

Product Catalogue

05/2021

PVC-U

duoPort AS

The retract-slide fitting system.



General product information

This catalogue serves as an ordering document for the duoPort AS fitting system. It contains all the information required for placing an order. Unless otherwise defined, all dimensions are in millimetres and, in the case of packaging units, in pieces per outer packaging. The illustrations used are only symbolic. A regularly updated version of this catalogue can be found on our website.

Target group

This documentation is exclusively intended for specialist dealers and manufacturers. We would be pleased to receive any comments and advice that may help to improve our documentation.

Please send us your suggestions by e-mail to:
fenstertechnik@winkhaus.de

Tender specifications

The tender specifications for the different Winkhaus products can be provided on request and are also available at www.winkhaus.de.

Further documents

In addition to the product catalogue, the following documents are available for the duoPort AS fitting system:

- brochures
- profile-specific individual catalogues and mounting instructions
- maintenance and operating instructions
- certificates
- ordering aids
- product presentations, assembly videos

These documents can be found on our website www.winkhaus.de on downloads.

Warranty

Notes on the legal warranty are indicated in our terms and conditions of purchase. They can be sent on request and are available for download at www.winkhaus.de.

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duoPort AS

The slide system pushes window sashes up to 200 kg easily and without effort, in tandem version up to 250 kg.

The sash is synchronously pulled and placed into the parallel position from the side. The circumferential locking technique provides increased weather performance. The assembly-oriented handling and simple operation of the duoPort AS fitting system enable international and universal use.

Sturdy

The sash is axially placed into the parallel position on all sides and is synchronously pulled to the sealing plane of the frame. The circumferential sealing enables optimum weather performance. When closed, windows and patio doors are reliably protected against driving rain, high wind loads and noise. The system is therefore predestined for multi-storey buildings.

Practice-oriented

The combination with central locking system and standard drive unit with 15 mm backset ensures optimised storage. The adjustment of the contact pressure on the handle side and also on the centre stile is possible even with the sash installed. Extensive adjustment work on the construction site is thus not necessary.

User friendly

duoPort AS combines ease of movement and intuitive handling. The bogies with linear ball bearings on hardened axles are used without the need for sash treatment and ensure permanently easy closing and opening movements.

The pendulum technology of the bogies compensates for unevenness. In addition to the gap opening position, the locking system offers a high degree of tolerance during the closing process.

Secure

The circumferential gap opening position allows for a constant exchange of air. Also in this position the locking system provides basic security for the window. Mushroom head bolts lock the window sashes in the sliding direction. Massive centre stile locking devices offer an extended anti-prying protection.

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Product liability guidelines

Fittings for sliding sashes of patio doors and windows

According to the current product liability legislation dealing with a manufacturer's liability for his products (§ 4 ProdHaftG) the following information on slide fittings for window and patio door sashes must be observed. The manufacturer will not accept any liability for noncompliance with these specifications. Please also observe the guidelines issued by Gütegemeinschaft Schlosser und Beschläge e.V. (Association for Quality Control of Locks and Fittings). This information can be obtained at the following Internet address: <http://www.beschlagindustrie.de/ggsb/richtlinien.asp>

1. Product information and intended use

Slide fittings in this definition are fittings for sliding sashes of windows and patio doors that are primarily used on external units and in most cases contain glazed parts. It is possible to combine sliding sashes and fixed panels and/or further sashes, e. g. cleaning turn sashes, in one window unit.

2. Misuse

Misuse – i.e. the use of a product in a manner contrary to the intended use – of slide fittings for sashes of windows and patio doors occurs

- if obstacles are placed in the opening area preventing the intended use
- if additional charges act on sashes of windows or patio doors
- if someone grasps in the gap between the frame and sash when sliding or closing the window or if there are any persons or body parts in this area when the sash is closed.

3. Liability

The fitting as a whole must be assembled using original Winkhaus fitting components only. Winkhaus accepts no liability if non-original or unauthorised system accessory parts are used. For fixing the screws of the fitting components in a professional way please observe the corresponding sections of the mounting instructions.

4. Product performance – Manufacturer's instructions for use

The maximum sash weights listed for the individual types of fitting may not be exceeded. The component with the lowest permissible loading capacity determines the maximum weight of the sash. Please observe the diagrams and component installation instructions.

4.1 Sash sizes and application areas

The graphs in the application diagrams show the permitted sash rebate height to width ratios, as determined by different weights of glass and/or overall glass thickness. The resulting sash rebate dimensions or sash formats (portrait/landscape) as well as the maximum sash weight may under no circumstances be exceeded.

4.2 Application diagram for ascertaining the admissible sash sizes

The application diagrams for this fitting series for the determination of permissible sash sizes are described and explained separately on the following pages.

Configuration of fittings

The manufacturer's instructions with regard to the composition of fittings (e. g. number of bogies per sash to be installed, mounting of rail guides and lock device) are mandatory.

5. Product maintenance

Security-relevant fitting parts are to be inspected at least once a year to check for wear and to ensure they are firmly secured in position. Fastening screws must be tightened and faulty components must be replaced as required. In addition, maintenance/cleaning work must be carried out at least once a year. All mobile parts and locking points of fittings should be greased and tested for function. Only oils and greases not affecting the materials of the fitting may be used. The only cleaning and maintenance materials to be used are those which will not adversely affect the corrosion-resistant properties of the fitting components.



The adjustment work on the fittings as well as the replacement of parts and mounting and removal of the opening sashes must be performed by a specialist company.

6. Obligations to provide information and instructions

For the implementation of information and instruction obligations as well as for the maintenance work the following documents are available. They must be submitted to (intermediate) dealers and manufacturers and to the end customer.

Planning documentation

Product catalogues

Mounting instructions

Maintenance and care instructions as well as operating instructions

7. Use of type-related fittings

Type-related fittings with slide rollers and locking systems, e. g. fittings for slide-folding doors, must be treated in the same way with regard to product information and intended use, misuse, product performance, product maintenance and information and instruction obligations, depending on the applicable features.

8. Storage

Before the fitting components are assembled, they must be stored on a dry, protected and level surface.

Abbreviations

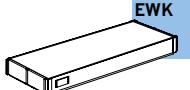
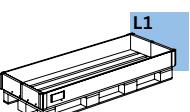
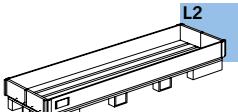
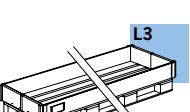
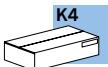
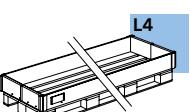
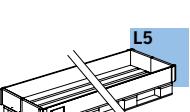
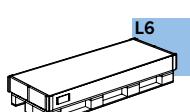
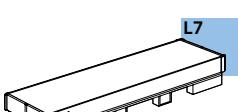
Abbreviation	Meaning
BRB	Window frame width
BRH	Window frame height
D	Backset
EG	Mortice drive
FB	Sash width
FFB	Sash rebate width
FFH	Sash rebate height
FFK	Sash rebate edge
FG	Sash weight
FH	Sash height
Gr	Size
Griff EG	Handle for mortice drive
Griff EG-S	Handle for mortice drive, lockable
Griff EG-S RC2	Handle for mortice drive, lockable, RC2
OKFF	Upper edge of ready-made floor
PzA	Profile cylinder, outside
Pzl	Profile cylinder, inside
RC2	Resistance class 2 (against burglary)
Standard	Basic security against burglary (not RC2)
HS	Lift and slide

Colours

Designation	Approximate equivalent
F1	Aluminium natural colour
RAL 9016	Traffic white
RAL 9001	Creme white
brown	Similar to RAL 8077
black	Similar to RAL 9005
C33	Medium bronze
F9	Titanium coloured
natural bright	Untreated Note: The slide and guide rail must by no means be colour coated. Only anodised surfaces are permitted.

Packing key in the Winkhaus logistics system

The shipping units were chosen in a way that our products can be handled without any problems at your works, ranging from cardboard packaging to complete pallet units. For instance, we provide KLTs (small load carriers) in different sizes which are eco-friendly and facilitate logistics. The reusable packaging units, which can be stacked on a europallet, have a bar code and enable optimal stock organisation and easy transport to the relevant workstations. The packaging used for the products in question can be found on the corresponding product pages.

 BL	BL Goods packed in PE bags with bar code	 EWK	EWK Disposable cardboard box E3, L6 or L7
 KT	KT Goods packed in cardboard boxes with bar code	 L1	L1 Reusable pallet I for long goods with frame and bar code. Pallet size 800 x 1,800 mm
 BD	BD Tied with bar code	 L2	L2 Reusable pallet II for long goods with frame and bar code. Pallet size 800 x 2,400 mm
 K3	K3 Small cardboard box with bar code. Dim: 395 x 295 x 205 mm	 L3	L3 Reusable pallet III for long goods with frame and bar code. Pallet size 800 x 3,500 mm
 K4	K4 Big cardboard box with bar code. Dim: 595 x 395 x 205 mm	 L4	L4 Reusable pallet IV for long goods with frame and bar code. Pallet size 800 x 4,200 mm
 KK	KK Small KLT (small load carrier) 4321. Dim: 400 x 300 x 214 mm with cover, bar code, sealed, stackable	 L5	L5 Reusable pallet V for long goods with frame and bar code. Pallet size 800 x 6,500 mm
 GK	GK Big KLT (small load carrier) 6412. Dim: 600 x 400 x 214 mm with cover, bar code, sealed, stackable	 L6	L6 One-way pallet with cover box for long goods with bar code Pallet size 800 x 1,800 mm
 E1	E1 Euro pallet with KLT Pallet size 800 x 1,200 mm	 L7	L7 One-way pallet with cover box for long goods with bar code Pallet size 800 x 2,400 mm
 E3	E3 One-way pallet with cover box and bar code		
 EK	EK Europallet with KLT and fixing plate (avoids shifting of goods) Pallet size 800 x 1,200 mm		
 EA	EA Europallet with frame and bar code. Pallet size 800 x 1,200 mm		

Aluplast Smart Slide

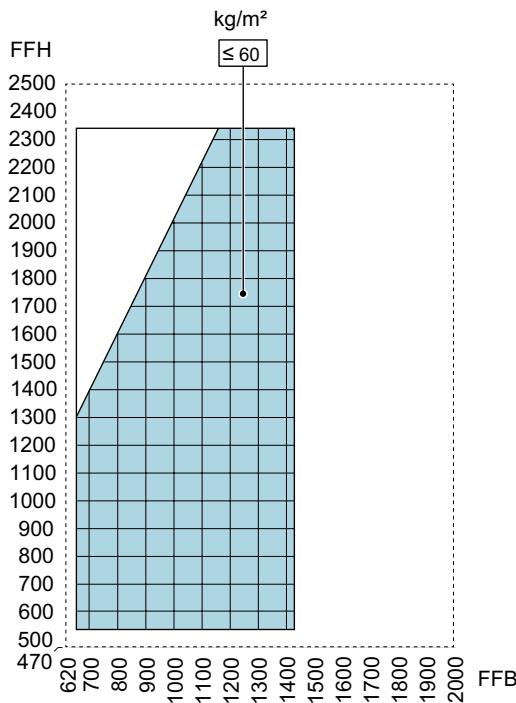
Application range

You must comply with the limits regarding application ranges specified here and not exceed them. Also take into consideration the permitted application sizes, manufacturing instructions and processing guidelines according to the profile manufacturer's specifications.

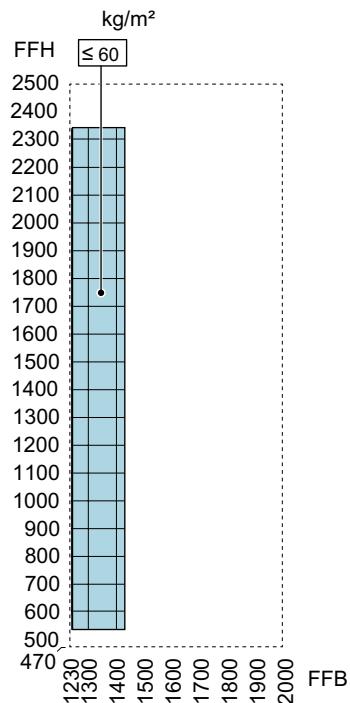
Designation	Measuring unit	Value
Sash rebate width [FFB]	[mm]	650 - 1430 (FG ≤ 200 kg) 1230 - 1430 (FG > 200 ... 250 kg)
Sash rebate height [FFH]	[mm]	530 - 2330
Sash weight [FG]	[kg]	max. 200/250

FFH : FFB = max. 2 : 1

FG ≤ 200 kg



FG > 200 ... 250 kg



= up to 60 kg/m²

Gealan Smoovio

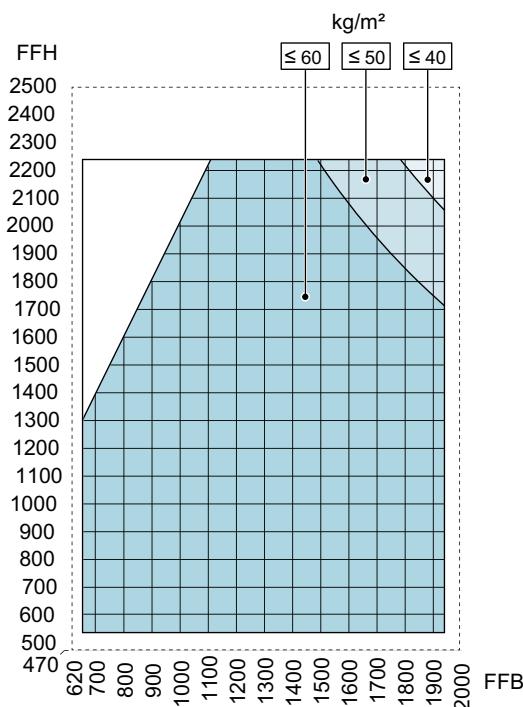
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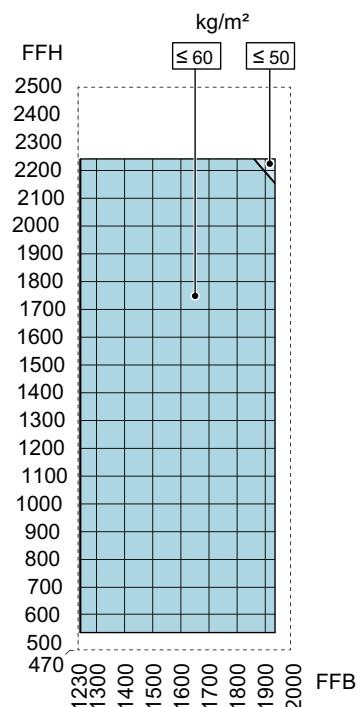
Designation	Measuring unit	Value
Sash rebate width [FFB]	[mm]	652 - 1942 (FG ≤ 200 kg) 1230 - 1942 (FG > 200 ... 250 kg)
Sash rebate height [FFH]	[mm]	532 - 2242
Sash weight [FG]	[kg]	max. 200/250

FFH : FFB = max. 2 : 1

FG ≤ 200 kg



FG > 200 ... 250 kg



= up to 40 kg/m²

= up to 50 kg/m²

= up to 60 kg/m²

Rehau Synego Slide

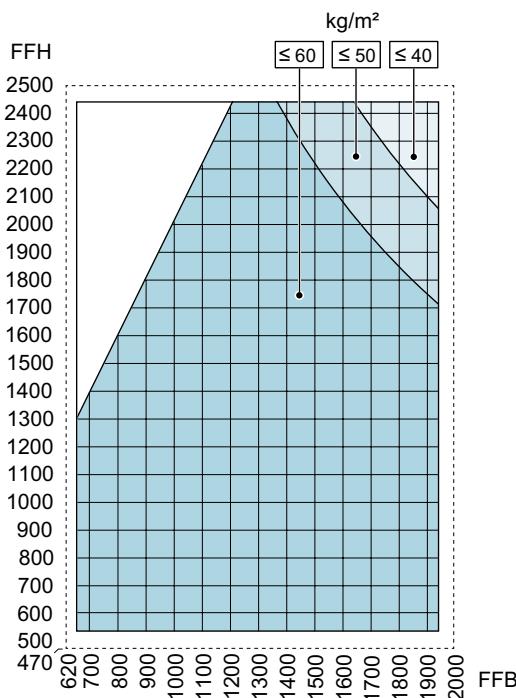
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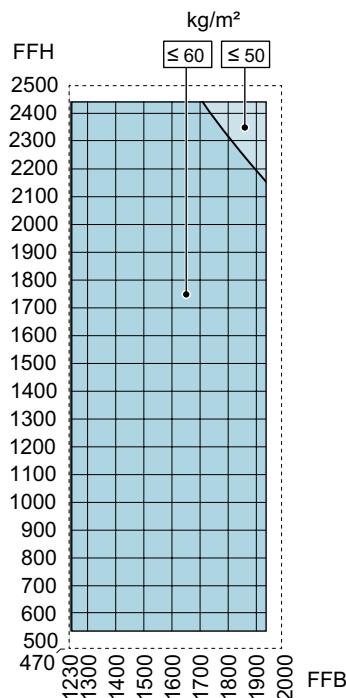
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Sash weight [FG]	[kg]	max. 200/250

FFH : FFB = max. 2 : 1

FG ≤ 200 kg



FG > 200 ... 250 kg



= up to 40 kg/m²

= up to 50 kg/m²

= up to 60 kg/m²

Salamander Evolution DrivePlus⁺

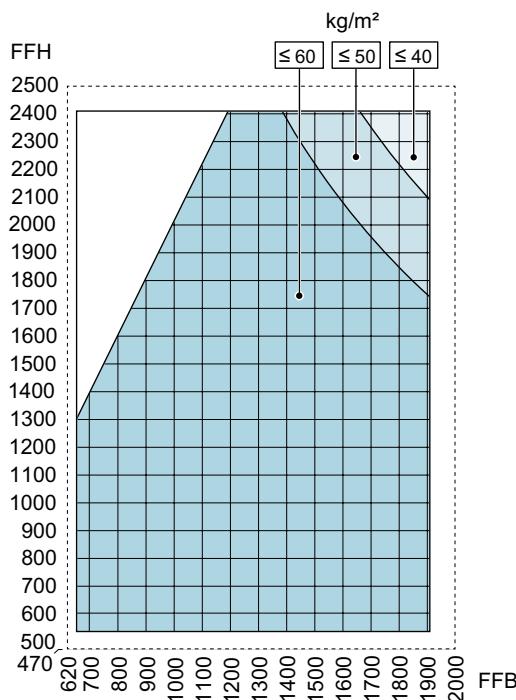
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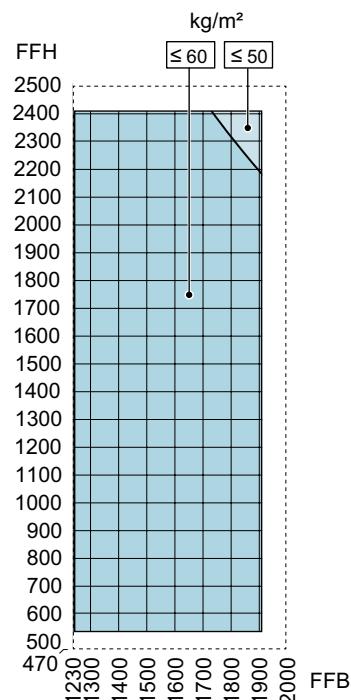
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Sash rebate height [FFH]	[mm]	534 - 2402
Sash weight [FG]	[kg]	max. 200/250

FFH : FFB = max. 2 : 1

FG ≤ 200 kg



FG > 200 ... 250 kg



= up to 40 kg/m²

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= up to 60 kg/m²

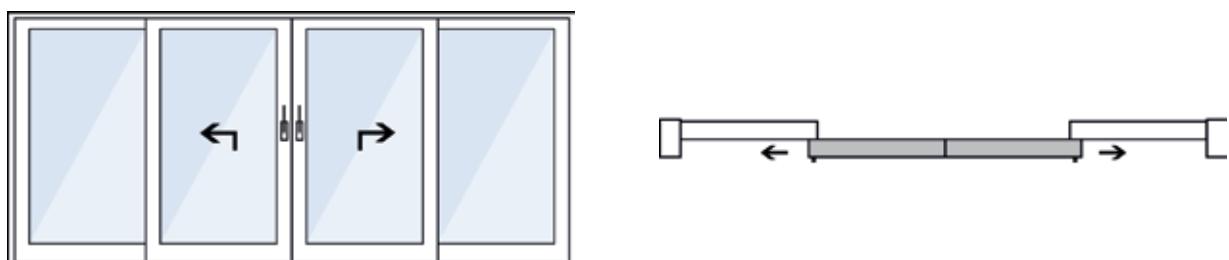
Arrangement of sashes

Overview

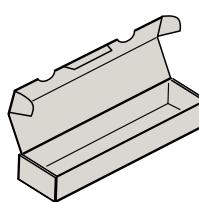
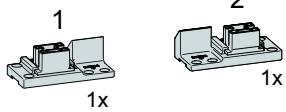
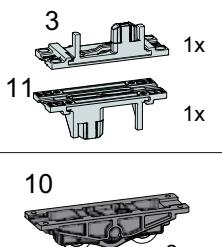
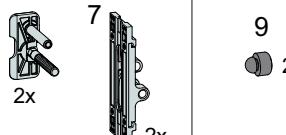
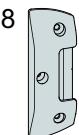
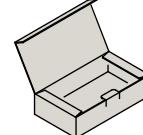
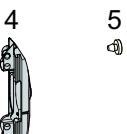
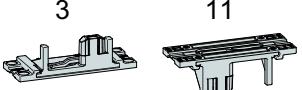
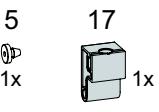
System A



System C



Packing units

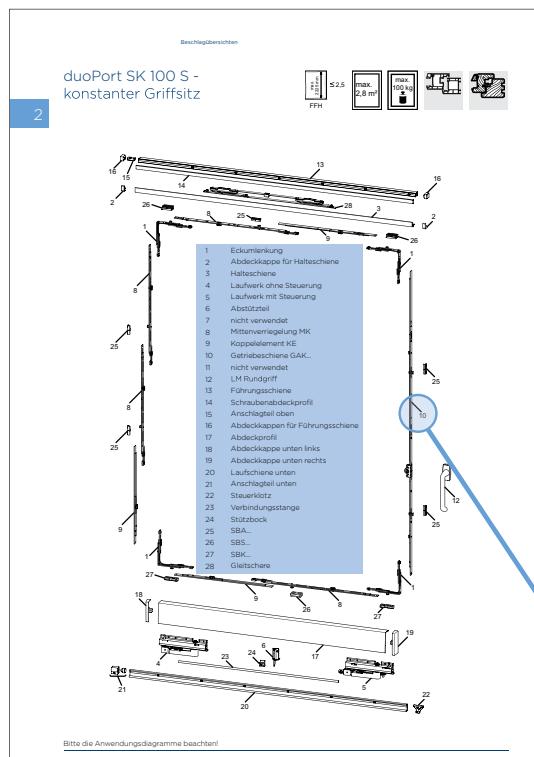
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	 6 2x 7 2x 9 2x	 10 2x	 Maintenance and operating instructions	 Operating label																					
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Fitting configuration instructions

1

Procedure

- Decide on system type (single or double sash)
- Select height and width
- Select items from the lists of fittings
- Look for the corresponding number in table (in 'item' column)
- Use the number to find the item number and the required quantity of the item on the right-hand side.
- You can find the fitting set that you need to order for the planned sliding element by matching it with the basic requirement items in the same table.



Item designation

...LS	Fitting direction left
...RS	Fitting direction right
...AGR	anthracite grey (similar to RAL 7016)
...BR	brown, (similar to RAL 8019)
...BZ-AM	bronze - antique brass
...BZ-CU	bronze - copper coloured
...BZ-RB	bronze - red brown
...CW	creme white (similar to RAL 9001)
...EV1	anodised silver
...F1	silver coloured
...F1-elox	(similar to F1) anodised silver
...F3	gold coloured
...F3-MG	gold mat
...F9	titanium coloured
...LBR	clay brown
...PW	pearl white (similar to RAL 1013)
...SG	silver grey (similar to RAL 7001)
...SGB	grey (similar to RAL 9006)
...SGR	dust grey (similar to RAL 7037)
...SL	silver look (zinc galvanised)
...SW	jet black
...WS	white (similar to RAL 9016)

Beschlagübersichten

2

Grundlauf

Grundlauf	FFH	höhe		breite		A	C	E	Z
		weit	kurz	EVI	CW				
4.5	SE7 SK.LR.1000.100 / m.	4905687	4905688	4905689	4905690	"	1	1	2
4.8	SE7 SK.LR.1000.100 / m.	4905107	4905108	4905109	4905110	2951223	4	4	9
5.1	E1						X	X	X
5.4	SBKA...						X	X	X
25							X	X	X
26							X	X	X
27	SBKA...						X	X	X
9	KE.SL						4905191	4905192	4905193
12	LM.RG...	1400849	1400850	1400851	1400852	"	1	1	2

Gehäuseabz.

Grundlauf gr. abweichen (KE aus Grundlauf + -)

Grundlauf	FFH	höhe		breite		A	C	E	Z	
		weit	kurz	EVI	CW					
8	600-710	MK.250.1								
	711-900	MK.250.1								
	941-1210	MK.500.1								
	1211-1460	MK.750.1								
	1461-1710	MK.750.1								
	1711-1960	MK.500.1								
	1961-2200	MK.750.1								
	2201-2500	MK.500.1								
	2501-2750	MK.750.1								
B	600-710	(KE aus Grundlauf + -)								
	711-900	MK.250.1								
	941-1210	MK.250.1								
	1211-1460	MK.500.1								
	1461-1710	MK.750.1								
	1711-1960	MK.500.1								
	1961-2200	MK.750.1								
	2201-2500	MK.500.1								
	2501-2750	MK.750.1								
B	600-710	(KE aus Grundlauf + -)								
	711-900	MK.250.1								
	941-1210	MK.250.1								
	1211-1460	MK.500.1								
	1461-1710	MK.750.1								
	1711-1960	MK.500.1								
	1961-2200	MK.750.1								
	2201-2500	MK.500.1								
	2501-2750	MK.750.1								
B, 2, 3, 4	600-900	SE7.GN.05.900	4905081	4905082	4905083	4905087	"	1	1	2
	901-1200	SE7.GN.05.1200	4905084	4905085	4905086	4905088	"	1	1	2
B, 2, 3, 4	1460-1960	SE7.GN.05.900	4905093	4905094	4905095	4905099	"	1	1	2
	1961-2200	SE7.GN.05.1200	4905096	4905097	4905098	4905102	"	1	1	2
	2201-2500	SE7.GN.05.1200	4905099	4905100	4905101	4905105	"	1	1	2

Bedarf nach DIN

Grundlauf

Grundlauf gr. abweichen

Bedarf nach DIN

B

B, 2, 3, 4

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* Artikel aus dem modularen extraPlus Bauteilsystem
** weitere Farbvarianten sind den folgenden Produkten zu entnehmen

X = großflächiger Bedarf

Lists of fittings

2

duoPort AS | system A, system C: 1 sash
central handle position

16 - 17

duoPort AS | system A, system C: 1 sash
constant handle position

18 - 19

duoPort AS | burglary resistant (RC2) | system A, system C: 1 sash
central handle position

20 - 21

duoPort AS | burglary resistant (RC2) | system A, system C: 1 sash
constant handle position

22 - 23

duoPort AS | system C: 2 sashes
central handle position

24 - 25

duoPort AS | system C: 2 sashes
constant handle position

26 - 27

duoPort AS | burglary resistant (RC2) | system C: 2 sashes
central handle position

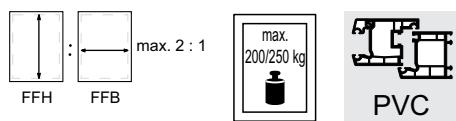
28 - 29

duoPort AS | burglary resistant (RC2) | system C: 2 sashes
constant handle position

30 - 31

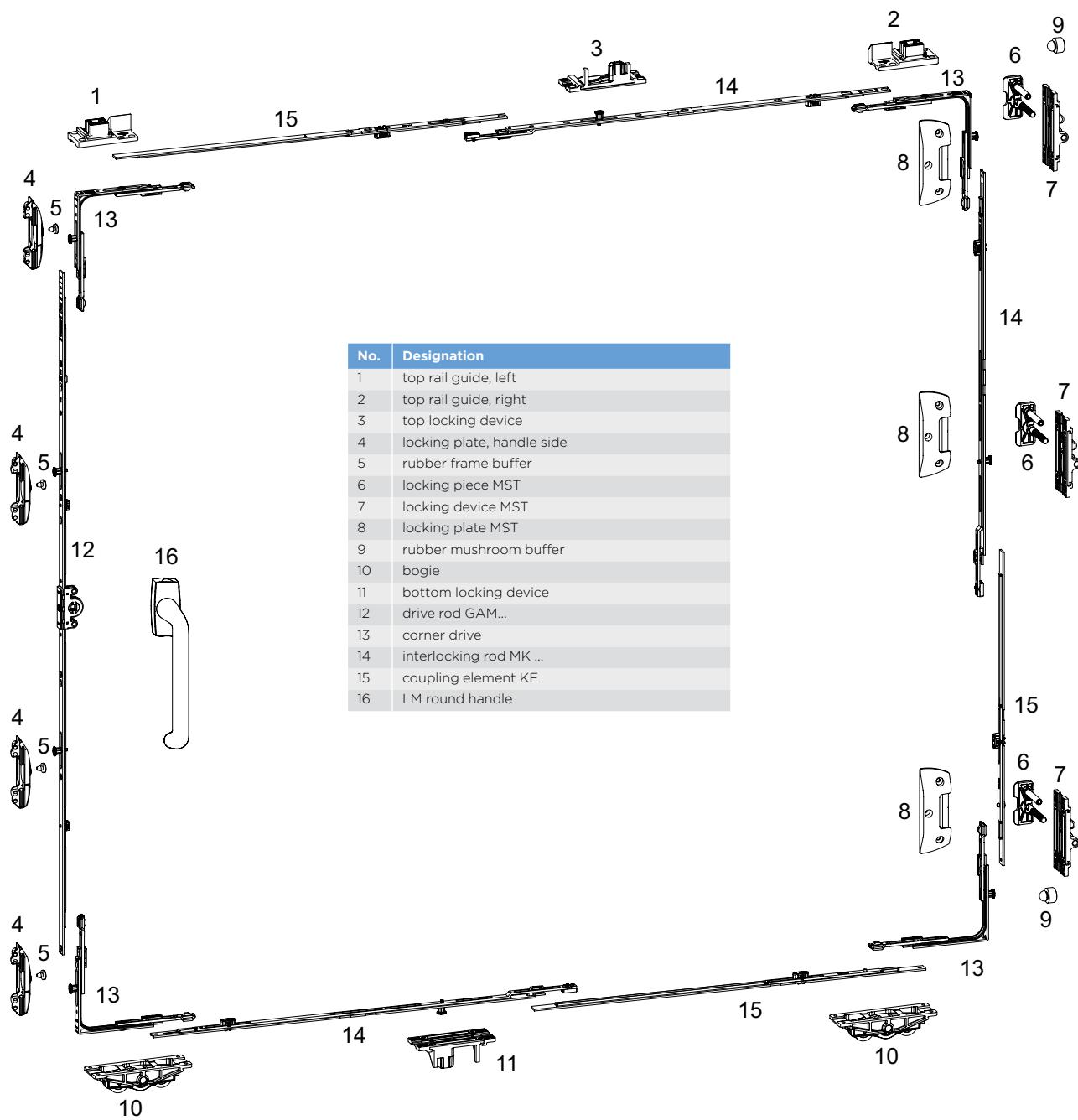


Notice: The items marked with an * in the following tables are from the modular activPilot system.



2

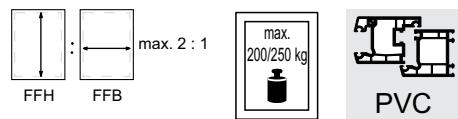
duoPort AS | system A, system C: 1 sash central handle position



Please pay attention to the application diagrams!

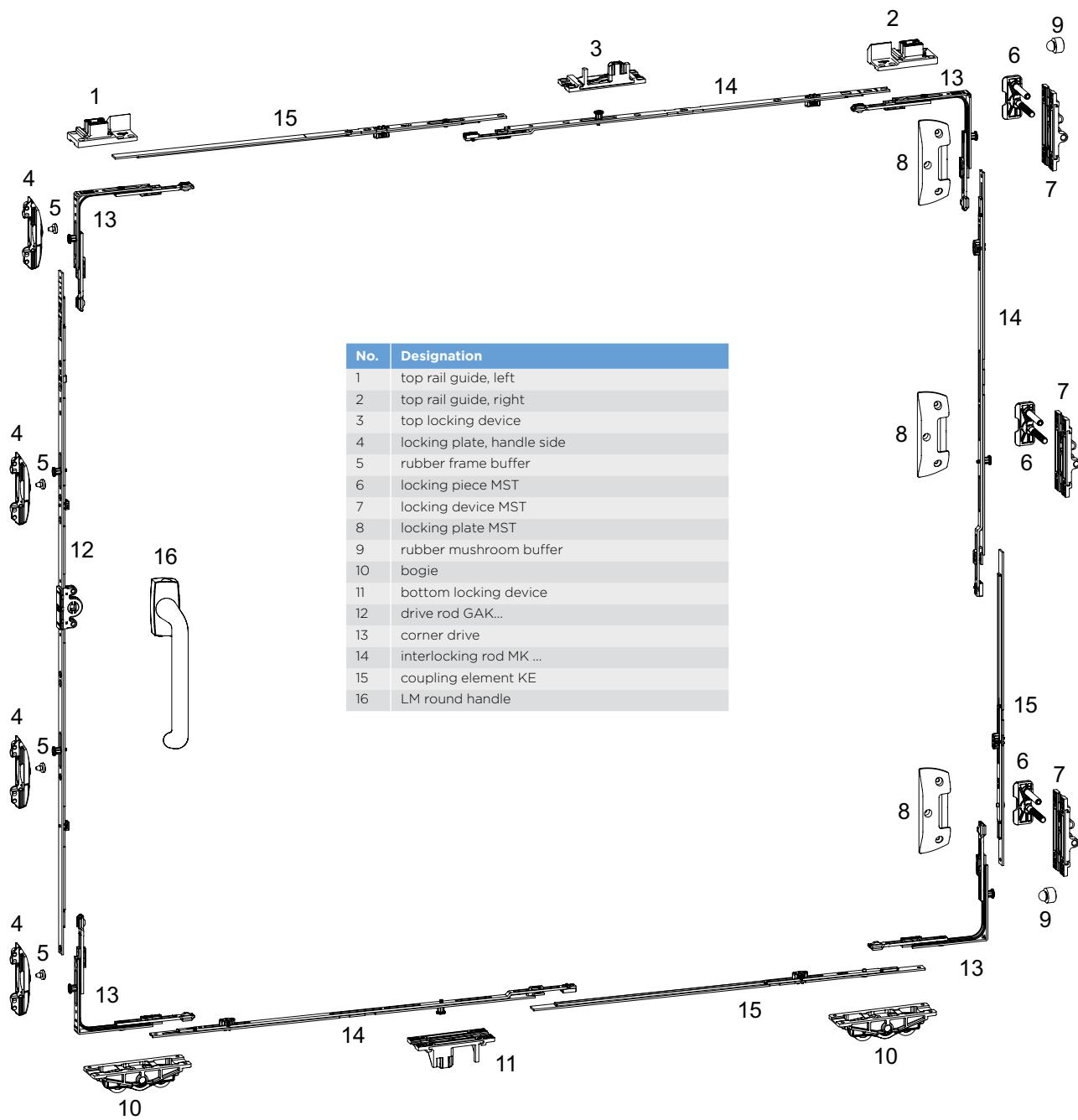
	Item	Dimensions	Item designation	Item number			Quantity
Basic requirement	FFH			left-hand	right-hand	A/C	
	1-7, 9-11		bogie, basic set	5088652	5088653	1	
	13		corner drive E1.N	5019146		4	
	15		coupling element KE SL	4982891		3	
	16		LM round handle	white	brown	EV1	
				1468449	1468318	1468300	1
	8	510 - 710 711 - 1460 1461 - 2500	bag of accessories locking plate, centre stile	profile-dependent, see group 7 Assembled sets and accessories			2 3 4
Requirement acc. to FFB	drive side						
	4, 5	801 - 1400 1401 - 1800 1801 - 2500	bag of accessories locking plate, handle side	5088679	5088680		1 2 3
	centre stile						
	6, 7	711 - 1460 1461 - 2500	bag of accessories locking device, centre stile	5088663	5088678		1 2
Requirement acc. to FFB	top/bottom						
	3,11	1461 - 2000	bag of accessories locking device, top/bottom	5088654	5088655		1
Requirement > 200 kg	10		bogie set MOVE	5088657			1
	Optional						
Requirement acc. to FFH	-		bag of accessories sash stop piece, top/bottom	white	black	grey	
	-		bag of accessories adapter plate, sash stop piece, top/bottom	5088686	1217089	5005903	1
	profile-dependent, see group 7 Assembled sets and accessories						
	drive side						
	12	510 - 800	GAM.800		*		
		801 - 1050	GAM.1050-1		*		
		1051 - 1400	GAM.1400-1		*		
		1401 - 1800	GAM.1800-2		*		
		1801 - 2300	GAM.2300-3		*		
		2301 - 2500	GAM.2300-3		*		
			MK.250-0		*		
			MK.250-0		*		
Requirement acc. to FFB	(KE from basic requirement + ...)		Opposite drive side				
	14	510 - 710	-		*		-
		711 - 960	MK.250-1		*		1
		961 - 1210	MK.500-1		*		1
		1211 - 1460	MK.750-1		*		1
		1461 - 1710	MK.500-1		*		2
		1711 - 1960	MK.500-1		*		1
		1961 - 2210	MK.750-1		*		2
		2211 - 2500	MK.500-1		*		1
			MK.750-0		*		1
			MK.750-1		*		1
Requirement acc. to FFB	(KE from basic requirement + ...)		top/bottom				
	14	710 - 960	MK.250-1		*		2
		961 - 1210	MK.500-1		*		2
		1211 - 1460	MK.750-1		*		2
		1461 - 1710	MK.500-1		*		4
		1711 - 1960	MK.500-1		*		2
		1961 - 2000	MK.750-1		*		4

* Items from the modular activPilot system



2

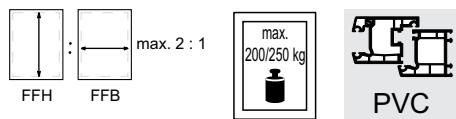
duoPort AS | system A, system C: 1 sash constant handle position



Please pay attention to the application diagrams!

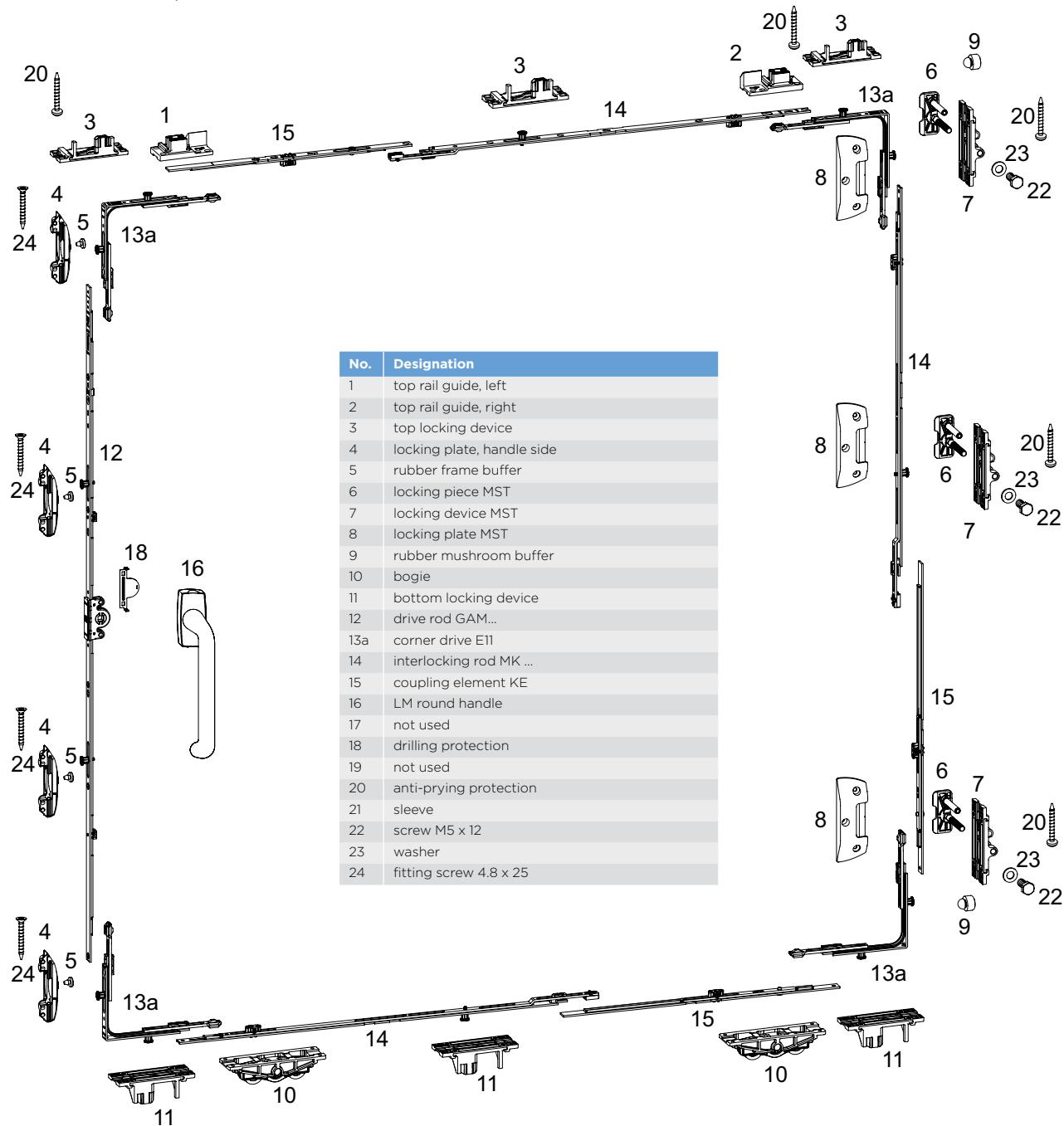
	Item	Dimensions	Item designation	Item number			Quantity
Basic requirement	FFH			left-hand	right-hand	A/C	
	1-7, 9-11		bogie, basic set	5088652		5088653	1
	13		corner drive E1.N	5019146			4
	15		coupling element KE SL	4982891			3
	16		LM round handle	white	brown	EV1	
				1468449	1468318	1468300	1
	8	510 - 710	bag of accessories locking plate, centre stile	profile-dependent, see group 7 Assembled sets and accessories			2
		711 - 1460					3
		1461 - 2500					4
Requirement acc. to FFIH	drive side						
	4, 5	701 - 1550	bag of accessories locking plate, handle side	5088679		5088680	1
		1551 - 2475					2
	centre stile						
	6, 7	711 - 1460	bag of accessories locking device, centre stile	5088663		5088678	1
		1461 - 2500					2
Requirement acc. to FFB	top/bottom						
	3,11	1461 - 2000	bag of accessories locking device, top/bottom	5088654		5088655	1
Requirement >200kg	10		bogie set MOVE	5088657			1
Optional	drive side						
	12	461 - 700	GAK.710		*		
		701 - 850	GAK.945-1		*		
		851 - 1100	GAK.1100-1		*		
		1101 - 1325	GAK.1325-1		*		
		1326 - 1550	GAK.1550-1		*		
		1551 - 1775	GAK.1775-2		*		
		1776 - 2000	GAK.2000-2		*		
		2001 - 2225	GAK.2225-2		*		
		2226 - 2475	GAK.2225-2		*		
	(KE from basic requirement + ...)						
Requirement acc. to FFH	Opposite drive side						
	14	510 - 710	-		*		-
		711 - 960	MK.250-1		*		1
		961 - 1210	MK.500-1		*		1
		1211 - 1460	MK.750-1		*		1
		1461 - 1710	MK.500-1		*		2
		1711 - 1960	MK.500-1		*		1
		1961 - 2210	MK.750-1		*		2
			MK.500-1		*		1
		2211 - 2500	MK.750-0		*		1
			MK.750-1		*		1
	(KE from basic requirement + ...)						
Requirement acc. to FFB	top/bottom						
	14	710 - 960	MK.250-1		*		2
		961 - 1210	MK.500-1		*		2
		1211 - 1460	MK.750-1		*		2
		1461 - 1710	MK.500-1		*		4
		1711 - 1960	MK.750-1		*		2
		1961 - 2000	MK.750-1		*		4

Items from the modular activPilot system



2

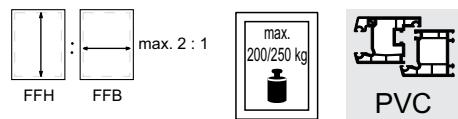
duoPort AS | burglary resistant (RC2) system A, system C: 1 sash central handle position



Please pay attention to the application diagrams!

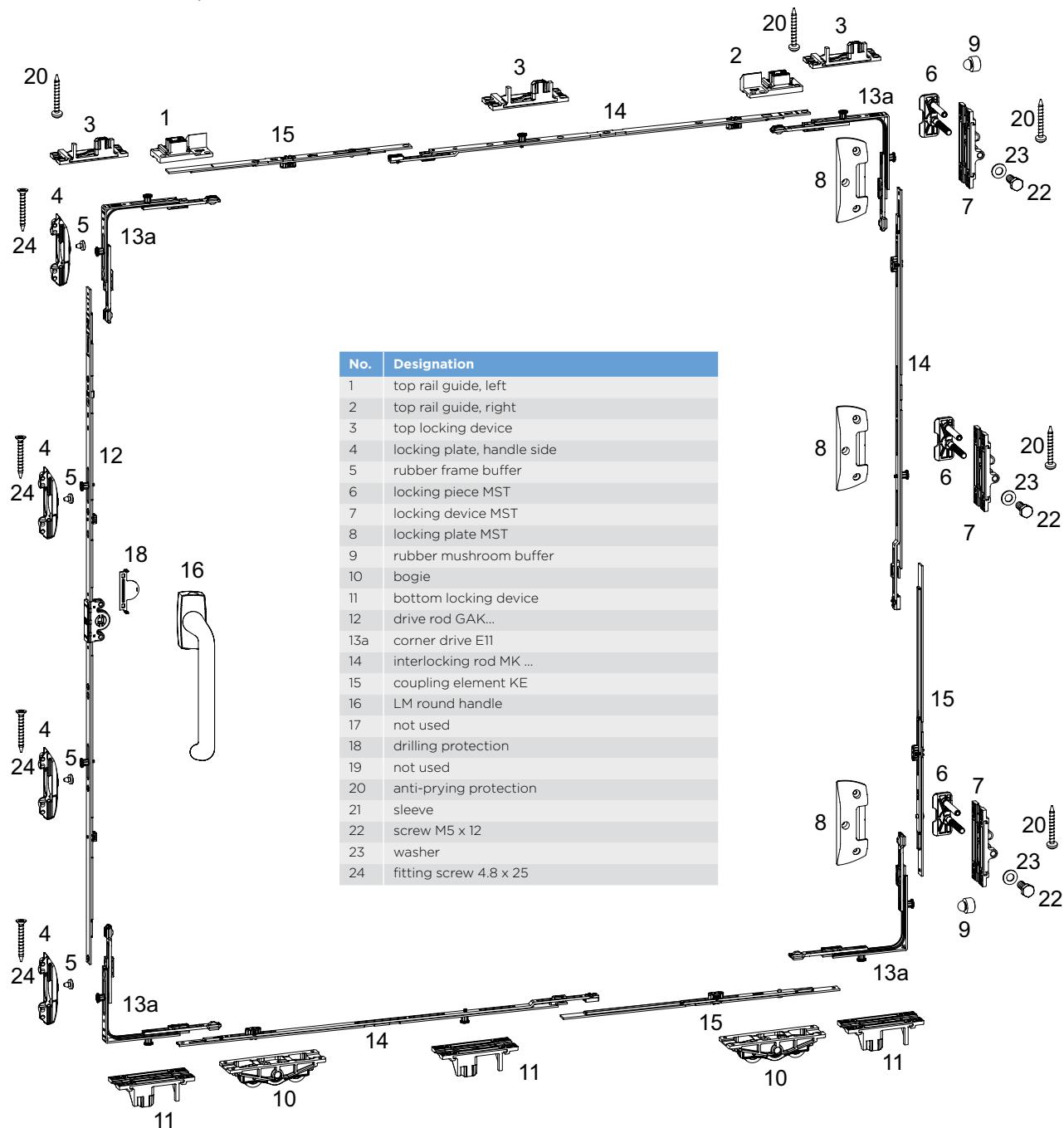
	Item	Dimensions	Item designation	Item number		Quantity
Basic requirement	FFH			left-hand	right-hand	A/C
	1-7, 9-11		bogie, basic set	5088652	5088653	1
	13a		corner drive E11.N	5051287		4
	15		coupling element KE	4982891		3
	18		drilling protection G.D.15,5	4939745		1
	20-24	510 - 710				2
		711 - 1460	bag of accessories MOVE RC2	5088684		3
		1461 - 2210				4
		2211 - 2500				5
	16		security handle			1
Requirement acc. to FFB	8	510 - 710				2
		711 - 1460	bag of accessories locking plate, centre stile	profile-dependent, see group 7 Assembled sets and accessories		3
		1461 - 2210				4
		2211 - 2500				5
	drive side					
Requirement acc. to FFB	4, 5	801 - 1400				1
		1401 - 1800	bag of accessories locking plate, handle side	5088679	5088680	2
		1801 - 2500				3
centre stile						
Requirement acc. to FFB	6, 7	711 - 1460	bag of accessories locking device, centre stile	5088663	5088678	1
		1461 - 2210				2
		2211 - 2500				3
top/bottom						
Requirement acc. to FFB	3,11	710 - 1460	bag of accessories locking device, top/bottom	5088654	5088655	2
		1461 - 2000				3
Requirement >200 kg	10		bogie set MOVE	5088657		1
Optional				white	black	grey
	-		bag of accessories sash stop piece, top/bottom	5088686	1217089	5005903
	-		bag of accessories adapter plate, sash stop piece, top/bottom	profile-dependent, see group 7		
drive side						
Requirement acc. to FFB	12	510 - 800	GAM.800		*	
		801 - 1050	GAM.1050-1		*	
		1051 - 1400	GAM.1400-1		*	
		1401 - 1800	GAM.1800-2		*	
		1801 - 2300	GAM.2300-3		*	
			GAM.2300-3		*	
		2301 - 2500	MK.250-0		*	
	(KE from basic requirement + ...)			Opposite drive side		
Requirement acc. to FFB	14	510 - 710	-		*	
		711 - 960	MK.250-1		*	1
		961 - 1210	MK.500-1		*	1
		1211 - 1460	MK.750-1		*	1
		1461 - 1710	MK.500-1		*	2
			MK.500-1		*	1
		1711 - 1960	MK.750-1		*	1
		1961 - 2210	MK.750-1		*	2
		2211 - 2500	MK.500-1		*	1
	(KE from basic requirement + ...)			top/bottom		
Requirement acc. to FFB	14	710 - 960	MK.250-1		*	2
		961 - 1210	MK.500-1		*	2
		1211 - 1460	MK.750-1		*	2
		1461 - 1710	MK.500-1		*	4
			MK.500-1		*	2
		1711 - 1960	MK.750-1		*	2
		1961 - 2000	MK.750-1		*	4

Items from the modular activPilot system *



2

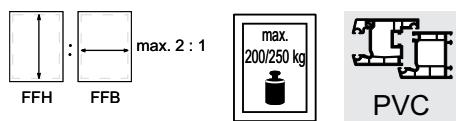
duoPort AS | burglary resistant (RC2) system A, system C: 1 sash constant handle position



Please pay attention to the application diagrams!

	Item	Dimensions	Item designation	Item number			Quantity
Basic requirement	FFH			left-hand	right-hand	A/C	
	1-7, 9-11		Bogie, basic set	5088652	5088653	1	
	13a		corner drive E11.N		5051287	4	
	15		coupling element KE		4982891	3	
	18		drilling protection G.D.15,5		4939745	1	
	20-24	510 - 710	bag of accessories MOVE RC2	5088684			2
		711 - 1460					3
		1461 - 2210					4
		2211 - 2500					5
	16		security handle				1
Requirement acc. to FFB	8	510 - 710	bag of accessories locking plate, centre stile	profile-dependent, see group 7 Assembled sets and accessories			2
		711 - 1460					3
		1461 - 2210					4
		2211 - 2500					5
		drive side					
	4, 5	701 - 1550	bag of accessories locking plate, handle side	5088679	5088680		1
		1551 - 2225					2
		2226 - 2475					3
	centre stile						
	6, 7	711 - 1460	bag of accessories locking device, centre stile	5088663	5088678		1
		1461 - 2210					2
		2211 - 2500					3
Requirement acc. to FFB	top/bottom						
	3,11	710 - 1460	bag of accessories locking device, top/bottom	5088654	5088655		2
		1461 - 2000					3
Requirement >200 kg	10		bogie set MOVE	5088657			1
Optional				white	black	grey	
	-		bag of accessories sash stop piece, top/bottom	5088686	1217089	5005903	1
	-		bag of accessories adapter plate, sash stop piece, top/bottom	profile-dependent, see group 7			1
Requirement acc. to FFB	drive side						
	14	461 - 700	GAK.710		*		
		701 - 850	GAK.945-1		*		
		851 - 1100	GAK.1100-1		*		
		1101 - 1325	GAK.1325-1		*		
		1326 - 1550	GAK.1550-1		*		
		1551 - 1775	GAK.1775-2		*		
		1776 - 2000	GAK.2000-2		*		
		2001 - 2225	GAK.2225-2		*		
		2226 - 2475	GAK.2225-2		*		
	(KE from basic requirement + ...)			MK.250-1			
Requirement acc. to FFB	Opposite drive side						
	14	510 - 710	-		*		-
		711 - 960	MK.250-1		*		1
		961 - 1210	MK.500-1		*		1
		1211 - 1460	MK.750-1		*		1
		1461 - 1710	MK.500-1		*		2
		1711 - 1960	MK.500-1		*		1
		1961 - 2210	MK.750-1		*		2
		2211 - 2500	MK.500-1		*		1
	MK.750-1				*		2
Requirement acc. to FFB	(KE from basic requirement + ...)						
	14	top/bottom					
		710 - 960	MK.250-1		*		2
		961 - 1210	MK.500-1		*		2
		1211 - 1460	MK.750-1		*		2
		1461 - 1710	MK.500-1		*		4
		1711 - 1960	MK.500-1		*		2
	MK.750-1				*		2
Requirement acc. to FFB	14	1961 - 2000	MK.750-1		*		4

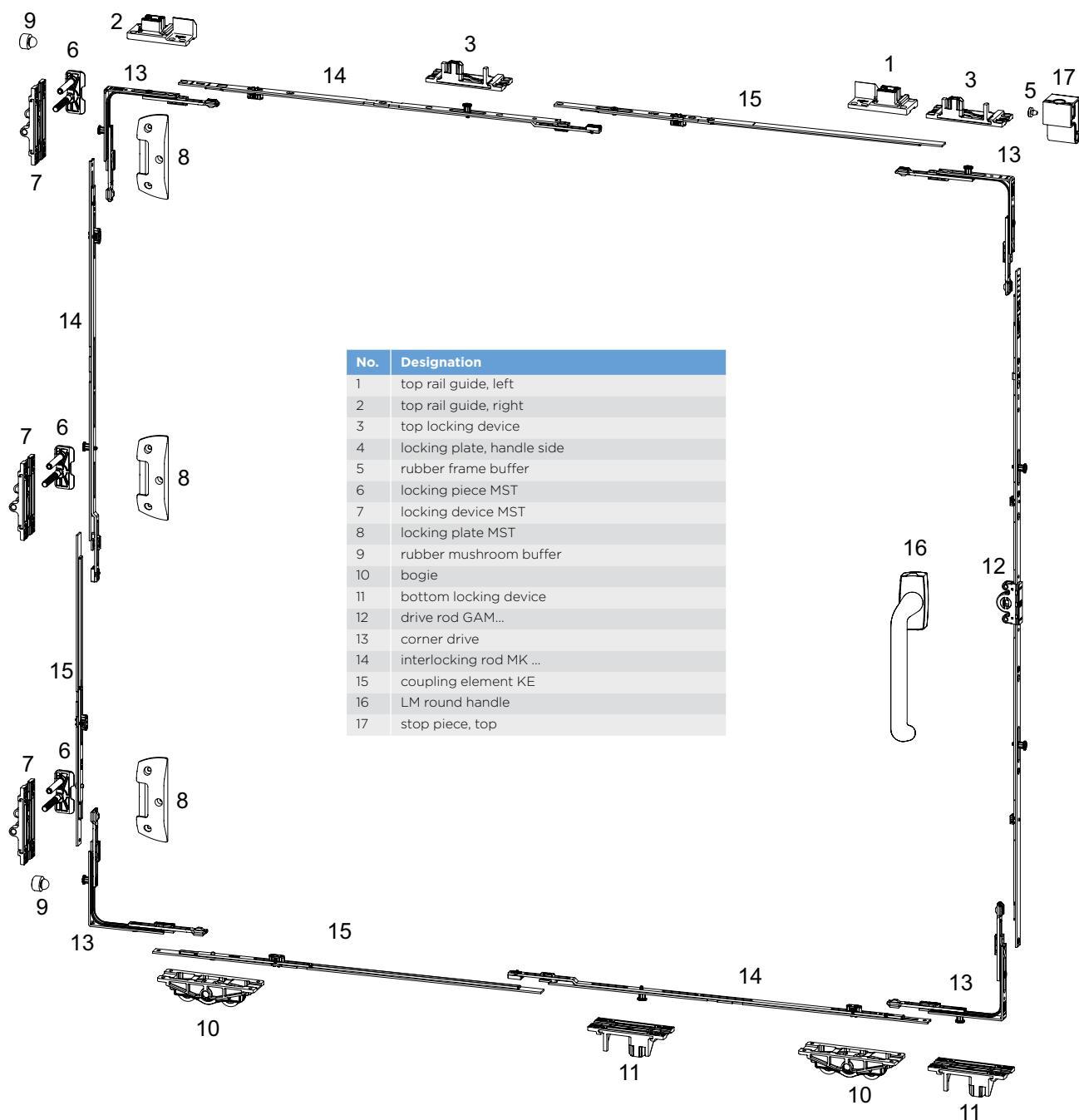
Items from the modular activPilot system



2

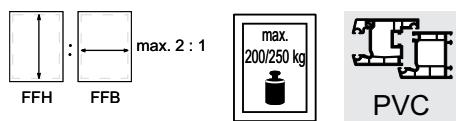
duoPort AS | system C: 2 sashes

central handle position



Please pay attention to the application diagrams!

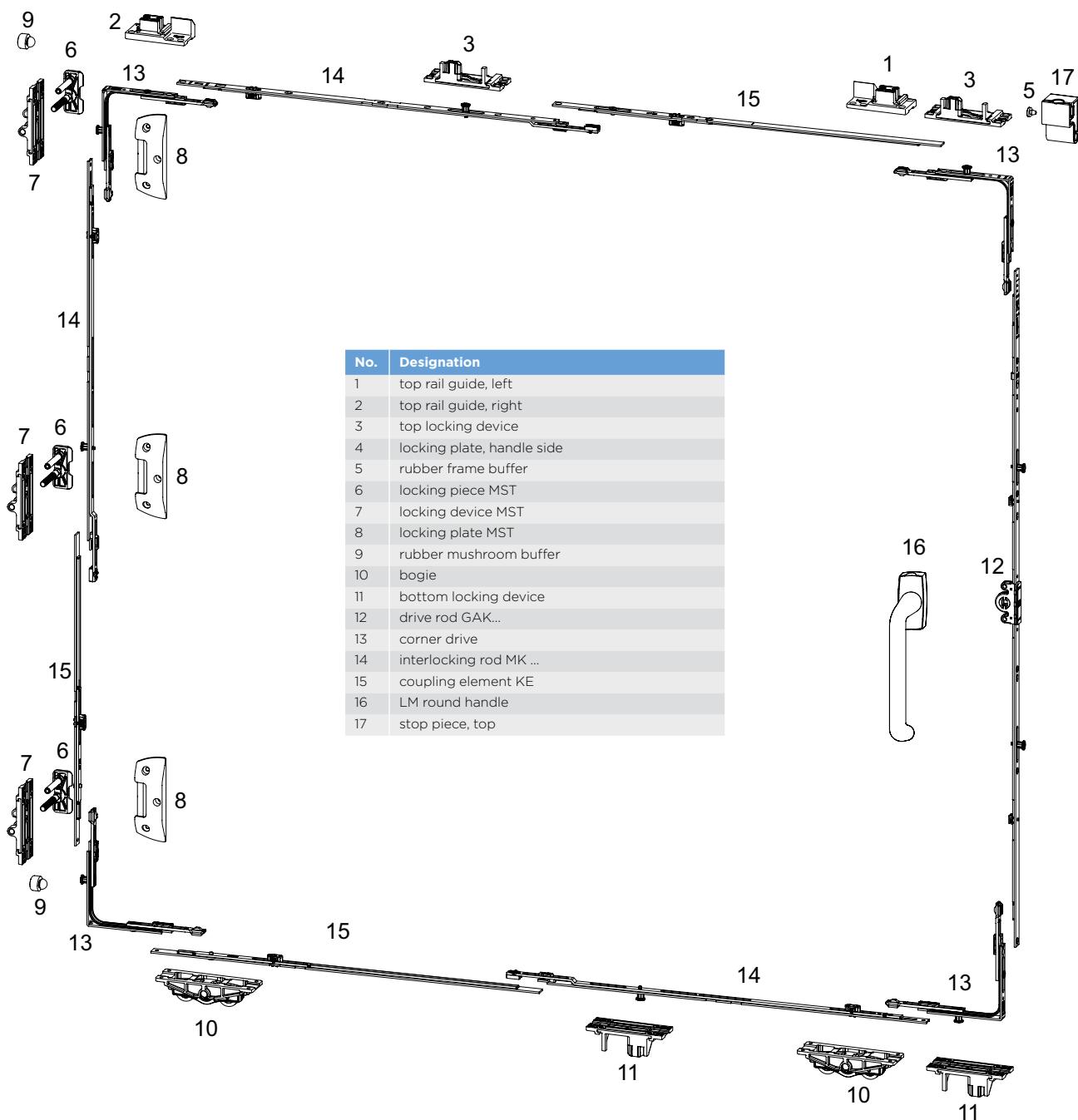
	Item	Dimensions	Item designation	Item number			Quantity	
Basic requirement	FFH			left-hand	right-hand	A/C		
	1-3,6-7,9-11		Bogie, basic set, system C	5088681	5088682		1	
	13		corner drive E1.N	5019146			4	
	15		coupling element KE	4982891			3	
	16		LM round handle	white	brown	EV1		
				1468449	1468318	1468300	1	
	8	510 - 710 711 - 1460 1461 - 2500	bag of accessories locking plate, centre stile	profile-dependent, see group 7 Assembled sets and accessories			2 3 4	
	5,17		bag of accessories top stop piece	5088683			1	
	centre stile							
Requirement acc. to FFB	top/bottom							
Requirement acc. to FFB	6, 7	711 - 1460 1461 - 2500	bag of accessories locking device, centre stile	5088663	5088678		1 2	
Requirement >200kg	top/bottom							
Requirement acc. to FFB	3,11	1461 - 2000	bag of accessories locking device, top/bottom	5088654	5088655		1	
Requirement >200kg	10		bogie set MOVE	5088657			1	
Optional	drive side							
Requirement acc. to FFH	12	510 - 800	GAM.800		*			
Requirement acc. to FFH		801 - 1050	GAM.1050-1		*			
Requirement acc. to FFH		1051 - 1400	GAM.1400-1		*			
Requirement acc. to FFH		1401 - 1800	GAM.1800-2		*			
Requirement acc. to FFH		1801 - 2300	GAM.2300-3		*			
Requirement acc. to FFH		2301 - 2500	GAM.2300-3		*			
Requirement acc. to FFH			MK.250-0		*			
Requirement acc. to FFH			MK.250-0		*			
(KE from basic requirement + ...)								
Opposite drive side								
Requirement acc. to FFH	14	510 - 710	-		*		-	
Requirement acc. to FFH		711 - 960	MK.250-1		*		1	
Requirement acc. to FFH		961 - 1210	MK.500-1		*		1	
Requirement acc. to FFH		1211 - 1460	MK.750-1		*		1	
Requirement acc. to FFH		1461 - 1710	MK.500-1		*		2	
Requirement acc. to FFH		1711 - 1960	MK.500-1		*		1	
Requirement acc. to FFH		1961 - 2210	MK.750-1		*		2	
Requirement acc. to FFH			MK.500-1		*		1	
Requirement acc. to FFH		2211 - 2500	MK.750-0		*		1	
Requirement acc. to FFH			MK.750-1		*		1	
(KE from basic requirement + ...)								
top/bottom								
Requirement acc. to FFH	14	710 - 960	MK.250-1		*		2	
Requirement acc. to FFH		961 - 1210	MK.500-1		*		2	
Requirement acc. to FFH		1211 - 1460	MK.750-1		*		2	
Requirement acc. to FFH		1461 - 1710	MK.500-1		*		4	
Requirement acc. to FFH		1711 - 1960	MK.500-1		*		2	
Requirement acc. to FFH		1961 - 2000	MK.750-1		*		2	
Requirement acc. to FFH			MK.750-1		*		4	



2

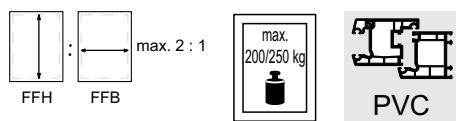
duoPort AS | system C: 2 sashes

constant handle position



Please pay attention to the application diagrams!

	Item	Dimensions	Item designation	Item number			Quantity
Basic requirement	FFH			left-hand	right-hand	A/C	
	1-3,6-7,9-11		bogie, basic set, system C	5088681	5088682		1
	13		corner drive E1.N	5019146			4
	15		coupling element KE	4982891			3
	16		LM round handle	white	brown	EV1	
				1468449	1468318	1468300	1
	8	510 - 710 711 - 1460 1461 - 2500	bag of accessories locking plate, centre stile	profile-dependent, see group 7 Assembled sets and accessories			2 3 3
	5,17		bag of accessories top stop piece	5088683			1
	centre stile						
Requirement acc. to FFB	6, 7	711 - 1460 1461 - 2500	bag of accessories locking device, centre stile	5088663	5088678		1 2
top/bottom							
Requirement acc. to FFB	3,11	1461 - 2000	bag of accessories locking device, top/bottom	5088654	5088655		1
Requirement >200kg	10		bogie set MOVE	5088657			1
Optional	9		bag of accessories sash stop piece, top/bottom	5088686	1217089	5005903	1
	-		bag of accessories adapter plate, sash stop piece, top/bottom	profile-dependent, see group 7 Assembled sets and accessories			1
drive side							
Requirement acc. to FFH	12	461 - 700	GAK.710	*			
		701 - 850	GAK.945-1	*			
		851 - 1100	GAK.1100-1	*			
		1101 - 1325	GAK.1325-1	*			
		1326 - 1550	GAK.1550-1	*			
		1551 - 1775	GAK.1775-2	*			
		1776 - 2000	GAK.2000-2	*			
		2001 - 2225	GAK.2225-2	*			
		2226 - 2475	GAK.2225-2	*			
			MK.250-0	*			
(KE from basic requirement + ...)							
Requirement acc. to FFH	14	510 - 710	-	*			-
		711 - 960	MK.250-1	*			1
		961 - 1210	MK.500-1	*			1
		1211 - 1460	MK.750-1	*			1
		1461 - 1710	MK.500-1	*			2
		1711 - 1960	MK.500-1	*			1
		1961 - 2210	MK.750-1	*			2
			MK.500-1	*			1
		2211 - 2500	MK.750-0	*			1
			MK.750-1	*			1
(KE from basic requirement + ...)							
Requirement acc. to FFB	14	710 - 960	MK.250-1	*			2
		961 - 1210	MK.500-1	*			2
		1211 - 1460	MK.750-1	*			2
		1461 - 1710	MK.500-1	*			4
		1711 - 1960	MK.500-1	*			2
		1961 - 2000	MK.750-1	*			4

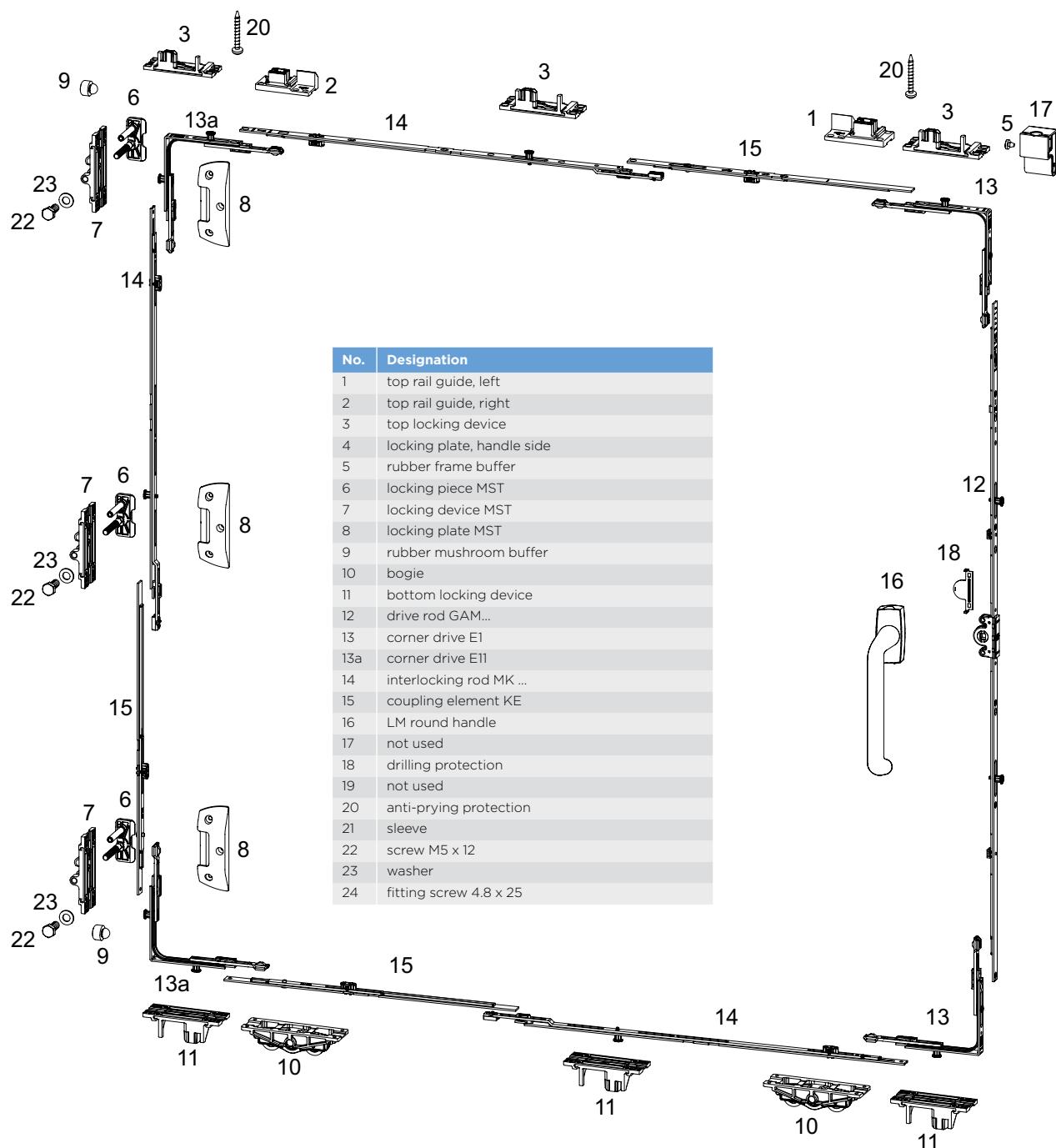


2

duoPort AS | burglary resistant (RC2)

System C 2 sashes

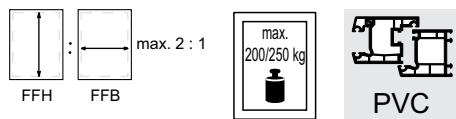
central handle position



Please pay attention to the application diagrams!

	Item	Dimensions	Item designation	Item number		Quantity
Basic requirement	FFH			left-hand	right-hand	A/C
	1-3,6-7,9-11		bogie, basic set, system C	5088681	5088682	1
	13		corner drive E1.N	5019146		2
	13a		corner drive E11.N	5051287		2
	15		coupling element KE	4982891		3
	18		drilling protection G.D.15,5	4939745		1
	20-24	510 - 710				2
		711 - 1460	bag of accessories MOVE RC2	5088684		3
		1461 - 2210				4
		2211 - 2500				5
	16		security handle			1
	8	510 - 710				2
		711 - 1460	bag of accessories locking plate, centre stile	profile-dependent, see group 7 Assembled sets and accessories		3
		1461 - 2210				4
		2211 - 2500				5
	5,17		bag of accessories top stop piece	5088683		1
Requirement acc. to FFH	centre stile					
	6, 7	711 - 1460	bag of accessories locking device, centre stile	5088663	5088678	1
		1461 - 2210				2
		2211 - 2500				3
Requirement acc. to FFB	top/bottom					
	3,11	710 - 1460	bag of accessories locking device, top/bottom	5088654	5088655	1
		1461 - 2000				2
Requirement >200 kg	10		bogie set MOVE	5088657		1
Optional				white	black	grey
	-		bag of accessories sash stop piece, top/bottom	5088686	1217089	5005903
	-		bag of accessories adapter plate, sash stop piece, top/bottom	profile-dependent, see group 7 Assembled sets and accessories		1
drive side						
Requirement acc. to FFH	12	510 - 800	GAM.800		*	
		801 - 1050	GAM.1050-1		*	
		1051 - 1400	GAM.1400-1		*	
		1401 - 1800	GAM.1800-2		*	
		1801 - 2300	GAM.2300-3		*	
		2301 - 2500	GAM.2300-3		*	
			MK.250-0		*	
			MK.250-0		*	
(KE from basic requirement + ...)						
Requirement acc. to FFH	14	510 - 710	-		*	-
		711 - 960	MK.250-1		*	1
		961 - 1210	MK.500-1		*	1
		1211 - 1460	MK.750-1		*	1
		1461 - 1710	MK.500-1		*	2
		1711 - 1960	MK.500-1		*	1
			MK.750-1		*	1
		1961 - 2210	MK.750-1		*	2
		2211 - 2500	MK.500-1		*	1
			MK.750-1		*	2
(KE from basic requirement + ...)						
Requirement acc. to FFB	14	710 - 960	MK.250-1		*	2
		961 - 1210	MK.500-1		*	2
		1211 - 1460	MK.750-1		*	2
		1461 - 1710	MK.500-1		*	4
		1711 - 1960	MK.500-1		*	2
			MK.750-1		*	2
		1961 - 2000	MK.750-1		*	4

Items from the modular activPilot system *

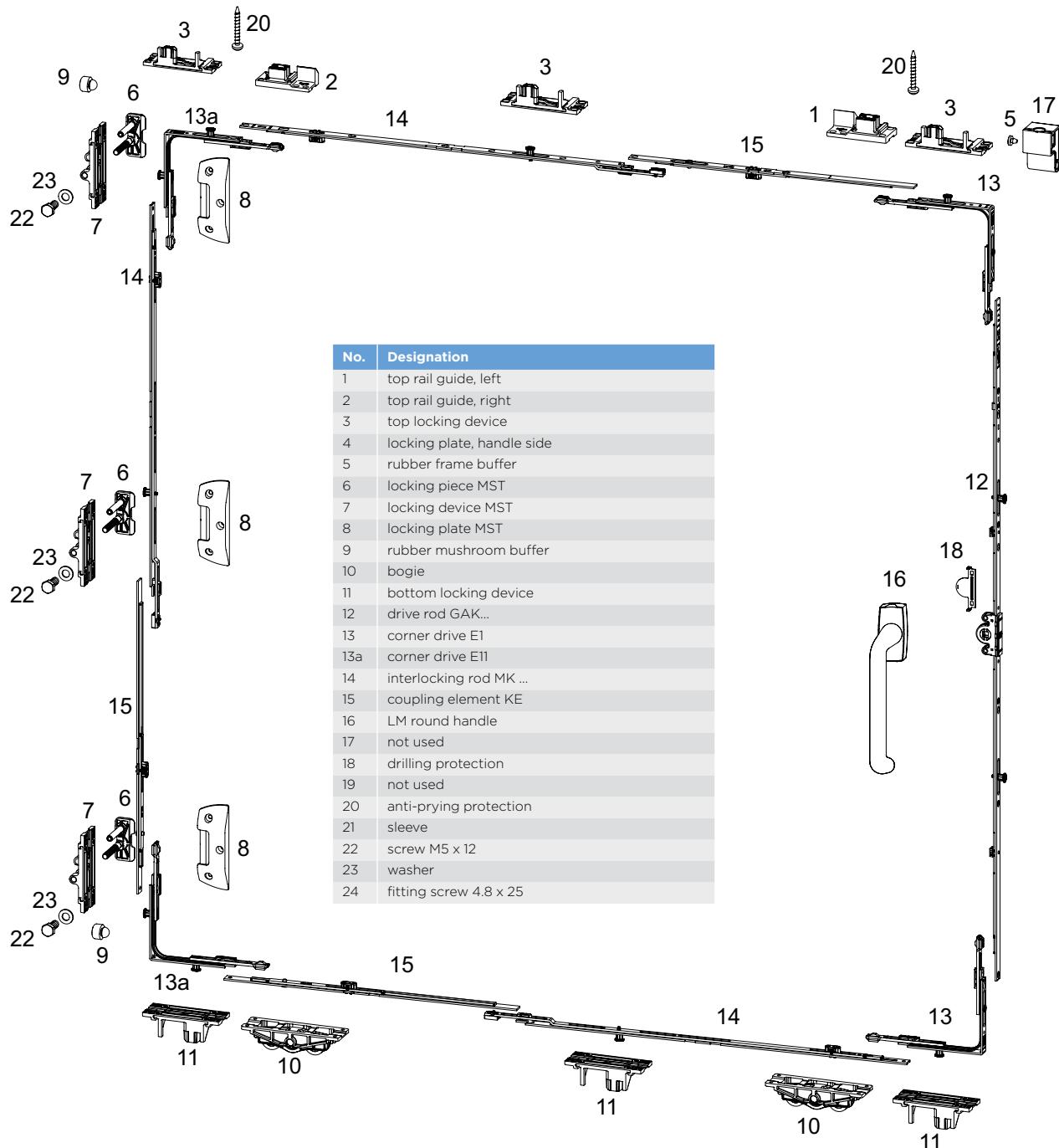


2

duoPort AS | burglary resistant (RC2)

System C 2 sashes

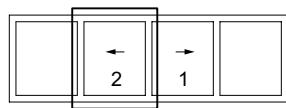
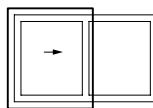
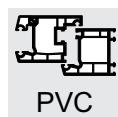
constant handle position



Please pay attention to the application diagrams!

	Item	Dimensions	Item designation	Item number		Quantity
Basic requirement	FFH			left-hand	right-hand	A/C
	1-3,6-7,9-11		bogie, basic set, system C	5088681	5088682	1
	13		corner drive E1.N	5019146		2
	13a		corner drive E11.N	5051287		2
	15		coupling element KE	4982891		3
	18		drilling protection G.D.15,5	4939745		1
	20-24	510 - 710				2
		711 - 1460	bag of accessories MOVE RC2		5088684	3
		1461 - 2210				4
		2211 - 2500				5
	16		security handle			1
Requirement acc. to FFH	8	510 - 710				2
		711 - 1460	bag of accessories locking plate, centre stile	profile-dependent, see group 7		3
		1461 - 2210		Assembled sets and accessories		4
		2211 - 2500				5
	5		bag of accessories top stop piece	5088683		1
Requirement acc. to FFB	centre stile					
	6, 7	711 - 1460	bag of accessories locking device, centre stile	5088663	5088678	1
		1461 - 2210				2
		2211 - 2500				3
Requirement acc. to FFB	top/bottom					
	3,11	710 - 1460	bag of accessories locking device, top/bottom	5088654	5088655	1
		1461 - 2000				2
Requirement >200kg	10		bogie set MOVE	5088657		1
Optional				white	black	grey
	-		bag of accessories sash stop piece, top/bottom	5088686	1217089	5005903
	-		bag of accessories adapter plate, sash stop piece, top/bottom	profile-dependent, see group 7, assembled sets		1
drive side						
Requirement acc. to FFH	12	461 - 700	GAK.710	*		
		701 - 850	GAK.945-1	*		
		851 - 1100	GAK.1100-1	*		
		1101 - 1325	GAK.1325-1	*		
		1326 - 1550	GAK.1550-1	*		
		1551 - 1775	GAK.1775-2	*		
		1776 - 2000	GAK.2000-2	*		
		2001 - 2225	GAK.2225-2	*		
		2226 - 2475	GAK.2225-2	*		
			MK.250-0	*		
(KE from basic requirement + ...)						
Requirement acc. to FFB	14	510 - 710	-	*		-
		711 - 960	MK.250-1	*		1
		961 - 1210	MK.500-1	*		1
		1211 - 1460	MK.750-1	*		1
		1461 - 1710	MK.500-1	*		2
			MK.500-1	*		1
		1711 - 1960	MK.750-1	*		1
		1961 - 2210	MK.750-1	*		2
			MK.500-1	*		1
		2211 - 2500	MK.750-1	*		2
(KE from basic requirement + ...)						
Requirement acc. to FFB	14	710 - 960	MK.250-1	*		2
		961 - 1210	MK.500-1	*		2
		1211 - 1460	MK.750-1	*		2
		1461 - 1710	MK.500-1	*		4
			MK.500-1	*		2
		1711 - 1960	MK.750-1	*		2
		1961 - 2000	MK.750-1	*		4

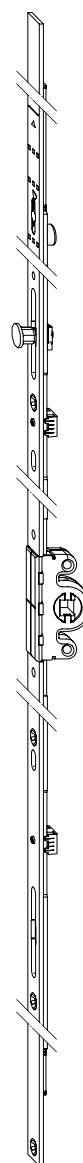
Items from the modular activPilot system



3

Drive rod GAK

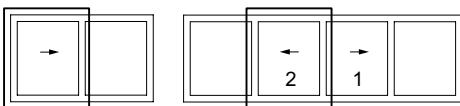
- Constant handle position GK
- Backset 15.5 mm
- Clampable in fitting groove
- Handle position with reference to the sash rebate edge, in conformity with "dimension GK" (see table)
- Gear case for milling from rebate
- Gear case for mounting in drilled hole
- Window handle attachment with M5 x ..., DIN 965, 43 mm screw interval



Article designation	Article no.	Application range		Dim. GK	DFE	TFE	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
GAK.465	4926221	FFH 420 - 520	0	210			10 BD	100 KK	800 EK
GAK.710	4926207	FFH 460 - 710	1	210			20 BD	600 EA	
GAK.830	4926230	FFH 580 - 830	2	260			20 BD	600 EA	
GAK.830-1	4926231	FFH 580 - 830	2	260			20 BD	600 EA	
GAK.945	4926208	FFH 695 - 945	3	260	•	•	20 BD	400 EA	
GAK.945-1	4926209	FFH 695 - 945	3	260	•	•	20 BD	400 EA	
GAK.1100-1	4926234	FFH 850 - 1100	3	375	•	•	20 BD	360 EA	
GAK.1195-1	4926236	FFH 945 - 1195	4	470	•	•	20 BD	360 EA	
GAK.1195-2	4926237	FFH 945 - 1195	4	470	•	•	20 BD	360 EA	
GAK.1325-1	4978659	FFH 1075 - 1325	4	550	•	•	20 BD	360 EA	
GAK.1325-1G500	4937485	FFH 1075 - 1325	5	500	•	•	20 BD	360 EA	
GAK.1325-2	4978670	FFH 1075 - 1325	4	550	•	•	20 BD	360 EA	
GAK.1550-1	4926224	FFH 1300 - 1550	5	550	•	•	10 BD	360 L1	
GAK.1550-2	4926225	FFH 1300 - 1550	5	550	•	•	10 BD	360 L1	
GAK.1775-2	4926228	FFH 1525 - 1775	7	550	•	•	10 BD	400 L1	
GAK.1775-3	4926229	FFH 1525 - 1775	7	550	•	•	10 BD	400 L1	
GAK.1850-2	5000529	FFH 1600 - 1850	7	715	•	•	10 BD	360 L1	
GAK.2000-2	4938089	FFH 1750 - 2000	8	1050	•	•	10 BD	360 L2	
GAK.2000-4	4938120	FFH 1750 - 2000	8	1050	•	•	10 BD	360 L2	800 EU2
GAK.2225-2	4938122	FFH 1975 - 2225	9	1050	•	•	10 BD	360 L2	
GAK.2225-4	4938123	FFH 1975 - 2225	9	1050	•	•	10 BD	360 L2	800 EU2
GAK.2450-4	5021551	FFH 2200 - 2450	10	1050	•	•	10 BD	360 L2	

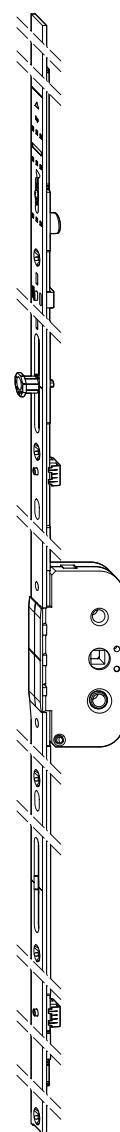


PVC



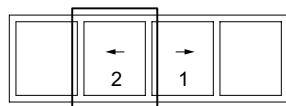
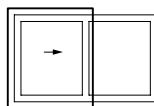
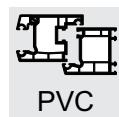
Drive rod GAK ... D 25 - 50

- Constant handle position GK
- The backset is optionally 25, 30, 35, 40, 45 or 50 mm
- Clampable in fitting groove
- Extensible with extension rods
- Handle position with reference to the sash rebate edge, in conformity with "dimension GK" (see table)
- Gear case for milling from rebate
- Window handle attachment with M5 x ..., DIN 965, 43 mm screw interval



3

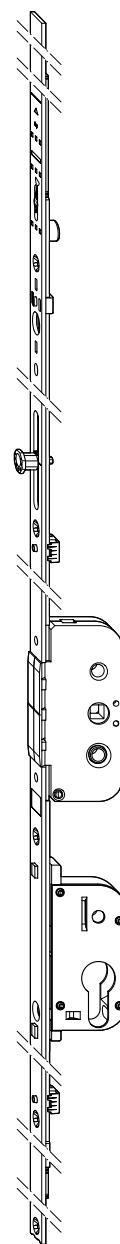
Article designation	Article no.	Application range		Dim. GK	DFE	TFE	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
GAK.1325-1.D25	4978671	FFH 1075 - 1325		4	550	•	•	10 BD	200 EA
GAK.1325-1.D30	4978672	FFH 1075 - 1325		4	550	•	•	10 BD	200 EA
GAK.1325-1.D35	4978673	FFH 1075 - 1325		4	550	•	•	10 BD	200 EA
GAK.1325-1.D40	4978674	FFH 1075 - 1325		4	550	•	•	10 BD	200 EA
GAK.1325-1.D45	4978675	FFH 1075 - 1325		4	550	•	•	10 BD	200 EA
GAK.1325-1.D50	4978676	FFH 1075 - 1325		4	550	•	•	10 BD	200 EA
GAK.2000-4.D25	4938143	FFH 1750 - 2000		8	1050	•	•	10 BD	200 L2 400 EU2
GAK.2000-4.D30	4938150	FFH 1750 - 2000		8	1050	•	•	10 BD	200 L2 400 EU2
GAK.2000-4.D35	4938151	FFH 1750 - 2000		8	1050	•	•	10 BD	200 L2 400 EU2
GAK.2000-4.D40	4938152	FFH 1750 - 2000		8	1050	•	•	10 BD	200 L2 400 EU2
GAK.2000-4.D45	4938153	FFH 1750 - 2000		8	1050	•	•	10 BD	200 L2 400 EU2
GAK.2000-4.D50	4938154	FFH 1750 - 2000		8	1050	•	•	10 BD	200 L2 400 EU2
GAK.2225-4.D25	4938145	FFH 1975 - 2225		9	1050	•	•	10 BD	200 L2 400 EU2
GAK.2225-4.D30	4938146	FFH 1975 - 2225		9	1050	•	•	10 BD	200 L2 400 EU2
GAK.2225-4.D35	4938147	FFH 1975 - 2225		9	1050	•	•	10 BD	200 L2 900 EU2
GAK.2225-4.D40	4938148	FFH 1975 - 2225		9	1050	•	•	10 BD	200 L2 400 EU2
GAK.2225-4.D45	4938149	FFH 1975 - 2225		9	1050	•	•	10 BD	200 L2 400 EU2
GAK.2225-4.D50	4938160	FFH 1975 - 2225		9	1050	•	•	10 BD	200 L2 400 EU2



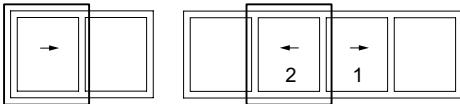
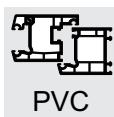
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Drive rod GAKA

- Constant handle position GK
- The backset is optionally 25, 30, 35, 40, 45 or 50 mm
- Lockable
- Clampable in fitting groove
- Extensible with extension rods
- Handle position with reference to the sash rebate edge, in conformity with "dimension GK" (see table)
- Handle set see Group 6, accessories
- Gear case for milling from rebate



Article designation	Article no.	Application range		Dim. GK	DFE	TFE	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
GAKA.I325-1.D25	4933449	FFH 1075 - 1325	4	550	•	•	10 BD	200 EA	
GAKA.I325-1.D30	4933473	FFH 1075 - 1325	4	550	•	•	10 BD	200 EA	
GAKA.I325-1.D35	4933474	FFH 1075 - 1325	4	550	•	•	10 BD	200 EA	
GAKA.I325-1.D40	4933475	FFH 1075 - 1325	4	550	•	•	10 BD	200 EA	
GAKA.I325-1.D45	4933479	FFH 1075 - 1325	4	550	•	•	10 BD	200 EA	
GAKA.2000-4.D25	4929007	FFH 1750 - 2000	8	1050	•	•	10 BD	200 L2	400 EU2
GAKA.2000-4.D30	4929008	FFH 1750 - 2000	8	1050	•	•	10 BD	200 L2	900 EU2
GAKA.2000-4.D35	4929009	FFH 1750 - 2000	8	1050	•	•	10 BD	200 L2	400 EU2
GAKA.2000-4.D40	4929010	FFH 1750 - 2000	8	1050	•	•	10 BD	200 L2	400 EU2
GAKA.2000-2.D45	5015014	FFH 1750 - 2000	8	1050	•	•	10 BD	200 L2	
GAKA.2000-4.D45	4929011	FFH 1750 - 2000	8	1050	•	•	10 BD	200 L2	400 EU2
GAKA.2000-2.D50	5015015	FFH 1750 - 2000	8	1050	•	•	10 BD	200 L2	
GAKA.2000-4.D50	4929012	FFH 1750 - 2000	8	1050	•	•	10 BD	200 L2	400 EU2
GAKA.2225-4.D25	4929013	FFH 1975 - 2225	9	1050	•	•	10 BD	200 L2	400 EU2
GAKA.2225-4.D30	4929014	FFH 1975 - 2225	9	1050	•	•	10 BD	200 L2	400 EU2
GAKA.2225-4.D35	4929015	FFH 1975 - 2225	9	1050	•	•	10 BD	200 L2	400 EU2
GAKA.2225-4.D40	4929016	FFH 1975 - 2225	9	1050	•	•	10 BD	200 L2	400 EU2
GAKA.2225-2.D45	5015012	FFH 1975 - 2225	9	1050	•	•	10 BD	200 L2	400 EU2
GAKA.2225-4.D45	4929017	FFH 1975 - 2225	9	1050	•	•	10 BD	200 L2	400 EU2
GAKA.2225-2.D50	5015013	FFH 1975 - 2225	9	1050	•	•	10 BD	200 L2	
GAKA.2225-4.D50	4929018	FFH 1975 - 2225	9	1050	•	•	10 BD	200 L2	400 EU2



Drive rod GAM

- Central handle position GM
- Backset 15.5 mm
- Clampable in fitting groove
- Gear case for milling from rebate
- Gear case for mounting in drilled hole
- Window handle attachment with M5 x ..., DIN 965, 43 mm screw interval

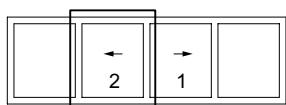
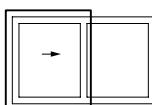


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Article designation	Article no.	Application range		DFE	TFE	VPA1 pcs/type	VPA2 pcs/type
GAM.800	4926267	FFH 510 - 800	2			20 BD	400 EA
GAM.1050	4926268	FFH 710 - 1050	2	•	•	20 BD	360 EA
GAM.1050-1	4926269	FFH 710 - 1050	2	•	•	20 BD	360 EA
GAM.1400	4926290	FFH 900 - 1400	4	•	•	20 BD	360 L1
GAM.1400-1	4926291	FFH 900 - 1400	4	•	•	20 BD	360 L1
GAM.1400-2	4926292	FFH 900 - 1400	4	•	•	20 BD	360 L1
GAM.1800	4926293	FFH 1300 - 1800	6	•	•	10 BD	360 L1
GAM.1800-2	4926295	FFH 1300 - 1800	6	•	•	10 BD	360 L1
GAM.2300	4938161	FFH 1800 - 2300	9	•	•	10 BD	360 L2
GAM.2300-3	4938163	FFH 1800 - 2300	9	•	•	10 BD	360 L2



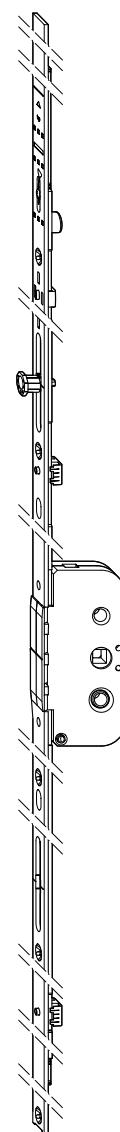
PVC



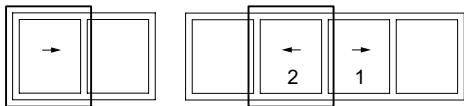
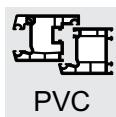
3

Drive rod GAM ... D 25 - 50

- Central handle position GM
- The backset is optionally 25, 30, 35, 40, 45 or 50 mm
- Clampable in fitting groove
- Extensible with extension rods
- Gear case for milling from rebate

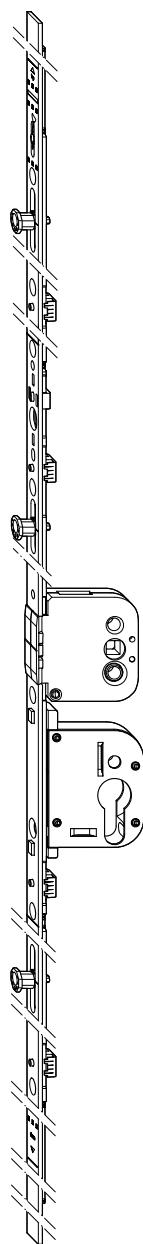


Article designation	Article no.	Application range		DFE	TFE	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
GAM.800.D25	4941067	FFH 510 - 800	2			10 BD	200 EA	
GAM.800.D30	4941069	FFH 510 - 800	2			10 BD	200 EA	
GAM.1050-1.D25	4941081	FFH 710 - 1050	2	•	•	10 BD	200 EA	
GAM.1050-1.D30	4941082	FFH 710 - 1050	2	•	•	10 BD	200 EA	
GAM.1400-1.D25	4927159	FFH 900 - 1400	4	•	•	10 BD	200 L1	
GAM.1400-1.D30	4927171	FFH 900 - 1400	4	•	•	10 BD	200 L1	
GAM.1400-1.D35	4927172	FFH 900 - 1400	4	•	•	10 BD	200 L1	
GAM.1400-1.D40	4927173	FFH 900 - 1400	4	•	•	10 BD	200 L1	
GAM.1400-1.D45	4927174	FFH 900 - 1400	4	•	•	10 BD	200 L1	
GAM.1400-1.D50	4927175	FFH 900 - 1400	4	•	•	10 BD	200 L1	
GAM.1400-2.D25	4933312	FFH 900 - 1400	4	•	•	10 BD	200 L1	
GAM.1400-2.D30	4933313	FFH 900 - 1400	4	•	•	10 BD	200 L1	
GAM.1400-2.D35	4933315	FFH 900 - 1400	4	•	•	10 BD	200 L1	
GAM.1400-2.D40	4933316	FFH 900 - 1400	4	•	•	10 BD	200 L1	
GAM.1400-2.D45	4933317	FFH 900 - 1400	4	•	•	10 BD	200 L1	
GAM.1800-2.D25	4933319	FFH 1300 - 1800	6	•	•	10 BD	200 L1	
GAM.1800-2.D30	4933340	FFH 1300 - 1800	6	•	•	10 BD	200 L1	
GAM.1800-2.D35	4933341	FFH 1300 - 1800	6	•	•	10 BD	200 L1	
GAM.1800-2.D40	4933342	FFH 1300 - 1800	6	•	•	10 BD	200 L1	
GAM.1800-2.D45	4933343	FFH 1300 - 1800	6	•	•	10 BD	200 L1	
GAM.2300-3.D25	4938167	FFH 1800 - 2300	9	•	•	10 BD	200 L2	900 EU2
GAM.2300-3.D30	4938168	FFH 1800 - 2300	9	•	•	10 BD	200 L2	400 EU2
GAM.2300-3.D35	4938169	FFH 1800 - 2300	9	•	•	10 BD	200 L2	400 EU2
GAM.2300-2.D40	4936028	FFH 1800 - 2300	9	•	•	10 BD	200 L2	
GAM.2300-3.D40	4938170	FFH 1800 - 2300	9	•	•	10 BD	200 L2	
GAM.2300-3.D45	4938427	FFH 1800 - 2300	9	•	•	10 BD	200 L2	400 EU2
GAM.2300-3.D50	4938428	FFH 1800 - 2300	9	•	•	10 BD	200 L2	900 EU2



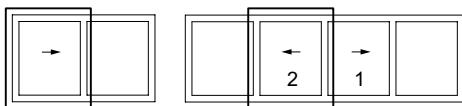
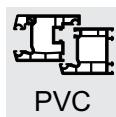
Drive rod GAMA

- Central handle position GM
- The backset is optionally 25, 30, 35, 40, 45 or 50 mm
- Lockable
- Extensible with extension rods
- Clampable in fitting groove
- Handle set see Group 6, accessories
- Gear case for milling from rebate



3

Article designation	Article no.	Application range		D	DFE	TFE	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
GAMA.2300-3.D25	4927099	FFH 1800 - 2300		8	•	•	10 BD	200 L2	900 EU2
GAMA.2300-3.D30	4927160	FFH 1800 - 2300		8	•	•	10 BD	200 L2	400 EU2
GAMA.2300-3.D35	4927161	FFH 1800 - 2300		8	•	•	10 BD	200 L2	400 EU2
GAMA.2300-3.D40	4927162	FFH 1800 - 2300		8	•	•	10 BD	200 L2	400 EU2
GAMA.2300-3.D45	4927164	FFH 1800 - 2300		8	•	•	10 BD	200 L2	400 EU2
GAMA.2300-3.D50	4927166	FFH 1800 - 2300		8	•	•	10 BD	200 L2	400 EU2



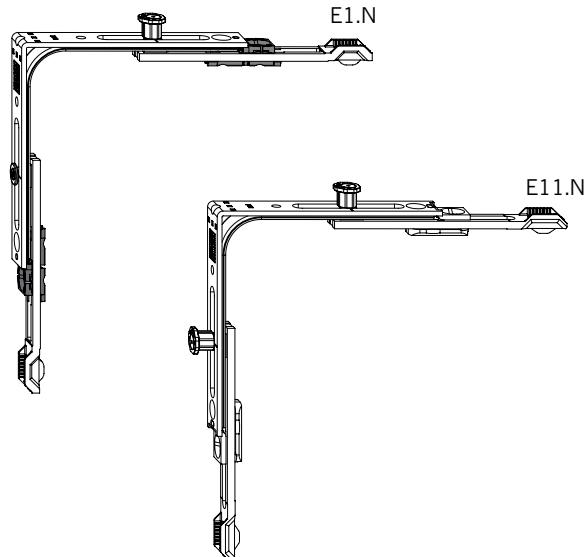
4

Corner drive E1.N

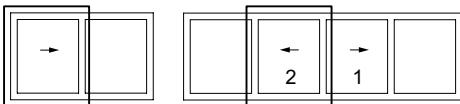
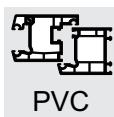
- Bracket length 98.5 mm
- Automatic and manual assembly possible
- Smooth operation, due to rust-free spring steel hinges inserted in C-rail
- with supporting element to fix in the fitting groove of the sash

Corner drive E11.N

- Same version as E11, but with supporting element to fix in the fitting groove of the sash



Article designation	Article no.		VPA1 pcs/type	VPA2 pcs/type
E1.N	5019146	4	100 KK	2400 EK
E11.N	5051287	4	100 KK	2400 EK



Interlocking rod M

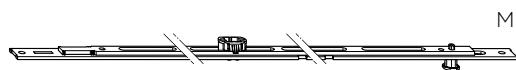
- Central fastening loosens automatically by tightening fitting screw
- Functional both vertically and horizontally
- Clampable in fitting groove

Interlocking rod MK

- Extendable interlocking rod, can be combined with Winkhaus standard gearing
- Otherwise this type is identical to interlocking rod M

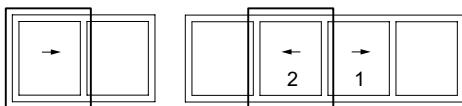
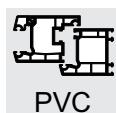
Interlocking rod M/MK ... C

- Same version as M/MK..., but with additional clamping piece



5

Article designation	Article no.		VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
M.250-1	2822471	2	20 BD	100 KK	800 EK
M.350-1	5012660	2	20 BD	100 KK	2400 EK
M.500-1	4933994	3	20 BD	100 GK	1200 EK
M.500-1.C	4933999	3	20 BD	100 GK	1200 EK
M.750-1	4940652	5	20 BD	500 EA	
MK.150-1	5043228	2	20 BD	100 KK	800 EK
MK.250-0	4929185	2	20 BD	100 KK	800 EK
MK.250-1	2824919	2	20 BD	100 KK	800 EK
MK.500-0	4929187	3	20 BD	500 EA	
MK.500-0.C	4932315	3	20 BD	500 EA	
MK.500-1	2824986	3	20 BD	500 EA	
MK.500-1.C	4932287	3	20 BD	500 EA	
MK.750-1	4940653	5	20 BD	500 EA	
MK.750-2	5009140	5	20 BD	500 EA	



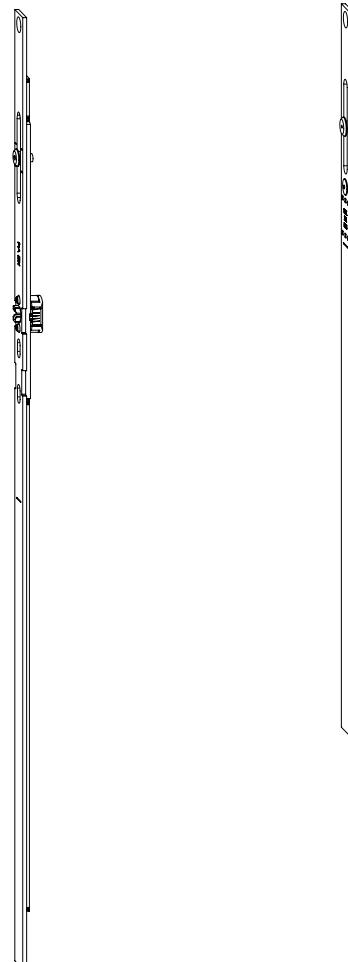
Coupling element KE

5

- Application area:
connecting two gear ends,
e.g. corner drive E1 with an interlocking rod MK
- Clampable in fitting groove
- Functional both vertically and horizontally
- Central fastening loosens automatically by tightening
fitting screw
- Cutting area 250 mm
- Component length 510 mm

KE SL

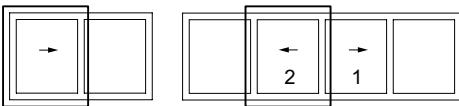
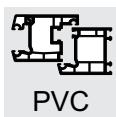
VBST



Connection piece VBST

- Application area:
connecting two gear ends,
e.g. corner drive E1 with an interlocking rod MK
- Clampable in fitting groove
- Functional both vertically and horizontally
- With central fastening
- Cutting area 250 mm
- Component length 370 mm

Article designation	Article no.		VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
KE SL	4982891	1	10 BD	1000 EA	
VBST.370.RC-N	5043231	1	10 BD	100 GK	400 EK



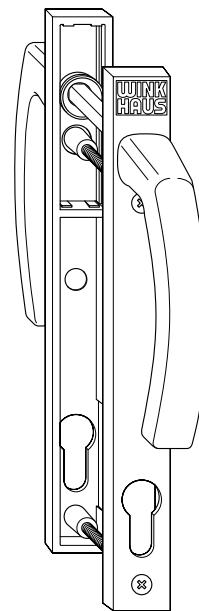
Handle sets

Handle set GG RN

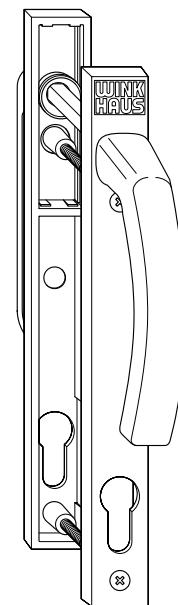
- For patio doors without blinds
- Sash thickness up to max. 70 mm
- Gap between handle and profile cylinder to match drives GAMA/GAKA
- Available in different colours
- Screw into place from the interior side of the sash

Handle set GG RR

- For patio doors with blinds (exterior flat type)
- Sash thickness up to max. 70 mm
- Gap between handle and profile cylinder to match drives GAMA/GAKA
- Available in different colours
- Screw into place from the interior side of the sash



GG RN

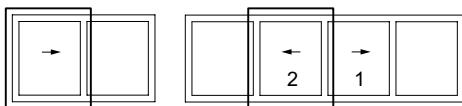
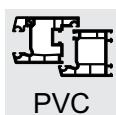


GG RR

6

Article designation	Article no.	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
GG RN WS	2508641	1 KT	10 KK	80 EK
GG RN BR	2508633	1 KT	10 KK	80 EK
GG RN F1	2508561	1 KT	10 KK	80 EK
GG RN F9	2508650	1 KT	10 KK	80 EK
GG RR WS	2508684	1 KT	10 KK	80 EK
GG RR BR	2508676	1 KT	10 KK	80 EK
GG RR F9	2508692	1 KT	10 KK	80 EK

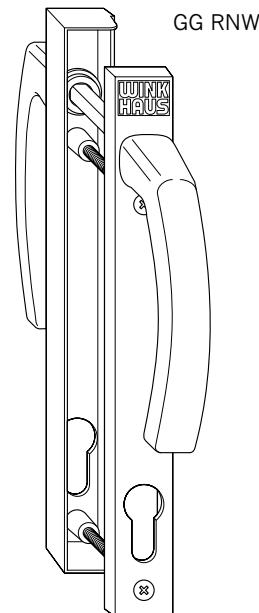
WS = white, BR = brown, SL = silver, F1 = silver coloured, F9 = gold coloured, F9 = titanium coloured



Handle sets

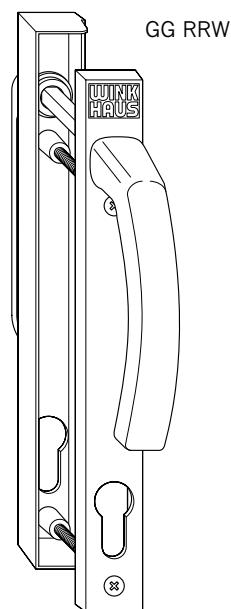
Handle set GG RNW

- 6
- For patio doors without blinds
 - Sash thickness up to max. 70 mm
 - Gap between handle and profile cylinder to match drives GAMA/GAKA
 - Available in different colours
 - To adapt to flush-mounted profiles
 - Screw into place from the interior side of the sash



Handle set GG RRW

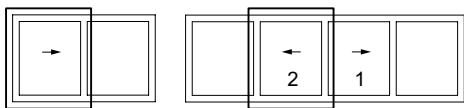
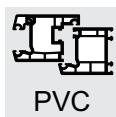
- For patio doors with blinds
(exterior flat type)
- Sash thickness up to max. 70 mm
- Gap between handle and profile cylinder to match drives GAMA/GAKA
- Available in different colours
- To adapt to flush-mounted profiles
- Screw into place from the interior side of the sash



Article designation	Article no.	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
GG RNW R74 LS WS	2508959	1 KT	10 KK	80 EK
GG RNW R74 RS WS	2508924	1 KT	10 KK	80 EK
GG RNW R74 LS F9	2508975	1 KT	10 KK	80 EK
GG RNW R74 RS F9	2508941	1 KT	10 KK	80 EK
GG RRW R74 LS WS	2508895	1 KT	10 KK	80 EK
GG RRW R74 RS WS	2508861	1 KT	10 KK	80 EK
GG RRW R74 LS F9	2508916	1 KT	10 KK	80 EK
GG RRW R74 RS F9	2508887	1 KT	10 KK	80 EK

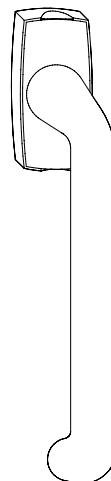
RS = right, LS = left

WS = white, BR = brown, SL = silver, F1 = silver coloured, F3 = gold coloured, F9 = titanium coloured



LM round handle

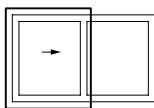
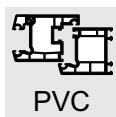
- For duoPort AS retract-slide elements with activPilot central locking mechanism
- Plug with ø 10 mm
- 7 mm spindle
- Handle length: 160 mm from centre of spindle to end of handle



6

Article designation	Article no.	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
LM-RG WS	1468449	1 BL	20 KK	480 EK
LM-RG BR	1468318	1 BL	20 KK	160 EK
LM-RG EV 1	1468300	1 BL	20 KK	160 EK
LM-RG CW	4969580	1 BL	20 KK	160 EK

WS = white, BR = brown, EV1 = anodised silver, CW = cream white



Bogie, basic set

HF.GK.MOVE ...

- For duoPort AS
- Up to max. 200 kg

7

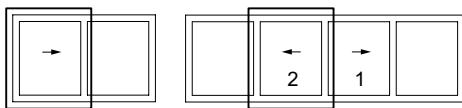
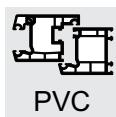


No.	Designation	Qty.
1	top rail guide, left	1
2	top rail guide, right	1
3	top locking device	1
4	locking plate, handle side	2
5	rubber frame buffer	2
6	locking piece MST	2
7	locking device MST	2
9	rubber mushroom buffer	2
10	bogie	2
11	bottom locking device	1



Notice: The position/item numbers are identical with the position/item numbers in the lists of fittings.

Article designation	Article no.	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
HF.GK.MOVE LS	5088652	1 KT		40 EA
HF.GK.MOVE RS	5088653	1 KT		40 EA



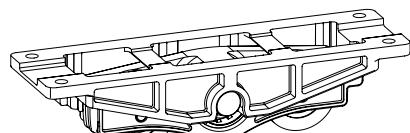
Bogie set

HF.KARTON MOVE LAUFWAGEN

- For duoPort AS
- Additional bogie for sash weights > 200 kg

7

No.	Designation	Qty.
10	bogie	2

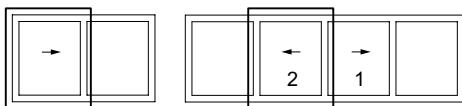
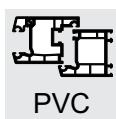


10



Notice: The position/item numbers are identical with the position/item numbers in the lists of fittings.

Article designation	Article no.	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
HF.KARTON MOVE LAUFWAGEN	5088657	1 KT	10 GK	40 EA

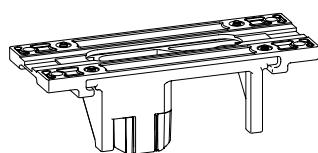
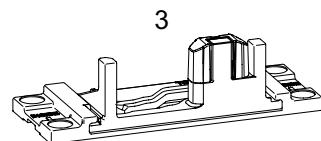


Locking device (bag)

HF.BZ.VERRIEGELUNG...

- For duoPort AS
- Width-dependent additional locking system for top and bottom horizontal sides

7



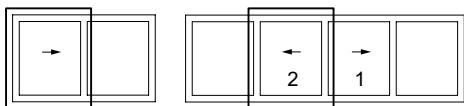
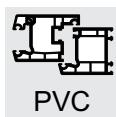
11

No.	Designation	Qty.
3	top locking device	1
11	bottom locking device	1



Notice: The position/item numbers are identical with the position/item numbers in the lists of fittings.

Article designation	Article no.	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
HF.BZ.VERRIEGELUNG LS OBEN/UNTEN MOVE	5088654	1 BL	20 KLT	160 EA
HF.BZ.VERRIEGELUNG RS OBEN/UNTEN MOVE	5088655	1 BL	20 KLT	160 EA



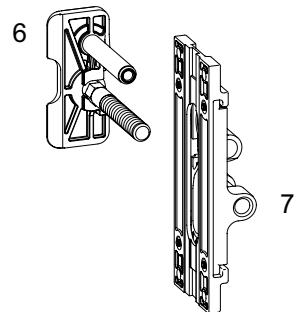
Locking device centre stile (bag)

HF.BZ.VERRIEGELUNG....MST

- For duoPort AS
- Height-dependent additional locking system for the centre stile area

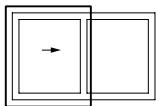
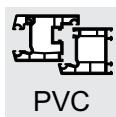
7

No.	Designation	Qty.
6	locking piece MST	1
7	locking device MST	1



Notice: The position/item numbers are identical with the position/item numbers in the lists of fittings.

Article designation	Article no.	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
HF.BZ.VERR LS MOVE MST	5088663	1 KT	20 KLT	160 EA
HF.BZ.VERR RS MOVE MST	5088678	1 KT	20 KLT	160 EA



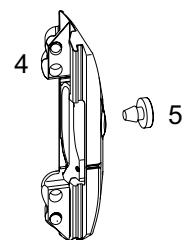
Locking plate for handle side (bag)

HF.BZ.SCHLIESSPLATTE GRIFFSEITE .. MOVE

- For duoPort AS
- Height-dependent additional locking system for the handle side

7

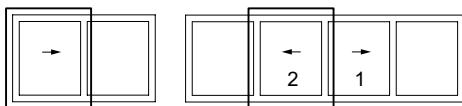
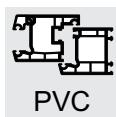
No.	Designation	Qty.
4	locking plate handle side	1
5	rubber buffer	1



Notice: The position/item numbers are identical with the position/item numbers in the lists of fittings.

Article designation	Article no.	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
HF.BZ.SCHLIESSPLATTE GS LS MOVE	5088679	1 BL	20 KLT	160 EA
HF.BZ.SCHLIESSPLATTE GS RS MOVE	5088680	1 BL	20 KLT	160 EA

RS = right, LS = left



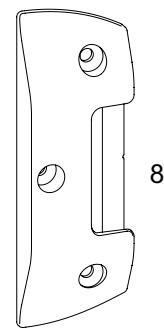
Locking plate centre stile (bag)

HF.BZ.SCHLIESSPLATTE MST MOVE ...

- For duoPort AS
- Locking plates for the centre stile area
- Profile-specific locking plates

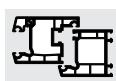
7

No.	Designation	Qty.
8	locking plate MST	1

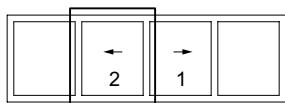


Notice: The position/item numbers are identical with the position/item numbers in the lists of fittings.

Article designation	Article no.	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
HF.BZ.SCHLIESSPLATTE MST MOVE ALUPL	5088685	1 BL	20 KLT	160 EA
HF.BZ.SCHLIESSPLATTE MST MOVE GEALAN	5088689	1 BL	20 KLT	160 EA
HF.BZ.SCHLIESSPLATTE MST MOVE REHAU	5088693	1 BL	20 KLT	160 EA
HF.BZ.SCHLIESSPLATTE MST MOVE SIP	5088697	1 BL	20 KLT	160 EA



PVC



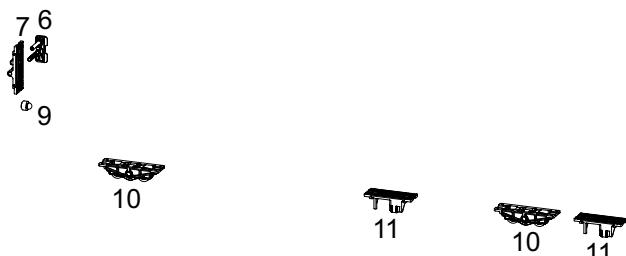
Bogie, basic set, system C

HF.GK.MOVE...SCHEMA C

- 7
- For duoPort AS
 - Up to max. 200 kg
 - For second-opening sash

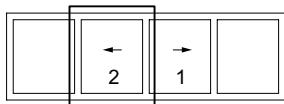
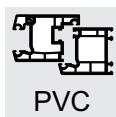


No.	Designation	Qty.
1	top rail guide, left	1
2	top rail guide, right	1
3	top locking device	2
6	locking piece MST	2
7	locking device MST	2
9	rubber mushroom buffer	2
10	bogie	2
11	bottom locking device	2



Notice: The position/item numbers are identical with the position/item numbers in the lists of fittings.

Article designation	Article no.	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
HF.GK.MOVE LS SCHEMA C	5088681	1 KT		40 EA
HF.GK.MOVE RS SCHEMA C	5088682	1 KT		40 EA



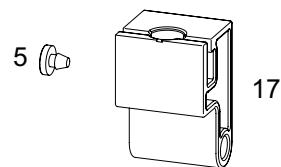
Top stop piece (bag)

HF.BZ.ANSCHLAG MOVE OBEN

- For duoPort AS
- Used in guide rail
- Used for system C

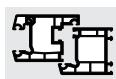
7

No.	Designation	Qty.
5	rubber frame buffer	1
17	stop piece, top	1

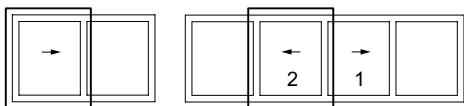


Notice: The position/item numbers are identical with the position/item numbers in the lists of fittings.

Article designation	Article no.	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
HF.BZ.ANSCHLAG MOVE OBEN	5088683	1 BL	20 KLT	160 EA



PVC



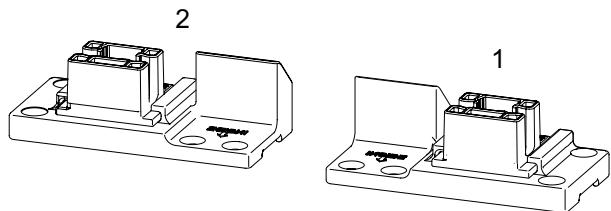
Top rail guide (bag)

HF.BZ.FÜHRUNG OBEN MOVE

- For duoPort AS
- Guide part, top horizontal side

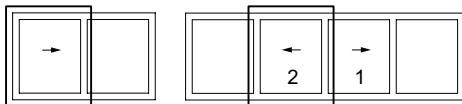
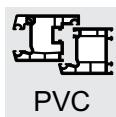
7

No.	Designation	Qty.
1	top rail guide, left	1
2	top rail guide, right	1



Notice: The position/item numbers are identical with the position/item numbers in the lists of fittings.

Article designation	Article no.	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
HF.BZ.FÜHRUNG OBEN MOVE	5088656	1 BL	20 KLT	160 EA



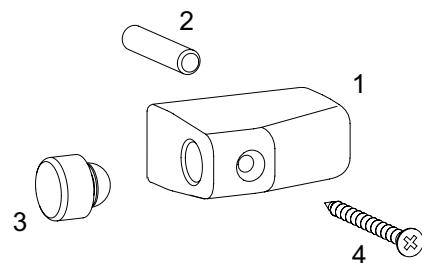
Stop piece for sash (bag)

HF.BZ FLÜGELANSCHLAG...

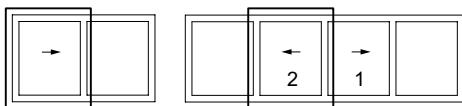
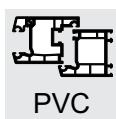
- For duoPort AS
- Optional stop piece for sash
- Universal use for Aluplast Smart Slide, Gealan Smoovio and Salamander evolution DrivePlus+
- Stop piece can be used for different profile systems thanks to adapter plate

7

No.	Designation	Qty.
1	stop housing	1
2	bolt	1
3	rubber buffer	1
4	countersunk head screw	1



Article designation	Article no.	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
HF.BZ FLÜGELANSCHLAG WEISS	5088686	1 BL	20 KLT	160 EA
HF.BZ FLÜGELANSCHLAG SCHWARZ	1217089	1 BL	20 KLT	160 EA
HF.BZ FLÜGELANSCHLAG GRAU	5005903	1 BL	20 KLT	160 EA



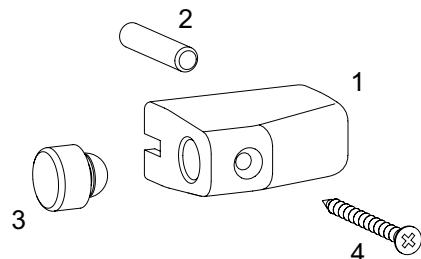
Stop piece sash, Rehau (bag)

HF.BZ.FLÜGELANSCHLAG Rehau Synego Slide

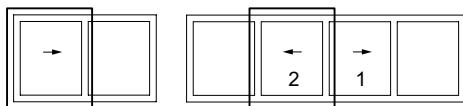
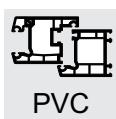
- For duoPort AS
- Optional stop piece for sash, only for bottom part
- For top stop piece of sash the following part is used:
HF.BZ.ANSCHLAG MOVE OBEN

7

No.	Designation	Qty.
1	stop housing	1
2	bolt	1
3	rubber buffer	1
4	countersunk head screw	1



Article designation	Article no.	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
HF.BZ.FLÜGELANSCHLAG LS UNTEN WS REHAU	5088694	1 BL	20 KLT	160 EA
HF.BZ.FLÜGELANSCHLAG LS UNTEN SW REHAU	5088695	1 BL	20 KLT	160 EA
HF.BZ.FLÜGELANSCHLAG LS UNTEN GR REHAU	5088696	1 BL	20 KLT	160 EA



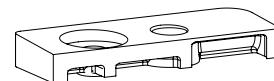
Top stop piece (bag)

HF.BZ.UNTERLEGPLATTE ANSCHLAG ...

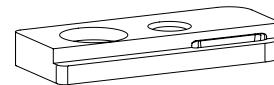
- For duoPort AS
- Profile-specific adapter plates for HF.BZ.FLÜGELANSCHLAG....

7

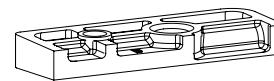
No.	Designation	Qty.
1	adapter plate, left	1
2	adapter plate, right	1



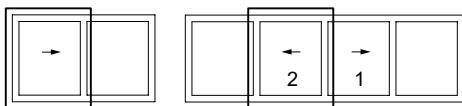
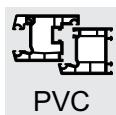
1



2



Article designation	Article no.	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
HF.BZ.UNTERLEGPLATTE ANSCHLAG WS ALUPLAST	5088686	1 BL	20 KLT	160 EA
HF.BZ.UNTERLEGPLATTE ANSCHLAG SW ALUPLAST	5088687	1 BL	20 KLT	160 EA
HF.BZ.UNTERLEGPLATTE ANSCHLAG GR ALUPLAST	5088688	1 BL	20 KLT	160 EA
HF.BZ.UNTERLEGPLATTE ANSCHLAG WS GEALAN	5088690	1 BL	20 KLT	160 EA
HF.BZ.UNTERLEGPLATTE ANSCHLAG SW GEALAN	5088691	1 BL	20 KLT	160 EA
HF.BZ.UNTERLEGPLATTE ANSCHLAG GR GEALAN	5088692	1 BL	20 KLT	160 EA
HF.BZ.UNTERLEGPLATTE ANSCHLAG WS SALAMANDER	5088698	1 BL	20 KLT	160 EA
HF.BZ.UNTERLEGPLATTE ANSCHLAG SW SALAMANDER	5088699	1 BL	20 KLT	160 EA
HF.BZ.UNTERLEGPLATTE ANSCHLAG GR SALAMANDER	5088700	1 BL	20 KLT	160 EA



Accessories Move RC2

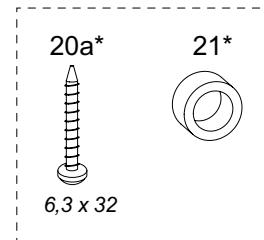
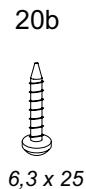
HF.ZUBEHÖR MOVE RC2

- For duoPort AS

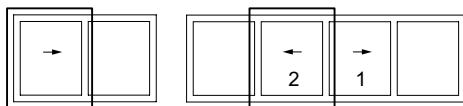
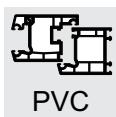
7

No.	Designation	Qty.
20a	LINSENBLECHSCHRAUBE 6,3X32 VZ	2
20b	LINSENBLECHSCHRAUBE 6,3X25 VZ	2 *
21	HÜLSE 12,0/8,2/6,5 S+	5 *
22	SCHRAUBE M5X12 ISO 4017 VERZ.	5
23	SCHEIBE A 5,3 BLAU	5
24	SENKBLECHSCHRAUBE 4,8X25 BLAU	10

* not required



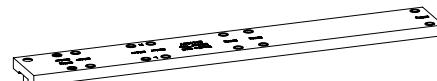
Article designation	Article no.	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
HF.ZUBEHÖR MOVE RC2	5088684	1 BL	10 GK	40 EA



Mounting tools / jigs

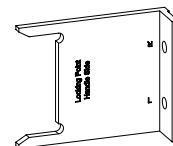
HF.KARTON BOHRLEHRE MOVE LAUFWAGEN

Drilling jig for bogie / rail guide



HF.KARTON LEHRE SCHLIEßPLATTE MOVE GS WH

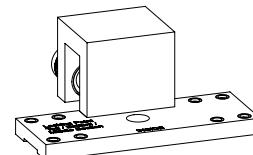
Positioning jig for locking plate, handle side



7

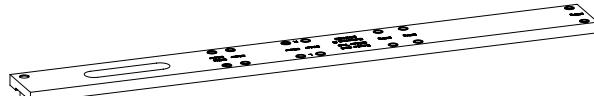
HF.KARTON BOHRLEHRE MOVE OBEN/UNTEN MST

Drilling jig for locking device



HF.KARTON BOHRLEHRE MOVE LAUFWAGE STULP

Drilling jig for bogie / rail guide system C



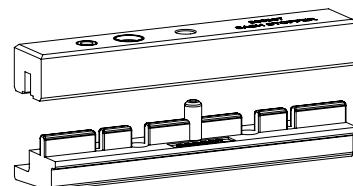
HF.LEHRE VERR MOVE MST

Adjusting jig for centre stile locking device



HF.KARTON BOHRLEHRE ANSCHLAG MOVE

Drilling jig for sash stop piece



Article designation	Article no.	VPA1 pcs/type	VPA2 pcs/type	VPA3 pcs/type
HF.KARTON BOHRLEHRE MOVE LAUFWAGEN	5088708	1 KT	20 KLT	160 EA
HF.KARTON LEHRE SCHLIEßPLATTE MOVE GS WH	5088707	1 KT	20 KLT	160 EA
HF.KARTON BOHRLEHRE MOVE OBEN/UNTEN MST	5088709	1 KT	20 KLT	160 EA
HF.KARTON BOHRLEHRE MOVE LAUFWAGE STULP	5088710	1 KT	20 KLT	160 EA
HF.LEHRE VERR MOVE MST ALUPL, Rehau, Salamander	5088705	1 KT	20GK	80 EA
HF.LEHRE VERR MOVE MST GEALAN	5088706	1 KT	20 KLT	160 EA
HF.KARTON BOHRLEHRE ANSCHLAG MOVE ALUPL	5088701	1 KT	10GK	40 EA
HF.KARTON BOHRLEHRE ANSCHLAG MOVE GEALAN	5088702	1 KT	10GK	40 EA
HF.KARTON BOHRLEHRE ANSCHLAG MOVE REHAU	5088703	1 KT	10GK	40 EA
HF.KARTON BOHRLEHRE ANSCHLAG MOVE SIP	5088704	1 KT	20 KLT	160EA

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