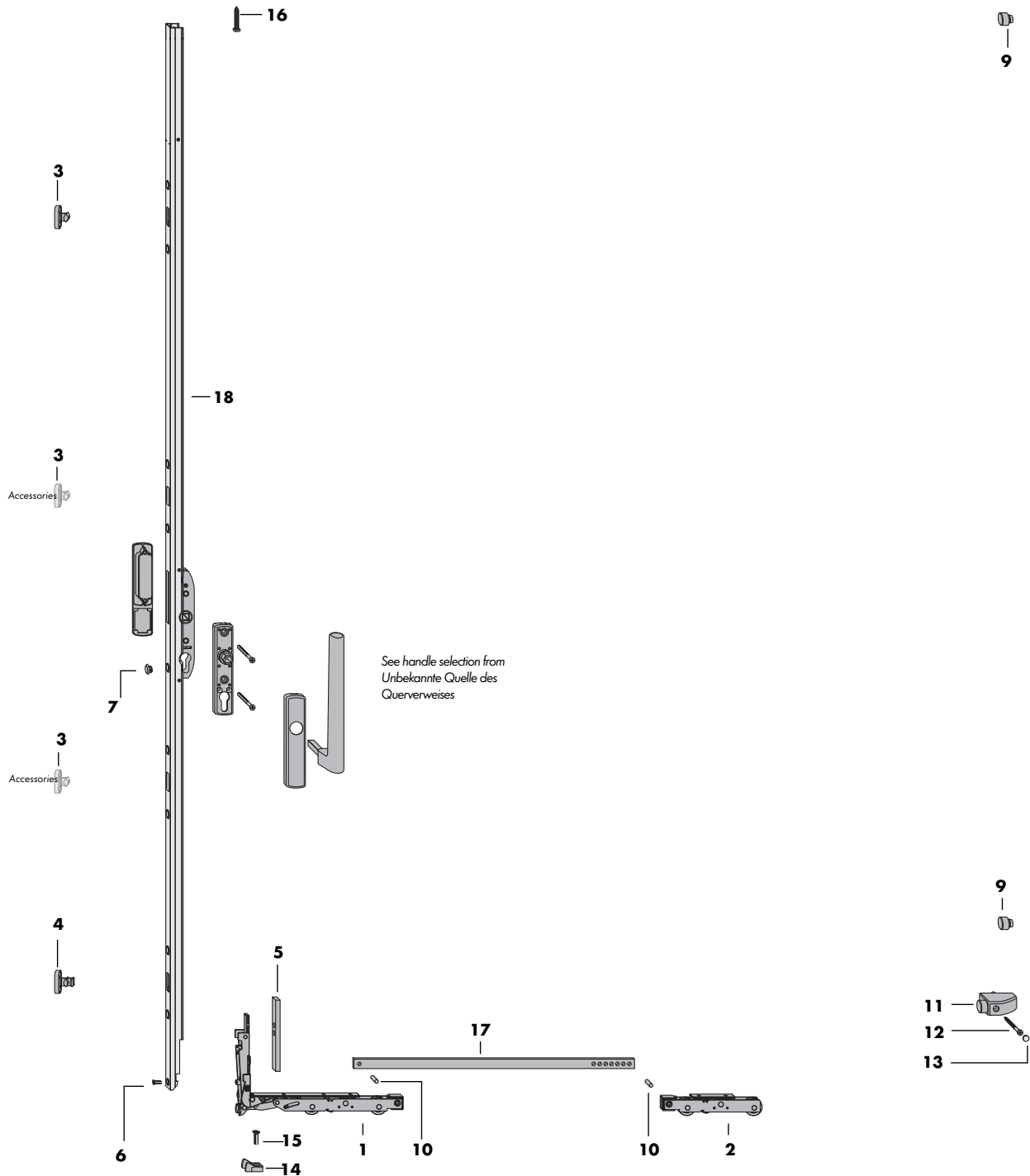


Fig. 15: HS PORTAL 200 LM with Schüco S 120+ profile

3.15.1 HS 200 LM with Schüco S 120⁺ profile size range

Schüco S 120 ⁺				
Sash width	(mm)	580	to	2500
Sash height (sliding sash)	(mm)	1150	to	2650
Frame width	(mm)	1137	to	4977
Frame height	(mm)	1217	to	2717
Sash weight	(kg)	max. 200		
Backset (profile)	(mm)	40		
Handle height (window: 1190 to 1790)	(mm)	407		
Handle height (door: 1790 to 2690)	(mm)	1007		

3.15.2 List of hardware for HS PORTAL 200 LM with Schüco S 120⁺ profile

PC							Material description	Material number			
No.	A	D	G	C	F	RAL 9016 white		EV 1 silver	RAL 8022 brown		
General requirements		1	2	1	2	4	Carton handle Si-line HS 300		See handle selection from Unbekannte Quelle des Querverweises		
		1	2	1	2	4	Carton HS PORTAL 200 LM consisting of:		PMKB7150-10001_		
	1	1	2	1	2	4	VSU corner drive	HS A0237			
	2	1	2	1	2	4	Bogie wheels	HS A0237			
		1	2	1 ¹⁾	1 ¹⁾	3 ¹⁾	Bag of locking parts HS-LM	A0237			
	3	1	2	1 ¹⁾	1 ¹⁾	3 ¹⁾	Locking part, top	A0237 KM 20			
	4	1	2	1 ¹⁾	1 ¹⁾	3 ¹⁾	Locking part, bottom	A0237 KM 20			
		4	8	1 ¹⁾	4 ¹⁾	12 ¹⁾	Countersunk tapping screw 4.8 x 32				
		1	2	1	2	4	Bag of sash parts HS 200-LM	A0237			
	5	1	2	1	2	4	Distance block, bottom	A0248 7.5 mm			
	6	1	2	1	2	4	Countersunk screw M5 x 13				
	7	1	2	1	2	4	Bag closing cap	grey			
		1	2	1	2	4	Bag closing cap	brown			
	8	2	4	2	4	8	Countersunk screw M5 x 55				
	9	2	4	1 ¹⁾	4	1 ¹⁾	Stop				
	10	2	4	2	4	8	Dowel pin 6 x 16				
		9	18	9	18	36	Countersunk tapping screw 4.8 x 38	A2			
		6	12	6	12	24	Countersunk tapping screw 4.8 x 32	A2			
		-	1	1	-	2	Stop bag consisting of:		RAL 9003 white 821237	RAL 7035 grey PMZB0140-02101_	RAL 9005 black 831922
	11	-	1	1	-	2	Stop				
12	-	1	1	-	2	Countersunk tapping screw B 4.8 x 70					
13	-	1	1	-	2	Cover cap					
	-	-	1	1	1	Bag of locking parts HS consisting of:		238691			
14	-	-	1	1	1	Bottom locking part, scheme G					
15	-	-	1	1	1	Countersunk screw M6 x 20					
16	-	-	1	1	1	Pan head tapping screw B6.3 x 38					
depending on SW						Connecting rod (Length = SW - 540)		Size	Length (in mm)	SW (in mm)	
17	1	2	1	2	4			150 TS	898	580 to 1430	
								200 TS	1398	1431 to 1930	
								250 TS	1898	1931 to 2430	
								335 TS	2748	2431 to 2500	
										719282	
										719480	
										719497	
										719725	
depending on SH						HS PORTAL 200 gear PZ (Length = SH - 80)		Size	Handle height (in mm)	SH (in mm)	
18	1	2	1	2	4			170	407	1150 to 1750	
								220	1007	1751 to 2250	
								260	1007	2251 to 2650	
								EV 1 silver PGKB0040-52401_	EV 1 silver PGKB0040-52401_	C 34 dark bronze PGKB0040-53201_	
								PGKB0050-52401_	PGKB0050-52401_	PGKB0050-53201_	
								PGKB0060-52401_	PGKB0060-52401_	PGKB0060-53201_	

¹⁾ Actual requirement; additional parts are included in the scope of delivery.

3.16 Schüco S 120+ with HS 300

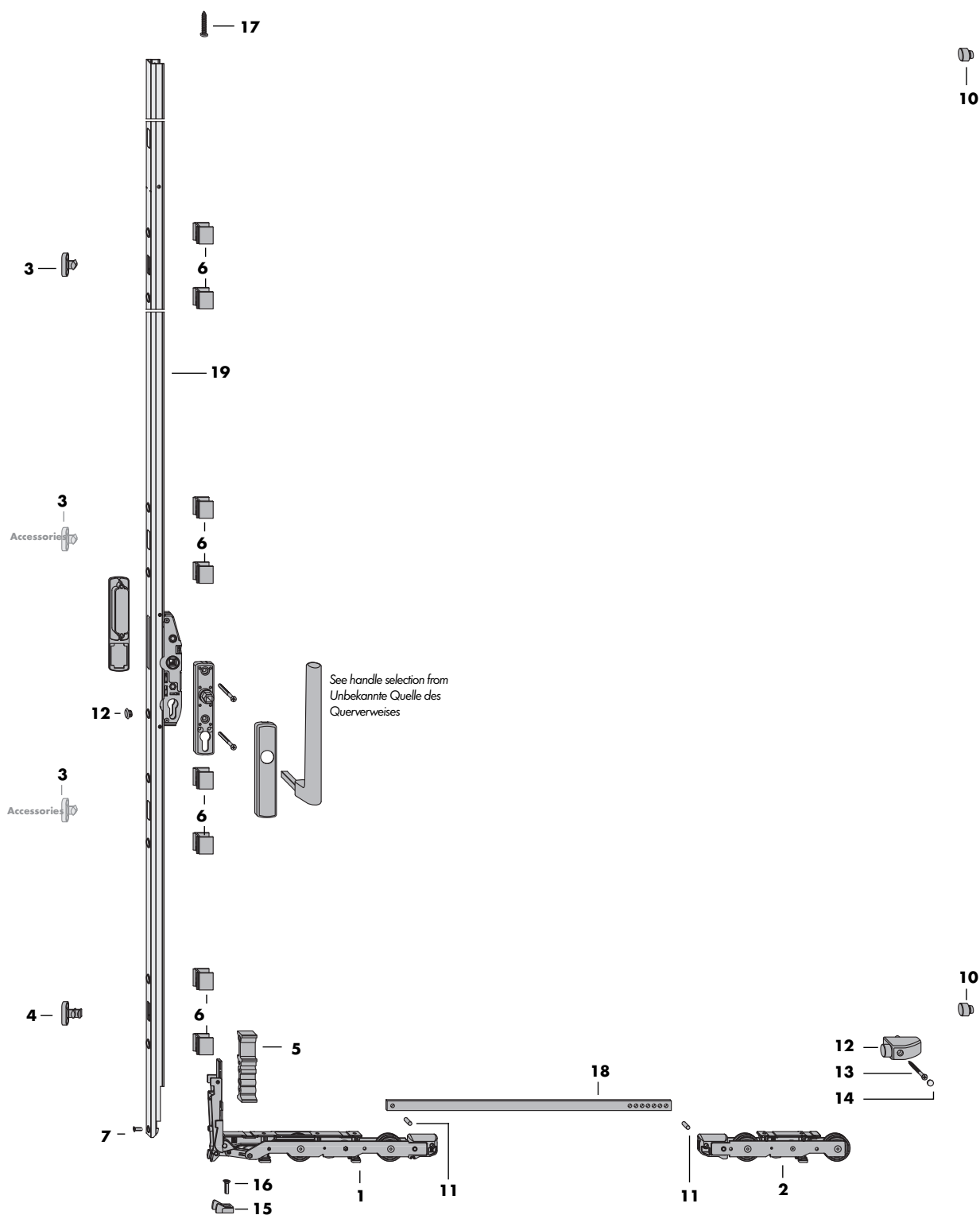


Fig. 16: HS PORTAL 300 LM with Schüco S 120+ profile

3.16.1 HS 300 LM with Schüco S 120⁺ profile size range

Schüco S 120 ⁺				
Sash width	(mm)	770	to	3350
Sash height (sliding sash)	(mm)	1150	to	2650
Frame width	(mm)	1505	to	6665
Frame height	(mm)	1217	to	2717
Sash weight	(kg)	max. 300		
Backset (profile)	(mm)	50		
Handle height (window: 1190 to 1790)	(mm)	406.5		
Handle height (door: 1790 to 2690)	(mm)	1006.5		

3.16.2 List of hardware for HS PORTAL 300 LM with Schüco S 120⁺ profile

		PC							Material number			
No.		A	D	G	C	F	Material description		RAL 9016 white	EV 1 silver	RAL 8022 brown	
General requirements		1	2	1	2	4	Carton handle Si-line HS 300		See handle selection from Unbekannte Quelle des Querverweises			
	07.201	1	2	1	2	4	Carton HS PORTAL 300 LM consisting of:		PMKB7140-10001_			
	5	1	2	1	2	4	VSU corner drive HS A0237					
	1	1	2	1	2	4	Bogie wheels HS A0237					
	2	1	2	1 ¹⁾	3 ¹⁾		Bag of locking parts HS-LM A0237					
	3	1	2	1 ¹⁾	3 ¹⁾		Locking part, top A0237 KM 20					
	4	1	2	1 ¹⁾	3 ¹⁾		Locking part, bottom A0237 KM 20					
		4	8	1 ¹⁾	4 ¹⁾	12 ¹⁾	Countersunk tapping screw B 4.8 x 32					
		1	2	1	2	4	Bag of sash parts HS 300-LM A0237					
	5	1	2	1	2	4	Distance block, bottom A0237 19 mm					
	6	8	16	8	16	32	Distance piece, short A0237 19 mm					
	7	1	2	1	2	4	Countersunk screw M5 x 13					
	8	1	2	1	2	4	Bag closing cap grey					
		1	2	1	2	4	Bag closing cap brown					
	9	2	4	2	4	8	Countersunk screw M5 x 55					
	10	2	4	1 ¹⁾	4	1 ¹⁾	Stop					
	11	2	4	2	4	8	Dowel pin 6 x 16					
		9	18	9	18	36	Countersunk tapping screw B 4.8 x 50					
		1	2	1	2	4	Countersunk tapping screw B 4.8 x 38					
		6	12	6	12	24	Countersunk tapping screw B 4.8 x 32					
		1	2	1 ¹⁾	2 ¹⁾	4 ¹⁾	B 4.8 x 19 countersunk tapping screw					
		-	1	1	-	2	Stop bag consisting of:		RAL 9003 white 821237	RAL 7035 grey PMZB0140-02101_	RAL 9005 black 831922	
12	-	1	1	-	2	Stop						
13	-	1	1	-	2	Countersunk tapping screw B 4.8 x 70						
14	-	1	1	-	2	Cover cap						
	-	-	1	1	1	Bag of locking parts HS consisting of:		238691				
15	-	-	1	1	1	Bottom locking part, scheme G						
16	-	-	1	1	1	Countersunk screw M6 x 20						
17	-	-	1	1	1	Pan head tapping screw B6.3 x 38						
depending on SW						Connecting rod (Length = SW - 730)						
	18	1	2	1	2	4	Size 150 200 250 335	Length (in mm) 898 1398 1898 2748	SW (in mm) 770 to 1620 1621 to 2120 2121 to 2620 2621 to 3350	719282 719480 719497 719725		
depending on SH						HS PORTAL 300 gear PZ (Length = SH - 80)						
	19	1	2	1	2	4	Size 170 220 260	Handle height (in mm) 407 1007 1007	SH (in mm) 1150 to 1750 1751 to 2250 2251 to 2650	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_	EV 1 silver PGKB0010-52401_ PGKB0020-52401_ PGKB0030-52401_	C 34 dark bronze PGKB0010-53201_ PGKB0020-53201_ PGKB0030-53201_

¹⁾ Actual requirement; additional parts are included in the scope of delivery.

PORTAL CATALOGUE

HS 300 handle

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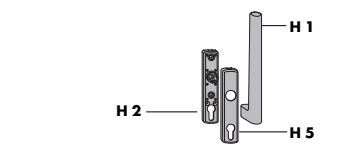
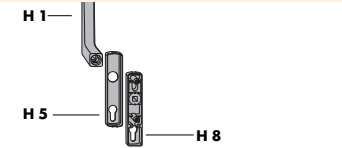
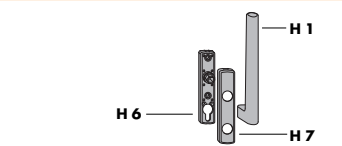
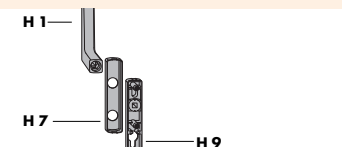
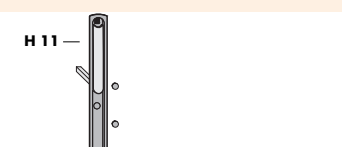
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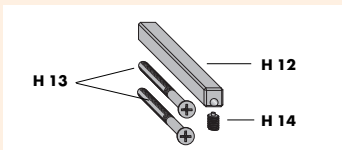
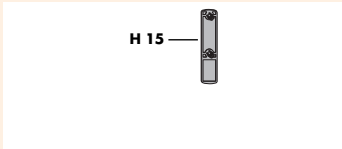
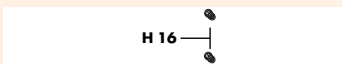
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Technical specifications and colours are subject to change.

Handle selection for HS 200, 300 and 400 elements

No.	Piece	Material description	Colour	Material number
	1	Carton handle Si-line HS PORTAL 300 consisting of:		
H 1	1	Handle HS 300 Si-line	RAL 9003 signal white	PMHB0010-50201_
H 2	1	Rose Si-line HS 300, inside	RAL 8022 black brown	PMHB0010-51201_
H 3	1	Cover cap Si-line HS 300	EV 1 silver	PMHB0010-52401_
H 4	1	Sliding grip Si-line	Antique white	PMHB0010-50701_
			C33 medium bronze	PMHB0010-53001_
			RAL 1013 pearl white	PMHB0010-50501_
			RAL 8019 grey brown	PMHB0010-51101_
			RAL 9001 cream	PMHB0010-50101_
			RAL 9010 pure white	PMHB0010-50301_
			RAL 9016 traffic white	PMHB0010-50401_
			RAL 9005 jet black	PMHB0010-52301_
			F 9 aluminium-steel colours	PMHB0010-5H401_
			Si-old gold	PMHB0010-5H001_
			Si-silver	PMHB0010-52501_
			Special colour	PMHB0010-5V001_
			Titan matt bright	PMHB0010-53401_
			Mill finish	PMHB0010-50001_
	1	Carton handle Si-line HS PORTAL 300 PZ consisting of:		
H 1	1	Handle HS 300 Si-line	RAL 9003 signal white	PMHB0020-50201_
H 2	1	Rose Si-line HS 300, inside	RAL 8022 black brown	PMHB0020-51201_
			EV 1 silver	PMHB0020-52401_
			Antique white	PMHB0020-50701_
			C33 medium bronze	PMHB0020-53001_
			RAL 1013 pearl white	PMHB0020-50501_
			RAL 8019 grey brown	PMHB0020-51101_
			RAL 9001 cream	PMHB0020-50101_
			RAL 9010 pure white	PMHB0020-50301_
			RAL 9016 traffic white	PMHB0020-50401_
			RAL 9005 jet black	PMHB0020-52301_
			F 9 aluminium-steel colours	PMHB0020-5H401_
			Si-old gold	PMHB0020-5H001_
			Si-silver	PMHB0020-52501_
			Special colour	PMHB0020-5V001_
			Titan matt bright	PMHB0020-53401_
			Mill finish	PMHB0020-50001_
H 5	1	Cover cap Si-line HS 300 PZ	RAL 9003 signal white	PMHB0110-50201_
H 4	1	Sliding grip Si-line	EV 1 silver	PMHB0110-52401_
			F 9 aluminium-steel colours	PMHB0110-5H401_
			Mill finish	PMHB0110-50001_
	1	Carton handle Si-line HS PORTAL 300 RZ A0089 consisting of:		
H 1	1	Handle HS 300 Si-line	RAL 9003 signal white	PMHB0110-50201_
H 6	1	Rose Si-line HS 300 RZ inside	EV 1 silver	PMHB0110-52401_
H 3	1	Cover cap Si-line HS 300	F 9 aluminium-steel colours	PMHB0110-5H401_
			Mill finish	PMHB0110-50001_
	1	Cover cap RZ A0089 consisting of:		
H 7	1	Cover cap Si-line HS 300 RZ A0089	RAL 9003 signal white	PKHB0060-50201_
			EV 1 silver	PKHB0060-52401_
			RAL 9005 jet black	PKHB0060-52301_
			F 9 aluminium-steel colours	PKHB0060-5H401_

No.	Piece	Material description	Colour	Material number
Carton handle Si-line HS PORTAL 300 PZ inside <i>consisting of:</i>				
<i>for lockable elements - with profile half cylinder inside and outside Only in conjunction with handle Si-line HS 300 PZ outside</i>				
H 1	1	Handle HS 300 Si-line	RAL 9003 signal white	PMHB0050-50201_
H 2	1	Rose Si-line HS 300, inside	RAL 8022 black brown	PMHB0050-51201_
			EV 1 silver	PMHB0050-52401_
			Antique white	PMHB0050-50701_
			C33 medium bronze	PMHB0050-53001_
			RAL 1013 pearl white	PMHB0050-50501_
			RAL 8019 grey brown	PMHB0050-51101_
			RAL 9001 cream	PMHB0050-50101_
			RAL 9010 pure white	PMHB0050-50301_
			RAL 9016 traffic white	PMHB0050-50401_
			RAL 9005 jet black	PMHB0050-52301_
			F 9 aluminium-steel colours	PMHB0050-5H401_
			Si-old gold	PMHB0050-5H001_
			Si-silver	PMHB0050-52501_
			Special colour	PMHB0050-5V001_
			Titan matt bright	PMHB0050-53401_
			Mill finish	PMHB0050-50001_
H 5	1	Cover cap Si-line HS 300 PZ	RAL 9003 signal white	PMHB0040-50201_
Carton handle Si-line HS PORTAL 300 PZ outside <i>consisting of:</i>				
<i>for lockable elements - with profile half cylinder inside and outside Only in conjunction with handle Si-line HS 300 PZ inside</i>				
H 1	1	Handle HS 300 Si-line	RAL 8022 black brown	PMHB0040-51201_
H 8	1	Rose Si-line HS 300 outside	EV 1 silver	PMHB0040-52401_
H 5	1	Cover cap Si-line HS 300 PZ	Antique white	PMHB0040-50701_
			C33 medium bronze	PMHB0040-53001_
			RAL 1013 pearl white	PMHB0040-50501_
			RAL 8019 grey brown	PMHB0040-51101_
			RAL 9001 cream	PMHB0040-50101_
			RAL 9010 pure white	PMHB0040-50301_
			RAL 9016 traffic white	PMHB0040-50401_
			RAL 9005 jet black	PMHB0040-52301_
			F 9 aluminium-steel colours	PMHB0040-5H401_
			Si-old gold	PMHB0040-5H001_
			Si-silver	PMHB0040-52501_
			Special colour	PMHB0040-5V001_
			Titan matt bright	PMHB0040-53401_
			Mill finish	PMHB0040-50001_
Carton handle Si-line HS PORTAL 300 PZ inside A0089 <i>consisting of:</i>				
<i>for lockable elements - with profile half cylinder inside and outside Only in conjunction with handle Si-line HS 300 RZ outside</i>				
H 1	1	Handle HS 300 Si-line	RAL 9003 signal white	PMHB0130-50201_
H 6	1	Rose Si-line HS 300 RZ inside	EV 1 silver	PMHB0130-52401_
H 7	1	Cover cap Si-line HS 300 RZ A0089	RAL 9005 jet black	PMHB0130-52301_
			F 9 aluminium-steel colours	PMHB0130-5H401_
			Mill finish	PMHB0130-50001_
Carton handle Si-line HS PORTAL 300 RZ outside A0089 <i>consisting of:</i>				
<i>for lockable elements - with profile half cylinder inside and outside Only in conjunction with handle Si-line HS 300 RZ inside</i>				
H 1	1	Handle HS 300 Si-line	RAL 9003 signal white	PMHB0120-50201_
H 9	1	Rose Si-line HS 300 RZ outside	EV 1 silver	PMHB0120-52401_
H 7	1	Cover cap Si-line HS 300 RZ A0089	RAL 9005 jet black	PMHB0120-52301_
			F 9 aluminium-steel colours	PMHB0120-5H401_
			Mill finish	PMHB0120-50001_
Carton pop up handle HS 300 inside <i>consisting of:</i>				
H 10	1	Pop up handle HS 300 inside with 40 mm spindle length	RAL 9003 signal white	PHIB0050-00201_
			RAL 8022 black brown	PHIB0050-01201_
			Si-silver	PHIB0050-02501_
			RAL 9016 traffic white	PHIB0050-00401_
			Si-middle bronze	PHIB0050-03101_
			Si-silver	PHIB0050-02501_
Carton pop up handle HS 300 inside <i>consisting of:</i>				
H 11	1	Pop up handle HS 300 inside with 100 mm spindle length	RAL 9003 signal white	PHIB0090-00201_
			RAL 8022 black brown	PHIB0090-01201_
			Si-silver	PHIB0090-02501_

No.	Piece	Material description	Colour	Material number
H 12	1	Bag of accessories HS 200/300 handle consisting of:		
H 13	2	Square spindle □ 10 mm		
H 14	1	Countersunk screw M5 x		
		Stud bolt M 6 x 8		
				677124-101
	1	Bag of accessories HS 200/300 handle for sash timber thickness 58 mm	Length of square spindle: 88 mm Countersunk screw M5 x 65	PMZB0230-10001_
	1	Bag of accessories HS 200/300 handle for sash timber thickness 68 mm	Length of square spindle: 100 mm Countersunk screw M5 x 75	PMZB0240-10001_
	1	Bag of accessories HS 200/300 handle for sash timber thickness 78 mm	Length of square spindle: 100 mm Countersunk screw M5 x 85	PMZB0250-10001_
	1	Bag of accessories HS 200/300 handle for sash timber thickness 82 mm	Length of square spindle: 120 mm Countersunk screw M5 x 90	PMZB0260-10001_
	1	Bag of accessories HS 200/300 handle for sash timber thickness 92 mm	Length of square spindle: 120 mm Countersunk screw M5 x 100	PMZB0270-10001_
	1	Bag of accessories HS 200/300 handle for sash timber thickness 50 - 92 mm (for inside and outside handle)	Length of square spindle: 168 mm Countersunk screw M5 x 100	PMZB0280-10001_
	1	Bag of accessories HS 200/300 handle for sash timber thickness 80 - 120 mm (for inside and outside handle)	Length of square spindle: 208 mm Countersunk screw M5 x 120	PMZB0490-10001_
H 15	1	Escutcheon HS 200/300 consisting of:		
		Escutcheon Siline outside		RAL 9003 signal white PHZB0030-50201_ RAL 8022 black brown PHZB0030-51201_ Si-silver PHZB0030-52501_ F 9 aluminium-steel colours PHZB0030-5H401_
H 16	2	Sleeve nut M 5 for handle fixation without sliding grip or escutcheon		800287
				

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