

Industrial price list 05-22.1

Valid from 01.06.2022

Industrial sectional doors

Series 60

Depth 42 mm and 67 mm

Made of steel and aluminium

Operators and controls

Hörmann international sales companies and sales partners



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Sectional doors Door sections with finger trap protection

Depth 42 mm

Product description

Door leaf (door sections made of steel sections)

SPU F42

Double-skinned steel sections, made of hot-galvanized sheet steel, PU-foamed, with steel end caps

Surface finish (steel section texture)

Stucco: Exterior S-ribbed, Stucco-textured with horizontal ribbing at a distance of 125 mm, interior Stucco-textured

Micrograin: Exterior L-ribbed Micrograin, interior Stucco-textured

Height of door sections 625 / 750 mm (door width max. 6000 mm) or 500 / 375 mm

(combination of 2 door section heights within the door)

Door leaf (door sections made of aluminium extrusion profiles)

APU F42

Bottom section:

Double-skinned steel sections, made of hot-galvanized sheet steel, PU-foamed, with steel end caps, bottom section height 750 mm (standard)

Surface finish (steel section texture)

Stucco: Exterior S-ribbed, Stucco-textured with horizontal ribbing at a distance of 125 mm, interior Stucco-textured

Micrograin: Exterior L-ribbed Micrograin, interior Stucco-textured

Glazing frame:

Anodised aluminium extrusion profiles with steel end caps

Infill type:

Clear synthetic double pane, (S2) 26 mm.

APU F42 Thermo

Bottom section:

Double-skinned steel sections, made of hot-galvanized sheet steel, PU-foamed, with steel end caps, bottom section height 750 mm (standard)

Surface finish (steel section texture)

Stucco: Exterior S-ribbed, Stucco-textured with horizontal ribbing at a distance of 125 mm, interior Stucco-textured

Micrograin: Exterior L-ribbed Micrograin, interior Stucco-textured

Glazing frame:

Anodised aluminium extrusion profiles with thermal break, with steel end caps

Infill type:

Clear synthetic double pane, (S2) 26 mm

Performance characteristics

Performance characteristics according to EN 13241			SPU F42	APU F42	APU F42 Thermo
EN 12424	Resistance to wind load	Details for doors <u>without</u> wicket door	Class 3 ⁵⁾ Class 4 ^{3) 5)}	Class 3 Class 4 ³⁾	Class 3 Class 4 ³⁾
		Details for doors <u>with</u> wicket door	Class 2 ⁵⁾ Class 3 ^{3) 5)}	Class 2 Class 3 ³⁾	Class 2 Class 3 ³⁾
EN 12425	Water tightness	Details for doors <u>with</u> / <u>without</u> wicket door	Class 3 (70 Pa)	Class 3 (70 Pa)	Class 3 (70 Pa)
EN 12426	Air permeability	Details for doors <u>without</u> wicket door	Class 2 Class 3 ^{6) 7) 8)}	Class 2	Class 2
		Details for doors <u>with</u> wicket door	Class 1	Class 1	Class 1
EN 13241, Appendix B EN 12428	Thermal resistance $U = W/(m^2 \cdot K)$	Details for door <u>without</u> wicket door: 5000 × 5000 mm	1,0	3,4 3,0 ¹⁾ 2,5 ²⁾	2,9 2,5 ¹⁾ 2,0 ²⁾
		Details for doors <u>with</u> wicket door 5000 × 5000 mm	1,2	3,6 3,2 ¹⁾	3,1 2,7 ¹⁾
EN 717-1	Noise (acoustic value) $R_w = dB$	Details for doors <u>without</u> wicket door	25 ⁶⁾	23	23
		Details for doors <u>with</u> wicket door	24 ⁶⁾	22	22

Note:

Higher classes and better thermal insulation values or acoustic values on request!

- 1) The information refers to U-values that are achieved with a synthetic triple pane (S3) (optional), 26 mm ($U_g = 1.9 W/(m^2 \cdot K)$).
- 2) The information refers to U-values that are achieved with a climatic double pane made of single-pane safety glass (G2) (optional), 26 mm ($U_g = 1.1 W/(m^2 \cdot K)$).
- 3) For door widths up to 4000 mm.
- 4) The information in brackets refers to the acoustic values that are achieved with a real glass pane (optional).
- 5) Lower class rating may apply for doors with compound glazing
- 6) For doors without glazing frame
- 7) With ThermoFrame
- 8) With optional set for increased air tightness

Sectional doors Door sections with finger trap protection

Depth 42 mm

Product description

Door leaf (door sections made of aluminium extrusion profiles)

ALR F42

Glazing frame:

Anodised aluminium extrusion profiles with steel end caps

Infill type:

Bottom glazing frame with PU infill with aluminium sheet cover, both sides Stucco-textured, (FU) 26 mm;

More glazing frames with clear synthetic double pane, (S2) 26 mm

ALR F42 Thermo

Glazing frame:

Anodised aluminium extrusion profiles with thermal break, with steel end caps

Infill type:

Bottom glazing frame with PU infill with aluminium sheet cover, both sides Stucco-textured, (FU) 26 mm;

More glazing frames with clear synthetic double pane, (S2) 26 mm

ALR F42 Glazing

Glazing frame:

Anodised aluminium extrusion profiles with steel end caps

Infill type:

Single pane made of laminated safety glass, (VG) 6 mm

ALR F42 Vitraplan

Glazing frame:

Anodised aluminium extrusion profiles with steel end caps

Infill type:

Clear synthetic double pane, (S2) 26 mm and

Synthetic glazing fitted in front in a shade of grey

Performance characteristics

Performance characteristics according to EN 13241			ALR F42	ALR F42 Thermo	ALR F42 Glazing	ALR F42 Vitraplan
EN 12424	Resistance to wind load	Details for doors <u>without</u> wicket door	Class 3 Class 4 ³⁾	Class 3 Class 4 ³⁾	Class 3 Class 4 ³⁾	Class 3 Class 4 ³⁾
		Details for doors <u>with</u> wicket door	Class 2 Class 3 ³⁾	Class 2 Class 3 ³⁾	–	–
EN 12425	Water tightness	Details for doors <u>with / without</u> wicket door	Class 3 (70 Pa)	Class 3 (70 Pa)	Class 3 (70 Pa)	Class 3 (70 Pa)
EN 12426	Air permeability	Details for doors <u>without</u> wicket door	Class 2	Class 2	Class 2	Class 2
		Details for doors <u>with</u> wicket door	Class 1	Class 1	–	–
EN 13241, Appendix B EN 12428	Thermal resistance $U = W/(m^2 \cdot K)$	Details for door <u>without</u> wicket door: 5000 x 5000 mm	3,6 3,2 ¹⁾ 2,7 ²⁾	3,0 2,6 ¹⁾ 2,1 ²⁾	6,1 2,7 ²⁾	3,2 3,1 ¹⁾
		Details for doors <u>with</u> wicket door 5000 x 5000 mm	3,8 3,4 ¹⁾	3,2 2,8 ¹⁾	–	–
EN 717-1	Noise (acoustic value) $R_w = dB$	Details for doors <u>without</u> wicket door	23 30 ⁴⁾	23 30 ⁴⁾	30	23
		Details for doors <u>with</u> wicket door	22 29 ⁴⁾	22 29 ⁴⁾	–	–

Note:

Higher classes and better thermal insulation values or acoustic values on request!

- 1) The information refers to U-values that are achieved with a synthetic triple pane (S3) (optional), 26 mm ($U_g = 1.9 W/(m^2 \cdot K)$).
- 2) The information refers to U-values that are achieved with a climatic double pane made of single-pane safety glass (G2) (optional), 26 mm ($U_g = 1.1 W/(m^2 \cdot K)$).
- 3) For door widths up to 4000 mm.
- 4) The information in brackets refers to the acoustic values that are achieved with a real glass pane (optional).
- 5) Lower class rating may apply for doors with compound glazing

Sectional doors Door sections without finger trap protection

Depth 67 mm

Product description

Door leaf (door sections made of steel sections)

SPU 67 Thermo

Double-skinned steel sections, with thermal break, made of hot-galvanized sheet steel, PU-foamed with steel end caps

Surface finish (steel section texture)

Stucco: Exterior S-ribbed, Stucco-textured with horizontal ribbing at a distance of 125 mm, interior Stucco-textured

Micrograin: Exterior L-ribbed Micrograin, interior Stucco-textured

Height of door sections 625 / 750 mm (door width max. 6000 mm) or 500 / 375 mm (combination of 2 door section heights within the door)

Door leaf (door sections made of aluminium extrusion profiles)

APU 67 Thermo

Bottom section:

Double-skinned steel sections with thermal break, made of hot-galvanized sheet steel, PU-foamed with steel end caps, bottom section height 750 mm (standard)

Surface finish (steel section texture)

Stucco: Exterior S-ribbed, Stucco-textured with horizontal ribbing at a distance of 125 mm, interior Stucco-textured

Micrograin: Exterior L-ribbed Micrograin, interior Stucco-textured

Glazing frame:

Anodised aluminium extrusion profiles with thermal break, with steel end caps

Infill type:

Clear synthetic triple pane, (S3) 51 mm

ALR 67 Thermo

Glazing frame:

Anodised aluminium extrusion profiles with thermal break, with steel end caps

Infill type:

Bottom glazing frame with PU infill with aluminium sheet cover, both sides Stucco-textured, (FU) 51 mm; Further aluminium glazing frames with clear synthetic triple pane, (S3) 51 mm

ALR 67 Thermo Glazing

Glazing frame:

Anodised aluminium extrusion profiles with thermal break, with steel end caps

Infill type:

Double pane made of single-pane safety glass, (E2) 26 mm

Performance characteristics

Performance characteristics according to EN 13241			SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing
EN 12424	Resistance to wind load	Details for doors <u>without</u> wicket door	Class 3 ⁵⁾ Class 4 ^{3) 5)}	Class 3 Class 4 ³⁾	Class 3 Class 4 ³⁾	Class 3 Class 4 ³⁾
		Details for doors <u>with</u> wicket door	Class 2 ⁵⁾ Class 3 ^{3) 5)}	Class 2 Class 3 ³⁾	Class 2 Class 3 ³⁾	–
EN 12425	Water tightness	Details for doors <u>with</u> / <u>without</u> wicket door	Class 3 (70 Pa)	Class 3 (70 Pa)	Class 3 (70 Pa)	Class 3 (70 Pa)
EN 12426	Air permeability	Details for doors <u>without</u> wicket door	Class 2 Class 4 ^{6) 8) 9)}	Class 2 Class 3 ^{6) 7)}	Class 2 Class 3 ⁶⁾	Class 2 Class 3 ⁶⁾
		Details for doors <u>with</u> wicket door	Class 1	Class 1	Class 1	–
EN 13241, Appendix B EN 12428	Thermal resistance $U = W/(m^2 \cdot K)$	Details for door <u>without</u> wicket door: 5000 × 5000 mm	0,62	2,1 1.8 ¹⁾ 1.6 ²⁾	2,2 1.9 ¹⁾ 1.7 ²⁾	3,0 1.8 ²⁾
		Details for doors <u>with</u> wicket door 5000 × 5000 mm	0,82	2,3 2.0 ¹⁾	2,4 2.1 ¹⁾	–
EN 717-1	Noise (acoustic value) $R_w = dB$	Details for doors <u>without</u> wicket door	25 ⁸⁾	23	23 30 ⁴⁾	30
		Details for doors <u>with</u> wicket door	24 ⁸⁾	22	22 29 ⁴⁾	–

Note:

Higher classes and better thermal insulation values or acoustic values on request!

- 1) The information refers to U-values that are achieved with a synthetic quadruple pane (S4) (optional), 51 mm ($U_g = 1.3 W/(m^2 \cdot K)$).
- 2) The information refers to U-values that are achieved with a climatic double pane made of single-pane safety glass (G2) (optional), 26 mm ($U_g = 1.1 W/(m^2 \cdot K)$).
- 3) For door widths up to 4000 mm
- 4) The information in brackets refers to the acoustic values that are achieved with a real glass pane (optional).
- 5) Lower class rating may apply for doors with compound glazing
- 6) With ThermoFrame
- 7) Only for Micrograin surface finish
- 8) For doors without glazing frame
- 9) With optional set for increased air tightness

Sectional doors

Depth 42 mm and 67 mm

Product description

Surface

SPU F42 / SPU 67 Thermo

Steel section coating:
Exterior and interior polyester primer-coated with coil coating procedure, based on RAL 9002 Grey white

Glazing frame coating:
Anodised with natural finish E6 / C0

APU F42 / APU F42 Thermo / APU 67 Thermo

Bottom section coating:
Exterior polyester primer-coated with coil coating procedure, based on RAL 9006 White aluminium
Interior polyester primer-coated with coil coating procedure, based on RAL 9002 Grey white

Glazing frame coating:
Anodised with natural finish E6 / C0

ALR F42 / ALR F42 Thermo / ALR F42 Glazing / ALR 67 Thermo / ALR 67 Thermo Glazing

Glazing frame coating:
Anodised with natural finish E6 / C0

ALR F42 Vitraplan

Glazing frame coating:
Exterior and interior polyester primer-coated with wet coating process, based on RAL 9005 Jet black, adapted to the synthetic glazing fitted in front in a shade of grey.
Door leaf reinforcements, steel end caps and central hinges based on RAL 9005 Jet black, adapted to the synthetic glazing fitted in front in a shade of grey.

All further steel parts manufactured from hot-galvanized steel. Coated torsion springs.

For RAL colours, see "Surface coating" from page 80.

Frame / track application

Angle frame with side trap guards, made of hot-galvanized sheet steel, screwed tracks, double radius 510 mm.
Descriptions and prices for the frame types can be found on the following pages.

Door lock

Manually operated: Inside locking using a shootbolt, rotary latch (with track applications that have low-mounted torsion spring shaft on request) or floor locking is included in the door price.

Power-driven: Inside locking using a shootbolt subject to surcharge.

Counterbalance

Torsion springs, with carrying cables on the side (with a low headroom track application, a combination of carrying chain and carrying cable).
The torsion springs for track applications N, ND, NS, NK, NA, NH, GD, GS, GK, L and LD are designed for at least 25000 closing cycles and for all other track applications for at least 50000 closing cycles.
For version with direct drive operator via the operator, tubular shaft and carrying cables on the side.

Safety-related equipment according to DIN EN 12604

- Manually operated doors using one torsion spring on both sides with approved catch safety device and integrated anti-lift kit *)
- Manually operated doors using more than one torsion spring with approved spring safety device and with approved catch safety device on both sides and integrated anti-lift kit. *)
(Not possible for versions with direct drive operator)
- Finger trap protection exterior and interior (not with door types SPU 67 Thermo, APU 67 Thermo, ALR 67 Thermo and ALR 67 Thermo Glazing)

* European patent

Information on trap guard:

To fully meet the safety requirements of door product standard DIN EN 13241 with regard to trap guards, the following door systems require an operator and a light grille HLG 550:

Door type		SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing
Track applications	N, NA, ND, NS, NK	Door height $\leq$ 3125		Door height $\leq$ 3165	
	NH, GD, GS, GK	Door height $\leq$ 3000		Door height $\leq$ 3040	
	L, LD	Door height $\leq$ 3250		Door height $\leq$ 3290	
	H, HA, HD, HS, HK, VS after technical inspection	Door height $\leq$ 3125		Door height $\leq$ 3165	

* with standard door section design

Please note:

- The light grille must be fitted in the reveal to secure gaps resulting during door travel up to a height of 2500 mm above FFL or a different permanent access level.

Seals

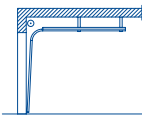
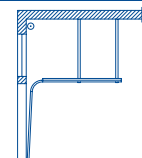
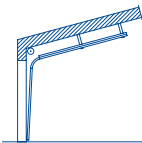
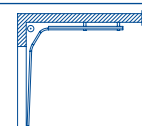
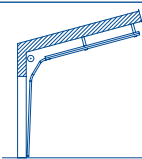
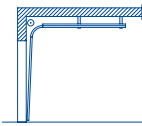
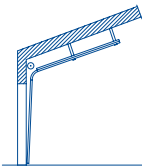
Sectional doors with depth 42 mm

Bottom seal made of 5-chamber EPDM profile with flexible adjustment lip, side seal, lintel seal and intermediate seal between the door sections.

Sectional doors with depth 67 mm

Bottom seal made of 1-chamber profile inside and 3-chamber EPDM profile outside with flexible adjustment lip, side seal, lintel seal and intermediate seal between the door sections.

Track applications

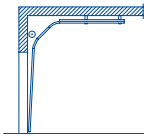
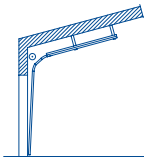
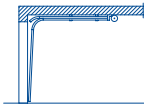
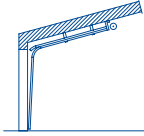
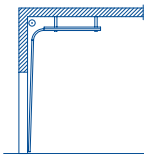
Track applications N			Article no.		Surcharges	
	N 1)2)	Normal track application	N1	3096643		Included in the door price!
		A WA 500 FU is required for track application N3 with operator!	N2	3096644		
			N3	3096645		
	NA 1)2)	As with track application N With high-mounted torsion spring shaft Door height RM ≤ 5000 mm	NA1	3096656	+ € 268	On the basic table price
		NA2	3096657			
	ND 1)2)	As with track application N With inclination (30° maximum)	ND1	3096647	+ € 148	On the basic table price
		A WA 500 FU is required for track application ND3 with operator at an inclination of up to 6°!	ND2	3096648		
			ND3	3096649		
		Special version inclination 32° – 46° Door height RM ≤ 5000 mm	ND6	3096650		
	ND7	3096651				
		Technical inspection required!				
	NS 1)2)	As with track application N With double radius Door height RM ≤ 5000 mm	NS1	3096652	+ € 323	On the basic table price
			NS2	3096653		
		Technical inspection required!				
		Note: Version RC 2 only possible with angle C = 40° and 45°.				
	NK 1)2)	As with track application N With double radius and inclination Door height RM ≤ 5000 mm	NK1	3096654	+ € 585	On the basic table price
			NK2	3096655		
		Technical inspection required!				
		Note: Version RC 2 only possible with angle C = 40° and 45°.				
Track applications NH			Article no.		Surcharges	
	NH 1)2)	As with track application N With minimum high-lift Door height RM ≤ 5000 mm	NH1	3096658	+ € 195	On the basic table price
			NH2	3096659		
		Note: • Double radius 361 mm • Door travel speed up to 0.5 m/s possible.				
		As with track application N With minimum high-lift Door height RM > 5000 mm	NH3	3096660	+ € 528	On the basic table price
		Note: • Double radius 361 mm • Door travel speed up to 0.5 m/s possible.				
		A WA 500 FU is required for track application NH3 with operator!				
	GD 1)2)	As with track application NH With inclination (28° maximum) Door height RM ≤ 5000 mm	GD1	3096661	+ € 337	On the basic table price
			GD2	3096662		
		Note: • Double radius 361 mm • Door travel speed up to 0.5 m/s possible.				

Notes:

- 1) Not possible for versions with direct drive operator!
2) For information on trap guard, see page 7.

Manual track application size change	Article no.	Surcharges	
Manual track application size change	3091251	+ € 426	On the basic table price

Track applications

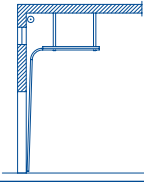
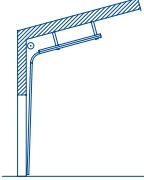
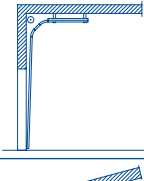
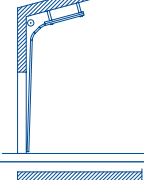
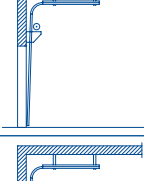
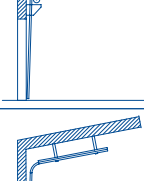
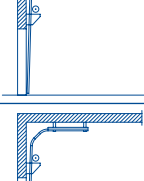
Track applications NH		Article no.		Surcharges			
	GS ^{1) 2)}	As with track application NH With double radius Door height RM ≤ 5000 mm	GS1 3096663 GS2 3096664	+ € 509	On the basic table price		
		Technical inspection required!					
		Note: • Double radius 361 mm • Door travel speed up to 0.5 m/s possible.					
	GK ^{1) 2)}	GK as with track application NH With double radius and inclination. Door height RM ≤ 5000 mm	GK1 3096665 GK2 3096666	+ € 812	On the basic table price		
		Technical inspection required!					
		Note: • Double radius 361 mm • Door travel speed up to 0.5 m/s possible.					
Track applications L							
	L ^{1) 2)}	Low headroom track application Door height RM ≤ 5000 mm	L1 3096667 L2 3096668	+ € 304	On the basic table price		
		Swing mechanism for track application L / track application LD to increase the clear passage	Galvanized 3098424 Stainless steel 3098425			+ € 265 + € 454	
			Notes: • Not required with ITO / SupraMatic HT operators. • Only with chain hoist or shaft operator. • Not possible for door locking with rotary latch or floor locking. • Not possible for chamfered bottom sections.				
	LD ^{1) 2)}	As with track application L With inclination Door height RM ≤ 5000 mm	LD1 3096669 LD2 3096670	+ € 448	On the basic table price		
		Swing mechanism for track application L / track application LD to increase the clear passage	Galvanized 3098424 Stainless steel 3098425			+ € 265 + € 454	
			Notes: • Inclination of up to 10° possible. • Not required with ITO / SupraMatic HT operators. • Only with chain hoist or shaft operator. • Not possible for door locking with rotary latch or floor locking. • Not possible for chamfered bottom sections.				
Track applications H							
	H ²⁾	High-lift track application	H4 3096671 H5 3096672 H8 3096673	+ 7 %	On the basic table price		
		High-lift track application for direct drive operators S 75 and S 140 Tubular shaft direct drive operator required!	H10 3096675 H11 3096676			+ 7 %	On the basic table price
			Surcharge for tubular shaft direct drive operator				
Technical inspection required!							

Notes:

- 1) Not possible for versions with direct drive operator!
- 2) For information on trap guard, see page 7.

Manual track application size change	Article no.	Surcharges
Manual track application size change	3091251	+ € 426

Track applications

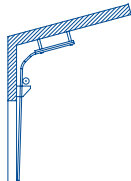
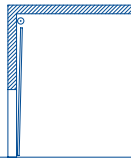
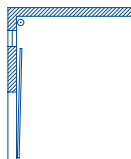
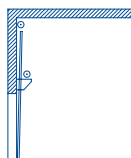
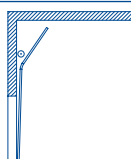
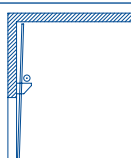
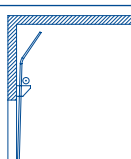
Track applications H		Article no.	Surcharges		
	HA ^{1) 2)}	As with track application H With high-mounted torsion spring shaft Door height RM ≤ 3500 mm	HA4 3096686	+ 7 % + € 268	On the basic table price
	HD ^{1) 2)}	As with track application H With inclination	HD4 3096677 HD5 3096678 HD8 3096679	+ 7 % + € 148	On the basic table price
	HS ^{1) 2)}	As with track application H With double radius Technical inspection required!	HS 4 3096680 HS5 3096681 HS8 3096682	+ 7 % + € 323	On the basic table price
	HK ^{1) 2)}	As with track application H With double radius and inclination Technical inspection required!	HK4 3096683 HK5 3096684 HK8 3096685	+ 7 % + € 585	On the basic table price
	HP ^{1) 2)}	High-lift track application for Parcel version Double radius 361 mm Technical inspection required! Please refer to the technical manual for further information about this version.	HP4 3099109 HP5 3099110	+ 7 %	On the basic table price
	HU ¹⁾	As with track application H With low-mounted spring shaft	HU4 3096689 HU5 3096690 HU8 3097352	+ 12 %	On the basic table price
	RD ¹⁾	As with track application HU With inclination Door height RM ≤ 5000 mm	RD4 3096691 RD5 3096692	+ 12 % + € 148	On the basic table price
	RS ¹⁾	As with track application HU With double radius Door height RM ≤ 5000 mm Technical inspection required!	RS4 3096693 RS5 3096694	+ 12 % + € 323	On the basic table price

Notes:

- 1) Not possible for versions with direct drive operator!
2) For information on trap guard, see page 7.

Manual track application size change	Article no.	Surcharges	
Manual track application size change	3091251	+ € 426	On the basic table price

Track applications

Track applications H			Article no.		Surcharges			
	RK ¹⁾	As with track application HU With double radius and inclination Door height RM ≤ 5000 mm	RK4	3096695	+ 12 %	+ € 585	On the basic table price	
			RK5	3096696				
		Technical inspection required!						
Track applications V			Article no.		Surcharges			
	V ¹⁾	Vertical track application (Additional hand pulley required for manually operated doors!)	V6	3096699	+ 5 %		On the basic table price	
			V7	3096700				
			V9	3096701				
	VA ¹⁾	As with track application V With high-mounted torsion spring shaft (Additional hand pulley required for manually operated doors!)	VA6	3096702	+ 5 %	+ € 268	On the basic table price	
		Door height RM ≤ 3500 mm						
	VP ¹⁾	Vertical track application for Parcel version	VP6	3099111	+ 5 %		On the basic table price	
		Technical inspection required!	VP7	3099112				
Please refer to the technical manual for further information about this version.								
	VS ¹⁾	As with track application V, but the tracks are deflected by radii in the upper segment if the ceiling height is too low. (Additional hand pulley required for manually operated doors!)	VS6	3096703	+ 5 %	+ € 323	On the basic table price	
			VS7	3096704				
			VS9	3096705				
Technical inspection required!								
	VU ¹⁾	As with track application V With low-mounted spring shaft (Additional hand pulley required for manually operated doors!)	VU6	3096706	+ 10 %		On the basic table price	
			VU7	3096707				
			VU9	3096708				
	WS ¹⁾	As with track application VU, but the tracks are deflected by radii in the upper segment if the ceiling height is too low. (Additional hand pulley required for manually operated doors!)	WS6	3096709	+ 10 %	+ € 323	On the basic table price	
			WS7	3096710				
			WS9	3096711				
Door height RM ≥ 2200 mm								
Technical inspection required!								

Notes:

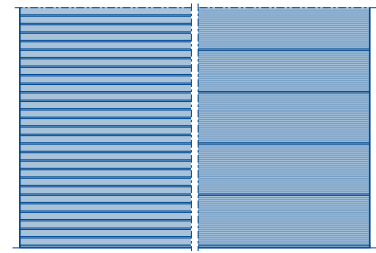
¹⁾ Not possible for versions with direct drive operator!

Manual track application size change	Article no.	Surcharges	
Manual track application size change	3091251	+ € 426	On the basic table price

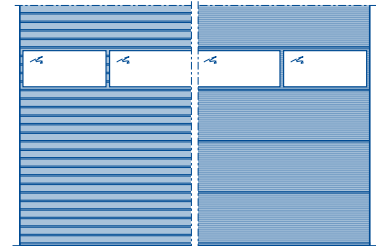
SPU F42
Stucco-textured or Micrograin
Wicket doors from page 60.

[A] **Number of door sections** per door section height
625 mm 750 mm

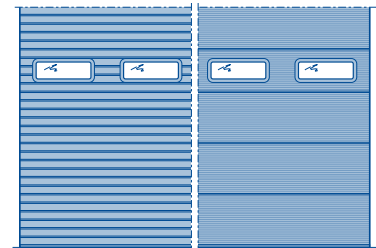
	7500	–	+	10²⁾
	7375	1	+	9
	7250	2	+	8
	7125	3	+	7
	7000	4	+	6
	6875	5	+	5
	6750	–		9²⁾
	6625	1	+	8
	6500	2	+	7
	6375	3	+	6
	6250	4	+	5
	6125	5	+	4
	6000	–		8²⁾
	5875	1	+	7
	5750	2	+	6
	5625	3	+	5
	5500	4	+	4
	5375	5	+	3
	5250	–		7²⁾
	5125	1	+	6
	5000	2	+	5
	4875	3	+	4
	4750	4	+	3
	4625	5	+	2
	4500	–		6²⁾
	4375	1	+	5
	4250	2	+	4
	4125	3	+	3
	4000	4	+	2
	3875	5	+	1
	3750	–		5²⁾
	3625	1	+	4
	3500	2	+	3
	3375	3	+	2
	3250	4	+	1
	3125	5²⁾		–
	3000	–		4²⁾
	2875	1	+	3
	2750	2	+	2
	2625	3	+	1
	2500	4²⁾		–
	2375	4¹⁾		–
	2250	–		3²⁾
	2125	1	+	2
	2000	2	+	1
	1875	3²⁾		–



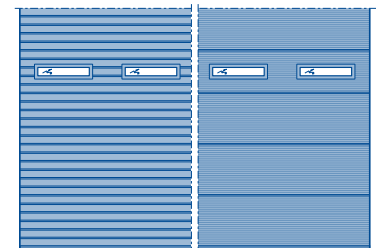
Basic model



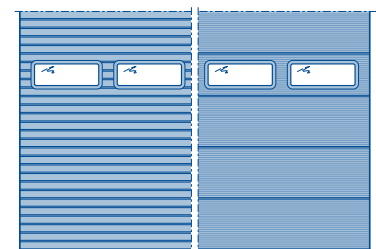
Version with glazing frame



Version with compound glazing type A
Glazing dimensions (W × H): 710 × 320
Clear view (W × H): 635 × 245



Version with compound glazing type D
Glazing dimensions (W × H): 680 × 210
Clear view (W × H): 602 × 132



Version with compound glazing type E
Glazing dimensions (W × H): 800 × 445
Clear view (W × H): 725 × 370

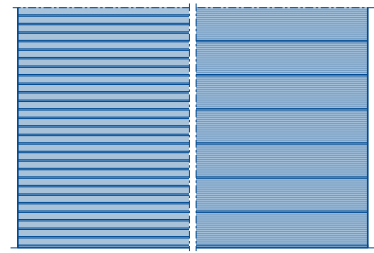
- 1) Top door section 500 mm
- 2) Visual balance with Micrograin due to even door section division along the height

Glazing frame	Page 16
Compound glazings type A, type D and type E	Page 16
Intermediate heights	Page 16
Ventilation grilles	Page 16
Surface coating	From page 80
Accessories	From page 82

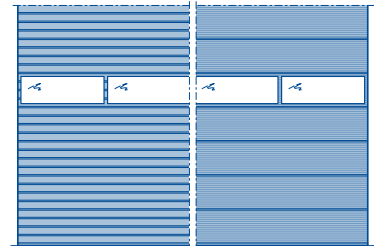
SPU F42
Stucco-textured or Micrograin
Wicket doors from page 60.

[A] **Number of door sections** per door section height

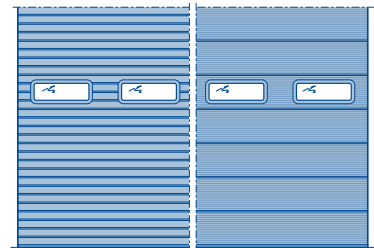
375 mm 500 mm



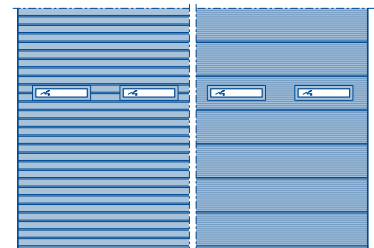
Basic model



Version with glazing frame



Version with compound glazing type A
Glazing dimensions (W × H): 710 × 320
Clear view (W × H): 635 × 245



Version with compound glazing type D
Glazing dimensions (W × H): 680 × 210
Clear view (W × H): 602 × 132

12553								7500	–	15	¹⁾
12490								7375	1	+	14
12276								7250	2	+	13
12220	12601							7125	3	+	12
11978	12344	12718						7000	–	14	¹⁾
11791	12157	12518						6875	1	+	13
11606	11967	12324						6750	2	+	12
11422	11779	12130	12482					6625	3	+	11
11241	11588	11933	12280					6500	–	13	¹⁾
11055	11396	11737	12081	12419				6375	1	+	12
10870	11206	11541	11874	12215				6250	2	+	11
10685	11015	11346	11678	12002				6125	3	+	10
10500	10826	11148	11476	11800	12126	12448		6000	–	12	¹⁾
10317	10635	10954	11272	11593	11910	12226		5875	1	+	11
10131	10446	10758	11073	11384	11695	12012	12323	5750	2	+	10
9948	10254	10563	10870	11181	11483	11791	12100	5625	3	+	9
9763	10064	10367	10665	10971	11271	11576	11873	5500	–	11	¹⁾
9578	9873	10166	10464	10763	11061	11357	11649	5375	1	+	10
9391	9685	9974	10263	10554	10844	11135	11425	5250	2	+	9
9210	9496	9775	10064	10349	10632	10914	11199	5125	3	+	8
7719	7943	8205	8404	8664	8894	9130	9384	5000	–	10	¹⁾
7639	7849	8118	8330	8594	8792	9067	9326	4875	1	+	9
7551	7768	8022	8279	8499	8690	8981	9241	4750	2	+	8
7468	7698	7930	8187	8404	8610	8923	9144	4625	3	+	7
7160	7349	7583	7788	8029	8242	8457	8692	4500	–	9	¹⁾
7082	7276	7518	7714	7954	8138	8389	8633	4375	1	+	8
6675	6881	7091	7274	7468	7655	7931	8125	4250	2	+	7
6603	6791	6995	7193	7368	7568	7848	8021	4125	3	+	6
6279	6439	6649	6824	7011	7178	7384	7618	4000	–	8	¹⁾
6196	6365	6571	6728	6923	7075	7282	7525	3875	1	+	7
6109	6298	6480	6650	6823	6994	7253	7428	3750	2	+	6
6038	6203	6394	6574	6724	6911	7167	7321	3625	3	+	5
5471	5611	5791	5944	6114	6249	6420	6638	3500	–	7	¹⁾
5382	5547	5714	5878	6014	6168	6388	6529	3375	1	+	6
5304	5454	5623	5781	5915	6070	6289	6431	3250	2	+	5
5235	5384	5552	5689	5840	6033	6188	6339	3125	3	+	4
4914	5035	5189	5326	5478	5600	5749	5935	3000	–	6	¹⁾
4706	4833	4968	5091	5225	5349	5491	5611	2875	1	+	5
4634	4751	4883	5004	5126	5249	5394	5509	2750	2	+	4
4543	4665	4802	4919	5035	5161	5289	5413	2625	3	+	3
4161	4283	4391	4495	4611	4723	4840	4953	2500	–	5	¹⁾
4073	4188	4299	4405	4522	4626	4731	4850	2375	1	+	4
4003	4097	4211	4319	4421	4523	4647	4744	2250	2	+	3
3916	4013	4133	4231	4334	4433	4541	4649	2125	3	+	2
3586	3688	3792	3878	3962	4064	4152	4242	2000	–	4	¹⁾
3519	3612	3699	3790	3880	3962	4059	4149	1875	1	+	3

1) Visual balance with Micrograin due to even door section division along the height

6000	6250	6500	6750	7000	7250	7500	7750	8000
Width								

Rail width 52 mm	
5	6
5	6
10	12

Glazing frame	Page 17
Compound glazings type A and type D	Page 17
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Sectional door SPU F42 Door sections with finger trap protection, Stucco-textured / Micrograin

Double-skinned steel sectional door, door sections 625 and 750 mm high , depth 42 mm

Glazing frames, compound glazings, intermediate heights and ventilation grilles

Glazing frame (not possible in RC 2 version!)					
Glazing frame height 625 mm (up to max. door section height acc. to technical manual)			Glazing frame made of standard profile		Glazing frame made of a profile with thermal break For door widths ≤ 7000 mm
Version with:			Rail 52 mm		Rail 52 mm
	U _g in W/(m²·K)		Article no.	€ per m²	Article no. € per m²
Clear synthetic single pane (FK) ²⁾	3 mm		3091048	179	– –
Synthetic single pane, crystal structure (KR) ²⁾	3 mm		3091049	179	– –
Clear synthetic double pane (S2)	26 mm	[U _g = 2.6]	3091052	179	3091076 265
Synthetic double pane, crystal structure (U2)	26 mm	[U _g = 2.6]	3094574	179	3094576 265
Synthetic double pane, grey tinted (A2)	26 mm	[U _g = 2.6]	3091267	203	3091279 299
Synthetic double pane, white tinted (opal) (M2)	26 mm	[U _g = 2.6]	3091269	203	3091281 299
Clear synthetic triple pane (S3)	26 mm	[U _g = 1.9]	3091054	241	3091078 315
Synthetic triple pane, crystal structure (U3)	26 mm	[U _g = 1.9]	3094575	241	3094577 315
Synthetic triple pane, grey tinted (A3)	26 mm	[U _g = 1.9]	3091270	269	3091282 349
Synthetic triple pane, white tinted (opal) (M3)	26 mm	[U _g = 1.9]	3091272	269	3091284 349
Clear polycarbonate single pane (P)	6 mm		3091050	258	– –
Clear polycarbonate double pane (C2)	26 mm	[U _g = 2.7]	3091055	258	3091079 345
Single pane made of laminated safety glass (VG) ¹⁾	6 mm		3091056	441	– –
Double pane made of single-pane safety glass (E2) ¹⁾	26 mm	[U _g = 2.6]	3091057	682	3091080 761
Climatic double pane made of single-pane safety glass (G2) ¹⁾	26 mm	[U _g = 1.1]	3091058	767	3091081 850
Multiple-moulded pane (S)	16 mm	[U _g = 1.9]	3091051	179	3091733 265
Stainless steel expanded mesh (SE) ²⁾ , ventilation cross section 54 % (colour coating not possible)	5 mm		3091059	208	– –
Stainless steel perforated steel sheet (LB) ²⁾ , 8 mm perforation, ventilation cross section 40 %, (colour coating not possible)	1.5 mm		3091060	292	– –
Prepared for on-site infill (BS) ¹⁾ (Anodised glazing bead required)			3091061	179	3091082 265
Rail width of 91 mm (for the purpose of matching appearance)			Article no.		€
Rail width 91 mm			3091108	Each	No surcharge
Compound glazings			Article no.		€
Type A: Plastic frame with clear synthetic double pane ³⁾	33 mm		3054540	Each	71
Type A: Diecast frame with clear synthetic double pane ³⁾	26 mm		3042790	Each	148
Type A: Diecast frame with clear polycarbonate double pane ³⁾	26 mm		3042792	Each	176
Type A: Diecast frame with clear real glass double pane (P4A) ¹⁾	26 mm		3094156	Each	469
Type D: Plastic frame with clear synthetic double pane ³⁾	16 mm		3055167	Each	98
Type E: Plastic frame with clear synthetic double pane ³⁾	33 mm		3054544	Each	95
Intermediate heights			Article no.		€ to the next grid height
Top door section adjusted for intermediate height			3055280	Per running metre door width	46
Ventilation grilles			Article no.		€
Black plastic ventilation grille, ventilation cross section 40 cm² per grille			3092450	Each	35
Sliding cover for ventilation grille			3092451	Each	50
Further optional extras			Article no.		€
Surcharge for additional door section			3060507	Each	+ 12 % On the basic table price
Surcharge for a combination of high and low door sections that differ from the door section heights stated in column [A]			3092280	Per door	520
Surface coating					From page 80
Accessories					From page 82

- 1) On request
- 2) Max. field width 1230 mm, additional field may be required!
- 3) Not possible with version RC 2!

Sectional door SPU F42 Door sections with finger trap protection, Stucco-textured / Micrograin

Double-skinned steel sectional door, door sections 375 and 500 mm high , depth 42 mm

Glazing frames, compound glazings, intermediate heights and ventilation grilles

Glazing frame (not possible in RC 2 version!)					
Glazing frame height 375 mm (up to max. door section height acc. to technical manual)		Glazing frame made of standard profile		Glazing frame made of a profile with thermal break For door widths ≤ 7000 mm	
Version with:		Rail 52 mm		Rail 52 mm	
		Article no.	€ per m ²	Article no.	€ per m ²
Clear synthetic single pane (FK) ²⁾	3 mm	3091062	265	–	–
Synthetic single pane, crystal structure (KR) ²⁾	3 mm	3091063	265	–	–
Clear synthetic double pane (S2)	26 mm [U _g = 2.6]	3091066	265	3091083	394
Synthetic double pane, crystal structure (U2)	26 mm [U _g = 2.6]	3094578	265	3094580	394
Synthetic double pane, grey tinted (A2)	26 mm [U _g = 2.6]	3091273	299	3091285	441
Synthetic double pane, white tinted (opal) (M2)	26 mm [U _g = 2.6]	3091275	299	3091287	441
Clear synthetic triple pane (S3)	26 mm [U _g = 1.9]	3091068	355	3091085	469
Synthetic triple pane, crystal structure (U3)	26 mm [U _g = 1.9]	3094579	355	3094581	469
Synthetic triple pane, grey tinted (A3)	26 mm [U _g = 1.9]	3091276	399	3091288	515
Synthetic triple pane, white tinted (opal) (M3)	26 mm [U _g = 1.9]	3091278	399	3091290	515
Clear polycarbonate single pane (P)	6 mm	3091064	384	–	–
Clear polycarbonate double pane (C2)	26 mm [U _g = 2.7]	3091069	384	3091086	510
Single pane made of laminated safety glass (VG) ³⁾	6 mm	3091070	657	–	–
Double pane made of single-pane safety glass (E2) ³⁾	26 mm [U _g = 2.6]	3091071	1006	3091087	1137
Climatic double pane made of single-pane safety glass (G2) ³⁾	26 mm [U _g = 1.1]	3091072	1140	3091088	1265
Multiple-moulded pane (S)	16 mm [U _g = 1.9]	3091065	265	3091734	394
Stainless steel expanded mesh (SE) ²⁾ , ventilation cross section 54 % (colour coating not possible)	5 mm	3091073	310	–	–
Stainless steel perforated steel sheet (LB) ²⁾ , 8 mm perforation, ventilation cross section 40 %, (colour coating not possible)	1.5 mm	3091074	432	–	–
Prepared for on-site infill (BS) ¹⁾ (Anodised glazing bead required)		3091075	265	3091089	394
Rail width of 91 mm (for the purpose of matching appearance)			Article no.	€	
Rail width 91 mm			3091108	Each	No surcharge
Compound glazings			Article no.	€	
Type A: Plastic frame with clear synthetic double pane ⁴⁾	33 mm		3054540	Each	71
Type A: Diecast frame with clear synthetic double pane ⁴⁾	26 mm		3042790	Each	148
Type A: Diecast frame with clear polycarbonate double pane ⁴⁾	26 mm		3042792	Each	176
Type A: Diecast frame with clear real glass double pane (P4A) ¹⁾	26 mm		3094156	Each	469
Type D: Plastic frame with clear synthetic double pane ⁴⁾	16 mm		3055167	Each	98
Intermediate heights			Article no.	€ to the next grid height	
Top door section adjusted for intermediate height			3055280	Per running metre door width	46
Ventilation grilles			Article no.	€	
Black plastic ventilation grille, ventilation cross section 40 cm ² per grille			3092450	Each	35
Sliding cover for ventilation grille			3092451	Each	50
Further optional extras			Article no.	€	
Surcharge for additional door section			3060507	Each	+ 12 % On the basic table price
Surcharge for a combination of high and low door sections that differ from the door section heights stated in column [A]			3092280	Per door	520
Surface coating				From page 80	
Accessories				From page 82	

1) On request

2) Max. field width 1230 mm, additional field may be required!

3) Only for door width up to 6000 mm; on request

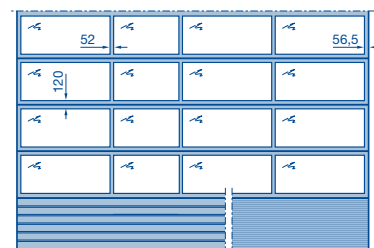
4) Not possible with version RC 2!

APU F42

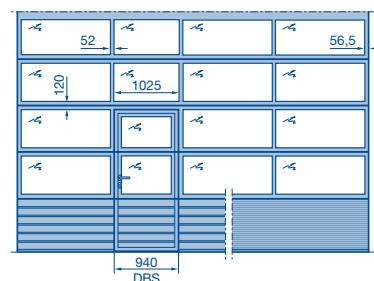
Wicket doors from page 60.



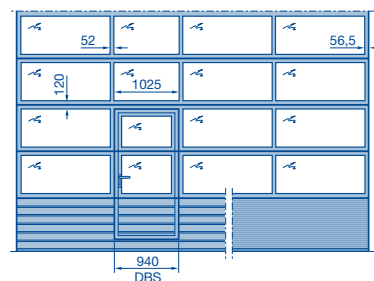
Basic model (without wicket door)
With uniform field division along the width



Basic model (without wicket door)
Field division along the width matching doors
with wicket door



Version with wicket door without threshold rail



Version with wicket door and threshold rail

DBS Wicket door clear passage width

									Number of glazing frames ¹⁾ For bottom section height		
									750 mm [A]	1500 mm [B] ²⁾	
	15395	16010	16626	17241	17858				7500	9	8
	15178	15787	16394	17000	17609				7375	9	8
	14970	15567	16168	16766	17365				7250	9	8
	14753	15345	15934	16524	17115	17705			7125	9	8
	14378	14952	15527	16104	16680	17254			7000	9	8
	14292	14862	15434	16008	16579	17151			6875	9	8
	13902	14455	15011	15567	16123	16679	17235	17790	6750	8	7
	13820	14372	14925	15478	16030	16583	17136	17689	6625	8	7
	13737	14285	14836	15386	15934	16485	17035	17581	6500	8	7
	13627	14174	14717	15264	15810	16354	16897	17443	6375	8	7
	13402	13936	14474	15008	15545	16082	16616	17152	6250	8	7
	13316	13850	14385	14914	15444	15977	16510	17041	6125	8	7
	13098	13622	14143	14666	15193	15714	16237	16763	6000	7	6
	12875	13185	13692	14199	14705	15211	15720	16227	5875	7	6
	12381	12686	13176	13662	14152	14640	15129	15617	5750	7	6
	12280	12586	12866	13339	13819	14293	14772	15247	5625	7	6
	12168	12474	12752	13023	13488	13954	14418	14884	5500	7	6
	12078	12383	12666	12934	13396	13857	14318	14781	5375	7	6
	11535	11846	12125	12394	12837	13278	13719	14165	5250	6	5
	11438	11743	12022	12291	12729	13168	13606	14047	5125	6	5
	10527	10835	11111	11383	11741	11999	12319	12564	5000	6	5
	10440	10729	10993	11283	11606	11914	12191	12456	4875	6	5
	10362	10603	10900	11178	11471	11806	12049	12313	4750	6	5
	10249	10491	10779	11070	11372	11678	11914	12144	4625	6	5
	9425	9706	9957	10201	10516	10751	11038	11258	4500	5	4
	9338	9600	9840	10102	10385	10664	10915	11150	4375	5	4
	8902	9131	9345	9569	9819	10073	10300	10522	4250	5	4
	8819	9012	9228	9456	9717	9945	10159	10411	4125	5	4
	8632	8879	9088	9288	9555	9773	9996	10216	4000	5	4
	8515	8763	8977	9173	9431	9662	9863	10073	3875	5	4
	7708	7915	8094	8302	8519	8733	8936	9131	3750	4	3
	7627	7791	7976	8187	8409	8607	8801	9017	3625	4	3
	7159	7667	7831	8003	8231	8406	8621	8795	3500	4	3
	7019	7527	7683	7863	8089	8268	8472	8655	3375	4	3
	6931	7403	7570	7753	7954	8152	8322	8533	3250	4	3
	6816	6983	7458	7640	7847	8034	8210	8416	3125	4	3
	6006	6192	6338	6473	6663	6851	7298	7446	3000	3	2
	5765	5920	6063	6191	6373	6539	6667	7328	2875	3	2
	5652	5824	5937	6090	6262	6407	6535	6670	2750	3	2
	5557	5693	5816	5961	6147	6275	6410	6540	2625	3	2
	5398	5537	5680	5808	5957	6104	6257	6375	2500	3	2
	5303	5440	5570	5685	5851	5990	6120	6237	2375	3	2
	4553	4672	4781	4902	5023	5153	5253	5362	2250	2	1
	4459	4564	4656	4777	4928	5024	5128	5233	2125	2	1
	4300	4414	4525	4641	4736	4853	4965	5072	2000	2	1
	4185	4293	4426	4503	4609	4723	4844	4936	1875	2	1

6000	6250	6500	6750	7000	7250	7500	7750	8000
Width								
Rail width 52 mm								
5						6		
10						12		

▲
Basic
table
price
-7 %

- 1) See the technical manual for the number of door sections
- 2) [B] with a bottom section height of 1500 mm, basic table price -7 %

Alternative infills	Page 20
Alternative real glass infills	Page 20
Additional glazing frames	Page 20
Ventilation grilles	Page 20
Surface coating	From page 80
Accessories	From page 82

Sectional door APU F42 Door sections with finger trap protection

Glazed aluminium sectional door, with steel bottom section, Stucco-textured or Micrograin

Alternative infills / real glass infills, glazing frames and ventilation grilles

Alternative infills		U _g in W/(m ² ·K)	Article no.	€
Clear synthetic single pane (FK) ²⁾	3 mm		3091521	Each
Synthetic single pane, crystal structure (KR) ²⁾	3 mm		3091522	Each
Clear synthetic double pane (S2)	26 mm	[U _g = 2.6]	3091525	Included in the door price
Synthetic double pane, crystal structure (U2)	26 mm	[U _g = 2.6]	3094582	Each
Synthetic double pane, grey tinted (A2)	26 mm	[U _g = 2.6]	3091255	Each
Synthetic double pane, white tinted (opal) (M2)	26 mm	[U _g = 2.6]	3091257	Each
Clear synthetic triple pane (S3)	26 mm	[U _g = 1.9]	3091527	Each
Synthetic triple pane, crystal structure (U3)	26 mm	[U _g = 1.9]	3094583	Each
Synthetic triple pane, grey tinted (A3)	26 mm	[U _g = 1.9]	3091258	Each
Synthetic triple pane, white tinted (opal) (M3)	26 mm	[U _g = 1.9]	3091260	Each
Clear polycarbonate single pane (P)	6 mm		3091523	Each
Clear polycarbonate double pane (C2)	26 mm	[U _g = 2.7]	3091528	Each
Multiple-moulded pane (S)	16 mm	[U _g = 1.9]	3091524	Each
Stainless steel expanded mesh (SE) ²⁾ , ventilation cross section 54 % (colour coating not possible)	5 mm		3091529	Each
Stainless steel perforated steel sheet (LB) ²⁾ , 8 mm perforation, ventilation cross section 40 %, (colour coating not possible)	1.5 mm		3091530	Each
PU infill with aluminium sheet cover, both sides Stucco-textured (FU)	26 mm	[U _g = 1.0]	3091532	Each
PU infill with aluminium sheet cover, smooth anodised on both sides (XU)	26 mm	[U _g = 1.0]	3091531	Each
Prepared for on-site infill (BS) ¹⁾ (Anodised glazing bead required)			3091533	Each
Alternative real glass infills		U _g in W/(m ² ·K)	Article no.	€
Up to door width 6000 mm ¹⁾ with:				
Single pane of laminated safety glass (VG)	6 mm		3091534	Per m ²
Double pane made of single-pane safety glass (E2)	26 mm	[U _g = 2.6]	3091535	Per m ²
Climatic double pane made of single-pane safety glass (G2)	26 mm	[U _g = 1.1]	3091536	Per m ²
Additional glazing frame			Article no.	€
- Glazing frame height acc. to the technical manual - Rail width 52 mm - If the number of glazing frames is greater than specified in columns [A] or [B].				
With synthetic double pane, clear (S2)	26 mm		3092549	Each
				+ 14 % On the basic table price
Rail width of 91 mm (for the purpose of matching appearance)			Article no.	€
Rail width 91 mm			3091108	Each
Ventilation grilles			Article no.	€
Black plastic ventilation grille, ventilation cross section 40 cm ² per grille			3092450	Each
Sliding cover for ventilation grille			3092451	Each
Further optional extras			Article no.	€
Surcharge for frame heights that differ from the standard			3060532	Per door
				232
Surface coating				From page 80
Accessories				From page 82

1) On request

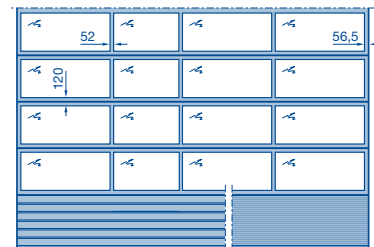
2) Max. field width 1230 mm, additional field may be required!

Notes and sketches

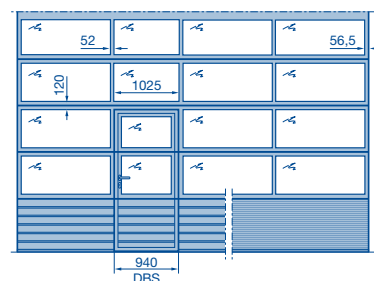
APU F42 Thermo
Wicket doors from page 60.



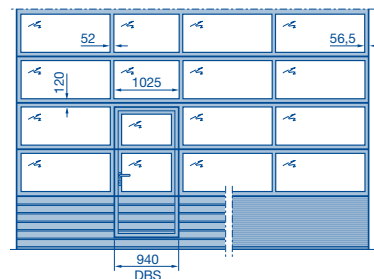
Basic model (without wicket door)
With uniform field division along the width



Basic model (without wicket door)
Field division along the width matching doors
with wicket door



Version with wicket door without threshold rail



Version with wicket door and threshold rail

DBS Wicket door clear passage width

						Number of glazing frames ¹⁾ For bottom section height	
						750 mm [A]	1500 mm [B] ²⁾
16781	17483	18182	18882		7500	9	8
16577	17267	17958	18649	19341	7375	9	8
16371	17056	17737	18418	19101	7250	9	8
16168	16841	17515	18188	18861	7125	9	8
15761	16418	17074	17731	18386	7000	9	8
15668	16323	16978	17630	18281	6875	9	8
15144	15776	16406	17037	17668	6750	8	7
15058	15689	16314	16943	17570	6625	8	7
14971	15594	16219	16842	17464	6500	8	7
14858	15478	16095	16716	17337	6375	8	7
14637	15247	15859	16468	17078	6250	8	7
14547	15155	15759	16366	16972	6125	8	7
13942	14651	15236	15822	16407	6000	7	6
13830	14539	14873	15443	16015	5875	7	6
13328	14034	14370	14925	15478	5750	7	6
13216	13922	14258	14570	15111	5625	7	6
13095	13800	14139	14450	14750	5500	7	6
12998	13704	14042	14351	14655	5375	7	6
12313	13018	13354	13665	13967	5250	6	5
12202	12909	13246	13556	13857	5125	6	5
11283	11989	12325	12638	12940	5000	6	5
11187	11888	12214	12509	12828	4875	6	5
11095	11805	12076	12403	12711	4750	6	5
10975	11681	11953	12275	12598	4625	6	5
9936	10672	10980	11254	11524	4500	5	4
9845	10573	10862	11124	11413	4375	5	4
9452	10127	10382	10620	10874	4250	5	4
9326	10035	10255	10497	10750	4125	5	4
9176	9834	10110	10342	10570	4000	5	4
9070	9706	9982	10220	10446	3875	5	4
8203	8714	8942	9143	9374	3750	4	3
8076	8621	8809	9016	9248	3625	4	3
7655	8141	8678	8862	9053	3500	4	3
7510	7997	8521	8703	8903	3375	4	3
7410	7896	8391	8578	8781	3250	4	3
7286	7772	7955	8458	8659	3125	4	3
6392	6773	6974	7137	7286	3000	3	2
6147	6523	6695	6851	6998	2875	3	2
6029	6400	6588	6720	6886	2750	3	2
5917	6294	6446	6586	6748	2625	3	2
5762	6121	6281	6436	6585	2500	3	2
5643	6018	6177	6317	6454	2375	3	2
4782	5079	5211	5335	5465	2250	2	1
4673	4978	5093	5201	5334	2125	2	1
4519	4808	4936	5057	5184	2000	2	1
4403	4682	4804	4949	5036	1875	2	1

▲
Basic table
price -7 %

5750	6000	6250	6500	6750	7000
Width					
Rail width 52 mm					
5					
10					

- 1) See the technical manual for the number of door sections
- 2) [B] with a bottom section height of 1500 mm, basic table price -7 %

Alternative infills	Page 24
Additional glazing frames	Page 24
Rail width 91 mm	Page 24
Ventilation grilles	Page 24
Surface coating	From page 80
Accessories	From page 82

Sectional door APU F42 Thermo Door sections with finger trap protection

Glazed aluminium sectional door with thermal break,
with steel bottom section, Stucco-textured or Micrograin

Alternative infills, glazing frames and ventilation grilles

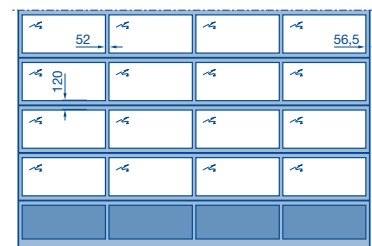
Alternative infills		U _g in W/(m ² ·K)	Article no.	€
Clear synthetic double pane (S2)	26 mm	[U _g = 2.6]	3091525	Included in the door price
Synthetic double pane, crystal structure (U2)	26 mm	[U _g = 2.6]	3094582	Each No surcharge
Synthetic double pane, grey tinted (A2)	26 mm	[U _g = 2.6]	3091255	Each 34
Synthetic double pane, white tinted (opal) (M2)	26 mm	[U _g = 2.6]	3091257	Each 34
Clear synthetic triple pane (S3)	26 mm	[U _g = 1.9]	3091527	Each 82
Synthetic triple pane, crystal structure (U3)	26 mm	[U _g = 1.9]	3094583	Each 82
Synthetic triple pane, grey tinted (A3)	26 mm	[U _g = 1.9]	3091258	Each 110
Synthetic triple pane, white tinted (opal) (M3)	26 mm	[U _g = 1.9]	3091260	Each 110
Clear polycarbonate double pane, 26 mm (C2)	26 mm	[U _g = 2.7]	3091528	Each 124
Multiple-moulded pane (S)	16 mm	[U _g = 1.9]	3091524	Each No surcharge
PU infill with aluminium sheet cover, both sides Stucco-textured (FU)	26 mm	[U _g = 1.0]	3091532	Each No surcharge
PU infill with aluminium sheet cover, smooth anodised on both sides (XU)	26 mm	[U _g = 1.0]	3091531	Each 140
Prepared for on-site infill (BS) ¹⁾ (Anodised glazing bead required)			3091533	Each No surcharge
Alternative real glass infills		U _g in W/(m ² ·K)	Article no.	€
Up to door width 6000 mm ¹⁾ with:				
Double pane made of single-pane safety glass (E2)	26 mm	[U _g = 2.6]	3091535	Per m ² 394
Climatic double pane made of single-pane safety glass (G2)	26 mm	[U _g = 1.1]	3091536	Per m ² 525
Additional glazing frame			Article no.	€
- Glazing frame height acc. to the technical manual - Rail width 52 mm - If the number of glazing frames is greater than specified in columns [A] or [B].				
With synthetic double pane, clear (S2)	26 mm		3092550	Each + 16 % On the basic table price
Rail width of 91 mm (for the purpose of matching appearance)			Article no.	€
Rail width 91 mm			3091108	Each No surcharge
Ventilation grilles			Article no.	€
Black plastic ventilation grille, ventilation cross section 40 cm ² per grille			3092450	Each 35
Sliding cover for ventilation grille			3092451	Each 50
Further optional extras			Article no.	€
Surcharge for frame heights that differ from the standard			3060532	Per door 232
Surface coating				From page 80
Accessories				From page 82

1) On request

Notes and sketches

ALR F42

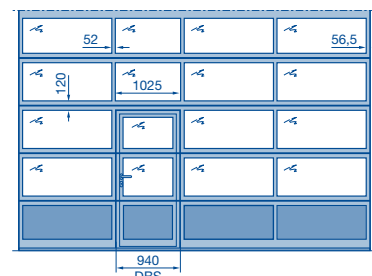
Wicket doors from page 60.



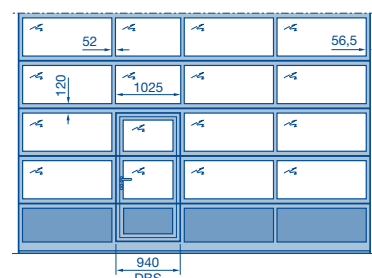
Basic model (without wicket door)
With uniform field division along the width



Basic model (without wicket door)
Field division along the width matching doors
with wicket door



Version with wicket door without threshold rail



Version with wicket door and threshold rail

DBS Wicket door clear passage width

1) See the technical manual for the number
of door sections

										Number of glazing frames 1)
										[A]
15989	16656	17323	17989	18653					7500	10
15787	16445	17102	17760	18417					7375	10
15580	16231	16881	17530	18179	18825				7250	10
15376	16015	16658	17298	17939	18578				7125	10
14993	15618	16242	16865	17490	18115				7000	10
14912	15536	16153	16775	17398	18018				6875	10
14542	15150	15754	16360	16966	17571	18179	18784		6750	9
14459	15060	15663	16267	16868	17472	18073	18677		6625	9
14376	14975	15576	16174	16774	17374	17971	18572	19169	6500	9
14276	14866	15465	16058	16655	17248	17842	18438	19033	6375	9
14054	14640	15229	15813	16397	16982	17569	18154	18739	6250	9
13969	14551	15133	15717	16298	16882	17462	18043	18627	6125	9
13525	14166	14733	15299	15864	16433	16998	17567	18132	6000	8
13427	14064	14406	14963	15515	16069	16624	17177	17731	5875	8
12923	13563	13906	14442	14975	15512	16046	16582	17116	5750	8
12820	13456	13800	14120	14645	15166	15690	16210	16735	5625	8
12707	13341	13689	14007	14316	14827	15342	15852	16361	5500	8
12612	13251	13597	13911	14220	14729	15236	15743	16252	5375	8
12090	12727	13072	13390	13697	14090	14394	14876	15353	5250	7
11985	12623	12967	13286	13596	13986	14290	14768	15243	5125	7
11070	11710	12053	12370	12679	13073	13377	13730	14017	5000	7
10982	11616	11942	12243	12568	12937	13286	13601	13904	4875	7
10894	11535	11811	12147	12458	12797	13172	13450	13748	4750	7
10774	11413	11688	12017	12342	12686	13029	13305	13568	4625	7
9936	10616	10931	11224	11501	11863	12136	12457	12717	4500	6
9848	10521	10822	11097	11397	11726	12046	12330	12609	4375	6
9461	10078	10348	10591	10854	11156	11446	11707	11967	4250	6
9339	9991	10224	10473	10734	11038	11305	11562	11848	4125	6
9189	9797	10078	10326	10560	10870	11130	11390	11641	4000	6
9097	9679	9963	10210	10446	10750	11017	11253	11501	3875	6
8432	8901	9143	9357	9608	9869	10118	10362	10595	3750	5
8308	8807	9011	9236	9482	9753	9986	10215	10468	3625	5
8161	8630	8883	9085	9293	9567	9775	10033	10244	3500	5
8035	8481	8733	8928	9150	9416	9637	9873	10095	3375	5
7927	8379	8606	8809	9030	9276	9508	9717	9968	3250	5
7539	7974	8176	8690	8905	9156	9380	9593	9837	3125	5
6847	7193	7419	7603	8090	8306	8511	8723	8908	3000	4
6608	6949	7138	7318	7965	8187	8386	8587	8779	2875	4
6489	6823	7031	7182	7369	8050	8257	8434	8647	2750	4
6376	6722	6893	7054	7236	7933	8127	8311	8525	2625	4
6229	6552	6730	6909	7079	7270	7931	8113	8300	2500	4
6107	6452	6625	6785	6939	7153	7320	7984	8147	2375	4
5465	5741	5897	6044	6202	6366	6539	6672	6822	2250	3
5355	5634	5779	5912	6065	6259	6393	6535	6675	2125	3
5206	5466	5615	5766	5918	6063	6215	6361	6503	2000	3
5080	5343	5488	5656	5766	5918	6067	6227	6350	1875	3

5750	6000	6250	6500	6750	7000	7250	7500	7750	8000
Width									
Rail width 52 mm									
5								6	
10								12	

Alternative infills	Page 28
Alternative real glass infills	Page 28
Additional glazing frames	Page 28
Rail width 91 mm	Page 28
Ventilation grilles	Page 28
Surface coating	From page 80
Accessories	From page 82

Sectional door APU F42 Door sections with finger trap protection

Glazed aluminium sectional door

Alternative infills / real glass infills, glazing frames and ventilation grilles

Alternative infills		U _g in W/(m ² ·K)	Article no.		€
Clear synthetic single pane (FK) ²⁾	3 mm		3091521	Each	No surcharge
Synthetic single pane, crystal structure (KR) ²⁾	3 mm		3091522	Each	No surcharge
Clear synthetic double pane (S2)	26 mm	[U _g = 2.6]	3091525	Each	No surcharge
Synthetic double pane, crystal structure (U2)	26 mm	[U _g = 2.6]	3094582	Each	No surcharge
Synthetic double pane, grey tinted (A2)	26 mm	[U _g = 2.6]	3091255	Each	34
Synthetic double pane, white tinted (opal) (M2)	26 mm	[U _g = 2.6]	3091257	Each	34
Clear synthetic triple pane (S3)	26 mm	[U _g = 1.9]	3091527	Each	82
Synthetic triple pane, crystal structure (U3)	26 mm	[U _g = 1.9]	3094583	Each	82
Synthetic triple pane, grey tinted (A3)	26 mm	[U _g = 1.9]	3091258	Each	110
Synthetic triple pane, white tinted (opal) (M3)	26 mm	[U _g = 1.9]	3091260	Each	110
Clear polycarbonate single pane (P)	6 mm		3091523	Each	124
Clear polycarbonate double pane (C2)	26 mm	[U _g = 2.7]	3091528	Each	124
Multiple-moulded pane (S)	16 mm	[U _g = 1.9]	3091524	Each	No surcharge
Stainless steel expanded mesh (SE) ²⁾ , ventilation cross section 54 % (colour coating not possible)	5 mm		3091529	Each	51
Stainless steel perforated steel sheet (LB) ²⁾ , 8 mm perforation, ventilation cross section 40 %, (colour coating not possible)	1.5 mm		3091530	Each	151
PU infill with aluminium sheet cover, both sides Stucco-textured (FU)	26 mm	[U _g = 1.0]	3091532	Each	No surcharge
PU infill with aluminium sheet cover, smooth anodised on both sides (XU)	26 mm	[U _g = 1.0]	3091531	Each	140
Prepared for on-site infill (BS) ¹⁾ (Anodised glazing bead required)			3091533	Each	No surcharge
Alternative real glass infills		U _g in W/(m ² ·K)	Article no.		€
Up to door width 6000 mm ¹⁾ with:					
Single pane of laminated safety glass (VG)	6 mm		3091534	Per m ²	171
Double pane made of single-pane safety glass (E2)	26 mm	[U _g = 2.6]	3091535	Per m ²	394
Climatic double pane made of single-pane safety glass (G2)	26 mm	[U _g = 1.1]	3091536	Per m ²	525
Additional glazing frame			Article no.		€
- Glazing frame height acc. to the technical manual - Rail width 52 mm - If the number of glazing frames is greater than specified in column [A]					
With synthetic double pane, clear (S2)	26 mm		3092549	Each	+ 14 % On the basic table price
Rail width of 91 mm (for the purpose of matching appearance)			Article no.		€
Rail width 91 mm			3091108	Each	No surcharge
Ventilation grilles			Article no.		€
Black plastic ventilation grille, ventilation cross section 40 cm ² per grille			3092450	Each	35
Sliding cover for ventilation grille			3092451	Each	50
Further optional extras			Article no.		€
Surcharge for frame heights that differ from the standard			3060532	Per door	232
Surface coating					From page 80
Accessories					From page 82

1) On request

2) Max. field width 1230 mm, additional field may be required!

Sectional door APU F42 Door sections with finger trap protection

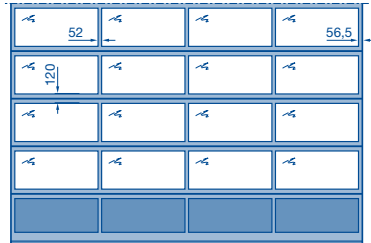
Glazed aluminium sectional door

Alternative infills and glazing frames

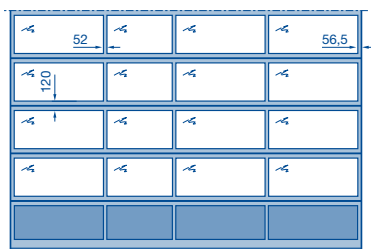
Sectional door ALR F42

Wicket doors from page 60.

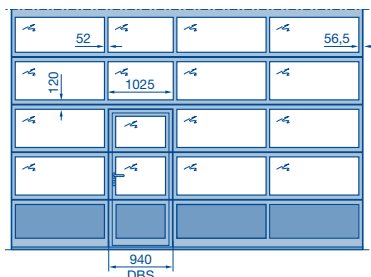
Bottom door section with PU infill, with aluminium sheet cover



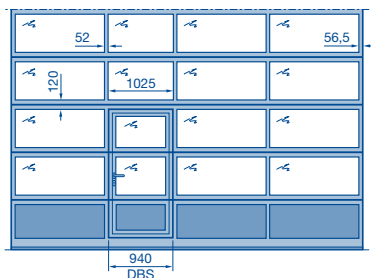
Basic model (without wicket door)
With uniform field division along the width



Basic model (without wicket door)
Field division along the width matching doors with wicket door



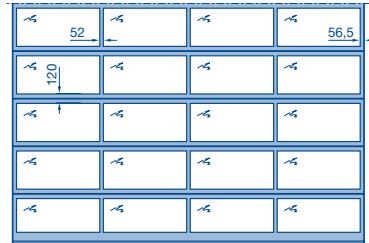
Version with wicket door without threshold rail



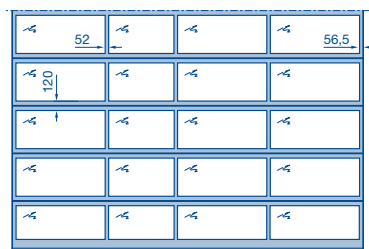
Version with wicket door and threshold rail

Bottom door section with (optional) glazing

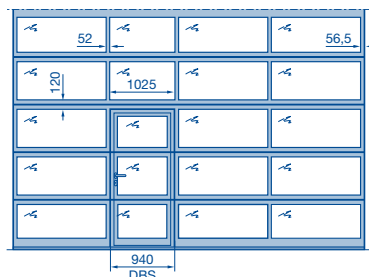
Width up to 5500 mm



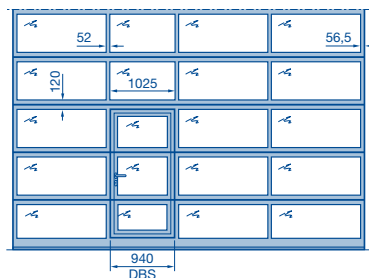
Version with glazing in the lowest door section (without wicket door)
With uniform field division along the width



Version with glazing in the lowest door section (without wicket door)
Field division along the width matching doors with wicket door

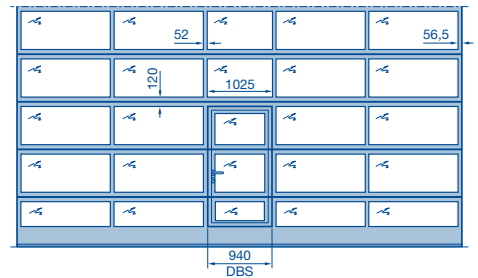
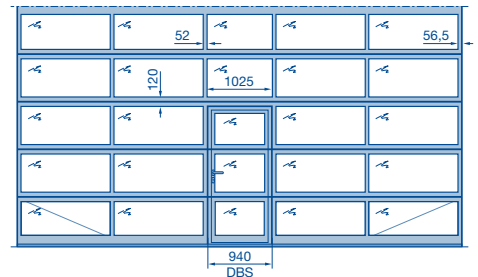
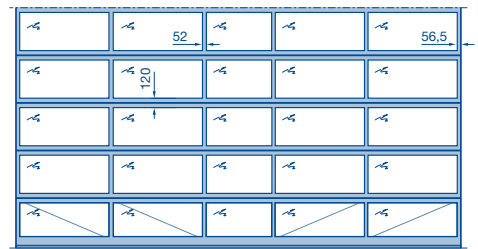
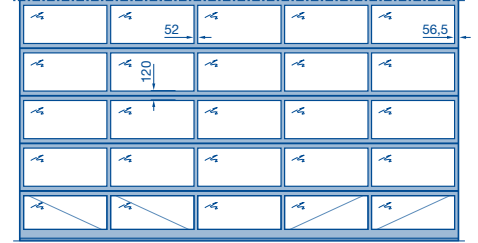


Version with glazing in the lowest door section, with wicket door without threshold rail



Version with glazing in the lowest door section, with wicket door and threshold rail

Width more than 5500 mm*



DBS Wicket door clear passage width

* Note:

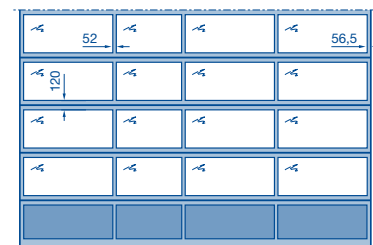
For door widths above 5500 mm (for doors with wicket door with real glass infill for door widths above 4500 mm) diagonal struts are fitted in the bottom glazing frame (except for doors with wicket door and threshold rail). The struts are visible from the outside with glazing in the bottom door section!

ALR F42 Thermo

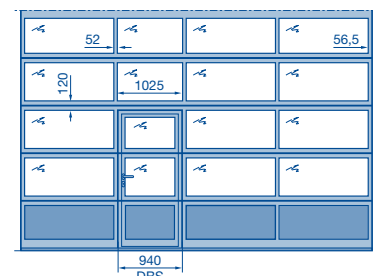
Wicket doors from page 60.



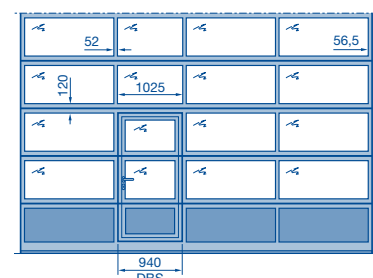
Basic model (without wicket door)
With uniform field division along the width



Basic model (without wicket door)
Field division along the width matching doors
with wicket door



Version with wicket door without threshold rail



Version with wicket door and threshold rail

DBS Wicket door clear passage width

1) See the technical manual for the number of door sections

						Number of glazing frames ¹⁾
						[A]
18380	19146	19913			7500	10
18176	18934	19692			7375	10
17968	18719	19467			7250	10
17763	18502	19245	19985		7125	10
17326	18048	18770	19493		7000	10
17236	17956	18673	19391		6875	10
16715	17412	18108	18803	19501	6750	9
16626	17317	18009	18704	19395	6625	9
16536	17227	17916	18604	19293	6500	9
16424	17109	17793	18475	19161	6375	9
16198	16874	17548	18225	18898	6250	9
16104	16776	17447	18117	18787	6125	9
15512	16221	16870	17520	18168	6000	8
15401	16112	16497	17135	17770	5875	8
14892	15602	15988	16603	17219	5750	8
14777	15489	15878	16236	16839	5625	8
14660	15368	15754	16118	16469	5500	8
14555	15266	15654	16012	16367	5375	8
13886	14593	14980	15343	15695	5250	7
13772	14479	14864	15230	15580	5125	7
12849	13559	13947	14307	14660	5000	7
12748	13454	13823	14167	14539	4875	7
12648	13367	13683	14063	14420	4750	7
12522	13233	13548	13916	14288	4625	7
11506	12249	12602	12931	13247	4500	6
11409	12144	12482	12793	13133	4375	6
11010	11691	11996	12279	12575	4250	6
10881	11591	11863	12150	12448	4125	6
10720	11386	11710	11989	12263	4000	6
10616	11262	11581	11867	12138	3875	6
9773	10295	10568	10816	11100	3750	5
9644	10190	10427	10686	10964	3625	5
9482	9997	10290	10525	10763	3500	5
9348	9845	10129	10357	10611	3375	5
9228	9731	9991	10226	10478	3250	5
8828	9316	9555	10101	10346	3125	5
7960	8349	8601	8814	9330	3000	4
7713	8095	8311	8519	9193	2875	4
7581	7955	8193	8376	8589	2750	4
7460	7847	8046	8234	8444	2625	4
7303	7667	7873	8082	8276	2500	4
7169	7551	7754	7948	8127	2375	4
6354	6659	6837	7006	7190	2250	3
6231	6540	6708	6863	7042	2125	3
6070	6365	6536	6709	6884	2000	3
5936	6228	6395	6586	6721	1875	3

5750	6000	6250	6500	6750	7000
Width					
Rail width 52 mm					
5					
10					

Alternative infills	Page 32
Additional glazing frames	Page 32
Rail width 91 mm	Page 32
Ventilation grilles	Page 32
Surface coating	From page 80
Accessories	From page 82

Sectional door APU F42 Thermo Door sections with finger trap protection

Glazed aluminium sectional door with thermal break

Alternative infills and glazing frames

Alternative infills		U _g in W/(m²·K)	Article no.		€
Clear synthetic double pane (S2)	26 mm	[U _g = 2.6]	3091525	Each	No surcharge
Synthetic double pane, crystal structure (U2)	26 mm	[U _g = 2.6]	3094582	Each	No surcharge
Synthetic double pane, grey tinted (A2)	26 mm	[U _g = 2.6]	3091255	Each	34
Synthetic double pane, white tinted (opal) (M2)	26 mm	[U _g = 2.6]	3091257	Each	34
Clear synthetic triple pane (S3)	26 mm	[U _g = 1.9]	3091527	Each	82
Synthetic triple pane, crystal structure (U3)	26 mm	[U _g = 1.9]	3094583	Each	82
Synthetic triple pane, grey tinted (A3)	26 mm	[U _g = 1.9]	3091258	Each	110
Synthetic triple pane, white tinted (opal) (M3)	26 mm	[U _g = 1.9]	3091260	Each	110
Clear polycarbonate double pane (C2)	26 mm	[U _g = 2.7]	3091528	Each	124
Multiple-moulded pane (S)	16 mm	[U _g = 1.9]	3091524	Each	No surcharge
PU infill with aluminium sheet cover, both sides Stucco-textured (FU)	26 mm	[U _g = 1.0]	3091532	Each	No surcharge
PU infill with aluminium sheet cover, smooth anodised on both sides (XU)	26 mm	[U _g = 1.0]	3091531	Each	140
Prepared for on-site infill (BS) ¹⁾ (Anodised glazing bead required)			3091533	Each	No surcharge
Alternative real glass infills		U _g in W/(m²·K)	Article no.		€
Up to door width 6000 mm ¹⁾ with:					
Double pane made of single-pane safety glass (E2)	26 mm	[U _g = 2.6]	3091535	Per m²	394
Climatic double pane made of single-pane safety glass (G2)	26 mm	[U _g = 1.1]	3091536	Per m²	525
Additional glazing frame			Article no.		€
- Glazing frame height acc. to the technical manual - Rail width 52 mm - If the number of glazing frames is greater than specified in column [A]					
With synthetic double pane, clear (S2)	26 mm		3092550	Each	+ 16 % On the basic table price
Rail width of 91 mm (for the purpose of matching appearance)			Article no.		€
Rail width 91 mm			3091108	Each	No surcharge
Ventilation grilles			Article no.		€
Black plastic ventilation grille, ventilation cross section 40 cm² per grille			3092450	Each	35
Sliding cover for ventilation grille			3092451	Each	50
Further optional extras			Article no.		€
Surcharge for frame heights that differ from the standard			3060532	Per door	232
Surface coating					From page 80
Accessories					From page 82

1) On request

Sectional door APU F42 Thermo Door sections with finger trap protection

Glazed aluminium sectional door with thermal break

Alternative infills and glazing frames

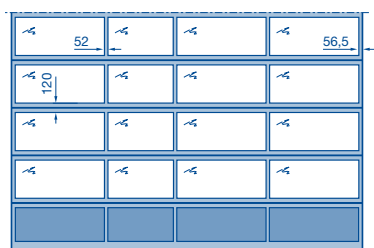
Sectional door ALR F42 Thermo

Wicket doors from page 60.

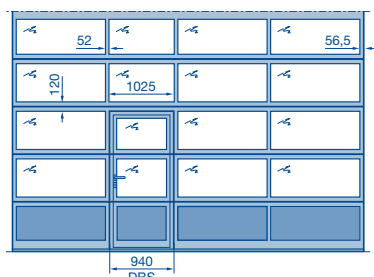
Bottom door section with PU infill,
with aluminium sheet cover



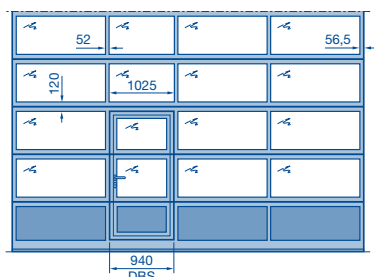
Basic model (without wicket door)
With uniform field division along the width



Basic model (without wicket door)
Field division along the width matching doors
with wicket door



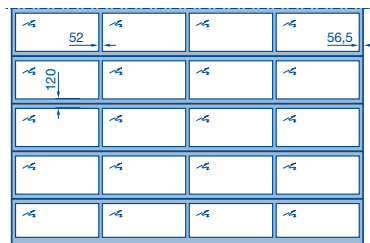
Version with wicket door without threshold rail



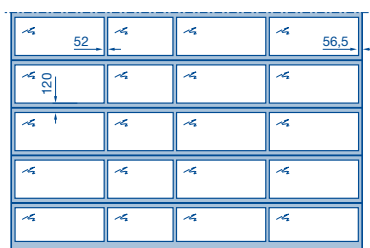
Version with wicket door and threshold rail

Bottom door section with (optional) glazing

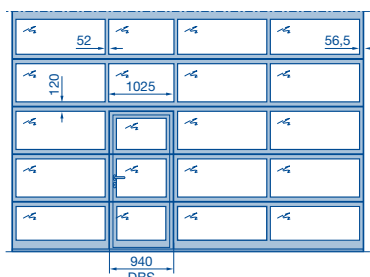
Width up to 5500 mm



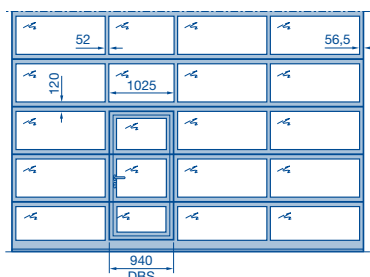
Version with glazing in the lowest door section (without wicket door)
With uniform field division along the width



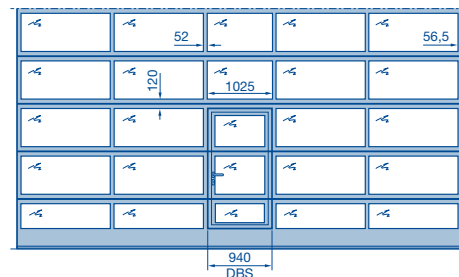
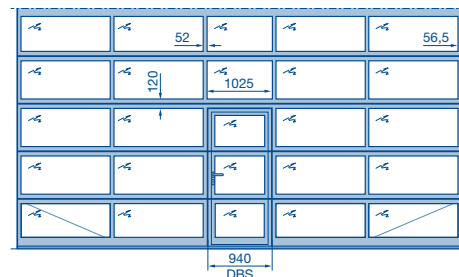
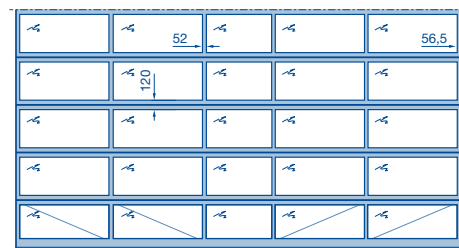
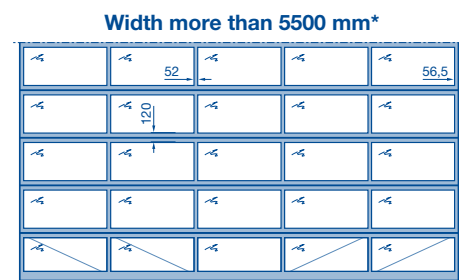
Version with glazing in the lowest door section (without wicket door)
Field division along the width matching doors
with wicket door



Version with glazing in the lowest door section, with wicket door without threshold rail



Version with glazing in the lowest door section, with wicket door and threshold rail



DBS Wicket door clear passage width

*** Note:**
For door widths above 5500 mm (for doors with wicket door with real glass infill for door widths above 4500 mm) diagonal struts are fitted in the bottom glazing frame (except for doors with wicket door and threshold rail). The struts are visible from the outside with glazing in the bottom door section!

Sectional door ALR F42 Glazing

Door sections with finger trap protection

WITH REAL GLASS

Aluminium sectional door with extensive glazing, real glass

The door leaf and the track application N (normal track application) are included in the basic table price.

Number of glazing frames **made of single pane laminated safety glass, 6 mm, (VG)**, according to column [A].

Delivery versions must be determined with the listed surcharges.

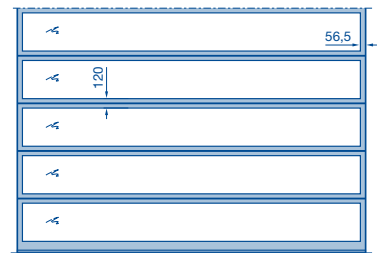
Track versions and surcharges can be found on pages 8 – 11.

For a product description, see pages 4 and 7.

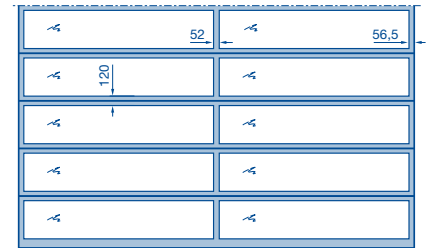
Grid height	4000	5971	6307	6627	6947	7314	9223	9541	9859	10203	10513	10845	11156	11729	12046	4000	
	3875	5894	6222	6535	6854	7227	9114	9416	9731	10073	10383	10701	11006	11577	11877	3875	
	3750	5798	6119	6428	6730	7035	8958	9289	9585	9917	10224	10535	10844	11368	11681	3750	
	3625	5743	6036	6336	6636	6930	8865	9187	9458	9782	10081	10386	10689	11211	11533	3625	
	3500	5180	5445	5748	5997	6267	7887	8162	8457	8765	9012	9372	9644	10112	10412	3500	
	3375	5106	5357	5652	5902	6201	7756	8041	8325	8629	8867	9223	9489	9951	10244	3375	
	3250	5035	5291	5559	5807	6093	7641	7949	8199	8491	8732	9086	9334	9823	10090	3250	
	3125	4941	5202	5461	5712	5974	7528	7823	8083	8342	8611	8942	9185	9662	9910	3125	
	3000	4854	5102	5372	5604	5843	7420	7653	7910	8202	8460	8762	9012	9447	9706	3000	
	2875	4419	4632	4890	5102	5320	6628	6863	7113	7379	7581	7893	8121	8497	8740	2875	
	2750	4281	4507	4727	4948	5172	6452	6667	6884	7147	7351	7664	7892	8246	8474	2750	
	2625	4215	4433	4648	4850	5068	6340	6555	6779	7004	7206	7515	7727	8102	8325	2625	
	2500	4135	4344	4560	4765	4977	6216	6434	6650	6871	7089	7379	7572	7953	8152	2500	
	2375	4073	4262	4459	4665	4875	6100	6333	6519	6752	6942	7230	7434	7789	7983	2375	
	2250	3965	4163	4358	4557	4736	5971	6170	6375	6604	6782	7073	7254	7598	7789	2250	
	2125	3519	3704	3875	4049	4230	5209	5366	5549	5759	5926	6189	6366	6650	6837	2125	
	2000	3453	3623	3797	3957	4128	5081	5264	5436	5623	5798	6059	6210	6510	6688	2000	
	1875	3374	3534	3699	3873	4042	4968	5160	5302	5509	5660	5902	6066	6363	6519	1875	
Width		2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500		
		Width															
		Rail width 52 mm															
Number of fields per glazing frame		1 (up to 3330 mm)							2 (up to 5500 mm)								

ALR F42 Glazing

Wicket doors are not possible!



Version up to door widths of 3330 mm



Version for door widths over 3330 mm

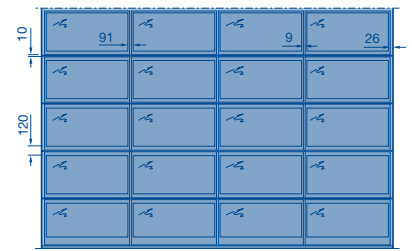
Number of glazing frames ¹⁾	[A]
6	6
6	6
6	6
6	6
5	5
5	5
5	5
5	5
5	5
4	4
4	4
4	4
4	4
4	4
3	3
3	3
3	3

1) See the technical manual for the number of door sections

Alternative real glass infills		U _g in W/(m ² ·K)	Article no.	€
Double pane made of single-pane safety glass (E2)	26 mm	[U _g = 2.6]	3090285	Per m ² 220
Climatic double pane made of single-pane safety glass (G2)	26 mm	[U _g = 1.1]	3090519	Per m ² 346
Additional glazing frame			Article no.	€
- Glazing frame height acc. to the technical manual - Rail width 52 mm - If the number of glazing frames is greater than specified in column [A]				
With single pane made of laminated safety glass (VG)	6 mm		3092549	Each + 14 % On the basic table price
Rail width of 91 mm (for the purpose of matching appearance)			Article no.	€
Rail width 91 mm			3091108	Each No surcharge
Surface coating				From page 80
Accessories				From page 82

ALR F42 Vitraplan

Wicket doors are not possible!



		Number of glazing frames ¹⁾ [A]
	7500	10
	7375	10
	7250	10
	7125	10
	7000	10
	6875	10
	6750	9
	6625	9
	6500	9
	6375	9
	6250	9
	6125	9
	6000	8
	5875	8
	5750	8
	5625	8
	5500	8
	5375	8
	5250	7
	5125	7
	5000	7
	4875	7
	4750	7
	4625	7
	4500	6
	4375	6
	4250	6
	4125	6
	4000	6
	3875	6
	3750	5
	3625	5
	3500	5
	3375	5
	3250	5
	3125	5
	3000	4
	2875	4
	2750	4
	2625	4
	2500	4
	2375	4
	2250	3
	2125	3
	2000	3
	1875	3

1) See the technical manual for the number of door sections

Alternative infills	U _g in W/(m ² ·K)	Article no.	€
Clear synthetic double pane (S2)	26 mm [U _g = 2.6]	3091525	Included in the door price
Synthetic double pane, crystal structure (U2)	26 mm [U _g = 2.6]	3094582	No surcharge
Clear synthetic triple pane (S3)	26 mm [U _g = 1.9]	3091527	Each 82
Synthetic triple pane, crystal structure (U3)	26 mm [U _g = 1.9]	3094583	Each 82
Clear polycarbonate double pane (C2)	26 mm [U _g = 2.7]	3091528	Each 124

Additional glazing frame	Article no.	€
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- With 4 mm transparent synthetic glazing fitted in front
- Colour matching the synthetic glazing
- Glazing frame height acc. to the technical manual
- Rail width **91 mm**
- If the number of glazing frames is greater than specified in column [A]

With synthetic double pane, clear (S2)	26 mm	3092549	Each	+ 14 % On the basic table price
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Accessories	From page 82
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Sectional door SPU 67 Thermo

Double-skinned steel sectional door, door sections 625 and 750 mm high , depth 67 mm

Stucco-textured / Micrograin

The door leaf and the track application N (normal track application) are included in the basic table price.
Delivery versions must be determined with the listed surcharges.

Track versions and surcharges can be found on pages 8 – 11.

For a product description, see pages 6 and 7.

Doors with a grid height over 7500 mm on request.

Grid height	7500	6063	5609	5853	6094	6412	6684	6987	7284	7581	7873	8239	8597	8970	9336	
	7375	6018	5566	5807	6044	6361	6629	6930	7224	7516	7810	8169	8520	8897	9260	
	7250	5978	5525	5762	5997	6312	6574	6872	7166	7476	7741	8101	8447	8822	9180	
	7125	5719	5266	5533	5795	6091	6352	6667	6971	7262	7520	7842	8206	8579	8887	
	7000	5674	5222	5438	5741	6036	6294	6607	6907	7194	7451	7792	8128	8505	8822	
	6875	5633	5180	5394	5694	5986	6239	6551	6848	7131	7384	7723	8057	8432	8746	
	6750	5337	4884	5114	5410	5697	5922	6247	6544	6822	7070	7381	7718	8050	8343	
	6625	5292	4840	5065	5357	5644	5866	6191	6478	6756	7000	7309	7667	7975	8262	
	6500	5148	4693	4953	5185	5454	5710	5956	6237	6506	6765	7076	7379	7745	8018	
	6375	5079	4629	4884	5111	5378	5629	5875	6151	6416	6671	6981	7278	7643	7915	
	6250	5037	4586	4839	5064	5326	5576	5816	6090	6354	6604	6911	7237	7586	7837	
	6125	4994	4542	4793	5004	5274	5512	5783	6055	6289	6537	6839	7161	7510	7777	
	6000	4896	4446	4694	4906	5141	5405	5634	5900	6169	6375	6671	6985	7317	7569	
	5875	4851	4399	4648	4854	5085	5347	5575	5841	6107	6305	6600	6911	7239	7490	
	5750	4800	4345	4535	4733	4983	5207	5459	5690	5940	6170	6441	6740	7073	7309	
	5625	4756	4306	4503	4683	4936	5153	5403	5627	5879	6107	6374	6664	7001	7242	
	5500	4714	4261	4457	4649	4896	5095	5336	5583	5833	6043	6319	6613	6926	7162	
	5375	4635	4183	4372	4562	4804	5012	5237	5478	5724	5936	6204	6490	6848	7095	
	5250	4555	4102	4289	4475	4714	4925	5142	5375	5614	5830	6088	6366	6658	6886	
	5125	4512	4061	4245	4426	4664	4874	5102	5316	5548	5765	6018	6294	6579	6805	
	5000	4108	3655	3789	3921	4103	4264	4445	4604	4790	4952	5155	5374	5644	5885	
	4875	4065	3615	3742	3873	4052	4209	4382	4543	4726	4885	5084	5298	5569	5808	
	4750	4023	3572	3699	3824	3999	4153	4325	4496	4661	4819	5017	5223	5495	5732	
	4625	3974	3522	3644	3772	3941	4096	4279	4429	4592	4745	4941	5142	5417	5649	
	4500	3834	3384	3520	3663	3829	3978	4141	4289	4437	4608	4800	4998	5207	5457	
	4375	3792	3340	3477	3615	3779	3927	4084	4228	4372	4543	4730	4921	5132	5383	
	4250	3750	3298	3432	3565	3730	3872	4025	4171	4334	4477	4658	4851	5058	5304	
	4125	3493	3041	3202	3359	3513	3649	3822	3974	4119	4255	4403	4609	4819	5011	
	4000	3446	2997	3108	3309	3457	3591	3762	3910	4052	4187	4352	4532	4742	4945	
	3875	3407	2954	3063	3261	3407	3537	3704	3852	3988	4119	4285	4458	4669	4868	
	3750	3111	2658	2782	2976	3117	3217	3402	3546	3680	3803	3940	4119	4286	4468	
	3625	3064	2615	2735	2927	3062	3161	3343	3483	3615	3736	3869	4070	4210	4387	
	3500	2923	2468	2625	2753	2872	3006	3111	3243	3363	3502	3635	3779	3980	4141	
	3375	2851	2399	2552	2676	2799	2927	3025	3158	3274	3407	3540	3681	3881	4038	
	3250	2813	2360	2509	2630	2746	2871	2971	3093	3211	3340	3471	3639	3822	3961	
	3125	2767	2316	2463	2574	2693	2809	2935	3061	3148	3272	3400	3565	3747	3899	
	3000	2670	2217	2366	2474	2559	2701	2788	2907	3027	3111	3231	3389	3554	3695	
	2875	2625	2169	2318	2424	2506	2643	2730	2846	2962	3041	3160	3311	3477	3616	
	2750	2573	2121	2203	2302	2402	2502	2615	2693	2801	2907	3002	3140	3310	3432	
	2625	2532	2078	2170	2250	2353	2451	2555	2632	2735	2843	2932	3068	3236	3368	
	2500	2485	2038	2128	2220	2316	2393	2486	2587	2688	2777	2883	3015	3161	3286	
	2375	2404	1957	2044	2131	2225	2308	2391	2482	2583	2672	2764	2891	3027	3145	
	2250	2327	1877	1961	2044	2132	2224	2296	2381	2471	2567	2649	2770	2891	3002	
	2125	2286	1836	1914	1995	2082	2168	2252	2319	2406	2501	2578	2697	2819	2928	
	2000	2243	1791	1869	1947	2031	2114	2195	2259	2345	2432	2509	2623	2744	2849	
	1875	2217	1766	1841	1899	1995	2053	2140	2197	2280	2366	2439	2548	2678	2786	
Width From 1200		1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
		Width														
		Rail width 52 mm														
Number of fields per glazing frame	On request	2						3						4		
Number of compound glazings type A and D per door section	On request	2						3						4		

SPU 67 Thermo
Stucco-textured or Micrograin
Wicket doors from page 60.

[A] Number of
door sections per
door section height

625 mm 750 mm

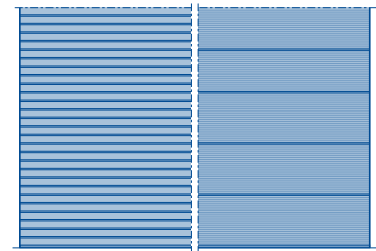
	9754	10109	11808	12132	7500	–	+	10 ²⁾
	9680	10035	11720	12040	7375	1	+	9
	9608	9958	11633	11949	7250	2	+	8
	9276	9633	11187	11507	7125	3	+	7
	9202	9555	11096	11414	7000	4	+	6
	9129	9478	11008	11326	6875	5	+	5
	8683	9004	10473	10768	6750	–		9 ²⁾
	8607	8925	10395	10675	6625	1	+	8
	8352	8683	10079	10399	6500	2	+	7
	8256	8583	9967	10281	6375	3	+	6
	8202	8506	9905	10191	6250	4	+	5
	8139	8425	9811	10097	6125	5	+	4
	7871	8173	9504	9794	6000	–		8 ²⁾
	7796	8096	9415	9696	5875	1	+	7
	7628	7917	9205	9460	5750	2	+	6
	7554	7838	9115	9371	5625	3	+	5
	7487	7768	9020	9289	5500	4	+	4
	7318	7598	8829	9091	5375	5	+	3
	7154	7428	8638	8888	5250	–		7 ²⁾
	7081	7353	8550	8799	5125	1	+	6
	6129	6361	7382	7581	5000	2	+	5
	6058	6285	7306	7468	4875	3	+	4
	5992	6206	7218	7374	4750	4	+	3
	5940	6127	7124	7318	4625	5	+	2
	5669	5835	6824	6986	4500	–		6 ²⁾
	5598	5761	6739	6895	4375	1	+	5
	5522	5683	6650	6805	4250	2	+	4
	5192	5355	6202	6365	4125	3	+	3
	5117	5278	6112	6273	4000	4	+	2
	5045	5202	6026	6180	3875	5	+	1
	4597	4729	5490	5625	3750	–		5 ²⁾
	4521	4648	5411	5533	3625	1	+	4
	4267	4405	5097	5256	3500	2	+	3
	4172	4308	4982	5139	3375	3	+	2
	4119	4231	4920	5046	3250	4	+	1
	4054	4150	4829	4952	3125	5	–	2)
	3789	3898	4519	4648	3000	–		4 ²⁾
	3712	3822	4430	4555	2875	1	+	3
	3543	3639	4222	4316	2750	2	+	2
	3470	3562	4133	4226	2625	3	+	1
	3398	3492	4037	4147	2500	4	–	2)
	3235	3320	3848	3946	2375	4 ¹⁾		–
	3066	3154	3654	3744	2250	–		3 ²⁾
	2996	3079	3566	3654	2125	1	+	2
	2923	3001	3477	3563	2000	2	+	1
	2858	2931	3397	3469	1875	3	–	2)

5000	5250	5500	5750	6000
Width				

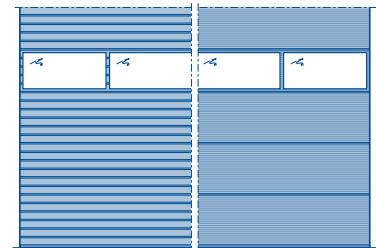
Rail width 52 mm

4 5

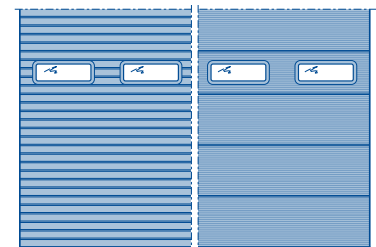
4 5



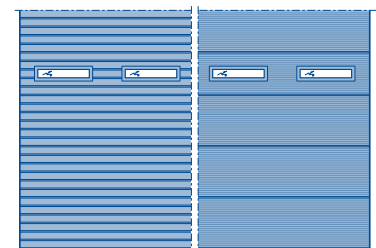
Basic model



Version with glazing frame



Version with compound glazing type A
Glazing dimensions (W x H): 710 x 320
Clear view (W x H): 635 x 245



Version with compound glazing type D
Glazing dimensions (W x H): 680 x 210
Clear view (W x H): 602 x 132

Size range for torsion spring doors (shaft operator)

Size range for torsion spring doors (shaft operator) or direct drive operator S 75 / S 140³⁾ after technical clarification

Important:

Note the information regarding the trap guard on page 7 of this price list!

- 1) Top door section 500 mm
- 2) Visual balance with Micrograin due to even door section division along the height
- 3) Tubular shaft for direct drive operator required! Surcharge see page 9 or page 89.

Glazing frame Page 44

Compound glazings type A and type D Page 44

Intermediate heights Page 44

Surface coating From page 80

Accessories From page 82

Sectional door SPU 67 Thermo Door width up to 6000 mm

Double-skinned steel sectional door, door sections 375 and 500 mm high , depth 67 mm

Stucco-textured / Micrograin

The door leaf and the track application N (normal track application) are included in the basic table price.
Delivery versions must be determined with the listed surcharges.

Track versions and surcharges can be found on pages 8 – 11.

For a product description, see pages 6 and 7.

Doors with a grid height over 7500 mm on request.

Grid height	7500	6431	5981	6189	6532	6936	7291	7605	7955	8312	8673	8991	9461	9946	10388	
	7375	6400	5948	6151	6494	6894	7247	7559	7909	8261	8621	8936	9407	9889	10331	
	7250	6221	5766	6078	6314	6686	7026	7369	7708	8054	8416	8686	9093	9634	10012	
	7125	6091	5638	5924	6275	6644	6983	7322	7661	8003	8361	8630	9070	9572	9947	
	7000	5960	5510	5785	6127	6492	6820	7155	7483	7817	8147	8432	8829	9326	9692	
	6875	5928	5474	5751	6090	6453	6777	7108	7437	7772	8096	8379	8771	9268	9634	
	6750	5892	5439	5712	6049	6407	6732	7059	7385	7718	8062	8320	8713	9210	9571	
	6625	5854	5403	5672	6009	6365	6687	7011	7336	7665	8010	8260	8652	9151	9504	
	6500	5625	5173	5439	5742	6089	6393	6693	6966	7292	7611	7898	8240	8721	9072	
	6375	5566	5114	5376	5681	6012	6323	6623	6891	7215	7530	7816	8158	8636	8999	
	6250	5534	5080	5341	5638	5972	6281	6575	6844	7167	7477	7761	8101	8577	8936	
	6125	5498	5045	5304	5604	5931	6237	6529	6796	7115	7427	7708	8041	8520	8877	
	6000	5370	4918	5143	5459	5794	6081	6365	6623	6936	7237	7514	7840	8279	8610	
	5875	5323	4867	5065	5361	5661	5944	6219	6503	6778	7072	7351	7680	8125	8446	
	5750	5289	4837	5044	5324	5621	5899	6170	6457	6728	7017	7294	7624	8066	8384	
	5625	5254	4803	5006	5287	5599	5857	6125	6410	6680	6967	7240	7566	8009	8325	
	5500	4950	4497	4681	4966	5253	5524	5784	6056	6319	6600	6866	7185	7591	7896	
	5375	4917	4462	4646	4925	5212	5480	5738	6009	6270	6548	6811	7128	7530	7834	
	5250	4880	4426	4606	4885	5168	5434	5690	5958	6219	6492	6752	7069	7477	7764	
	5125	4846	4395	4586	4846	5128	5392	5645	5912	6167	6438	6698	7010	7411	7700	
	5000	4289	3837	3960	4150	4362	4557	4736	4938	5119	5325	5514	5758	6127	6419	
	4875	4255	3802	3922	4149	4318	4512	4691	4889	5072	5270	5459	5701	6070	6358	
	4750	4223	3772	3884	4110	4279	4471	4647	4841	5023	5219	5405	5644	6012	6296	
	4625	4183	3730	3842	4065	4230	4419	4595	4784	4965	5161	5345	5577	5948	6231	
	4500	4054	3601	3707	3886	4082	4263	4429	4611	4783	4975	5148	5376	5707	5978	
	4375	4021	3568	3673	3849	4042	4222	4382	4566	4734	4920	5093	5322	5649	5918	
	4250	3839	3388	3599	3666	3831	3998	4195	4367	4525	4717	4843	5005	5390	5598	
	4125	3712	3258	3444	3627	3791	3957	4148	4316	4475	4661	4784	4983	5336	5534	
	4000	3581	3126	3306	3481	3638	3793	3978	4141	4290	4448	4590	4745	5090	5277	
	3875	3547	3093	3271	3444	3599	3750	3933	4095	4243	4395	4535	4686	5030	5221	
	3750	3513	3058	3231	3404	3552	3705	3884	4045	4189	4365	4477	4629	4968	5155	
	3625	3474	3021	3194	3361	3513	3662	3837	3992	4136	4309	4418	4567	4912	5093	
	3500	3246	2794	2959	3096	3236	3364	3517	3621	3765	3909	4058	4153	4483	4658	
	3375	3190	2734	2897	3033	3160	3297	3445	3547	3688	3829	3974	4072	4400	4586	
	3250	3156	2701	2859	2996	3119	3253	3400	3503	3638	3778	3921	4014	4339	4523	
	3125	3119	2666	2823	2956	3079	3211	3355	3450	3587	3724	3866	3958	4281	4461	
	3000	2989	2539	2662	2814	2938	3052	3192	3280	3407	3537	3670	3755	4042	4199	
	2875	2940	2489	2585	2713	2811	2918	3042	3161	3252	3370	3507	3598	3884	4033	
	2750	2908	2457	2564	2675	2767	2872	2998	3115	3202	3318	3450	3539	3828	3972	
	2625	2872	2423	2531	2640	2744	2833	2949	3064	3154	3266	3397	3481	3772	3911	
	2500	2571	2119	2201	2319	2399	2498	2606	2713	2794	2900	3024	3103	3354	3483	
	2375	2538	2083	2165	2280	2360	2454	2561	2666	2740	2847	2970	3043	3297	3423	
	2250	2501	2048	2128	2239	2316	2406	2513	2618	2688	2793	2911	2982	3235	3357	
	2125	2467	2015	2106	2201	2275	2365	2468	2569	2640	2739	2857	2927	3178	3297	
	2000	2339	1886	1956	2056	2126	2213	2304	2395	2459	2549	2661	2724	2935	3039	
	1875	2306	1855	1920	2019	2084	2165	2258	2349	2411	2499	2605	2666	2881	2984	

	Width From 1200	1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
		Width													
		Rail width 52 mm													
Number of fields per glazing frame	On request	2					3					4			
Number of compound glazings type A and D per door section	On request	2					3					4			

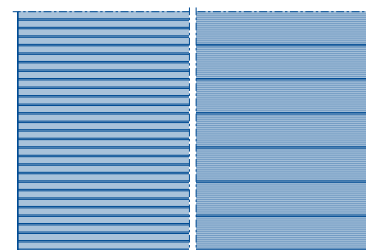
SPU 67 Thermo
Stucco-textured or Micrograin
Wicket doors from page 60.

[A] Number of
door sections per
door section height

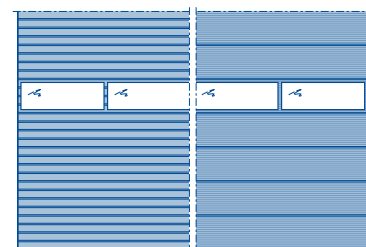
375 mm 500 mm

	10958	11565	13686	14446	7500	–	15	¹⁾
	10900	11506	13617	14351	7375	1	+	14
	10561	11187	13246	13920	7250	2	+	13
	10505	11125	13172	13870	7125	3	+	12
	10184	10811	12790	13435	7000	–	14	¹⁾
	10128	10753	12730	13380	6875	1	+	13
	10092	10690	12658	13301	6750	2	+	12
	10033	10626	12586	13251	6625	3	+	11
	9531	10054	11894	12531	6500	–	13	¹⁾
	9451	9984	11796	12430	6375	1	+	12
	9394	9922	11753	12355	6250	2	+	11
	9337	9860	11678	12279	6125	3	+	10
	9043	9539	11284	11875	6000	–	12	¹⁾
	8860	9361	11081	11653	5875	1	+	11
	8802	9300	11010	11580	5750	2	+	10
	8757	9237	10940	11502	5625	3	+	9
	8230	8719	10306	10857	5500	–	11	¹⁾
	8186	8657	10256	10793	5375	1	+	10
	8128	8597	10181	10717	5250	2	+	9
	8082	8532	10110	10644	5125	3	+	8
	6793	7155	8460	8884	5000	–	10	¹⁾
	6771	7092	8433	8809	4875	1	+	9
	6715	7013	8358	8735	4750	2	+	8
	6652	6949	8283	8655	4625	3	+	7
	6320	6638	7849	8264	4500	–	9	¹⁾
	6266	6580	7778	8171	4375	1	+	8
	5929	6257	7407	7742	4250	2	+	7
	5871	6199	7336	7693	4125	3	+	6
	5549	5883	6952	7255	4000	–	8	¹⁾
	5494	5824	6893	7204	3875	1	+	7
	5459	5763	6820	7123	3750	2	+	6
	5398	5697	6745	7073	3625	3	+	5
	4896	5126	6055	6350	3500	–	7	¹⁾
	4815	5055	5958	6249	3375	1	+	6
	4763	4994	5912	6177	3250	2	+	5
	4705	4936	5841	6097	3125	3	+	4
	4410	4611	5445	5699	3000	–	6	¹⁾
	4226	4430	5242	5475	2875	1	+	5
	4171	4371	5173	5402	2750	2	+	4
	4122	4311	5102	5325	2625	3	+	3
	3594	3791	4469	4681	2500	–	5	¹⁾
	3552	3732	4418	4617	2375	1	+	4
	3493	3666	4343	4537	2250	2	+	3
	3445	3607	4274	4462	2125	3	+	2
	3125	3285	3884	4064	2000	–	4	¹⁾
	3074	3239	3815	3991	1875	1	+	3

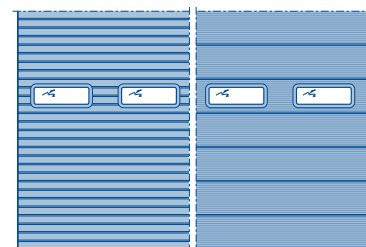
5000	5250	5500	5750	6000
Width				
Rail width 52 mm				
4	5			
4	5			



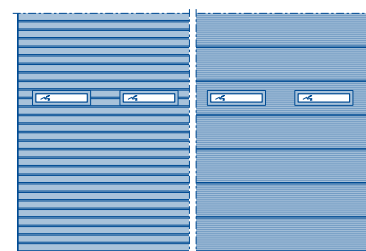
Basic model



Version with glazing frame



Version with compound glazing type A
Glazing dimensions (W × H): 710 × 320
Clear view (W × H): 635 × 245



Version with compound glazing type D
Glazing dimensions (W × H): 680 × 210
Clear view (W × H): 602 × 132

 Size range for torsion spring doors (shaft operator)

 Size range for torsion spring doors (shaft operator) or direct drive operator S 75 / S 140²⁾ after technical clarification

Important:

Note the information regarding the trap guard on page 7 of this price list!

- 1) Visual balance with Micrograin due to even door section division along the height
- 2) Tubular shaft for direct drive operator required! Surcharge see page 9 or page 89.

Glazing frame	Page 45
Compound glazings type A and type D	Page 45
Intermediate heights	Page 45
Surface coating	From page 80
Accessories	From page 82

Sectional door SPU 67 Thermo Door width above 6000 mm

Double-skinned steel sectional door, door sections 375 and 500 mm high , depth 67 mm

Stucco-textured / Micrograin

The door leaf and the track application N (normal track application) are included in the basic table price.
Delivery versions must be determined with the listed surcharges.

Track versions and surcharges can be found on pages 8 – 11.

For a product description, see pages 6 and 7.

Doors with a grid height over 7500 mm on request.

Grid height	7500	15044													
	7375	14972													
	7250	14531													
	7125	14455	15138												
	7000	13973	14641	15241											
	6875	13905	14562	15162											
	6750	13829	14485	15081											
	6625	13758	14405	15006	15542										
	6500	13291	13773	14472	14971										
	6375	13142	13673	14373	14877										
	6250	13068	13605	14294	14791										
	6125	12994	13373	14096	14565										
	6000	12513	12864	13375	14043	14499	15081	15491	15966	18527	19098	19775	20343	21002	21570
	5875	12276	12621	13129	13593	14288	14855	15272	15732	18464	19021	19705	20270	20936	21501
	5750	12203	12545	13051	13511	13989	14620	15056	15571	18064	18744	19449	19985	20559	21215
	5625	12156	12471	12998	13449	13904	14430	14966	15418	17980	18682	19357	19910	20473	21008
	5500	11233	11798	12289	12705	13147	13558	13927	14320	17061	17594	18042	18717	19150	19688
	5375	11181	11749	12210	12646	13081	13471	13835	14230	16994	17504	17954	18625	19087	19603
	5250	11109	11655	12130	12562	13012	13378	13756	14144	16927	17415	17873	18542	19019	19513
	5125	11063	11580	12073	12499	12926	13292	13662	14051	16843	17328	17785	18449	18938	19431
	5000	9373	9783	10192	10528	10865	11157	11462	11989	14543	14934	15346	15888	16411	16806
	4875	9297	9708	10116	10447	10836	11070	11412	11898	14374	14762	15170	15711	16276	16630
	4750	9222	9635	10066	10363	10751	10983	11322	11859	14259	14645	15053	15586	16156	16485
	4625	9147	9592	9981	10307	10695	10893	11146	11526	14085	14464	14873	15400	15974	16300
	4500	8688	9070	9420	9760	10069	10332	10617	10884	13387	13751	14121	14625	15116	15460
	4375	8615	8994	9371	9679	10038	10259	10568	10791	13217	13578	13947	14446	14938	15281
	4250	8173	8518	8849	9116	9431	9611	9928	10249	12610	12902	13327	13748	14214	14576
	4125	8100	8440	8770	9060	9353	9545	9870	10154	12440	12764	13149	13565	14038	14394
	4000	7619	7946	8243	8513	8780	8976	9243	9547	11776	12050	12432	12826	13223	13586
	3875	7546	7864	8163	8433	8722	8887	9153	9453	11605	11875	12256	12644	13050	13407
	3750	7474	7785	8084	8347	8633	8795	9088	9360	11437	11703	12081	12468	12899	13225
	3625	7400	7706	8008	8287	8557	8733	9015	9285	11283	11549	11929	12301	12741	13063
	3500	6874	7212	7471	7714	7971	8159	8396	8646	10583	10790	11147	11506	11849	12101
	3375	6789	7110	7374	7618	7857	8026	8283	8556	10419	10622	10980	11343	11678	11940
	3250	6716	7045	7296	7538	7792	7939	8216	8462	10250	10450	10805	11166	11505	11761
	3125	6641	6942	7240	7454	7720	7877	8113	8389	10105	10296	10650	11006	11352	11600
	3000	5911	6164	6316	6650	7131	7297	7496	7742	9392	9575	9889	10212	10522	10740
	2875	5680	5922	6129	6339	6996	7218	7430	7667	9245	9427	9739	10050	10328	10554
	2750	5607	5847	6053	6256	6798	7059	7293	7584	9086	9265	9580	9880	10164	10386
	2625	5559	5770	6001	6193	6709	6959	7202	7433	8932	9107	9421	9720	10017	10222
	2500	4877	5099	5292	5450	5633	5772	5929	6104	7489	7640	7923	8177	8379	8587
	2375	4827	5051	5212	5392	5569	5686	5840	6007	7320	7468	7750	8001	8221	8410
	2250	4752	4958	5131	5305	5497	5597	5758	5923	7160	7306	7584	7830	8057	8242
	2125	4706	4883	5078	5247	5413	5511	5667	5833	6993	7131	7409	7650	7889	8060
	2000	4197	4388	4553	4683	4843	4949	5091	5226	6326	6454	6689	6900	7075	7243
	1875	4125	4316	4474	4604	4759	4879	5002	5144	6169	6293	6529	6741	6912	7089

Width
From 6010

6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	8750	9000	9250	9500
Width													

Rail width 52 mm

Number of fields per glazing frame	5	6
Number of compound glazings type A and D per door section	5	6

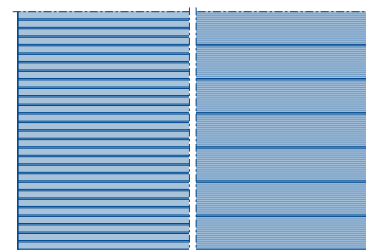
SPU 67 Thermo
Stucco-textured or Micrograin
Wicket doors from page 60.

[A] Number of
door sections per
door section height

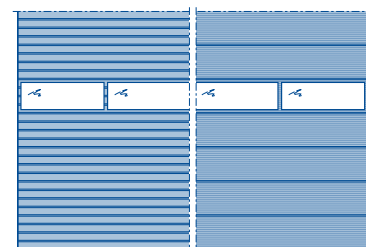
375 mm 500 mm

			7500	–		15 ¹⁾
			7375	1	+	14
			7250	2	+	13
			7125	3	+	12
			7000	–		14 ¹⁾
			6875	1	+	13
			6750	2	+	12
			6625	3	+	11
			6500	–		13 ¹⁾
			6375	1	+	12
			6250	2	+	11
			6125	3	+	10
			6000	–		12 ¹⁾
	22070		5875	1	+	11
	21771		5750	2	+	10
	21562	22115	5625	3	+	9
	20217	20543	5500	–		11 ¹⁾
	20127	20450	5375	1	+	10
	20048	20369	5250	2	+	9
	19962	20277	5125	3	+	8
	17241	17489	5000	–		10 ¹⁾
	17100	17302	4875	1	+	9
	16972	17176	4750	2	+	8
	16780	16983	4625	3	+	7
	15860	16111	4500	–		9 ¹⁾
	15676	15904	4375	1	+	8
	14961	15141	4250	2	+	7
	14774	14976	4125	3	+	6
	13934	14092	4000	–		8 ¹⁾
	13763	13931	3875	1	+	7
	13580	13741	3750	2	+	6
	13413	13599	3625	3	+	5
	12406	12573	3500	–		7 ¹⁾
	12227	12396	3375	1	+	6
	12070	12210	3250	2	+	5
	11905	12046	3125	3	+	4
	11012	11150	3000	–		6 ¹⁾
	10826	10951	2875	1	+	5
	10653	10778	2750	2	+	4
	10490	10608	2625	3	+	3
	8803	8920	2500	–		5 ¹⁾
	8640	8746	2375	1	+	4
	8468	8572	2250	2	+	3
	8283	8384	2125	3	+	2
	7435	7538	2000	–		4 ¹⁾
	7266	7363	1875	1	+	3

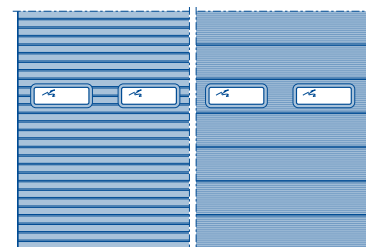
9500	9750	10000
Width		
Rail width 52 mm		
7		
7		



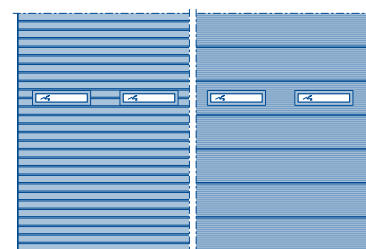
Basic model



Version with glazing frame



Version with compound glazing type A
Glazing dimensions (W × H): 710 × 320
Clear view (W × H): 635 × 245



Version with compound glazing type D
Glazing dimensions (W × H): 680 × 210
Clear view (W × H): 602 × 132

-  Size range for torsion spring doors (shaft operator)
-  Size range for torsion spring doors (shaft operator) or direct drive operator S 75 / S 140 ²⁾ after technical clarification
-  Size range for direct drive operator S 140 with 1400 Nm in conjunction with control 445 R or 460 R ²⁾ after technical clarification

Important:

Note the information regarding the trap guard on page 7 of this price list!

- 1) Visual balance with Micrograin due to even door section division along the height
- 2) Tubular shaft for direct drive operator required! Surcharge see page 9 or page 89.

Glazing frame	Page 45
Compound glazings type A and type D	Page 45
Intermediate heights	Page 45
Surface coating	From page 80
Accessories	From page 82

Sectional door SPU 67 Thermo, Stucco-textured / Micrograin

Double-skinned steel sectional door, door sections 625 and 750 mm high, depth 67 mm

Glazing frames, compound glazings and intermediate heights

Glazing frame (not possible in RC 2 version!)			
Glazing frame height 625 mm (up to max. door section height acc. to technical manual)		Glazing frame made of a profile with thermal break Rail 52 mm	
Version with:	U _g in W/(m ² ·K)	Article no.	€ per m ²
Clear synthetic triple pane (S3)	51 mm [U _g = 1.6]	3092367	442
Synthetic triple pane, crystal structure (U3)	51 mm [U _g = 1.6]	3094584	442
Synthetic triple pane, grey tinted (A3)	51 mm [U _g = 1.6]	3092369	477
Synthetic triple pane, white tinted (opal) (M3)	51 mm [U _g = 1.6]	3092371	477
Clear synthetic quadruple pane (S4)	51 mm [U _g = 1.3]	3092372	480
Synthetic quadruple pane, crystal structure (U4)	51 mm [U _g = 1.3]	3094585	480
Synthetic quadruple pane, grey tinted (A4)	51 mm [U _g = 1.3]	3092374	513
Synthetic quadruple pane, white tinted (opal) (M4)	51 mm [U _g = 1.3]	3092376	513
Clear polycarbonate triple pane (C3)	51 mm [U _g = 1.6]	3099336	566
Clear polycarbonate quadruple pane (C4)	51 mm [U _g = 1.3]	3099337	604
Double pane made of single-pane safety glass (E2) ¹⁾	26 mm [U _g = 2.6]	3092379	907
Climatic double pane made of single-pane safety glass (G2) ¹⁾	26 mm [U _g = 1.1]	3092380	1001
Prepared for on-site infill (BS) ¹⁾ (Anodised glazing bead required)		3092378	442
Compound glazings		Article no.	€
Type A: Diecast frame with clear synthetic triple pane ²⁾	51 mm	3092403	Each 213
Type A: Diecast frame with clear synthetic quadruple pane ²⁾	51 mm	3092404	Each 276
Type A: Diecast frame with clear real glass triple pane (P4A) ¹⁾	51 mm	3095216	Each 546
Type D: Plastic frame with clear synthetic triple pane ²⁾	41 mm	3092406	Each 166
Intermediate heights		Article no.	€ to the next grid height
Top door section adjusted for intermediate height		3092694	Per running metre door width 52
Further optional extras		Article no.	€
Surcharge for additional door section		3060507	Each + 12 % On the basic table price
Surcharge for a combination of high and low door sections that differ from the door section heights stated in column [A]		3092280	Per door 520
Surface coating			From page 80
Accessories			From page 82

1) On request

2) Not possible with version RC 2!

Sectional door SPU 67 Thermo, Stucco-textured / Micrograin

Double-skinned steel sectional door, door sections 375 and 500 mm high , depth 67 mm

Glazing frames, compound glazings and intermediate heights

Glazing frame (not possible in RC 2 version!)				
Glazing frame height 375 mm (up to max. door section height acc. to technical manual)		Glazing frame made of a profile with thermal break Rail 52 mm		
Version with:	U _g in W/(m ² ·K)	Article no.	€ per m ²	
Clear synthetic triple pane (S3)	51 mm [U _g = 1.6]	3092386	659	
Synthetic triple pane, crystal structure (U3)	51 mm [U _g = 1.6]	3094586	659	
Synthetic triple pane, grey tinted (A3)	51 mm [U _g = 1.6]	3092388	706	
Synthetic triple pane, white tinted (opal) (M3)	51 mm [U _g = 1.6]	3092390	706	
Clear synthetic quadruple pane (S4)	51 mm [U _g = 1.3]	3092391	714	
Synthetic quadruple pane, crystal structure (U4)	51 mm [U _g = 1.3]	3094587	714	
Synthetic quadruple pane, grey tinted (A4)	51 mm [U _g = 1.3]	3092393	766	
Synthetic quadruple pane, white tinted (opal) (M4)	51 mm [U _g = 1.3]	3092395	766	
Clear polycarbonate triple pane (C3)	51 mm [U _g = 1.6]	3099338	783	
Clear polycarbonate quadruple pane (C4)	51 mm [U _g = 1.3]	3099339	838	
Double pane made of single-pane safety glass (E2) ²⁾	26 mm [U _g = 2.6]	3092398	1353	
Climatic double pane made of single-pane safety glass (G2) ²⁾	26 mm [U _g = 1.1]	3092399	1489	
Prepared for on-site infill (BS) ¹⁾ (Anodised glazing bead required)		3092397	659	
Compound glazings		Article no.	€	
Type A: Diecast frame with clear synthetic triple pane ³⁾	51 mm	3092403	Each	213
Type A: Diecast frame with clear synthetic quadruple pane ³⁾	51 mm	3092404	Each	276
Type A: Diecast frame with clear real glass triple pane (P4A) ¹⁾	51 mm	3095216	Each	546
Type D: Plastic frame with clear synthetic triple pane ³⁾	41 mm	3092406	Each	166
Intermediate heights		Article no.	€ to the next grid height	
Top door section adjusted for intermediate height		3092694	Per running metre door width	52
Further optional extras		Article no.	€	
Surcharge for additional door section		3060507	Each	+ 12 % On the basic table price
Surcharge for a combination of high and low door sections that differ from the door section heights stated in column [A]		3092280	Per door	520
Surface coating				From page 80
Accessories				From page 82

1) On request

2) Only for door width up to 6000 mm; on request

3) Not possible with version RC 2!

Sectional door APU 67 Thermo Door width up to 6000 mm

Glazed aluminium sectional door with thermal break, with steel bottom section

Stucco-textured / Micrograin

The door leaf with bottom section height 750 mm (standard) and track application N (normal track application) are included in the basic table price.
Number of glazing frames acc. to column [A] **with clear synthetic triple pane, 51 mm, (S3).**
Delivery versions must be determined with the listed surcharges.

Track versions and surcharges can be found on pages 8 – 11.

For a product description, see pages 6 and 7.

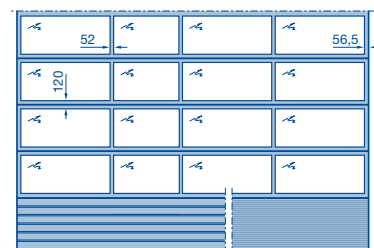
Doors with a grid height over 7500 mm on request.

Grid height	7500	11319	10854	11483	12151	13333	13909	15554	16178	16909	17568	18328	19054	20123	20837	
	7375	11286	10826	11413	12103	13250	13825	15464	16083	16806	17460	18219	18960	20052	20708	
	7250	11220	10759	11340	12035	13166	13742	15369	15979	16706	17384	18133	18845	19928	20591	
	7125	10949	10490	11138	11830	12744	13321	15058	15722	16410	17062	17771	18460	19483	20107	
	7000	10881	10419	11067	11756	12652	13233	14966	15621	16309	16955	17658	18340	19367	20002	
	6875	10798	10337	10977	11666	12557	13135	14853	15506	16186	16831	17532	18230	19227	19855	
	6750	10133	9674	10243	10844	11749	12298	13906	14510	15147	15780	16445	17089	17960	18551	
	6625	10052	9592	10167	10765	11667	12214	13812	14410	15043	15669	16340	16972	17834	18432	
	6500	9869	9409	9969	10596	11423	11967	13537	14139	14740	15357	16040	16660	17528	18112	
	6375	9804	9343	9877	10497	11327	11862	13450	14017	14645	15269	15920	16543	17379	17958	
	6250	9725	9264	9795	10402	11233	11764	13341	13906	14528	15153	15794	16415	17241	17833	
	6125	9652	9193	9720	10324	11149	11676	13248	13805	14427	15053	15680	16295	17137	17697	
	6000	9104	8643	9187	9731	10551	11008	12452	13021	13559	14130	14753	15323	16040	16570	
	5875	9000	8537	9067	9589	10377	10854	12250	12802	13340	13904	14503	15098	15798	16318	
	5750	8936	8475	9011	9516	10300	10765	12157	12707	13246	13799	14418	14973	15678	16193	
	5625	8863	8401	8932	9433	10228	10675	12054	12590	13136	13684	14299	14850	15551	16053	
	5500	8784	8322	8856	9351	10144	10583	11975	12485	13049	13596	14180	14729	15421	15933	
	5375	8719	8256	8780	9297	10067	10501	11883	12392	12944	13489	14061	14638	15218	15735	
	5250	8227	7766	8221	8703	9414	9842	11070	11572	12092	12568	13139	13682	15020	15537	
	5125	8161	7701	8150	8630	9350	9775	10980	11476	11980	12467	13045	13567	14821	15334	
	5000	7269	6808	7147	7514	8123	8436	9528	9911	10304	10676	11146	11557	12702	13110	
	4875	7202	6741	7115	7431	8039	8354	9432	9812	10205	10571	11033	11443	12609	12983	
	4750	7136	6674	7044	7346	7954	8268	9338	9719	10113	10464	10951	11329	12482	12855	
	4625	7045	6584	6971	7260	7871	8186	9256	9627	9978	10397	10845	11234	12357	12722	
	4500	6506	6045	6375	6724	7339	7653	8460	8744	9124	9443	9866	10237	11192	11598	
	4375	6477	6015	6305	6680	7255	7568	8364	8648	9021	9336	9756	10145	11120	11469	
	4250	6411	5948	6232	6608	7171	7484	8274	8549	8920	9262	9671	10029	10996	11355	
	4125	6141	5680	6030	6404	6746	7059	7963	8290	8624	8936	9305	9643	10554	10871	
	4000	6070	5610	5957	6328	6659	6973	7865	8188	8521	8829	9196	9525	10435	10762	
	3875	5986	5526	5870	6237	6560	6874	7754	8072	8401	8704	9069	9414	10298	10616	
	3750	5324	4863	5134	5419	5751	6039	6809	7080	7358	7656	7980	8269	9032	9313	
	3625	5242	4781	5061	5341	5669	5955	6712	6975	7258	7546	7875	8157	8903	9194	
	3500	5058	4597	4862	5168	5429	5708	6439	6702	6955	7234	7577	7841	8598	8874	
	3375	4992	4533	4768	5070	5330	5602	6355	6584	6858	7144	7454	7725	8446	8722	
	3250	4914	4454	4683	4976	5236	5506	6245	6474	6744	7026	7330	7599	8311	8595	
	3125	4844	4381	4608	4896	5154	5419	6150	6373	6639	6927	7217	7478	8206	8460	
	3000	4292	3830	4077	4307	4557	4750	5355	5589	5772	6007	6289	6506	7109	7328	
	2875	4189	3730	3958	4163	4380	4597	5152	5370	5557	5779	6039	6281	6868	7081	
	2750	4125	3664	3904	4090	4304	4508	5058	5274	5459	5674	5956	6154	6746	6954	
	2625	4050	3591	3824	4008	4232	4417	4955	5156	5348	5559	5836	6031	6623	6813	
	2500	3973	3513	3744	3927	4148	4324	4878	5055	5261	5466	5719	5912	6490	6696	
	2375	3908	3445	3673	3869	4071	4243	4783	4955	5160	5364	5599	5821	6366	6571	
	2250	3417	2956	3115	3278	3419	3581	3973	4139	4307	4447	4677	4864	5278	5440	
	2125	3351	2890	3043	3203	3355	3517	3880	4042	4195	4338	4580	4751	5165	5311	
	2000	3259	2801	2967	3117	3272	3430	3800	3961	4089	4250	4463	4632	5035	5187	
	1875	3194	2733	2896	3039	3192	3334	3704	3860	3985	4139	4362	4498	4908	5055	
Width From 1200		1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
		Width														
		Rail width 52 mm														
Number of fields per glazing frame		1	2				3				4					

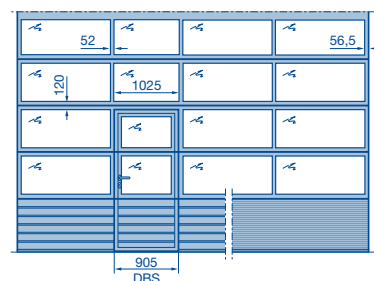
APU 67 Thermo
Wicket doors from page 60.



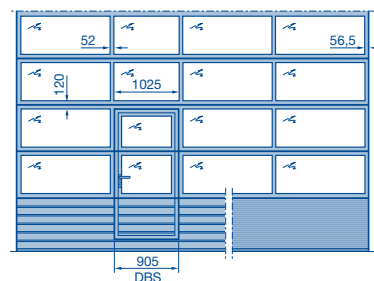
Basic model (without wicket door)
With uniform field division along the width



Basic model (without wicket door)
Field division along the width matching doors
with wicket door



Version with wicket door without threshold rail



Version with wicket door and threshold rail

DBS Wicket door clear passage width

					Number of glazing frames ¹⁾ For bottom section height	
					750 mm [A]	1500 mm [B] ²⁾
	23131	23915		7500	9	8
	23064	23793		7375	9	8
	22929	23676	25488	7250	9	8
	22480	23216	25043	7125	9	8
	22369	23088	24884	7000	9	8
	22218	22933	24719	6875	9	8
	20755	21425	23073	6750	8	7
	20636	21289	22929	6625	8	7
	20238	20892	22492	6500	8	7
	20079	20727	22350	6375	8	7
	19949	20579	22188	6250	8	7
	19812	20462	22051	6125	8	7
	18587	19177	20634	6000	7	6
	18311	18914	20334	5875	7	6
	18199	18788	20212	5750	7	6
	18057	18642	20053	5625	7	6
	17924	18497	19921	5500	7	6
	17797	18382	19776	5375	7	6
	16560	17100	18361	5250	6	5
	16436	16981	18227	5125	6	5
	14090	14524	15657	5000	6	5
	13961	14398	15558	4875	6	5
	13853	14261	15427	4750	6	5
	13744	14122	15273	4625	6	5
	12407	12815	13816	4500	5	4
	12342	12691	13665	4375	5	4
	12209	12572	13547	4250	5	4
	11757	12112	13101	4125	5	4
	11644	11989	12943	4000	5	4
	11494	11834	12781	3875	5	4
	10031	10328	11133	3750	4	3
	9912	10189	10992	3625	4	3
	9512	9790	10551	3500	4	3
	9357	9627	10412	3375	4	3
	9225	9477	10246	3250	4	3
	9088	9363	10110	3125	4	3
	7863	8076	8693	3000	3	2
	7586	7815	8395	2875	3	2
	7476	7692	8269	2750	3	2
	7332	7542	8114	2625	3	2
	7203	7397	7978	2500	3	2
	7072	7282	7835	2375	3	2
	5836	6002	6422	2250	2	1
	5713	5882	6286	2125	2	1
	5575	5739	6131	2000	2	1
	5457	5611	6005	1875	2	1

5000	5250	5500	5750	6000
4		5		

▲
Basic
table
price
-7 %

Size range for torsion spring doors (shaft operator)

Size range for torsion spring doors (shaft operator) or direct drive operator S 75 / S 140³⁾ after technical clarification

Important:

Note the information regarding the trap guard on page 7 of this price list!

- 1) See the technical manual for the number of door sections
- 2) [B] with a bottom section height of 1500 mm, basic table price -7 %
- 3) Tubular shaft for direct drive operator required! Surcharge see page 9 or page 89.

Alternative infills	Page 50
Additional glazing frames	Page 50
Surface coating	From page 80
Accessories	From page 82

Sectional door APU 67 Thermo Door width above 6000 mm

Glazed aluminium sectional door with thermal break, with steel bottom section

Stucco-textured / Micrograin

The door leaf with bottom section height 750 mm (standard) and track application N (normal track application) are included in the basic table price.
Number of glazing frames acc. to column [A] **with clear synthetic triple pane, 51 mm, (S3).**
Delivery versions must be determined with the listed surcharges.

Track versions and surcharges can be found on pages 8 – 11.

For a product description, see pages 6 and 7.

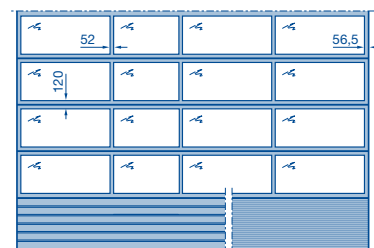
Doors with a grid height over 7500 mm on request.

Grid height	7500														
	7375														
	7250														
	7125														
	7000														
	6875														
	6750	25077													
	6625	24923													
	6500	24447	25425												
	6375	23982	24939												
	6250	23810	24759												
	6125	23649	24595	25542											
	6000	22258	22843	23555	24184	25060	25637	27155	27767						
	5875	21939	22524	23223	23828	24894	25477	26990	27598	30512	31117				
	5750	21788	22387	23080	23665	24217	25328	26826	27409	29834	30968				
	5625	21621	22219	22922	23487	24045	24606	26636	27248	29661	30245	31135			
	5500	21482	22070	22749	23319	23863	24423	26464	27062	29478	30062	30947			
	5375	21349	21928	22585	23155	23702	24263	25695	26934	29320	29904	30783			
	5250	19812	20360	20967	21486	22010	22553	23835	24373	27628	28191	29403	30242	31082	31924
	5125	19656	20190	20804	21339	21875	22376	23661	24191	27491	28013	29266	29791	30617	31446
	5000	16863	17286	17785	18214	18634	19027	20198	20617	23805	24217	25360	25772	26749	27471
	4875	16737	17155	17650	18042	18461	18845	20013	20493	23602	24012	25176	25551	26529	27247
	4750	16590	16992	17498	17874	18295	18698	19859	20322	23352	23730	24882	25254	26253	26963
	4625	16436	16883	17338	17738	18119	18535	19743	20141	23092	23482	24602	24969	25992	26695
	4500	14838	15233	15637	16051	16433	16795	17771	18146	21017	21390	22345	22753	23562	23965
	4375	14719	15098	15503	15917	16262	16620	17616	17956	20748	21137	22114	22461	23334	23686
	4250	14588	14948	15388	15756	16083	16398	17441	17803	20512	20871	21841	22195	23050	23418
	4125	14008	14341	14744	15061	15433	15803	16768	17117	19751	20082	20996	21311	22199	22560
	4000	13863	14197	14579	14915	15289	15631	16599	16982	19536	19861	20777	21102	21983	22330
	3875	13686	14043	14393	14751	15115	15434	16401	16775	19247	19590	20473	20793	21671	22010
	3750	11983	12282	12611	12905	13212	13509	14346	14648	17039	17328	18089	18375	19088	19386
	3625	11834	12123	12445	12756	13038	13357	14175	14452	16766	17041	17790	18083	18801	19075
	3500	11679	11975	12295	12590	12879	13201	13990	14296	16530	16795	17548	17828	18466	18741
	3375	11502	11793	12124	12399	12709	12998	13799	14094	16247	16519	17241	17516	18150	18419
	3250	11354	11639	11955	12243	12557	12838	13624	13947	16018	16285	16999	17282	17916	18165
	3125	11204	11496	11785	12088	12396	12658	13443	13751	15744	16008	16737	16987	17616	17890
	3000	9374	9586	9853	10121	10650	10878	11524	11764	13680	13897	14500	14717	15249	15465
	2875	9056	9265	9524	9766	10488	10719	11361	11596	13431	13674	14258	14473	14976	15206
	2750	8903	9130	9378	9600	9807	10568	11193	11409	13164	13363	13955	14162	14684	14896
	2625	8735	8961	9221	9420	9637	9847	11006	11247	12920	13118	13708	13903	14420	14629
	2500	8598	8814	9048	9258	9453	9662	10833	11062	12654	12844	13426	13633	14140	14336
	2375	8462	8673	8886	9091	9292	9502	10066	10931	12447	12670	13216	13417	13920	14130
	2250	6927	7103	7266	7425	7603	7791	8205	8373	9807	9994	10412	10571	10966	11133
	2125	6771	6932	7099	7274	7465	7617	8029	8188	9544	9717	10129	10273	10676	10845
	2000	6621	6767	6955	7123	7284	7432	7846	7992	9267	9432	9840	9990	10378	10539
	1875	6464	6628	6805	6967	7108	7264	7656	7816	9012	9152	9560	9706	10110	10263
Width From 6010		6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	8750	9000	9250	9500
		Width													
		Rail width 52 mm													
Number of fields per glazing frame		5							6						

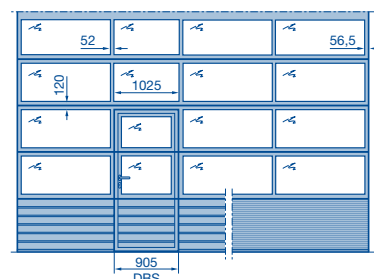
APU 67 Thermo
Wicket doors from page 60.



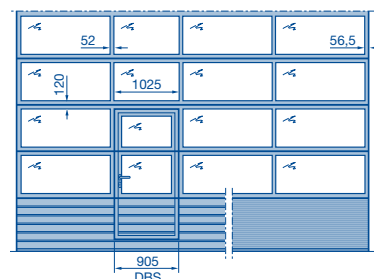
Basic model (without wicket door)
With uniform field division along the width



Basic model (without wicket door)
Field division along the width matching doors
with wicket door



Version with wicket door without threshold rail



Version with wicket door and threshold rail

DBS Wicket door clear passage width

				Number of glazing frames ¹⁾		Number of glazing frames ¹⁾ For door widths > 8000 mm	
				For bottom section height		For bottom section height	
				750 mm	1500 mm	750 mm	1500 mm
				[A]	[B] ²⁾	[C]	[D] ²⁾
			7500	9	8	12	11
			7375	9	8	12	11
			7250	9	8	12	11
			7125	9	8	12	10
			7000	9	8	11	10
			6875	9	8	11	10
			6750	8	7	11	10
			6625	8	7	11	9
			6500	8	7	11	9
			6375	8	7	10	9
			6250	8	7	10	9
			6125	8	7	10	9
			6000	7	6	10	8
			5875	7	6	9	8
			5750	7	6	9	8
			5625	7	6	9	8
			5500	7	6	9	7
			5375	7	6	9	7
			5250	6	5	8	7
			5125	6	5	8	7
			5000	6	5	8	7
			4875	6	5	8	6
			4750	6	5	7	6
			4625	6	5	7	6
			4500	5	4	7	6
			4375	5	4	7	5
			4250	5	4	7	5
			4125	5	4	6	5
			4000	5	4	6	5
			3875	5	4	6	5
			3750	4	3	6	4
			3625	4	3	5	4
			3500	4	3	5	4
			3375	4	3	5	4
			3250	4	3	5	4
			3125	4	3	5	3
			3000	3	2	4	3
			2875	3	2	4	3
			2750	3	2	4	3
			2625	3	2	4	2
			2500	3	2	4	2
			2375	3	2	3	2
			2250	2	1	3	2
			2125	2	1	3	2
			2000	2	1	3	1
			1875	2	1	2	1

9500	9750	10000
Width		
Rail width 52 mm		
7		

▲
Basic
table
price
-7 %

▲
Basic
table
price
-7 %

- Size range for torsion spring doors (shaft operator)
- Size range for torsion spring doors (shaft operator) or direct drive operator S 75 / S 140 ³⁾ after technical clarification
- Size range for direct drive operator S 140 with 1400 Nm in conjunction with control 445 R or 460 R ³⁾ after technical clarification

Important:

Note the information regarding the trap guard on page 7 of this price list!

- See the technical manual for the number of door sections
- [B] and [D] with a bottom section height of 1500 mm, basic table price -7 %
- Tubular shaft for direct drive operator required! Surcharge see page 9 or page 89.

Alternative infills	Page 50
Additional glazing frames	Page 50
Surface coating	From page 80
Accessories	From page 82

Sectional door APU 67 Thermo

Glazed aluminium sectional door with thermal break with steel bottom section, Stucco-textured or Micrograin

Alternative infills and glazing frames

Alternative infills		U _g in W/(m ² ·K)	Article no.		€
Clear synthetic triple pane (S3)	51 mm	[U _g = 1.6]	3092415	Included in the door price	
Synthetic triple pane, crystal structure (U3)	51 mm	[U _g = 1.6]	3094588	Each	No surcharge
Synthetic triple pane, grey tinted (A3)	51 mm	[U _g = 1.6]	3092417	Each	34
Synthetic triple pane, white tinted (opal) (M3)	51 mm	[U _g = 1.6]	3092419	Each	34
Clear synthetic quadruple pane (S4)	51 mm	[U _g = 1.3]	3092420	Each	82
Synthetic quadruple pane, crystal structure (U4)	51 mm	[U _g = 1.3]	3094589	Each	82
Synthetic quadruple pane, grey tinted (A4)	51 mm	[U _g = 1.3]	3092422	Each	111
Synthetic quadruple pane, white tinted (opal) (M4)	51 mm	[U _g = 1.3]	3092424	Each	111
Clear polycarbonate triple pane (C3)	51 mm	[U _g = 1.6]	3099340	Each	124
Clear polycarbonate quadruple pane (C4)	51 mm	[U _g = 1.3]	3099341	Each	206
PU infill with aluminium sheet cover, both sides Stucco-textured (FU)	51 mm	[U _g = 0.54]	3092408	Each	No surcharge
PU infill with aluminium sheet cover, smooth anodised on both sides (XU)	51 mm	[U _g = 0.54]	3092409	Each	140
Prepared for on-site infill (BS) ¹⁾ (Anodised glazing bead required)			3092426	Each	No surcharge
Alternative real glass infills		U _g in W/(m ² ·K)	Article no.		€
Up to door width 6000 mm ¹⁾ with:					
Double pane made of single-pane safety glass (E2)	26 mm	[U _g = 2.6]	3092427	Per m ²	394
Climatic double pane made of single-pane safety glass (G2)	26 mm	[U _g = 1.1]	3092428	Per m ²	525
Additional glazing frame			Article no.		€
- Glazing frame height acc. to the technical manual - Rail width 52 mm - If the number of glazing frames is greater than specified in columns [A] or [B].					
With clear synthetic triple pane (S3)	51 mm		3092400	Each	+ 16 % On the basic table price
Further optional extras			Article no.		€
Surcharge for frame heights that differ from the standard			3060532	Per door	232
Surface coating					From page 80
Accessories					From page 82

1) On request

Notes and sketches

Sectional door ALR 67 Thermo Door width up to 6000 mm

Glazed aluminium sectional door with thermal break

The door leaf and the track application N (normal track application) are included in the basic table price.

Number of glazing frames according to column [A] **with clear synthetic triple pane, 51 mm, (S3), with bottom PU infill with aluminium sheet cover, Stucco-textured on both sides, 51 mm, (FU)**. Delivery versions must be determined with the listed surcharges.

Track versions and surcharges can be found on pages 8 – 11.

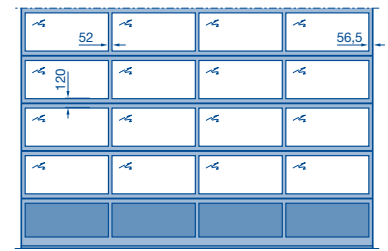
For a product description, see pages 6 and 7.

Doors with a grid height over 7500 mm on request.

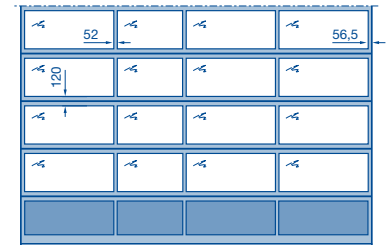
Grid height	7500	12089	11628	12351	13348	14028	14807	16691	17465	18209	18962	19829	20624	21873	22623	
	7375	12020	11559	12275	13259	13942	14720	16593	17365	18103	18853	19740	20504	21771	22486	
	7250	11932	11468	12199	13172	13854	14630	16506	17270	17994	18777	19629	20401	21637	22348	
	7125	11700	11237	11954	12894	13570	14350	16178	16957	17689	18422	19236	20003	21165	21905	
	7000	11628	11167	11906	12830	13486	14258	16099	16868	17585	18305	19117	19887	21051	21765	
	6875	11561	11099	11834	12756	13428	14201	16007	16769	17484	18199	19027	19780	20927	21685	
	6750	10857	10398	11070	11992	12623	13327	15054	15773	16482	17152	17930	18649	19676	20339	
	6625	10789	10328	11019	11911	12545	13254	14951	15666	16369	17048	17815	18526	19555	20222	
	6500	10622	10159	10813	11652	12274	13012	14694	15363	16054	16767	17515	18226	19228	19885	
	6375	10519	10060	10717	11551	12187	12899	14553	15264	15942	16629	17391	18082	19086	19723	
	6250	10451	9990	10642	11459	12106	12812	14455	15160	15853	16519	17273	17957	18952	19593	
	6125	10362	9899	10548	11363	12002	12704	14337	15038	15737	16397	17150	17816	18802	19440	
	6000	9859	9399	10004	10827	11396	12057	13617	14240	14887	15522	16254	16886	17748	18362	
	5875	9808	9348	9927	10735	11307	11965	13513	14130	14773	15423	16132	16779	17611	18234	
	5750	9655	9194	9819	10596	11147	11794	13297	13912	14543	15168	15860	16522	17354	17966	
	5625	9604	9143	9748	10535	11064	11707	13187	13831	14456	15080	15741	16398	17239	17830	
	5500	9516	9057	9655	10440	10963	11602	13069	13710	14330	14948	15629	16259	17097	17671	
	5375	9443	8981	9593	10353	10894	11526	12987	13624	14240	14816	15506	16152	16897	17473	
	5250	8946	8484	9067	9768	10282	10877	12222	12829	13378	13960	14637	15216	16699	17271	
	5125	8867	8406	8988	9701	10215	10785	12138	12709	13286	13863	14501	15085	16498	17073	
	5000	7865	7404	7860	8451	8839	9282	10513	10958	11409	11863	12372	12837	14124	14584	
	4875	7796	7336	7785	8364	8750	9193	10417	10850	11304	11750	12264	12714	14007	14424	
	4750	7729	7268	7756	8277	8664	9105	10332	10774	11219	11639	12146	12646	13875	14320	
	4625	7655	7193	7730	8221	8608	9049	10225	10663	11104	11549	12023	12519	13738	14178	
	4500	7167	6702	7092	7584	7972	8373	9444	9841	10224	10624	11100	11526	12647	13069	
	4375	7097	6635	7017	7500	7886	8287	9347	9735	10117	10511	11012	11402	12554	12932	
	4250	7006	6547	6942	7409	7796	8198	9260	9645	10006	10438	10900	11301	12413	12793	
	4125	6777	6316	6698	7130	7516	7917	8929	9333	9701	10079	10507	10903	11942	12354	
	4000	6702	6243	6652	7066	7432	7827	8852	9241	9604	9966	10387	10788	11829	12211	
	3875	6638	6179	6579	6995	7370	7766	8759	9143	9499	9858	10298	10683	11706	12134	
	3750	5935	5474	5813	6231	6567	6891	7806	8146	8496	8813	9205	9551	10454	10788	
	3625	5866	5405	5763	6150	6491	6822	7704	8039	8384	8706	9086	9425	10332	10670	
	3500	5701	5237	5557	5888	6219	6575	7445	7736	8070	8425	8785	9126	10006	10330	
	3375	5598	5137	5460	5787	6134	6464	7306	7638	7957	8290	8664	8981	9863	10166	
	3250	5528	5068	5384	5697	6052	6375	7207	7531	7868	8176	8548	8860	9729	10041	
	3125	5440	4979	5292	5599	5947	6268	7087	7409	7753	8057	8421	8717	9580	9886	
	3000	4940	4477	4751	5065	5338	5624	6369	6612	6900	7182	7525	7785	8523	8810	
	2875	4887	4424	4672	4976	5251	5533	6266	6503	6786	7082	7401	7679	8388	8683	
	2750	4733	4274	4564	4831	5090	5361	6048	6286	6558	6831	7132	7426	8133	8413	
	2625	4681	4219	4492	4771	5006	5270	5937	6204	6473	6741	7011	7297	8014	8275	
	2500	4595	4134	4400	4677	4908	5167	5822	6084	6343	6609	6900	7158	7874	8119	
	2375	4518	4060	4338	4592	4839	5090	5739	5998	6257	6477	6777	7054	7736	7992	
	2250	4022	3562	3810	4006	4227	4442	4977	5201	5396	5620	5910	6117	6699	6907	
	2125	3942	3483	3732	3940	4159	4346	4890	5080	5300	5521	5770	5986	6558	6778	
	2000	3873	3413	3649	3860	4062	4277	4779	4976	5188	5404	5649	5883	6438	6646	
	1875	3807	3347	3563	3788	3966	4174	4669	4878	5085	5300	5540	5768	6301	6492	
Width		1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
		Width														
		Rail width 52 mm														
Number of fields per glazing frame		1	2					3					4			

ALR 67 Thermo

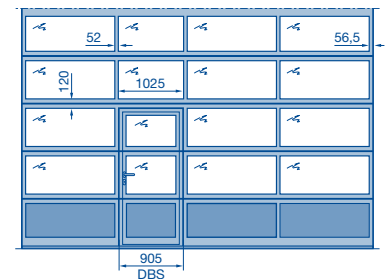
Wicket doors from page 60.



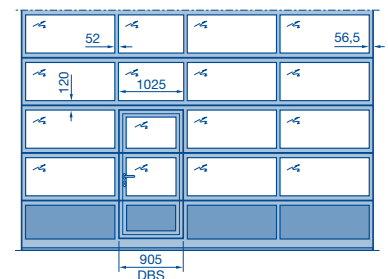
Basic model (without wicket door)
With uniform field division along the width



Basic model (without wicket door)
Field division along the width matching doors
with wicket door



Version with wicket door without threshold rail



Version with wicket door and threshold rail

DBS Wicket door clear passage width

					Number of glazing frames ¹⁾ [A]
24955	25796			7500	10
24817	25668			7375	10
24682	25518			7250	10
24247	25038			7125	10
24109	24907			7000	10
23976	24800			6875	10
22531	23283	25485	26592	6750	9
22383	23156	25322	26425	6625	9
21981	22729	25160	26253	6500	9
21809	22558	24975	25695	6375	9
21696	22437	24829	25553	6250	9
21533	22282	24665	25377	6125	9
20357	21044	23029	23694	6000	8
20208	20893	22877	23526	5875	8
19929	20614	22567	23198	5750	8
19782	20463	22393	23057	5625	8
19643	20322	22219	22878	5500	8
19513	20173	22072	22738	5375	8
18332	18961	20734	21355	5250	7
18202	18806	20589	21192	5125	7
15576	16053	17712	18191	5000	7
15465	15936	17559	18070	4875	7
15340	15792	17441	17934	4750	7
15192	15690	17315	17798	4625	7
13958	14393	15899	16306	4500	6
13817	14261	15761	16182	4375	6
13684	14116	15595	16017	4250	6
13247	13635	15434	15892	4125	6
13110	13502	14930	15311	4000	6
12976	13396	14787	15192	3875	6
11533	11877	13212	13545	3750	5
11386	11753	13050	13378	3625	5
10983	11326	12883	13221	3500	5
10813	11150	12704	13045	3375	5
10699	11032	12559	12902	3250	5
10536	10880	12393	12727	3125	5
9361	9641	10754	11043	3000	4
9211	9487	10605	10876	2875	4
8929	9210	10296	10548	2750	4
8787	9061	10122	10409	2625	4
8646	8917	9947	10226	2500	4
8517	8770	9802	10085	2375	4
7336	7559	8462	8702	2250	3
7205	7400	8317	8542	2125	3
7047	7269	8163	8373	2000	3
6909	7127	7987	8215	1875	3

5000	5250	5500	5750	6000
Width				
Rail width 52 mm				
4		5		

Size range for torsion spring doors (shaft operator)

Size range for torsion spring doors (shaft operator) or direct drive operator S 75 / S 140 ²⁾ after technical clarification

Important:

Note the information regarding the trap guard on page 7 of this price list!

- See the technical manual for the number of door sections
- Tubular shaft for direct drive operator required! Surcharge see page 9 or page 89.

Alternative infills	Page 56
Additional glazing frames	Page 56
Surface coating	From page 80
Accessories	From page 82

Sectional door ALR 67 Thermo Door width above 6000 mm

Glazed aluminium sectional door with thermal break

The door leaf and the track application N (normal track application) are included in the basic table price.

Number of glazing frames according to column [A] **with clear synthetic triple pane, 51 mm, (S3), with bottom PU infill with aluminium sheet cover, Stucco-textured on both sides, 51 mm, (FU)**. Delivery versions must be determined with the listed surcharges.

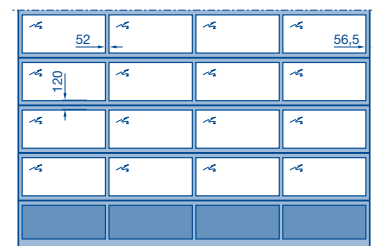
Track versions and surcharges can be found on pages 8 – 11.

For a product description, see pages 6 and 7.

Doors with a grid height over 7500 mm on request.

Grid height	7500															
	7375															
	7250															
	7125															
	7000															
	6875															
	6750															
	6625															
	6500															
	6375	26768														
	6250	26621														
	6125	26437														
	6000	24735	25742	26510	27182	27836	28583	30337	31044							
	5875	24586	25588	26336	27018	27699	28420	30171	30900							
	5750	24244	24935	26176	26853	27522	28226	30030	30686							
	5625	24089	24759	26020	26715	27343	28058	29811	30488	33436	34118					
	5500	23903	24571	25292	26526	27182	27915	29589	30270	33277	33972					
	5375	23734	24398	25125	25773	27056	27712	29395	30076	33151	33770					
	5250	22265	22915	23610	24215	24796	25427	26992	27612	30892	31489					
	5125	22108	22769	23421	24029	24607	25230	26789	27390	30704	31293	32705	33289			
	5000	18984	19517	20046	20529	20983	21481	22913	23388	26578	27042	28327	28786			
	4875	18848	19382	19869	20386	20831	21290	22726	23207	26315	26765	28057	28473			
	4750	18734	19222	19731	20240	20659	21134	22544	23016	26047	26546	27776	28221	29239		
	4625	18595	19044	19588	20066	20469	21008	22352	22843	25795	26291	27512	27950	28963		
	4500	17023	17437	17948	18387	18824	19235	20440	20874	23744	24170	25291	25714	26601	27038	
	4375	16868	17297	17805	18209	18646	19076	20276	20750	23539	23932	25077	25459	26348	26791	
	4250	16699	17175	17639	18060	18458	18899	20141	20561	23273	23676	24790	25167	26060	26488	
	4125	16564	17038	17459	17919	18304	18623	19966	20378	23010	23406	24446	24856	25750	26139	
	4000	15952	16351	16805	17233	17645	18053	19240	19627	22178	22573	23618	23999	24901	25290	
	3875	15810	16201	16667	17068	17488	17928	19037	19437	21909	22294	23315	23744	24590	25011	
	3750	14104	14477	14888	15236	15623	15996	17021	17391	19782	20130	21035	21366	22112	22458	
	3625	13965	14323	14717	15076	15465	15830	16839	17241	19555	19893	20803	21137	21853	22221	
	3500	13792	14168	14537	14912	15289	15632	16704	17029	19262	19604	20486	20807	21461	21800	
	3375	13642	13985	14385	14733	15086	15457	16478	16796	18951	19267	20151	20454	21100	21439	
	3250	13484	13756	14234	14580	14924	15331	16264	16599	18676	18986	19856	20166	20825	21161	
	3125	13291	13660	14054	14378	14749	15122	16051	16382	18378	18673	19536	19841	20493	20835	
	3000	11498	12103	12449	12741	13044	13389	14212	14533	16447	16708	17446	17731	18280	18562	
	2875	11352	11951	12279	12572	12905	13222	14044	14389	16224	16498	17209	17501	18031	18307	
	2750	11006	11296	12115	12410	12729	13028	13904	14174	15927	16219	16929	17208	17726	18004	
	2625	10850	11124	11961	12274	12547	12866	13685	13972	15645	15932	16652	16908	17423	17694	
	2500	10665	10936	11234	12086	12392	12717	13466	13760	15353	15613	16325	16572	17097	17370	
	2375	10500	10762	11064	11329	12261	12517	13270	13564	15079	15356	16037	16293	16818	17070	
	2250	9030	9278	9551	9772	10003	10233	10866	11097	12531	12741	13324	13527	13958	14179	
	2125	8875	9131	9364	9586	9813	10035	10662	10877	12231	12447	13018	13239	13662	13861	
	2000	8735	8954	9189	9412	9621	9859	10463	10705	11983	12216	12768	12976	13380	13600	
	1875	8552	8767	9003	9228	9444	9648	10263	10490	11683	11913	12445	12636	13053	13270	
Width From 6001		6250	6500	6750	7000	7250	7500	7750	8000	8250	8500	8750	9000	9250	9500	
		Width														
		Rail width 52 mm														
Number of fields per glazing frame		5							6							

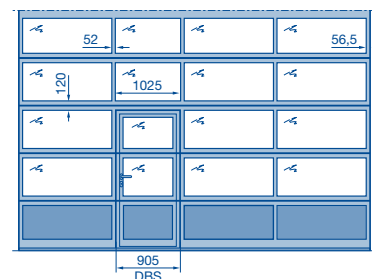
ALR 67 Thermo
Wicket doors from page 60.



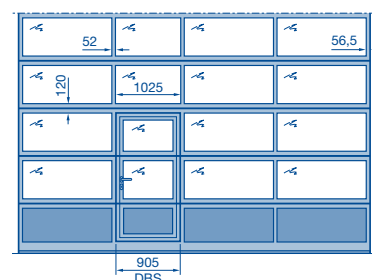
Basic model (without wicket door)
With uniform field division along the width



Basic model (without wicket door)
Field division along the width matching doors
with wicket door



Version with wicket door without threshold rail



Version with wicket door and threshold rail

DBS Wicket door clear passage width

				Number of glazing frames ¹⁾	Number of glazing frames ¹⁾ For door widths > 8000 mm
				[A]	[B]
			7500	10	14
			7375	10	13
			7250	10	13
			7125	10	13
			7000	10	13
			6875	10	12
			6750	9	12
			6625	9	12
			6500	9	12
			6375	9	12
			6250	9	11
			6125	9	11
			6000	8	11
			5875	8	11
			5750	8	11
			5625	8	10
			5500	8	10
			5375	8	10
			5250	7	10
			5125	7	9
			5000	7	9
			4875	7	9
			4750	7	9
			4625	7	9
	28544	28949	4500	6	8
	28292	28710	4375	6	8
	27970	28394	4250	6	8
	27562	27945	4125	6	8
	26715	27098	4000	6	7
	26402	26800	3875	6	7
	23791	24124	3750	5	7
	23516	23848	3625	5	7
	23363	23699	3500	5	7
	22992	23330	3375	5	6
	22684	23030	3250	5	6
	22348	22684	3125	5	6
	19675	19965	3000	4	6
	19427	19695	2875	4	5
	19090	19343	2750	4	5
	18760	19042	2625	4	5
	18399	18682	2500	4	5
	18104	18388	2375	4	5
	15084	15323	2250	3	4
	14775	14999	2125	3	4
	14499	14703	2000	3	4
	14130	14360	1875	3	4

9500	9750	10000
Width		
Rail width 52 mm		
7		

- Size range for torsion spring doors (shaft operator)
- Size range for torsion spring doors (shaft operator) or direct drive operator S 75/S 140²⁾ after technical clarification
- Size range for direct drive operator S 140 with 1400 Nm in conjunction with control 445 R or 460 R²⁾ after technical clarification

Important:

Note the information regarding the trap guard on page 7 of this price list!

- See the technical manual for the number of door sections
- Tubular shaft for direct drive operator required! Surcharge see page 9 or page 89.

Alternative infills	Page 56
Additional glazing frames	Page 56
Surface coating	From page 80
Accessories	From page 82

Sectional door ALR 67 Thermo

Glazed aluminium sectional door with thermal break

Alternative infills and glazing frames

Alternative infills		U _g in W/(m ² ·K)	Article no.		€
Clear synthetic triple pane (S3)	51 mm	[U _g = 1.6]	3092415	Included in the door price	
Synthetic triple pane, crystal structure (U3)	51 mm	[U _g = 1.6]	3094588	Each	No surcharge
Synthetic triple pane, grey tinted (A3)	51 mm	[U _g = 1.6]	3092417	Each	34
Synthetic triple pane, white tinted (opal) (M3)	51 mm	[U _g = 1.6]	3092419	Each	34
Clear synthetic quadruple pane (S4)	51 mm	[U _g = 1.3]	3092420	Each	82
Synthetic quadruple pane, crystal structure (U4)	51 mm	[U _g = 1.3]	3094589	Each	82
Synthetic quadruple pane, grey tinted (A4)	51 mm	[U _g = 1.3]	3092422	Each	111
Synthetic quadruple pane, white tinted (opal) (M4)	51 mm	[U _g = 1.3]	3092424	Each	111
Clear polycarbonate triple pane (C3)	51 mm	[U _g = 1.6]	3099340	Each	124
Clear polycarbonate quadruple pane (C4)	51 mm	[U _g = 1.3]	3099341	Each	206
PU infill with aluminium sheet cover, both sides Stucco-textured (FU)	51 mm	[U _g = 0.54]	3092408	Each	No surcharge
PU infill with aluminium sheet cover, smooth anodised on both sides (XU)	51 mm	[U _g = 0.54]	3092409	Each	140
Prepared for on-site infill (BS) ¹⁾ (Anodised glazing bead required)			3092426	Each	No surcharge
Alternative real glass infills		U _g in W/(m ² ·K)	Article no.		€
Up to door width 6000 mm ¹⁾ with:					
Double pane made of single-pane safety glass (E2)	26 mm	[U _g = 2.6]	3092427	Per m ²	394
Climatic double pane made of single-pane safety glass (G2)	26 mm	[U _g = 1.1]	3092428	Per m ²	525
Additional glazing frame			Article no.		€
- Glazing frame height acc. to the technical manual - Rail width 52 mm - If the number of glazing frames is greater than specified in columns [A] or [B].					
With clear synthetic triple pane (S3)	51 mm		3092400	Each	+ 16 % On the basic table price
Further optional extras			Article no.		€
Surcharge for frame heights that differ from the standard			3060532	Per door	232
Surface coating					From page 80
Accessories					From page 82

1) On request

Sectional door ALR 67 Thermo

Glazed aluminium sectional door with thermal break

Alternative infills and glazing frames

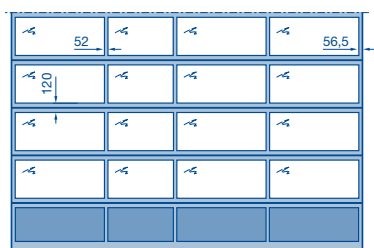
Sectional door ALR 67 Thermo

Wicket doors from page 60.

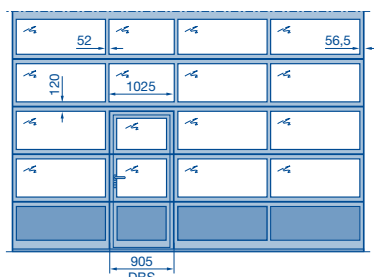
Bottom door section with PU infill, with aluminium sheet cover



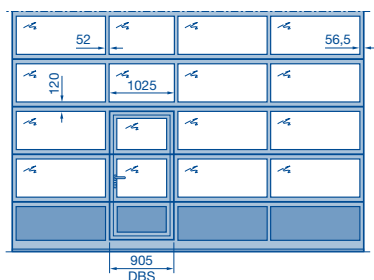
Basic model (without wicket door)
With uniform field division along the width



Basic model (without wicket door)
Field division along the width matching doors
with wicket door



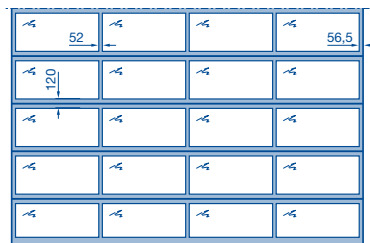
Version with wicket door without threshold rail



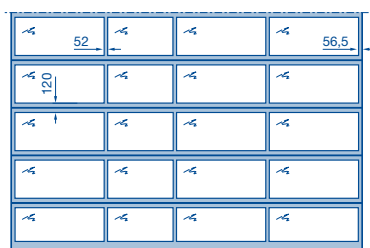
Version with wicket door and threshold rail

Bottom door section with (optional) glazing

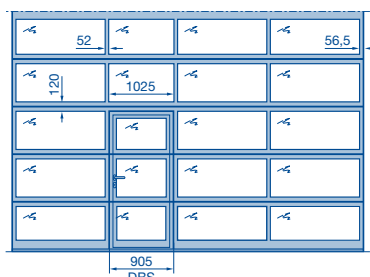
Width up to 5500 mm



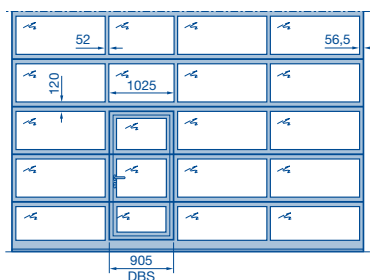
Version with glazing in the lowest door section (without wicket door)
With uniform field division along the width



Version with glazing in the lowest door section (without wicket door)
Field division along the width matching doors with wicket door

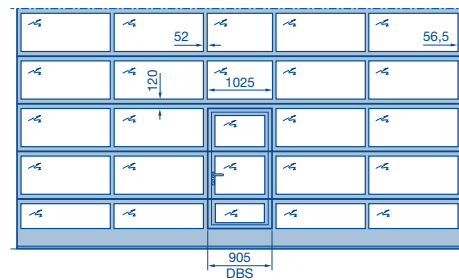
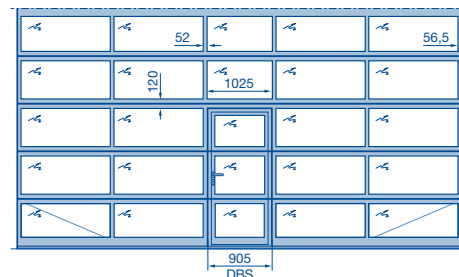
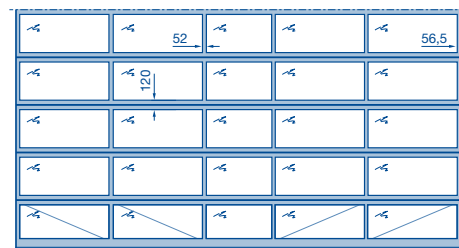
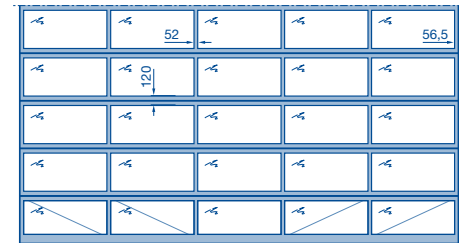


Version with glazing in the lowest door section, with wicket door without threshold rail



Version with glazing in the lowest door section, with wicket door and threshold rail

Width more than 5500 mm*



DBS Wicket door clear passage width

*** Note:**
For door widths above 5500 mm (for doors with wicket door with real glass infill for door widths above 4500 mm) diagonal struts are fitted in the bottom glazing frame (except for doors with wicket door and threshold rail). The struts are visible from the outside with glazing in the bottom door section!

Sectional door ALR 67 Thermo Glazing

WITH REAL GLASS

Aluminium sectional door with extensive glazing with thermal break, real glass

The door leaf and the track application N (normal track application) are included in the basic table price.

Number of glazing frames **with double pane made of single-pane safety glass, 26 mm, (E2)**, according to column [A].

Delivery versions must be determined with the listed surcharges.

Track versions and surcharges can be found on pages 8 – 11.

For a product description, see pages 6 and 7.

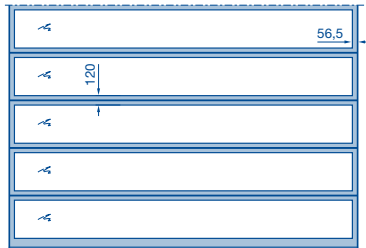
Grid height	4000	10153	10522	10998	11351	11749	13402	14147	14548	15061	15421	15817	16103	16487	16762	4000		
	3875	9936	10304	10782	11135	11533	13187	13934	14332	14849	15204	15603	15887	16271	16543	3875		
	3750	9721	10088	10568	10920	11319	12970	13717	14118	14632	14989	15388	15674	16057	16329	3750		
	3625	9506	9877	10353	10704	11100	12756	13504	13900	14417	14774	15171	15456	15840	16113	3625		
	3500	8647	9005	9471	9810	10197	11692	12364	12752	13250	13598	13983	14259	14634	14895	3500		
	3375	8049	8407	8870	9210	9599	10980	11593	11983	12481	12828	13213	13490	13861	14129	3375		
	3250	7448	7807	8273	8614	8999	10267	10825	11211	11711	12058	12445	12720	13095	13359	3250		
	3125	6853	7209	7673	8014	8398	9556	10055	10442	10943	11289	11674	11953	12324	12589	3125		
	3000	6254	6609	7073	7413	7803	8842	9286	9672	10173	10522	10907	11182	11556	11822	3000		
	2875	5652	6010	6477	6816	7203	8129	8519	8903	9403	9749	10134	10413	10787	11050	2875		
	2750	5408	5763	6229	6571	6918	7827	8161	8555	9057	9403	9787	10069	10440	10701	2750		
	2625	5305	5663	6114	6479	6825	7681	8057	8407	8905	9253	9639	9916	10292	10551	2625		
	2500	5201	5578	5998	6343	6689	7534	7896	8245	8753	9102	9487	9766	10135	10402	2500		
	2375	5107	5478	5887	6231	6571	7397	7777	8106	8583	8931	9316	9594	9968	10231	2375		
	2250	5002	5366	5772	6109	6464	7257	7637	7955	8422	8773	9156	9435	9809	10073	2250		
	2125	4257	4544	4866	5169	5461	6143	6428	6709	7161	7437	7760	8037	8411	8677	2125		
	2000	4179	4448	4773	5069	5362	6028	6314	6583	7034	7306	7619	7920	8265	8529	2000		
	1875	4088	4352	4714	4987	5251	5933	6178	6481	6908	7172	7480	7753	8112	8386	1875		
Width From 2000		2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500			
		Width																
		Rail width 52 mm																
Number of fields per glazing frame		1 (up to 3330 mm)					2 (up to 5500 mm)											

Important:

Note the information regarding the trap guard on page 7 of this price list!

	Number of glazing frames ¹⁾
	[A]
	6
	6
	6
	6
	5
	5
	5
	5
	5
	5
	4
	4
	4
	4
	4
	4
	4
	3
	3
	3

ALR 67 Thermo Glazing
Wicket doors are not possible!



Version up to door widths of 3330 mm



Version for door widths over 3330 mm

1) See the technical manual for the number of door sections

Alternative real glass infills		U _g in W/(m²·K)	Article no.	€
Climatic double pane made of single-pane safety glass (G2)	26 mm	[U _g = 1.1]	3092667	Per m² 133
Additional glazing frame			Article no.	€
- Glazing frame height acc. to the technical manual - Rail width 52 mm - If the number of glazing frames is greater than specified in column [A]				
With double pane made of single-pane safety glass (E2)	26 mm		3092400	Each + 16 % On the basic table price
Surface coating				From page 80
Accessories				From page 82

Wicket doors

For sectional doors SPU F42, APU F42, APU F42 Thermo, ALR F42 and ALR F42 Thermo
For sectional doors SPU 67 Thermo, APU 67 Thermo and ALR 67 Thermo

Product description

All wicket doors including:

- Slide rail door closer with hold-open device
- Mortice lock with profile cylinder (for round cylinder version without cylinder)
For version RC 2 with profile cylinder in acc. with DIN 1303 (point 7 = class 5, point 8 = class D)
(round cylinder version prepared for DORMAKABA star M 1515 cylinder)
- Lever handle set, offset / flat, black plastic
- Clear passage width (DBS) 940 mm for wicket doors for sectional doors with 42 mm depth;
Clear passage width (DBS) 905 mm for wicket doors for sectional doors with 67 mm depth

Please include when ordering the door! Door size according to the technical manual.

Please obtain the precise fitting area of the wicket doors from the technical manual as there are differences in the door height limits between the door models.

Wicket door for sectional door depth 42 mm

Wicket door version	Door width	Door width For real glass in the wicket door area	Bottom section	Article no.	€
Wicket door with threshold rail	1750–4500 mm		Min. 500 mm high	678800	Per door 1758
	4510–5500 mm	1750–4500 mm	Min. 500 mm high	678801	Per door 1902
	5510–7000 mm	4510–6000 mm	Min. 625 mm high ¹⁾	678802	Per door 3598
Wicket door without threshold rail	1750–5500 mm	1750–4500 mm	–	3065128	Per door 1533
	5510–7000 mm	4510–6000 mm	–	3065129	Per door 3127

Wicket door in version with thermal break for sectional door depth 67 mm

Wicket door version	Door width	Door width For real glass in the wicket door area	Bottom section	Article no.	€
Wicket door with threshold rail	1750–4500 mm		Min. 500 mm high	3092672	Per door 2506
	4510–5500 mm	1750–4500 mm	Min. 500 mm high	3092673	Per door 2652
	5510–7000 mm	4510–6000 mm	Min. 625 mm high ¹⁾	3092674	Per door 4346
Wicket door without threshold rail	1750–5500 mm	1750–4500 mm	–	3092442	Per door 2281
	5510–7000 mm	4510–6000 mm	–	3092443	Per door 3876

1) Bottom PU door section made of 375/500 mm section and two 125 mm aluminium bottom profiles

Optional extras for wicket doors

Versions (deviating from the standard)	Article no.	€
Surcharge for wicket door break-in resistance equipment	3097938	Per door 313

Note:

Multiple-point locking for wicket doors required!

Wicket door without lock and without lever handle set	3060371	No surcharge / price reduction
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Note:

Not possible with version RC 2!

Wicket door without outside lever handle with double cylinder (the door can only be opened using a key from the outside)	3060517	Per door 133
Wicket door without outside lever handle with half cylinder (The door can only be operated from the inside)	3060518	Per door 129
Surcharge for the clear passage width of the wicket door according to specifications (max. clear passage width for depth of 42 mm = 1140 mm, for depth of 67 mm = 1105 mm)	3060510	Per door 426

Note:

Not available for doors with real glass infill in the wicket door area!

Surcharge for an additional wicket door section (from 3-part to 4-part, LDH max 2500 mm)	3065237	Per door 706
Wicket door with very short distance to outside door edge	3060512	Per door 539

Notes:

- Distance to the outer door edge: 455 mm for depth 42 mm / 465 mm for depth 67 mm.
- Not possible for doors with real glass.

Surcharge for doors with wicket door with door widths of 1500–1740 mm	3060509	Per door 1385
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Note:

The clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

Wicket doors

For sectional doors SPU F42, APU F42 / APU F42 Thermo and ALR F42 / ALR F42 Thermo

For sectional doors SPU 67 Thermo, APU 67 Thermo and ALR 67 Thermo

Optional extras for wicket doors				
Anti-panic locks for wicket doors (not possible in RC 2 version!)		Article no.		€
Anti-panic lock for fixed knob on outside Function E: The door can only be opened using a key from the outside.	PZ	3092521	Each	234
	RC	3092522	Each	234
Anti-panic lock for profile cylinder with panic spindle, for lever handle outside Function B: With the change-over function; the lever handle is switched to "idle" or "operation" after actuation, depending on the adjustment.	PZ	3091225	Each	310
	RC	3095106	Each	310
Anti-panic lock for profile cylinder with panic spindle, for lever handle outside Function D: After being operated from the inside, the door can always be operated from the outside without using a key.	PZ	3091226	Each	310
	RC	3095107	Each	310
Anti-panic lock for fixed knob on outside, self-locking Function E: The door can only be opened using a key from the outside.	PZ	3093758	Each	490
	RC	3093759	Each	490
Anti-panic lock for lever handle on outside, self-locking Function B: With the change-over function; the lever handle is switched to "idle" or "operation" after actuation, depending on the adjustment.	PZ	3093760	Each	573
	RC	3093761	Each	573
Lever handle set offset / flat		Article no.		€
Black plastic	PZ	3092452	Each	No surcharge
	RC	3092453	Each	
Aluminium natural finish (F1)	PZ	3092454	Each	134
	RC	3092455	Each	134
Brushed stainless steel	PZ	3092462	Each	178
	RC	3092463	Each	178
Polished stainless steel	PZ	3092464	Each	204
	RC	3092465	Each	204
Lever / knob handle sets offset / flat		Article no.		€
Black plastic	PZ	3092466	Each	75
	RC	3092467	Each	75
Aluminium natural finish (F1)	PZ	3092468	Each	157
	RC	3092469	Each	157
Brushed stainless steel	PZ	3092476	Each	208
	RC	3092477	Each	208
Polished stainless steel	PZ	3092478	Each	233
	RC	3092479	Each	233
Electric door strike with day and night setting (wiring on-site) Not possible in conjunction with radio activating kit!		Article no.		€
10–24 V, LH/RH hinged Only opens with an impulse, i.e. as long as the button is pressed.		3092513	Each	118
10–24 V, LH/RH hinged Remains open after an impulse until the door is actuated – subsequent locking by door strike (catch).		3092514	Each	158
Further accessories for wicket doors		Article no.		€
Slide rail door closer with hold-open device		3092540		No surcharge
Integrated overhead door closer with hold-open device		3090801	Each	402
Note:				
• Not available for doors with real glass infill in the wicket door area! • Cannot be retrofitted! • Not possible for depth of 67 mm!				
Latch contact for closing control (VdS class C), wiring on-site Not possible in conjunction with radio activating kit!		3093964	Each	159
Block reed contact (magnetic contact) for Open / Close query (VdS class C), wiring on-site Not possible in conjunction with radio activating kit!		3092546	Each	116
Push bar for wicket door (anti-panic lock required!) Not for track applications HU, RD, RS, RK, VU and WS! (Only PC version)	Black / green	3100108	Each	488
	Stainless steel	3100109	Each	800
Gearbox unit made of steel, lever arms and bar screwed together with high strength, sturdy bar made of stainless steel box section or stiffener coated in green.				
Additional bolt lock Fitting not possible in the bottom wicket door section, without lever handle, with profile cylinder. (Not available for multiple-point locking!)		3060511	Each	423
Security rose escutcheon (surface matching lever handle sets and lever / knob handle sets)		3091228	Each	249

Wicket doors

For sectional doors SPU F42, APU F42 / APU F42 Thermo and ALR F42 / ALR F42 Thermo

For sectional doors SPU 67 Thermo, APU 67 Thermo and ALR 67 Thermo

Optional extras for wicket doors					
Multiple-point locking for wicket doors (cannot be retrofitted!)			Article no.	€	
Attention: Mandatory for RC 2 version!					
For wicket doors consisting of 3 wicket door parts	PZ	3090800	Per door	480	
	RC	3091224	Per door	480	
For wicket doors consisting of 4 wicket door parts	PZ	3090800	Per door	609	
	RC	3091224	Per door	609	
Multiple-point locking for wicket door with anti-panic lock (not possible in RC 2 version!) (cannot be retrofitted!)			Article no.	€	
For wicket doors consisting of 3 wicket door parts	Multiple-point locking with anti-panic lock function E *	PZ	3091580	Per door	710
		RC	3091583	Per door	710
	Multiple-point locking with anti-panic lock function B *	PZ	3091581	Per door	785
		RC	3091584	Per door	785
	Multiple-point locking with anti-panic lock function D *	PZ	3091582	Per door	785
		RC	3091585	Per door	785
For wicket doors consisting of 4 wicket door parts	Multiple-point locking with anti-panic lock function E *	PZ	3091580	Per door	839
		RC	3091583	Per door	839
	Multiple-point locking with anti-panic lock function B *	PZ	3091581	Per door	912
		RC	3091584	Per door	912
	Multiple-point locking with anti-panic lock function D *	PZ	3091582	Per door	912
		RC	3091585	Per door	912

* For a description of anti-panic lock functions E, B and D, see anti-panic locks for wicket doors

Notes and sketches

Side door NT 60

Matching sectional doors

Product description

General rules

Ready-to-fit door set, with lever handle set offset / offset, black plastic, lock with profile cylinder (without cylinder for round cylinder version), two-part lift-off hinges, three-way adjustable.

Door leaf

Anodised aluminium extrusion profiles, depth 60 mm, double door seal on 3 sides, EPDM moulded sealing elements in the left and right corner area, double lip seal in the threshold area.

Side door for sectional doors ALR F42 Vitraplan:
Synthetic glazing fitted in front in a shade of grey.

Infill

Matching sectional doors SPU

Double-skinned steel sections, made of hot-galvanized sheet steel, PU-foamed, depth 42 mm.

Surface finish (steel section texture)

Stucco: Exterior S-ribbed, Stucco-textured with horizontal ribbing at a distance of 125 mm, interior Stucco-textured

Micrograin: Exterior L-ribbed Micrograin, interior Stucco-textured

Matching sectional doors APU

Bottom section: Double-skinned steel sections, made of hot-galvanized sheet steel, PU-foamed, depth 42 mm.

Bottom section height 750 mm (standard).

Further infills synthetic double pane, clear, (S2) 26 mm.

Surface finish (steel section texture)

Stucco: Exterior S-ribbed, Stucco-textured with horizontal ribbing at a distance of 125 mm, interior Stucco-textured

Micrograin: Exterior L-ribbed Micrograin, interior Stucco-textured

Matching sectional doors ALR

Bottom PU infill with aluminium sheet cover, both sides Stucco-textured, (FU) 26 mm.

Further infills synthetic double pane, clear, (S2) 26 mm.

Matching sectional doors ALR F42 Vitraplan

All infills with clear synthetic double pane, (S2) 26 mm.

Surface

Leaf frame and door frame

Anodised with natural finish E6 / C0.

Matching sectional doors SPU

Steel sections, exterior and interior polyester primer-coated with coil coating procedure, based on RAL 9002 Grey white.

Window section anodised with natural finish E6 / C0.

Matching sectional doors APU

PU infill exterior polyester primer-coated with coil coating procedure, based on RAL 9006 White aluminium, interior polyester primer-coated with coil coating procedure, based on RAL 9002 Grey white

Aluminium frame anodised with natural finish E6 / C0.

Matching sectional doors ALR

Bottom infill with aluminium finish.

Aluminium frame anodised with natural finish E6 / C0.

Matching sectional doors ALR F42 Vitraplan

Aluminium frame exterior and interior polyester primer-coated with wet coating process:

Based on RAL 9005 Jet black, adapted to the synthetic glazing in a shade of grey.

For RAL colours, see "Surface coating" from page 80.

Performance characteristics in accordance with EN 14351-1

Side door NT 60	SPU	APU	ALR / ALR F42 Vitraplan
Resistance to wind load	3 C	3 C	3 C
Thermal resistance ($U = W/(m^2 \cdot K)$)	2,8	4,2	4,7
Door size 1250 x 2200			
Further performance characteristics	npd *	npd *	npd *

* npd = no performance determined

Side door NT 60

Matching sectional doors SPU

Size range					
Ordering sizes		Article no.			
Overall frame dimensions (RAM)		Stucco-textured	Micrograin		€
From	770 × 1865	3093691	3093692	Each	1497
Up to	1300 × 2525				
Alternative infills		U _g in W/(m²·K)	Article no.		€
Window section with clear synthetic single pane (FK)		3 mm	3050868	Each	179
Window section with synthetic single pane, crystal structure (KR)		3 mm	3050869	Each	179
Window section with clear synthetic double pane (S2)		26 mm [U _g = 2.6]	3085668	Each	179
Window section with crystal structure synthetic double pane (U2)		26 mm [U _g = 2.6]	3094590	Each	179
Window section with synthetic double pane, grey tinted (A2)		26 mm [U _g = 2.6]	3091291	Each	203
Window section with synthetic double pane, white tinted (opal) (M2)		26 mm [U _g = 2.6]	3091293	Each	203
Window section with clear synthetic triple pane (S3)		26 mm [U _g = 1.9]	3085671	Each	241
Window section with synthetic triple pane, crystal structure (U3)		26 mm [U _g = 1.9]	3094591	Each	241
Window section with synthetic triple pane, grey tinted (A3)		26 mm [U _g = 1.9]	3091294	Each	269
Window section with synthetic triple pane, white tinted (opal) (M3)		26 mm [U _g = 1.9]	3091296	Each	269
Window section with clear polycarbonate single pane (P)		6 mm	3050870	Each	258
Window section with clear polycarbonate double pane (C2)		26 mm [U _g = 2.7]	3085670	Each	258
Window section with single pane made of laminated safety glass (VG)		6 mm	3064425	Each	441
Window section with double pane made of single-pane safety glass (E2)		26 mm [U _g = 2.6]	3090286	Each	674
Window section with climatic double pane made of single-pane safety glass (G2)		26 mm [U _g = 1.1]	3090520	Each	767
Window section with multiple-moulded pane (S)		16 mm [U _g = 1.9]	3050871	Each	179
Field with stainless steel expanded mesh (SE), ventilation cross section 54 % (colour coating not possible)		5 mm	3088485	Each	208
Field with stainless steel perforated steel sheet (LB), 8 mm perforation, ventilation cross section 40 % (colour coating not possible)		1.5 mm	3062883	Each	292
Prepared for on-site infill (BS) ¹⁾			3090167	Each	179
Compound glazing with plastic frame type A and clear synthetic double pane, RAM width at least 1050 mm		33 mm	3054540	Each	71
Compound glazing with diecast frame type A and clear synthetic double pane, RAM width at least 1050 mm		26 mm	3042790	Each	148
Compound glazing with diecast frame type A and clear polycarbonate double pane, RAM width at least 1050 mm		26 mm	3042792	Each	176
Compound glazing with diecast frame type A and clear real glass double pane (PA4), RAM width at least 1050 mm		26 mm	3094156	Each	469
Compound glazing with plastic frame type D and clear synthetic double pane, RAM width at least 1000 mm		16 mm	3055167	Each	98
Compound glazing with plastic frame type E and clear synthetic double pane, RAM width at least 1150 mm		33 mm	3054544	Each	95
Optional extras			Article no.		€
Fascia panel above the side door, depth 42 mm Panel height < 360 mm		Stucco	3093728	Each	253
		Micrograin	3093729		
Aluminium fascia panel above the side door E6 / C0 with PU section infill Panel height ≥ 360 mm		Stucco	3093713	Per m²	477
		Micrograin	3093714		
Extension profile for the side door frame on each side incl. fixing set • Only for fitting in the reveal! • Not possible with fascia panel!		25 mm	3095098	Per m	42
		50 mm	3093756	Per m	47

Additional panel height included in calculated overall frame dimension

Calculated dimension all-round on 3 sides

2 × overall frame dimension plus additional panel height, if any

+ Overall frame dimension, width

+ 4 × profile width

Surface coating	From page 80
Additional accessories	Page 72

1) On request

Side door NT 60

Matching sectional doors APU, ALR and ALR F42 Vitraplan

Side door for sectional doors					Article no.	€	
RAM min. 770 × 1865 mm RAM max. 1300 × 2525 mm			APU	Stucco	3093693	Each	1618
				Micrograin	3093694	Each	1618
			ALR		3093695	Each	1618
			ALR F42 Vitraplan	Grey	3093697	Each	3239
Infills					U _g in W/(m²·K)	Article no.	€
APU / ALR	ALR F42 Vitraplan	● Available ○ Not available					
●	○	Aluminium fascia panel E6 / C0 above the side door with clear synthetic double pane (S2)	26 mm		3093715	Per m²	563
○	●	Aluminium fascia panel above the side door ALR F42 Vitraplan with clear synthetic double pane, 26 mm, (S2) and 4 mm transparent synthetic glazing fitted in front, in a shade of grey ¹⁾			3093717	Per m²	1264
●	○	Clear synthetic single pane infill (FK)	3 mm		3091521		No surcharge
●	○	Synthetic single pane infill, crystal structure (KR)	3 mm		3091522		No surcharge
●	●	Clear synthetic double pane infill (S2)	26 mm	[U _g = 2.6]	3091525		No surcharge
●	●	Crystal structure synthetic double pane infill (U2)	26 mm	[U _g = 2.6]	3094582		No surcharge
●	○	Grey tinted synthetic double pane infill (A2)	26 mm	[U _g = 2.6]	3091255	Each	34
●	○	White tinted (opal) synthetic double pane infill (M2)	26 mm	[U _g = 2.6]	3091257	Each	34
●	●	Clear synthetic triple pane infill (S3)	26 mm	[U _g = 1.9]	3091527	Each	82
●	●	Synthetic triple pane infill, crystal structure (U3)	26 mm	[U _g = 1.9]	3094583	Each	82
●	○	Synthetic triple pane infill (A3), grey tinted	26 mm	[U _g = 1.9]	3091258	Each	110
●	○	Synthetic triple pane white tinted (opal) infill (M3)	26 mm	[U _g = 1.9]	3091260	Each	110
●	○	Clear polycarbonate single pane infill (P)	6 mm		3091523	Each	124
●	●	Clear polycarbonate double pane infill (C2)	26 mm	[U _g = 2.6]	3091528	Each	124
●	○	Single pane laminated safety glass infill (VG)	6 mm		3093747	Each	171
●	○	Double pane made of single-pane safety glass infill (E2)	26 mm	[U _g = 2.6]	3093748	Each	394
●	○	Climatic double pane made of single-pane safety glass infill (G2)	26 mm	[U _g = 1.1]	3093749	Each	525
●	○	Insulated infill, PU-foam with Stucco-textured aluminium sheet cover on both sides (FU)	26 mm	[U _g = 1.0]	3091532		No surcharge
●	○	Insulated infill, PU-foam with smooth, anodised aluminium sheet cover on both sides (XU)	26 mm	[U _g = 1.0]	3091531	Each	140
●	○	Multiple-moulded pane infill (S)	16 mm	[U _g = 1.9]	3091524		No surcharge
●	○	Stainless steel expanded mesh infill (SE), ventilation cross section 54 % (colour coating not possible)	5 mm		3091529	Each	51
●	○	Perforated steel sheet stainless steel infill (LB), 8 mm perforation, ventilation cross section 40 % (colour coating not possible)	1.5 mm		3091530	Each	151
●	○	Prepared for on-site infill (BS) ²⁾			3091533		No surcharge
●	○	Stucco PU section infill			3090168		No surcharge
●	○	Micrograin PU section infill			3090169		No surcharge

1) For doors opening inwards on request

2) On request

Side door NT 60

Matching sectional doors APU, ALR and ALR F42 Vitraplan

Optional extras		Article no.		€
Extension profile for the side door frame on each side incl. fixing set	25 mm	3095098	Per m	42
Only for fitting in the reveal!	50 mm	3093756	Per m	47
Additional panel height included in calculated overall frame dimension				
Calculated dimension all-round on 3 sides				
2 × overall frame dimension plus additional panel height, if any				
+ Overall frame dimension, width				
+ 4 × profile width				
Additional accessories				Page 72

Side door NT 80 Thermo

Matching sectional doors

Product description

General rules

Ready-to-fit door set, with lever handle set offset / offset, black plastic, lock with profile cylinder (without cylinder for round cylinder version), two-part lift-off hinges, three-way adjustable.

Door leaf

Anodised aluminium extrusion profiles with thermal break, depth 80 mm, double door seal on 3 sides, EPDM moulded sealing elements in the left and right corner area, double lip seal in the threshold area.

Infill

Matching sectional doors SPU

Double-skinned steel sections with thermal break, made of hot-galvanized sheet steel, PU-foamed, depth 42 mm.

Surface finish (steel section texture)

Stucco: Exterior S-ribbed, Stucco-textured with horizontal ribbing at a distance of 125 mm, interior Stucco-textured

Micrograin: Exterior L-ribbed Micrograin, interior Stucco-textured

Matching sectional doors APU

Bottom section: Double-skinned steel sections with thermal break, made of hot-galvanized sheet steel, PU-foamed, depth 42 mm.

Bottom section height 750 mm (standard).

Further infills clear synthetic triple pane, (S3) 51 mm.

Surface finish (steel section texture)

Stucco: Exterior S-ribbed, Stucco-textured with horizontal ribbing at a distance of 125 mm, interior Stucco-textured

Micrograin: Exterior L-ribbed Micrograin, interior Stucco-textured

Matching sectional doors ALR

Bottom PU infill with aluminium sheet cover, both sides Stucco-textured, (FU) 51 mm.

Further infills clear synthetic triple pane, (S3) 51 mm.

Surface

Leaf frame and door frame

Anodised with natural finish E6 / C0.

Matching sectional doors SPU

Steel sections, exterior and interior polyester primer-coated with coil coating procedure, based on RAL 9002 Grey white.

Window section anodised with natural finish E6 / C0.

Matching sectional doors APU

PU infill exterior polyester primer-coated with coil coating procedure, based on RAL 9006 White aluminium, interior polyester primer-coated with coil coating procedure, based on RAL 9002 Grey white

Aluminium frame anodised with natural finish E6 / C0.

Matching sectional doors ALR

Bottom infill with aluminium finish.

Aluminium frame anodised with natural finish E6 / C0.

For RAL colours, see "Surface coating" from page 80.

Performance characteristics in accordance with EN 14351-1

Side door NT 80 Thermo	SPU	APU	ALR
Resistance to wind load	4 C	4 C	4 C
Air permeability	3	3	3
Water tightness under heavy rain (unprotected, opening outwards)	1 A	1 A	1 A
Thermal resistance (U = W/(m²·K))	1,5	2,2	2,4
Door size 1250 × 2200			
Further performance characteristics	npd *	npd *	npd *

* npd = no performance determined

Side door NT 80 Thermo

Matching sectional doors SPU

Size range					
Ordering sizes		Article no.	Article no.		
Overall frame dimensions (RAM)		Stucco-textured	Micrograin		€
From	770 × 1865	3093708	3093709	Each	3117
Up to	1300 × 2525				
Alternative infills		U _g in W/(m ² ·K)	Article no.		€
Window section with clear synthetic triple pane (S3)		51 mm [U _g = 1.6]	3093734	Each	659
Window section with synthetic triple pane, crystal structure (U3)		51 mm [U _g = 1.6]	3094592	Each	659
Window section with synthetic triple pane, grey tinted (A3)		51 mm [U _g = 1.6]	3093736	Each	706
Window section with synthetic triple pane, white tinted (opal) (M3)		51 mm [U _g = 1.6]	3093738	Each	706
Window section with synthetic quadruple pane, clear, (S4)		51 mm [U _g = 1.3]	3093739	Each	714
Window section with synthetic quadruple pane, crystal structure (U4)		51 mm [U _g = 1.3]	3094593	Each	714
Window section with synthetic quadruple pane, grey tinted, (A4)		51 mm [U _g = 1.3]	3093741	Each	766
Window section with synthetic quadruple pane, white tinted (opal) (M4)		51 mm [U _g = 1.3]	3093743	Each	766
Window section with clear polycarbonate triple pane (C3)		51 mm [U _g = 1.6]	3099342	Each	783
Window section with clear polycarbonate quadruple pane (C4)		51 mm [U _g = 1.3]	3099343	Each	838
Window section with double pane made of single-pane safety glass (E2)		26 mm [U _g = 2.6]	3093744	Each	1353
Window section with climatic double pane made of single-pane safety glass (G2)		26 mm [U _g = 1.1]	3093745	Each	1489
Prepared for on-site infill (BS) ¹⁾			3093746	Each	659
Compound glazing with plastic frame type A and clear synthetic double pane, RAM width at least 1050 mm		33 mm	3054540	Each	71
Compound glazing with diecast frame type A and clear synthetic double pane, RAM width at least 1050 mm		26 mm	3042790	Each	148
Compound glazing with diecast frame type A and clear polycarbonate double pane, RAM width at least 1050 mm		26 mm	3042792	Each	176
Compound glazing with diecast frame type A and clear real glass double pane (PA4), RAM width at least 1050 mm		26 mm	3094156	Each	469
Compound glazing with plastic frame type D and clear synthetic double pane, RAM width at least 1000 mm		16 mm	3055167	Each	98
Compound glazing with plastic frame type E and clear synthetic double pane, RAM width at least 1150 mm		33 mm	3054544	Each	95
Optional extras			Article no.		€
Aluminium fascia panel above the side door E6 / C0 with PU section infill		Stucco	3093731	Per m ²	752
		Micrograin	3093732		
Extension profile for the side door frame on each side incl. fixing set Only for fitting in the reveal!		25 mm	3095099	Per m	75
		50 mm	3093757	Per m	83
Additional panel height included in calculated overall frame dimension Calculated dimension all-round on 3 sides 2 × overall frame dimension plus additional panel height, if any + Overall frame dimension, width + 2 × profile width					
Surface coating					From page 80
Additional accessories					Page 72

1) On request

Side door NT 80 Thermo

Matching sectional doors APU and ALR

Side door for sectional doors			Article no.		€
RAM min. 770 × 1865 mm RAM max. 1300 × 2525 mm	APU	Stucco	3093710	Each	3342
		Micrograin	3093711	Each	3342
	ALR		3093712	Each	3342

Infills		U_g in W/(m²·K)	Article no.	€		
APU/ALR						
	● Available ○ Not available					
●	Aluminium fascia panel E6 / C0 above the side door with clear synthetic triple pane (S3)	51 mm	3093733	Per m²	826	
●	Clear synthetic triple pane infill (S3)	51 mm	[$U_g = 1.6$]	3092415	No surcharge	
●	Synthetic triple pane infill, crystal structure (U3)	51 mm	[$U_g = 1.6$]	3094588	No surcharge	
●	Synthetic triple pane infill (A3), grey tinted	51 mm	[$U_g = 1.6$]	3092417	Each	34
●	Synthetic triple pane white tinted (opal) infill (M3)	51 mm	[$U_g = 1.6$]	3092419	Each	34
●	Synthetic quadruple pane infill, clear (S4)	51 mm	[$U_g = 1.3$]	3092420	Each	82
●	Synthetic quadruple pane infill, crystal structure (U4)	51 mm	[$U_g = 1.3$]	3094589	Each	82
●	Synthetic quadruple pane infill, grey tinted (A4)	51 mm	[$U_g = 1.3$]	3092422	Each	111
●	Synthetic quadruple pane infill, white tinted (opal) (M4)	51 mm	[$U_g = 1.3$]	3092424	Each	111
●	Clear polycarbonate triple pane infill (C3)	51 mm	[$U_g = 1.6$]	3099340	Each	124
●	Clear polycarbonate quadruple pane infill (C4)	51 mm	[$U_g = 1.3$]	3099341	Each	206
●	PU infill with aluminium sheet cover, both sides Stucco-textured (FU)	51 mm	[$U_g = 0.54$]	3092408	No surcharge	
●	PU infill with aluminium sheet cover, smooth anodised on both sides (XU)	51 mm	[$U_g = 0.54$]	3092409	Each	140
●	Prepared for on-site infill (BS) ¹⁾ (Anodised glazing bead required)			3092426	No surcharge	
●	Double pane made of single-pane safety glass infill (E2)	26 mm	[$U_g = 2.6$]	3093750	Each	394
●	Climatic double pane made of single-pane safety glass infill (G2)	26 mm	[$U_g = 1.1$]	3093751	Each	525
●	Stucco PU section infill			3093754	No surcharge	
●	Micrograin PU section infill			3093755	No surcharge	

Optional extras		Article no.		€
Extension profile for the side door frame on each side incl. fixing set		25 mm	3095099	Per m 75
Only for fitting in the reveal!		50 mm	3093757	Per m 83
Additional panel height included in calculated overall frame dimension				
Calculated dimension all-round on 3 sides				
2 × overall frame dimension plus additional panel height, if any				
+ Overall frame dimension, width				
+ 2 × profile width				

Additional accessories	Page 72
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1) On request

Notes and sketches

Accessories

For side doors NT 60 and NT 80 Thermo

Fittings		Article no.		€	
Lever handle sets offset / offset	Black plastic	PZ	3092480	No surcharge	
		RC	3092481		
	Aluminium natural finish (F1)	PZ	3092482	Each	134
		RC	3092483		
	Brushed stainless steel	PZ	3092490	Each	178
		RC	3092491		
	Polished stainless steel	PZ	3092492	Each	204
		RC	3092493		
Lever / knob handle sets offset / offset	Black plastic	PZ	3092494	Each	75
		RC	3092495		
	Aluminium natural finish (F1)	PZ	3092496	Each	157
		RC	3092497		
	Brushed stainless steel	PZ	3092504	Each	208
		RC	3092505		
	Polished stainless steel	PZ	3092506	Each	233
		RC	3092507		
Overhead door closers			Article no.	€	
Overhead door closer with slide rail and hold-open device			3092542	Each	311
Electric door strike with day and night setting (wiring on-site)			Article no.	€	
10 – 24 V, LH / RH hinged Only opens with an impulse, i.e. as long as the button is pressed.			3092513	Each	118
10 – 24 V, LH / RH hinged Remains open after an impulse until the door is actuated – subsequent re-locking (catch).			3092514	Each	158
Multiple-point locking (RAM height min. 1920 mm)			Article no.	€	
Multiple-point locking with latch, bolt, 2 locking hooks, 2 lock bolts and security rose escutcheon (cannot be retrofitted / not available with anti-panic lock).	PZ	3093762	Each	475	
	RC	3093763	Each	475	
Multiple-point locking with anti-panic function E Function E: The door can only be opened using a key from the outside.	PZ	3094311	Each	815	
	RC	3094312	Each	815	
Multiple-point locking with anti-panic function B Function B: With the change-over function; the lever handle is switched to “idle” or “operation” after actuation, depending on the adjustment.	PZ	3094307	Each	922	
	RC	3094308	Each	922	
Multiple-point locking with anti-panic function D Function D: After being operated from the inside, the door can always be operated from the outside without using a key.	PZ	3094309	Each	922	
	RC	3094310	Each	922	
Anti-panic locks (Escape door function for inward opening doors not approved according to EN 179!)			Article no.	€	
Anti-panic lock for fixed knob on outside Function E: The door can only be opened using a key from the outside.	PZ	3092521	Each	234	
	RC	3092522	Each	234	
Anti-panic lock for profile cylinder with panic spindle, for lever handle outside Function B: With the change-over function; the lever handle is switched to “idle” or “operation” after actuation, depending on the adjustment.	PZ	3091225	Each	310	
	RC	3095106	Each	310	
Anti-panic lock for profile cylinder with panic spindle, for lever handle outside Function D: After being operated from the inside, the door can always be operated from the outside without using a key.	PZ	3091226	Each	310	
	RC	3095107	Each	310	
Anti-panic lock for fixed knob on outside, self-locking Function E: The door can only be opened using a key from the outside.	PZ	3093758	Each	490	
	RC	3093759	Each	490	
Anti-panic lock for lever handle on outside, self-locking Function B: With the change-over function; the lever handle is switched to “idle” or “operation” after actuation, depending on the adjustment.	PZ	3093760	Each	573	
	RC	3093761	Each	573	

Accessories

For side doors NT 60 and NT 80 Thermo

Self-locking anti-panic locks SVP 5000, SVP 4000, SVP 2000 DCW, SVP 6000		Article no.	€
For anti-panic locks SVP 5000, 4000 and 2000, all the lever / knob handle sets listed on page 72 are suitable.			
Self-locking anti-panic lock SVP 5000 no. 5729		3097119	Each 785
Self-locking anti-panic lock SVP 4000 no. 4729 with connection cable SVP-A 1100		3097120	Each 1354
Anti-panic lock SVP 2000 DCW no. 2729, self-locking automatic door opener with connection cable SVP-A 1100 (Lock control must be provided on site)		3097123	Each 2751
Anti-panic lock SVP 6000, self-locking with split lever spindle and detachable outside lever handle, with connection cable SVP-A 1100	No. 6720, right outwards, left inwards	3097122	Each 2098
	No. 6729, left outwards, right inwards	3097121	Each 2098
Self-locking anti-panic locks 309X, 409X, 509X, 709X		Article no.	€
For anti-panic locks 309X, 409X and 509X, all the lever / knob handle sets listed on page 72 are suitable.			
Self-locking anti-panic lock 309X 302		3073922	Each 876
Self-locking anti-panic lock 409X 302 with connection cable Z09		3073923	Each 1408
Anti-panic lock 509X 302, self-locking automatic door opener with connection cable Z09 (Lock control must be provided on site)		3073924	Each 2835
Self-locking anti-panic lock 709X 302 with handle-control and connection cable Z09 (Current variant and panic side adjustable)		3073925	Each 2194
Additional fixing sets for side door		Article no.	€
Fixing set for fitting to steel (not with extension profile)		3090341	Each 28
Fixing set for fitting to brickwork (not with extension profile)		3050992	Each 28
8 support brackets, including bolts, washers and plugs (not with extension profile) Not applicable for NT 80 Thermo!		3092545	Each 28
Additional accessories for side doors		Article no.	€
Latch contact for closing control (VdS class C), wiring on-site		3093964	Each 159
Block reed contact (magnetic contact) for Open / Close query (VdS class C), wiring on-site		3092546	Each 116
Push bar for escape door, interior (anti-panic lock required) (Only PC version)	Black / green	3100106	Each 423
	Stainless steel	3100107	Each 720
Gearbox unit made of steel, lever arms and bar screwed together with high strength, sturdy bar made of stainless steel box section or stiffener coated in green.			
Stainless steel push bar 38-2, brushed, 1000 mm, exterior (Additional lever handle set in brushed stainless steel required)		3091389	Per door 570
Surcharge for 3rd door hinge up to a door height of 2210 mm (standard for door heights above 2210 mm)		3091387	Per door 215
Side door without hole pattern		Article no.	€
Side door without lock and lever handle set		3060562	No surcharge
Side door without hole pattern for lever handle outside with double cylinder (the door can only be opened using a key from the outside)		3060563	Per door 133
Side door without hole pattern for lock and lever handle outside with half cylinder (The door can only be operated from the inside)		3060564	Per door 125
Surface coating		From page 80	
Accessories		From page 82	

Side door NT 60 RC 2

Matching sectional doors

Product description

General rules

Break-in-resistant door set of resistance class RC 2, with lever handle set offset / offset, black plastic, multiple-point locking with latch, bolt, 2 locking hooks, 2 lock bolts and integrated protective fitting, security bolt on hinge side, profile cylinder acc. to DIN 1303 (point 7 = class 5, point 8 = class D), (round cylinder version prepared for DORMAKABA star M 1515 cylinder), anti-panic function not possible, two-part hinges, three-way adjustable.

Door leaf

Anodised aluminium extrusion profiles, depth 60 mm, double door seal on 3 sides, EPDM moulded sealing elements in the left and right corner area, double lip seal in the threshold area.

Infill

Matching sectional doors SPU

Double-skinned steel sections, made of hot-galvanized sheet steel, PU-foamed, depth 42 mm.

Surface finish (steel section texture)

Stucco: Exterior S-ribbed, Stucco-textured with horizontal ribbing at a distance of 125 mm, interior Stucco-textured

Micrograin: Exterior L-ribbed Micrograin, interior Stucco-textured

Matching sectional doors APU

Bottom section: Double-skinned steel sections, made of hot-galvanized sheet steel, PU-foamed, depth 42 mm.

Bottom section height 750 mm (standard).

Further infills clear real glass double pane P4A, (W2) 26 mm.

Surface finish (steel section texture)

Stucco: Exterior S-ribbed, Stucco-textured with horizontal ribbing at a distance of 125 mm, interior Stucco-textured

Micrograin: Exterior L-ribbed Micrograin, interior Stucco-textured

Matching sectional doors ALR

Bottom PU infill with aluminium sheet cover, smooth anodised on both sides, (TU) 26 mm.

Further infills clear real glass double pane P4A, (W2) 26 mm.

Surface

Leaf frame and door frame

Anodised with natural finish E6 / C0.

Matching sectional doors SPU

Steel sections, exterior and interior polyester primer-coated with coil coating procedure, based on RAL 9002 Grey white.

Window section anodised with natural finish E6 / C0.

Matching sectional doors APU

PU infill exterior polyester primer-coated with coil coating procedure, based on RAL 9006 White aluminium, interior polyester primer-coated with coil coating procedure, based on RAL 9002 Grey white

Aluminium frame anodised with natural finish E6 / C0.

Matching sectional doors ALR

Bottom infill with aluminium finish.

Aluminium frame anodised with natural finish E6 / C0.

For RAL colours, see "Surface coating" from page 80.

Performance characteristics in accordance with EN 14351-1

Side door NT 60	SPU	APU	ALR
Resistance to wind load	3 C	3 C	3 C
Thermal resistance ($U = W/(m^2 \cdot K)$) Door size 1250 x 2200	2,8	3,7	4,3
Break-in resistance equipment (DIN EN 1627)	RC 2	RC 2	RC 2
Further performance characteristics	npd *	npd *	npd *

* npd = no performance determined

Side door NT 60 RC 2

Matching sectional doors SPU

Size range					
Ordering sizes		Article no.	Article no.		
Overall frame dimensions (RAM)		Stucco-textured	Micrograin		€
From	770 × 1920	3095044	3095045	Each	2598
Up to	1300 × 2525				
Alternative infills		U _g in W/(m²·K)	Article no.		
Window section with real glass double panes, P4A (W2)	26 mm	[U _g = 1.3]	3095049	Each	648
Compound glazing with diecast frame type A and clear real glass double pane (PA4), RAM width at least 1050 mm	26 mm		3094156	Each	469
Optional extras			Article no.		€
Aluminium fascia panel above the side door E6 / C0 with PU section infill Panel height ≥ 360 mm	Stucco	3095050	Per m²		646
	Micrograin	3095051			

Side door NT 60 RC 2

Matching sectional doors APU and ALR

Side door for sectional doors				Article no.	€
RAM min. 770 × 1920 mm RAM max. 1300 × 2525 mm	APU	Stucco	3095046	Each	3951
		Micrograin	3095047	Each	3951
	ALR		3095048	Each	3951
Infills		U _g in W/(m²·K)	Article no.		€
APU / ALR	Available Not available				
	●	Insulated infill, PU-foam with smooth, anodised aluminium sheet cover on both sides (TU)	26 mm [U _g = 1.2]	3095054	No surcharge
	●	Stucco PU section infill		3095055	No surcharge
	●	Micrograin PU section infill		3095056	No surcharge
	●	Real glass double panes P4A infill (W2)	26 mm [U _g = 1.3]	3095053	No surcharge
	●	Aluminium fascia panel E6 / C0 above the side door, with real glass double panes P4A (W2)	26 mm	3095052	Per m² 1361

1) For doors opening inwards on request

Surface coating	From page 80
Additional accessories	Page 78

Side door NT 80 Thermo RC 2

Matching sectional doors

Product description

General rules

Break-in-resistant door set of resistance class RC 2, with lever handle set offset / offset, black plastic, multiple-point locking with latch, bolt, 2 locking hooks, 2 lock bolts and integrated protective fitting, security bolt on hinge side, profile cylinder acc. to DIN 1303 (point 7 = class 5, point 8 = class D), (round cylinder version prepared for DORMAKABA star M 1515 cylinder), anti-panic function not possible, two-part hinges, three-way adjustable.

Door leaf

Anodised aluminium extrusion profiles with thermal break, depth 80 mm, double door seal on 3 sides, EPDM moulded sealing elements in the left and right corner area, double lip seal in the threshold area.

Infill

Matching sectional doors SPU

Double-skinned steel sections with thermal break, made of hot-galvanized sheet steel, PU-foamed, depth 42 mm.

Surface finish (steel section texture)

Stucco: Exterior S-ribbed, Stucco-textured with horizontal ribbing at a distance of 125 mm, interior Stucco-textured

Micrograin: Exterior L-ribbed Micrograin, interior Stucco-textured

Matching sectional doors APU

Bottom section: Double-skinned steel sections with thermal break, made of hot-galvanized sheet steel, PU-foamed, depth 42 mm.

Bottom section height 750 mm (standard).

Further infills clear real glass double pane P4A, (W2) 26 mm.

Surface finish (steel section texture)

Stucco: Exterior S-ribbed, Stucco-textured with horizontal ribbing at a distance of 125 mm, interior Stucco-textured

Micrograin: Exterior L-ribbed Micrograin, interior Stucco-textured

Matching sectional doors ALR

Bottom PU infill with aluminium sheet cover, smooth anodised on both sides, (TU) 26 mm.

Further infills clear real glass double pane P4A, (W2) 26 mm.

Surface

Leaf frame and door frame

Anodised with natural finish E6 / C0.

Matching sectional doors SPU

Steel sections, exterior and interior polyester primer-coated with coil coating procedure, based on RAL 9002 Grey white.

Window section anodised with natural finish E6 / C0.

Matching sectional doors APU

PU infill exterior polyester primer-coated with coil coating procedure, based on RAL 9006 White aluminium, interior polyester primer-coated with coil coating procedure, based on RAL 9002 Grey white

Aluminium frame anodised with natural finish E6 / C0.

Matching sectional doors ALR

Bottom infill with aluminium finish.

Aluminium frame anodised with natural finish E6 / C0.

For RAL colours, see "Surface coating" from page 80.

Performance characteristics in accordance with EN 14351-1

Side door NT 80 Thermo	SPU	APU	ALR
Resistance to wind load	4 C	4 C	4 C
Air permeability	3	3	3
Water tightness under heavy rain (unprotected, opening outwards)	1 A	1 A	1 A
Thermal resistance ($U = W/(m^2 \cdot K)$)	1,5	1,9	2,2
Door size 1250 × 2200			
Break-in resistance equipment (DIN EN 1627)	RC 2	RC 2	RC 2
Further performance characteristics	npd *	npd *	npd *

* npd = no performance determined

Side door NT 80 Thermo RC 2

Matching sectional doors SPU

Size range					
Ordering sizes		Article no.	Article no.		
Overall frame dimensions (RAM)		Stucco-textured	Micrograin		€
From	770 × 1920	3095057	3095058	Each	4223
Up to	1300 × 2525				
Alternative infills		U _g in W/(m²·K)	Article no.		€
Window section with real glass double panes, P4A (W2)	26 mm	[U _g = 1.3]	3095062	Each	1207
Compound glazing with diecast frame type A and clear real glass double pane (PA4), RAM width at least 1050 mm	26 mm		3094156	Each	469
Optional extras			Article no.		€
Aluminium fascia panel above the side door E6 / C0 with PU section infill		Stucco	3095063	Per m²	945
		Micrograin	3095064		

Side door NT 80 Thermo RC 2

Matching sectional doors APU and ALR

Side door for sectional doors		Article no.		Article no.	
RAM min. 770 × 1920 mm RAM max. 1300 × 2525 mm	APU	Stucco	3095059	Each	5385
		Micrograin	3095060	Each	5385
	ALR		3095061	Each	5385
Infills		U _g in W/(m ² ·K)		Article no.	€
PU infill with aluminium sheet cover, smooth anodised on both sides (TU)		26 mm	[U _g = 1.2]	3095066	No surcharge
Stucco PU section infill				3095068	No surcharge
Micrograin PU section infill				3095069	No surcharge
Real glass double panes P4A infill (W2)		26 mm	[U _g = 1.3]	3095067	No surcharge
Aluminium fascia panel E6 / C0 above the side door, with real glass double panes P4A (W2)		26 mm		3095065	Per m ² 1544

Surface coating	From page 80
Additional accessories	Page 78

Accessories

For side doors NT 60 RC 2 and NT 80 Thermo RC 2

Fittings			Article no.	€	
Lever handle sets offset / offset	Black plastic	PZ	3092480	No surcharge	
		RC	3092481		
	Brushed stainless steel	PZ	3092490	Each	178
		RC	3092491		
	Polished stainless steel	PZ	3092492	Each	204
		RC	3092493		
Lever / knob handle sets offset / offset	Black plastic	PZ	3092494	Each	75
		RC	3092495		
	Brushed stainless steel	PZ	3092504	Each	208
		RC	3092505		
	Polished stainless steel	PZ	3092506	Each	233
		RC	3092507		
Overhead door closers			Article no.	€	
Overhead door closer with slide rail and hold-open device			3092542	Each	311
Electric door strike with day and night setting (wiring on-site)			Article no.	€	
10 – 24 V, LH / RH hinged Only opens with an impulse, i.e. as long as the button is pressed.			3092513	Each	118
10 – 24 V, LH / RH hinged Remains open after an impulse until the door is actuated – subsequent re-locking (catch).			3092514	Each	158
Additional fixing sets for side door			Article no.	€	
Fixing set for fitting to steel Note: Only for fitting in the reveal!			3090341	Each	28
Fixing set for fitting to brickwork			3050992	Each	28
8 support brackets RC 2, including bolts, washers and plugs Not for use on NT 80 Thermo RC 2!			3095122	Each	34
Additional accessories for side doors			Article no.	€	
Latch contact for closing control (VdS class C), wiring on-site			3093964	Each	159
Block reed contact (magnetic contact) for Open / Close query (VdS class C), wiring on-site			3092546	Each	116
Stainless steel push bar 38-2, brushed, 1000 mm, exterior (Additional lever handle set in brushed stainless steel required)			3091389	Per door	570
Surcharge for 3rd door hinge up to a door height of 2210 mm (standard for door heights above 2210 mm)			3091387	Per door	215
Side door without hole pattern			Article no.	€	
Side door without hole pattern for lever handle outside with double cylinder (the door can only be opened using a key from the outside)			3060563	Per door	133
Surface coating			From page 80		
Accessories			From page 82		

Notes and sketches

Surface coating

For sectional doors, side doors, panels and fixed elements

Surface coating – observe exceptions, see notes!

Exterior coil coating / interior Grey white based on RAL 9002			
- Door sections SPU F42 - Door sections SPU 67 Thermo - Bottom section for APU F42 / APU F42 Thermo - Bottom section for APU 67 Thermo - Side door infill NT 60, matching SPU F42 - Side door infill NT 80, matching SPU 67 Thermo - Bottom side door infill NT 60, matching APU F42 / APU F42 Thermo - Bottom side door infill NT 80, matching APU 67 Thermo - PU panels and fixed elements	Preferred colours in accordance with the RAL colour chart ¹⁾⁴⁾	No surcharge	
	RAL to choose in accordance with the RAL colour chart		–
	Metallic colours ²⁾⁴⁾		–
	British Standard ³⁾		–
	Colours according to the NCS colour chart (on request)		–
Exterior wet coating / interior Grey white based on RAL 9002			
- Door sections SPU F42 - Door sections SPU 67 Thermo⁵⁾ - Bottom section for APU F42 / APU F42 Thermo - Bottom section APU 67 Thermo⁵⁾ - Side door infills⁶⁾ - Panels and fixed elements	Preferred colours in accordance with the RAL colour chart ¹⁾⁴⁾	Per m ²	50
	RAL to choose in accordance with the RAL colour chart	Per m ²	50
	Metallic colours ²⁾⁴⁾	Per m ²	87
	British Standard ³⁾	Per m ²	50
	Colours according to the NCS colour chart (on request)	Per m ²	50
Wet coating on exterior and interior			
- Door sections SPU F42 - Door sections SPU 67 Thermo⁵⁾ - Bottom section for APU F42 / APU F42 Thermo - Bottom section APU 67 Thermo⁵⁾ - Bottom infill ALR F42 / ALR F42 Thermo - Bottom infill ALR 67 Thermo⁵⁾ - Glazing frames (except for glazing beads)⁵⁾ - Side door infills⁶⁾ - Panels and fixed elements	Preferred colours in accordance with the RAL colour chart ¹⁾⁴⁾	Per m ²	71
	RAL to choose in accordance with the RAL colour chart	Per m ²	71
	Metallic colours ²⁾⁴⁾	Per m ²	118
	British Standard ³⁾	Per m ²	71
	Colours according to the NCS colour chart (on request)	Per m ²	71
Leaf frame and frame of the side door NT 60 and NT 80 Thermo	Preferred colours in accordance with the RAL colour chart ¹⁾⁴⁾	Each	272
	RAL to choose in accordance with the RAL colour chart	Each	272
	Metallic colours ²⁾⁴⁾	Each	272
	British Standard ³⁾	Each	272
	Colours according to the NCS colour chart (on request)	Each	272
Extension profile for the side door (only possible in frame colour)		Per m	24
Wicket door frame profile (Polyester-primer coating only on exterior of the door)	Preferred colours in accordance with the RAL colour chart ¹⁾⁴⁾	Per door	248
	RAL to choose in accordance with the RAL colour chart	Per door	317
	Metallic colours ²⁾⁴⁾	Per door	317
	British Standard ³⁾	Per door	317
	Colours according to the NCS colour chart (on request)	Per door	317
Glazing beads (fitting only with triangular seal) Only in conjunction with anodised glazing beads (E6 / C0)!	Preferred colours in accordance with the RAL colour chart ¹⁾⁴⁾	Per field	68
	RAL to choose in accordance with the RAL colour chart	Per field	68
	Metallic colours ²⁾⁴⁾	Per field	68
	British Standard ³⁾	Per field	68
	Colours according to the NCS colour chart (on request)	Per field	68
Glazing beads for side door or panel above the side door Only in conjunction with anodised glazing beads (E6 / C0)!	Preferred colours in accordance with the RAL colour chart ¹⁾⁴⁾	Per door / panel	183
	RAL to choose in accordance with the RAL colour chart	Per door / panel	183
	Metallic colours ²⁾⁴⁾	Per door / panel	183
	British Standard ³⁾	Per door / panel	183
	Colours according to the NCS colour chart (on request)	Per door / panel	183
Frame covering 90 mm (Polyester-primer coating only on exterior)	Preferred colours in accordance with the RAL colour chart ¹⁾⁴⁾	Per m	22
	RAL to choose in accordance with the RAL colour chart	Per m	28
	Metallic colours ²⁾⁴⁾	Per m	28
	British Standard ³⁾	Per m	28
	Colours according to the NCS colour chart (on request)	Per m	28
Windows type A diecast frame and type D plastic frame (Polyester-primer coating only on exterior, interior black)	Preferred colours in accordance with the RAL colour chart ¹⁾⁴⁾	Per unit	31
	RAL to choose in accordance with the RAL colour chart	Per unit	31
	Metallic colours ²⁾⁴⁾	Per unit	51
	British Standard ³⁾	Per unit	31
	Colours according to the NCS colour chart (on request)	Per unit	31
Anodised glazing beads			
Version with anodised glazing beads (except for ALR F42 Glazing and ALR 67 Thermo Glazing)		Per field	49
Side door / panel above the side door with anodised glazing beads (E6 / C0)		Per door / panel	134

Surface coating

For sectional doors, side doors, panels and fixed elements

Preferred colours (internal plant colour code in brackets)			
1) Preferred colours in accordance with the RAL colour chart based on:	RAL 3000 – Flame red RAL 5010 – Gentian blue RAL 6005 – Moss green * RAL 7016 – Anthracite grey*	RAL 8028 – Terra brown * RAL 9002 – Grey white RAL 9005 – Jet black * RAL 9006 – White aluminium	RAL 9007 – Grey aluminium RAL 9010 – Pure white RAL 9016 – Traffic white
2) Metallic colours:	DB 701 Light grey (7168) DB 702 Grey (7111)	DB 703 Dark grey (7128) CH 703 Anthracite metallic (7268) *	Further metallic colours on request.
3) British Standard	BS 04-E-53 – Poppy Red (3142) BS 10-A-05 – Goosewing Grey (7152) BS 18-B-25 – Merlin Grey (5176) BS 18-C-37 – Wedgewood Blue (5191)	BS 18-C-39 – Ocean Blue (5175) BS 18-E-53 – Cornflower Blue (5181) BS 12-B-27 – Olive Green (6208)	RAL 5003 – Sapphire Blue (5003) RAL 5008 – Grey Blue (5008) RAL 6009 – Fir Green (6009) * Further colours on request.

* Note the information!

Notes on surface coatings

4) Important:

For the preferred colours White aluminium based on RAL 9006 and Grey aluminium based on RAL 9007 ("wet coating") and the metallic colours, a colour sample relating to the order must be confirmed by the customer in order to avoid complaints with these sensitive metallic colours. Please order a colour sample from Hörmann KG Brockhagen

- 5) It is only possible to have a wet coating of the door sections, frames and panels on the SPU 67 Thermo, APU 67 Thermo and ALR 67 Thermo for door widths of up to 8000 mm.
- 6) Side door infills are manufactured matching the door.

Attention:

- PU sections with coil coating in combination with wet coated glazing frames in the same preferred colour may show different colours. In case this is not accepted, the door must be wet-coated completely.
- For SPU and APU doors with wicket door with threshold rail and door widths above 5500 mm, colour deviations may occur due to the different surface structures of the sections and the aluminium bottom profiles.
- For the following colours the sectional doors SPU F42, APU F42 Thermo and ALR F42 Thermo with door widths from 4510 to 5000 mm as well as SPU 67 Thermo, APU 67 Thermo and ALR 67 Thermo with door widths from 5010 to 5500 mm in combination with the track applications NH, GD, GS, GK, H, HD, HS, HK, HA, HU, RD, RS, RK, V, VA, VS, VU and WS are equipped with door leaf reinforcements to reduce the possibility of section deflection caused by sun exposure and require technical inspection.

RAL 3007 Black red	RAL 6004 Blue green	RAL 6022 Olive drab	RAL 8019 Grey brown
RAL 5003 Sapphire blue	RAL 6005 Moss green	RAL 7016 Anthracite grey	RAL 8022 Black brown
RAL 5004 Black blue	RAL 6007 Bottle green	RAL 7021 Black grey	RAL 8028 Terra brown
RAL 5011 Steel blue	RAL 6008 Brown green	RAL 7043 Traffic grey	RAL 9004 Signal black
RAL 5013 Cobalt blue	RAL 6009 Fir green	RAL 8014 Sepia brown	RAL 9005 Jet black
RAL 5020 Ocean blue	RAL 6012 Black green	RAL 8016 Mahogany brown	RAL 9011 Graphite black
RAL 5022 Night blue	RAL 6015 Black olive	RAL 8017 Chocolate brown	RAL 9017 Traffic black

Colour CH 703 Anthracite metallic

Additional notices

In general, the following are not coated:

- The complete frame of the door
- Perforated stainless steel sheet and stainless steel expanded mesh infills

Generally Grey white, based on RAL 9002:

- Door leaf reinforcements (except ALR F42 Vitraplan)
- Steel end caps of the door sections (except ALR F42 Vitraplan)

RAL colours:

- Not available: RAL 4006, RAL 4007 and RAL 9021 as well as fluorescent colours.
- Pearl-effect colours are available on request.

Note on dark colours:

Dark colours should not be used for double-skinned steel doors and for doors with thermal break that are exposed to the sun, as possible section deflection may restrict the door's function.

Accessories

For all door types

Surcharges

Depth 42 mm						Depth 67 mm									
SPU F42	APU F42	APU F42 Thermo	ALR F42	ALR F42 Thermo	ALR F42 Glazing	ALR F42 Vitraplan	SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing					
Available Not available															
Door lock											Article no.	€			
											Door lock (complete) for operating inside and outside, prepared for profile or round cylinder	Rotary latch, prepared for PC ¹⁾³⁾	3055456	Each	118
												Shootbolt, prepared for PC ¹⁾	3055457		
												Rotary latch, prepared for RC ¹⁾³⁾	3055458		
												Shootbolt, prepared for RC ¹⁾	3055459		
											Recessed door lock (complete) for operating inside and outside, prepared for profile or round cylinder. For all track applications.	Rotary latch, prepared for PC ¹⁾³⁾	3072458	Each	161
												Shootbolt, prepared for PC ¹⁾	3072459		
												Rotary latch, prepared for RC ¹⁾³⁾	3072460		
												Shootbolt, prepared for RC ¹⁾	3072461		
											Surcharge for door lock heights deviating from the standard (on request)	3076878	Per door	75	
											Shootbolt in addition to the door lock or with power-driven doors. ²⁾	3098312	Each	55	
											Door lock for interior operation	Rotary latch ¹⁾³⁾	3055297		No surcharge
												Shootbolt ²⁾	3055298		No surcharge
												Floor locking ¹⁾³⁾	3055299		No surcharge
1) Not possible with version RC 2!															
2) An on-site padlock is required for the RC 2 version!															
3) Not possible for track application L / track application LD with swivel mechanism!															
Exterior handles (not possible in RC 2 version!)											Article no.	€			
											Exterior handles (recommended with secured release ASE for operating from outside)	3055424	Per set	71	

Surcharges

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Accessories

For all door types

Surcharges

Depth 42 mm				Depth 67 mm															
SPU F42	APU F42	APU F42 Thermo	ALR F42	ALR F42 Thermo	ALR F42 Glazing	ALR F42 Vitraplan	SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing	● Available ○ Not available								
Fixed elements (depth 42 mm) (Not possible with version in RC 2!)											Article no.				€				
• Alternative infills for fixed elements, see door types • Glazing frame for SPU element, see door type																			
●	○	○	○	○	○	○	○	○	○	○	Double-skinned steel sections, PU-foamed, Stucco-textured on both sides, 375 mm, 500 mm, 625 mm or 750 mm high, Grey white exterior and interior, based on RAL 9002	Width ≤ 500 mm	3092737	Per m²	297				
											Width > 500 mm	3092738	Per m²	190					
●	○	○	○	○	○	○	○	○	○	○	Double-skinned steel sections, PU-foamed, exterior Micrograin, interior Stucco-textured, 375 mm, 500 mm, 675 mm or 750 mm high, Grey white exterior and interior, based on RAL 9002	Width ≤ 500 mm	3092739	Per m²	297				
											Width > 500 mm	3092740	Per m²	190					
○	○	○	●	○	○	○	○	○	○	○	Aluminium frame construction in standard version (standard profile), E6 / C0, with clear synthetic double panes, 26 mm (S2) – Rail width 52 mm		3091122	Per m²	334				
○	○	○	○	○	●	○	○	○	○	○	Aluminium frame construction in standard version (standard profile), E6 / C0 with single pane made of laminated safety glass, 6 mm (VG) Matching type ALR F42 Glazing – Rail width 52 mm		3091125	Per m²	471				
○	○	○	○	○	○	●	○	○	○	○	Aluminium frame construction in standard version (standard profile), with clear synthetic double pane, 26 mm and transparent 4 mm synthetic glazing fitted in front, in a shade of grey		3091123	Per m²	600				
○	○	○	○	●	○	○	○	○	○	○	Aluminium frame construction in version with thermal break (Thermo), E6 / C0, with clear synthetic double panes, 26 mm (S2) – Rail width 52 mm		3091126	Per m²	444				
Note: • When ordering fixed elements, please specify in all cases if the fitting is carried out in front of the reveal, behind the reveal or in the reveal! • Fitting accessories (box sections, brackets and bolts) are not part of the fixed element and must be ordered separately (see page 89)! • Fixing possibilities for fixed elements must be checked and determined on-site.																			
Fixed elements (depth 67 mm) (Not possible with version in RC 2!)											Article no.				€				
• Alternative infills for fixed elements, see door types • Glazing frame for SPU element, see door type																			
○	○	○	○	○	○	○	●	○	○	○	Double-skinned steel sections, with thermal break, PU-foamed, Stucco-textured on both sides, 375 mm, 500 mm, 625 mm or 750 mm high, Grey white exterior and interior, based on RAL 9002	Width ≤ 500 mm	3092741	Per m²	371				
											Width > 500 mm	3092437	Per m²	236					
○	○	○	○	○	○	○	●	○	○	○	Double-skinned steel sections, with thermal break, PU-foamed, exterior Micrograin, interior Stucco-textured, 375 mm, 500 mm, 675 mm or 750 mm high, Grey white exterior and interior, based on RAL 9002	Width ≤ 500 mm	3092742	Per m²	371				
											Width > 500 mm	3092438	Per m²	236					
○	○	○	○	○	○	○	○	○	●	○	Aluminium frame construction in version with thermal break (Thermo), E6 / C0, with clear synthetic triple panes, 51 mm (S3) – Rail width 52 mm		3092441	Per m²	626				
○	○	○	○	○	○	○	○	○	○	●	Aluminium frame construction in version with thermal break (Thermo), E6 / C0, with double panes made of single-pane safety glass, 26 mm (E2), matching type ALR 67 Thermo Glazing – Rail width 52 mm		3092668	Per m²	1015				
Note: • When ordering fixed elements, please specify in all cases if the fitting is carried out in front of the reveal, behind the reveal or in the reveal! • Fitting accessories (box sections, brackets and bolts) are not part of the fixed element and must be ordered separately (see page 89)! • Fixing possibilities for fixed elements must be checked and determined on-site.																			

Accessories

For all door types

Surcharges

Depth 42 mm										Depth 67 mm		
SPU F42	APU F42	APU F42 Thermo	ALR F42	ALR F42 Thermo	ALR F42 Glazing	ALR F42 Vitraplan	SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing		
● Available ○ Not available												
Fixed elements – combination of PU-foamed double-skinned steel sections (Stucco-textured) and glazing frames (Not possible with version in RC 2!) (alternative infills for fixed elements, see door types)											Article no.	
Note on pricing: - Prices for steel section, see SPU fixed element - Prices for glazing frames, see the appropriate aluminium frame construction												
○	●	○	○	○	○	○	○	○	○	○	Bottom section made of double-skinned steel sections, PU-foamed (depth 42 mm), Stucco-textured on both sides, Aluminium frame construction in standard version (standard profile), E6 / C0, with clear synthetic double panes, 26 mm (S2) – Rail width 52 mm	3091117
○	○	●	○	○	○	○	○	○	○	○	Bottom section made of double-skinned steel sections, PU-foamed (depth 42 mm), Stucco-textured on both sides, Aluminium frame construction in version with thermal break (Thermo), E6 / C0, with clear synthetic double panes, 26 mm (S2) – Rail width 52 mm	3091119
○	○	○	○	○	○	○	○	●	○	○	Bottom section made of double-skinned steel sections, with thermal break, PU-foamed (depth 67 mm), Stucco-textured on both sides, Aluminium frame construction in version with thermal break (Thermo), E6 / C0, with clear synthetic triple panes, 51 mm (S3) – Rail width 52 mm	3092439
Note: - When ordering fixed elements, please specify in all cases if the fitting is carried out in front of the reveal, behind the reveal or in the reveal! - Fitting accessories (box sections, brackets and bolts) are not part of the fixed element and must be ordered separately (see page 89)! - Fixing possibilities for fixed elements must be checked and determined on-site.												
Fixed elements – Combination of PU-foamed double-skinned steel sections (Micrograin) and glazing frames (Not possible with version in RC 2!) (alternative infills for fixed elements, see door types)											Article no.	
Note on pricing: - Prices for steel section, see SPU fixed element - Prices for glazing frames, see the appropriate aluminium frame construction												
○	●	○	○	○	○	○	○	○	○	○	Bottom section made of double-skinned steel sections, PU-foamed (depth 42 mm), exterior Micrograin, interior Stucco, Aluminium frame construction in standard version (standard profile), E6 / C0, with clear synthetic double panes, 26 mm (S2) – Rail width 52 mm	3091118
○	○	●	○	○	○	○	○	○	○	○	Bottom section made of double-skinned steel sections, PU-foamed (depth 42 mm), exterior Micrograin, interior Stucco, Aluminium frame construction in version with thermal break (Thermo), E6 / C0, with clear synthetic double panes, 26 mm (S2) – Rail width 52 mm	3091120
○	○	○	○	○	○	○	○	○	●	○	Bottom section made of double-skinned steel sections with thermal break, PU-foamed (depth 67 mm), exterior Micrograin, interior Stucco, Aluminium frame construction in version with thermal break (Thermo), E6 / C0, with clear synthetic triple panes, 51 mm (S3) – Rail width 52 mm	3092440
Note: - When ordering fixed elements, please specify in all cases if the fitting is carried out in front of the reveal, behind the reveal or in the reveal! - Fitting accessories (box sections, brackets and bolts) are not part of the fixed element and must be ordered separately (see page 89)! - Fixing possibilities for fixed elements must be checked and determined on-site.												

Accessories

For all door types

Surcharges

Depth 42 mm				Depth 67 mm				Available Not available											
SPU F42	APU F42	APU F42 Thermo	ALR F42	ALR F42 Thermo	ALR F42 Glazing	ALR F42 Vitraplan	SPU 67 Thermo												
Frame covering (Calculated dimension (profile length) = door height (RM) + 137.5 mm) Not possible with spacer profile!																Article no.		€	
●	●	●	●	●	●	●	●	●	●	●	●	Angle sections 90 × 19.5 mm, 1 set, smooth surface, Grey white based on RAL 9002				3086941	Per m	51	
ThermoFrame – frame support with thermal break - Both of the following articles are always required. - Not possible in conjunction with single-skinned steel fascias and smooth aluminium fascias.																Article no.		€	
●	●	●	●	●	●	●	●	●	●	●	●	ThermoFrame side seals black 84 × 22.5 mm with lip seal (A frame covering may be needed to match the colour)				3090299	Per m door height	72	
●	●	●	●	●	●	●	●	●	●	●	●	ThermoFrame lintel seal black with 2 lip seals				3090300	Per m door width	28	
Set for increasing the air tightness - Only in conjunction with ThermoFrame. - Not possible in conjunction with glazing frames, ventilation grilles, single-skinned panels and aluminium fascia panels as well as doors with wicket door.																Article no.		€	
●	○	○	○	○	○	○	○	●	○	○	○	Set for increasing the air tightness, S-ribbed				3100269	Per m door height	26	
●	○	○	○	○	○	○	○	●	○	○	○	Set for increasing the air tightness, L-ribbed				3100271	Per m door height	7	
Spacer profile For underlining the frame to avoid contact of the section with the lintel in case of possible section deflection - Both of the following articles are always required. - Not possible in conjunction with panels. - Not possible with screw-on anchors. - Not possible with screw-on bracket 120 mm and 170 mm. - Not possible with on-site cladding.																Article no.		€	
●	●	●	●	●	●	●	●	●	●	●	●	Spacer profile, 20 mm, black				3098426	Per m door height	96	
●	●	●	●	●	●	●	●	●	●	●	●	Lintel seal, black, with flat mounting rail				3098427	Per m door width	48	
Torsion springs / torsion spring shaft																Article no.		€	
●	●	●	●	●	●	●	●	●	●	●	●	Torsion springs for 50000 closing cycles (with track applications N, ND, NS, NK, NA, NH, GD, GS, GK, L and LD)				678814	On the basic table price	Per door + 4 %	
●	●	●	●	●	●	●	●	●	●	●	●	Torsion springs for more than 50000 closing cycles (on request)				677820	On the basic table price	Per door + 8 %	
												Up to 100000 closing cycles		On the basic table price	Per door + 12 %				
												Over 100000 closing cycles		On the basic table price	Per door + 12 %				
●	●	●	●	●	●	●	●	●	●	●	●	Fitting version with double spring shaft				678823	Per door	688	
●	●	●	●	●	●	●	●	●	●	●	●	Laterally displaced torsion spring (side space requirement 2500 mm)				678829	Per side	426	
●	●	●	●	●	●	●	●	●	●	●	●	Surcharge for extending the torsion spring shaft (e.g. for fitting the operator in the neighbouring room)				3060525	Per door	209	
●	●	●	●	●	●	●	○	○	○	○	○	Surcharge for torsion spring assembly for additional on-site weight				3060558	On request		
●	●	●	●	●	●	●	●	●	●	●	●	Change to fixing height of torsion spring shaft for HU / VU (on request)				3098458	Per door	121	

Accessories

For all door types

Surcharges

Depth 42 mm										Depth 67 mm				
SPU F42	APU F42	APU F42 Thermo	ALR F42	ALR F42 Thermo	ALR F42 Glazing	ALR F42 Vitraplan	SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing				
Available Not available														
Manual door operation											Article no.		€	
(For depth 67, please observe the information on the trap guard on page 7.)														
											Hand pulley with rope, up to a door surface of 20 m²			
											Note:			
											For doors with track application N and a door surface up to 20 m², we recommend using a hand pulley.			
											– For track applications N, ND, NH, NS, H, HD, HS, HU	3092518	Each	92
											– For track applications V and VU: Absolutely necessary with manually operated doors!	3092519	Each	92
											Hand pulley with link steel chain, door surface up to 20 m²			
											– For track applications N, ND, NH, NS, H, HD, HS, HU	3092516	Each	125
											– For track applications V and VU	3092517	Each	125
											Chain hoist, range 1 (see technical manual), except for track application VA	3055281	Each	207
											Chain hoist, range 2 (see technical manual), except for track application VA	3055282	Each	207
											Chain hoist, range 3 (see technical manual) except for track applications V, VS	3055283	Each	234
											Chain tensioner for chain hoist link steel chain	3092520	Each	135
											Pull rod for manual operation	3093921	Each	61
											In combination with operator WA 300, WA 400 or WA 500 FU a secured release is necessary! Included in the scope of delivery for operator WA 400 M / WA 500 FU with centre fitting or manually operated doors with door heights > 3500 mm. Not possible with direct drive operator! Not in combination with bar for emergency operation for operator doors.			
											Article no.		€	
											Bar for emergency operation for operator doors			
											3065810	Each	161	
											Notes:			
											In combination with operator WA 300, WA 400 or WA 500 FU a secured release is necessary! For depth 42 mm up to door width 5000 mm; for depth 67 mm up to door width 5500 mm. Note: Long spring buffers can result in losses in clear passage. Not possible with direct drive operator! The doors must not have any door leaf reinforcements! Space requirements for doors with wicket door without threshold rail next to the wicket door: door height – 1000 mm. Not for wicket door with threshold rail! Not for track applications L and LD with swivel mechanism! Fitting opposite the operator side.			
Track suspension set											Article no.		€	
											Track suspension set 364 mm	3097015	No surcharge	
											Track suspension set 728 mm (No surcharge for version with track application H10 and H11)	3097016	Per door	27
											Track suspension set 1040 mm	3097017	Per door	44
											Track suspension set 1404 mm	3097018	Per door	92
											Track suspension set 1768 mm	3097019	Per door	149
											Track suspension set 2132 mm	3097020	Per door	265
											Track suspension set 2435 mm	3097021	Per door	302
Diagonal strut set														
Replaces the track suspension Only possible for track applications H and HU Only possible for doors with door width ≤ 3000 mm and door height ≤ 3250 mm. Door to wall distance or door to door max. 1500 mm. The door / wall connection is required for the first door of the compound. The door / door connection is required for all further doors.											Article no.		€	
Technical inspection required!														
											Diagonal strut set	3100111	Per door	94
											Set 1 door / wall connection for diagonal strut	3100112	Per door	33
											Set 2 door / door connection for diagonal strut	3100113	Per door	16

Accessories

For all door types

Surcharges

Depth 42 mm				Depth 67 mm												
SPU F42	APU F42	APU F42 Thermo	ALR F42	ALR F42 Thermo	ALR F42 Glazing	ALR F42 Vitraplan	SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing						
Available Not available																
Suspension for spring shaft in special length for track applications L and LD											Article no.		€			
											Spring shaft suspension set for track applications L and LD in special lengths (500 – 1040 mm)	3074443	Per door	240		
Horizontal tracks											Article no.		€			
											Extension of the horizontal tracks (on request)	3060547	Per door	426		
											Horizontal track with C-rail for reduced number of suspensions	3098428	Per door	258		
Note: Article not available:																
For doors with standard size > 5000 mm For doors with door width > 5500 mm For doors with real glass and door height > 3500 mm and door width > 5000 mm For track applications NS, NK, GS, GK, H10, H11, V and VU																
Tubular shaft for direct drive operator											Article no.		€			
											Surcharge for tubular shaft for direct drive operator (technical inspection required) (only with track application H10 and H11)	3092671	Per door	4536		
Box sections / angles											Article no.		€			
											Box section 40 / 60 / 2	Galvanized	Cut to length	3092523	Per m	32
													Uncut, 6980 mm long	3092524	Each	111
											Box section 60 / 60 / 2	Galvanized	Cut to length	3046489	Per m	47
													Uncut, 8000 mm long	3093767	Each	212
											Box section 120 / 60 / 2	Galvanized	Cut to length	3092526	Per m	50
													Uncut, 6980 mm long	3092527	Each	234
											Box section 160 / 60 / 2	Galvanized	Cut to length	3092528	Per m	68
													Uncut, 6980 mm long	3092529	Each	326
											Box section 200 / 60 / 2.5	Galvanized	Cut to length	3092530	Per m	81
													Uncut, 6980 mm long	3092531	Each	398
											Angle 82.5 × 35.0 × 3.75	Galvanized	Cut to length	3046492	Per m	32
													Uncut, 5500 mm long	3096049	Each	95
											Angle 55.0 × 29.0 × 3.75	Galvanized	Cut to length	3046493	Per m	27
													Uncut, 5500 mm long	3096050	Each	73
											Angle 60.0 × 40.0 × 4.00	Aluminium	Cut to length	3062174	Per m	35
													Uncut, 6000 mm long	3092532	Each	133
											Angle 30.0 × 30.0 × 3.00	Aluminium	Cut to length	3094559	Per m	32
													Uncut, 6000 mm long	3096051	Each	118
											Frame bracket set (10 left anchors / 10 right anchors)			3092533	Per set	34
Screw-on brackets											Article no.		€			
											For fixing the frame so that the brickwork surrounding of the reveal is bridged					
											– Screw-on bracket, 120 mm	3092534	Each	24		
											– Screw-on bracket, 170 mm	3092535	Each	28		
											Support bracket for a 120 mm box section	3096188	Each	14,40		
											Support bracket for a 160 mm box section	3096189	Each	15,90		
											Support bracket for a 200 mm box section	3096190	Each	15,90		
Screw set for fitting of fixed elements											Article no.		€			
Up to 5000 mm height, one set is required for each side																
											10 wood screws 8 × 60, plugs and self-tapping screws A 6.5 × 16	3094569	Per set	13,30		
											10 drilling screws B 8 × 30 and self-tapping screws A 6.5 × 16	3094570	Per set	13,30		
											10 self-tapping screws B 8 × 22 and self-tapping screws A 6.5 × 16	3094571	Per set	13,30		
											20 self-tapping screws A 6.5 × 16	3094572	Per set	13,30		

Accessories

For all door types

Surcharges

Depth 42 mm										Depth 67 mm		Available Not available			
SPU F42	APU F42	APU F42 Thermo	ALR F42	ALR F42 Thermo	ALR F42 Glazing	ALR F42 Vitraplan	SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing					
Door hardware with special corrosion protection (Not possible with version in RC 2!)												Article no.		€	
											Door hardware consisting of a combination of stainless steel hinges, roller holders, roller brackets and track rollers with stainless steel axle	Up to door widths of 4500 mm	3094560	Per m door height	291
												Door width 4510 – 6000 mm		Per m door height	372
												Door width 6010 – 8000 mm		Per m door height	665
												From door widths of 8010 mm		Per m door height	712
Cover set for anti-lift kit Objects with manually operated doors without a separate entrance, can be opened from the outside in case of spring breakage only with covered frame shells / anti-lift kit.												Article no.		€	
											Cover set for anti-lift kit	3100110	Per door	27	
Other Accessories												Article no.		€	
											Roller switch for querying the closing position of the shootbolt	3096823	Each	93	
											Bi-directional magnet switch to query a variable door position, e.g. for electric locking with air lock doors or loading ramps	3096824	Each	151	
											Set: spring buffers below the track (to reduce the distance back) Note: Not possible with low headroom and vertical track application as well as fittings with low-mounted spring shaft.	3093765	Per door	137	
											Surcharge: Roller holder set type S for loading ramp doors up to door width 4500 mm (on request) except for track applications L, LD, H10, H11 Notes: - Not possible for doors with door leaf reinforcements, door hardware with special corrosion protection, tandem rollers, reinforced roller holders, RC 2 version, quiet door travel set and leading photocells VL 1-LE and VL 2-LE. - Door travel speeds up to 0.5 m/s are possible.	3093049	Per door	72	
											Plastic frame shoe set Note: Not for chamfered bottom section!	3097023	Per set	No surcharge	
											Track limit set	3098252	Per set	No surcharge	
											Quiet door travel set Required number = number of door sections × 2	Galvanized Stainless steel ¹⁾	3097022 3097099	Each Each	21 12,50
											Notes: - Not for roller holder type S set. - Not for door widths above 8000 mm. 1) Only possible for door hardware with special corrosion protection.				
											Swing mechanism for track application L / track application LD to increase the clear passage	Galvanized Stainless steel ¹⁾	3098424 3098425	Per door Per door	265 454
											Notes: - For use with track application LD up to 10° inclination. - Not required with ITO / SupraMatic HT operators. - Only with chain hoist or shaft operator. - Not possible for door locking with rotary latch or floor locking. - Not possible for chamfered bottom sections. 1) Only possible for door hardware with special corrosion protection.				
											Safety-related optional extras for door heights up to 5000 mm	3098251	Per door	402	

Shaft operator WA 300 S4

Retrofitting on existing Hörmann door systems is possible!
Technical clarification required!

Integrated control

Operator	Control	Function
- Ready-to-fit shaft operator - Power input - 1-phase current 0.25 kW - Protection category IP 65 (jet-water protected) - Suitable track applications and door sizes according to the technical manual - ALR F42 Glazing, ALR 67 Thermo Glazing and doors with real glass available on request! - Max. 150 door cycles per day - Max. 10 door cycles per hour	- Integrated microprocessor control - Adjustable power limit - Connection cable with CEE plug IP 44 (splash-water protected)	- Opening with impulse - Closing with impulse - Automatic timer (only in conjunction with option relay (HOR 1-300) or universal adapter print (UAP 1-300) and warning lights and photocell or VL 1-LE/ VL 2-LE) - Soft start and soft stop

Shaft operator WA 300 S4				
Control	Operator	Fastening options	Article no.	€
Integrated control 230 V 1-phase current (10 door cycles/hour)	WA 300 S4	For flanging with chain transmission Incl. push button DTH-R (Open-Stop-Close)	635367	748
		For flanging with chain transmission Without push button DTH-R (Open-Stop-Close) Note: Article must be selected if the WA 300 S4 should be combined with a loading technology control 420 Si/Ti. The combination control 420 Si or 420 Ti must be ordered separately via the loading technology industrial price list	639772	701

Surcharges for emergency operation			Article no.	€
Secured release for interior operation	2)	Surcharge	637729	51
Lockable release for outside ASE, for outside operation, incl. Bowden cable (only in combination with secured release, article no. 637729)	4)	Surcharge	637733	165

Control elements			Article no.	€
Push button DTH-RM, Open-Stop-Close and miniature lock, omission of DTH-R	7)	Surcharge	637721	26
Push button DTH-I, Impulse-Stop-1/2/ Open incl. UAP1-300, omission of DTH-R	7)	Surcharge	637722	90
Push button DTH-IM, Impulse-Stop-1/2/ Open and miniature lock, incl. UAP1-300, omission of DTH-R	7)	Surcharge	637723	114
Push button control 300 U, in extension housing for flange-mounting to loading technology control 460 S/ T, omission of mains lead and DTH-R (required for integrated lock HOR 1-300 for control 300 U art. no. 635377)	7 8)	Surcharge	636293	51
Push button control 300 U, in extension housing with integrated main switch for all-pole switch-off, omission of mains lead and DTH-R	7 8)	Surcharge	636294	111
Separate main switch, incl. connecting lead to the control, omission of mains lead with 230 V CEE plug	8)	Surcharge	637724	122
Mains lead 1.2 m with 230 V CEE plug, for separate main switch or for 300 U with main switch			635486	17,80

Closing edge safety devices/ radio activating kit			Article no.	€
Closing edge safety device with optosensors, complete		Surcharge	637725	136
Closing edge safety device with VL 1-LE-300, complete				
Note: Not in conjunction with track applications L/ LD with swivel mechanism. VL 2-LE must be selected for these track applications.		Surcharge	637726	136
Closing edge safety device with VL 2-LE-300, complete; compulsory for doors with wicket doors without threshold rail (wicket door contact article 637110 required)		Surcharge	637727	277
Radio activating kit extension set (omission of coiled cable) Note: Only available in combination with 637725, 637726, 637727 or 637744.		Surcharge	636838	247
Wicket door contact				
Note: - For wicket doors without threshold rail: VL 2-LE-300 (article no. 637727) required - For wicket doors with threshold rail, without SKS: AT 3-300 (article no. 637744) required		Surcharge	637110	82
Double housing for closing edge safety device (SKS must be ordered separately); for use in extremely wet areas, protection category IP 66 (powerful jet-water protected)		Surcharge	637055	593
Limit switch for night lock (in conjunction with a closing edge safety device or AT3-300)			637016	54
Roller limit switch for night lock if fitting without door leaf branch boxes (SKS)			637063	82
Activating kit AT 3-300, for doors with wicket door and high threshold rail		Surcharge	637744	147

Photocells / light grilles		Article no.	€
Weather protective covers for photocells see page 135.			
One-way photocell EL 301 for floor fitting (for use in interiors and exteriors)	5)	436313	118
One-way photocell EL 51 with floor fitting (for use in interiors and exteriors)	6)	637023	167
One-way photocell EL 51 for fitting to top of industrial frames, sturdy bracket	6)	635340	167
One-way photocell EL 51 for fitting to bottom of industrial frames	6)	635341	167
One-way photocell EL 61, (for use in extremely wet areas, IP 67, powerful jet-water protected) Additional housing (article no. 637758) required!	6)	637222	568
Reflection photocell * RL 300, industrial floor fitting (for use in dry interiors)	5)	635022	195
Reflection photocell * RL 300, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)	5)	436717	195
Light grille HLG 550 for 67 series doors as trap guard Observe the information regarding the trap guard on page 7 of this price list!	Surcharge	636941	702

*** Note:**

Reflective objects, e.g. Reflective strips on clothing or vehicles, might not be recognised by the reflection photocell.

Overview of combination options for optical safety equipment	See page 138
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Air inlet control		Article no.	€
Air inlet control AC 72 in full industrial housing with miniature lock, omission of DTH-R			
Note:	9)	Surcharge	
- Cannot be combined with control 360. - A 300 U or the WA 300 S4 prepared for 420 Si/Ti, omitted DTH-R must be ordered separately.		4550801	1140
Air inlet control AC 72 with PHC in full industrial housing with profile half cylinder, DTH-R omitted			
Note:	9)	Surcharge	
- Cannot be combined with control 360. - A 300 U or the WA 300 S4 prepared for 420 Si/Ti, omitted DTH-R must be ordered separately.		4551228	1209
Cable monitoring UEB3 2K7 AE		635447	83
Combination warning light KSL; visual / acoustic		639350	76
Yellow LED traffic lights		436515	32
Yellow LED traffic lights, incl. piezo		436518	37
Power supply unit 24 V / 24 W to increase the charging current according to the requirements of DIN EN 12101-10 (can be integrated in 300 U)		4548491	60
Power supply unit connection accessories		636356	21

Additional accessories		Article no.	€
Magnet switch with fixing material, for electric locking with air lock doors or loading ramps		436339	73
Option relay HOR 1-300, relay for limit switch reporting "Open" or warning lights (IP 20)		636933	31
Option relay HOR 1-300 for fitting in control 300 U, relay for locking with loading technology	Surcharge	635377	50
Additional housing with seal and fitting accessories, IP 65 for HOR 1-300		637758	43
Universal adapter print UAP 1-300, relay for limit switch reporting "Open" and "Close" and warning lights		637728	83
Emergency battery HNA-300, main switch required		637717	189
TL40ye, LED traffic light, yellow (230 V / 50 Hz), HOR 1-300 or UAP 1-300 required		637536	112

Additional accessories	See pages 122 – 136
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- Notes:**
- Please note the technical manual!
 - When you order a sectional door with operator, the safety catch is omitted with the sectional door as the operator takes over the function of the securing load carrier. This is why the door must be fitted with an operator in all cases. It is not secured against falling as a manually operated door.

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| 1) Not in conjunction with one-way photocells | 6) For two photocells with system cable, the photocell expander LSE1 is required (see additional accessories article no. 436396) |
| 2) We recommend the emergency operation stated on page 88 | 7) Articles 637730, 637721, 637722, 637723, 636293 and 636294 cannot be combined |
| 3) Not in conjunction with leading photocells VL 1-LE / VL 2-LE | 8) Articles 637724, 636293 and 636294 cannot be combined |
| 4) Exterior handle recommended | 9) Articles 637730, 637721, 637722 and 637723 cannot be combined |
| 5) For two 2-wire photocells, a photocell expander is required (see additional accessories article no. 436380 or 639562) | |

Shaft operator WA 300 S4

Retrofitting on existing Hörmann door systems is possible!
Technical clarification required!

External control 360 inside the industrial control housing

Operator	Control	Function
- Ready-to-fit shaft operator - Power input - 1-phase current 0.25 kW - Protection category IP 65 (jet-water protected) - Suitable track applications and door sizes according to the technical manual - ALR F42 Glazing, ALR 67 Thermo Glazing and doors with real glass available on request! - Max. 150 door cycles per day - Max. 10 door cycles per hour	- Integrated microprocessor control in separate housing, with integrated Open-1/2 / Open-Stop-Close membrane push button and miniature lock - Adjustable power limit - Protection category IP 65 (jet-water protected) - Connection cable with CEE plug IP 44 (splash-water protected) - Control fitting directly next to the sectional door - Dimensions (W x H): 195 x 310 mm	- Opening with impulse - Closing with impulse - Any second opening height 1/2 / Open - Automatic timer (only in conjunction with warning light connection and photocell / light grille) - Prepared for traffic control (only in conjunction with activating kit for warning lights and photocell / light grille or VL 1-LE / VL 2-LE) - Soft start and soft stop

Shaft operator WA 300 S4				
Control	Operator	Fastening options	Article no.	€
External control 360 230 V 1-phase current (10 door cycles/hour)	WA 300 S4	For flange-mounting with chain wheel transmission	635369	999
Surcharges for emergency operation			Article no.	€
Secured release for interior operation		2) Surcharge	637729	51
Lockable release for outside ASE, for outside operation, incl. Bowden cable (only in combination with secured release, article no. 637729)		5) Surcharge	637733	165
Control elements			Article no.	€
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug		Surcharge	637105	70
Lockable control with profile half cylinder		Surcharge	637100	70
Mains lead 1.2 m with 230 V CEE plug, for controls with main switch			635486	17,80
Closing edge safety devices / radio activating kit			Article no.	€
Closing edge safety device with optosensors, complete		Surcharge	637725	136
Closing edge safety device with VL 1-LE-300, complete				
Note: Not in conjunction with track applications L / LD with swivel mechanism. VL 2-LE must be selected for these track applications.	4)	Surcharge	637726	136
Closing edge safety device with VL 2-LE-300, complete; compulsory for doors with wicket doors without threshold rail (wicket door contact article 637110 required)	4)	Surcharge	637727	277
Extension set for Hörmann light grille HLG as safety equipment for the main closing edge in the door level (integrated into the door frame) Note: Not in conjunction with RC 2!	3) 6) 7) 8) 9)	Surcharge	636938	681
Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door without threshold rails	7) 8) 9)	Surcharge	636867	1848
Radio activating kit extension set (omission of coiled cable)		Surcharge	636838	247
Note: Only available in combination with 637725, 637726, 637727, 636938, 637744 or 637201.				
Wicket door contact				
Note: • For wicket doors without threshold rail: VL 2-LE-300 (article no. 637727) required • For wicket doors with threshold rail, without SKS: AT 3-300 (article no. 637744) required		Surcharge	637110	82
Double housing for closing edge safety device (SKS must be ordered separately); for use in extremely wet areas, protection category IP 66 (powerful jet-water protected)		Surcharge	637055	593
Limit switch for night lock (in conjunction with a closing edge safety device or AT 3-300)			637016	54
Roller limit switch for night lock if fitting without door leaf branch boxes (SKS)			637063	82
Activating kit AT 3-300, for doors with wicket door and high threshold rail		Surcharge	637744	147

Photocells / light grilles		Article no.	€
Weather protective covers for photocells see page 135.			
One-way photocell EL 301 for floor fitting (for use in interiors and exteriors)	4)	436313	118
One-way photocell EL 51 (for use in interiors and exteriors)	4)	637023	167
One-way photocell EL 51 for fitting to top of industrial frames, sturdy bracket	4)	635340	167
One-way photocell EL 51 for fitting to bottom of industrial frames	4)	635341	167
One-way photocell EL 61, (for use in extremely wet areas, IP 67, powerful jet-water protected)	4)	637222	568
Reflection photocell * RL 52 as a command unit (for use in dry interiors)		637084	202
Reflection photocell* RL 300, floor fitting (for use in dry interiors)		436710	142
Reflection photocell * RL 300, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)		436717	195
Light grille HLG 550 for 67 series doors as trap guard Observe the information regarding the trap guard on page 7 of this price list!	Surcharge	636941	702

*** Note:**

Reflective objects, e.g. Reflective strips on clothing or vehicles, might not be recognised by the reflection photocell.

Overview of combination options for optical safety equipment	See page 138
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Activating kit for warning lights (photocell / light grille required)		Article no.	€
Activating kit for warning lights ZS 360 / 400 with multi-function circuit board and 2 yellow LED traffic lights, without extension housing		637530	328
Activating kit for warning lights ZS 360 with multi-function circuit board, 2 yellow LED traffic lights and weekly timer ZSU 2, without extension housing		637780	504
Activating kit for warning lights with 2 LED traffic lights, without extension housing	2-arm red / green (230 V / 50 Hz)	637731	475
	1-arm red / green (24 V DC)	638955	475
Activating kit for warning lights MP 360 with 2 LED traffic lights and weekly timer ZSU 2, without extension housing	2-arm red / green (230 V / 50 Hz)	637779	771
	1-arm red / green (24 V DC)	638956	771

Additional accessories		Article no.	€
Power supply unit, input voltage 230 V AC, output voltage 24 V DC / 24 W		4548491	60
Power supply unit connection accessories (article no. 4548491)		636356	21
Magnet switch with fixing material, for electric locking with air lock doors or loading ramps		436339	73
Multi-function circuit board with 2 relays (programmable)		637026	107
Circuit board for limit switch reporting with 2 relays (only in combination with multi-function circuit board, traffic control or central control)		637028	58
Circuit board for limit switch reporting with 2 relays and fuse (only in combination with multi-function circuit board, traffic control or central control)		637052	76
Circuit board for central control / smoke detector device		637243	112
Summer / winter operation activating kit with function report		637036	404
Extension housing for industrial door controls (semi-housing)		637014	68
Double housing for control for extremely wet areas, IP 66 (powerful jet-water protected)		637035	450

Safety contact strip 8k2 (Not possible in doors with wicket door without threshold rail!)		Article no.	€
Safety contact end unit 8k2, protection category IP 67 (LZ + 40 mm)	3) 4) Per m	637201	128
Pre-assembly of 8k2 end unit, left connection, 0.5 m connecting lead		637206	196
Pre-assembly of 8k2 end unit, right connection, 0.5 m connecting lead		637204	196
Pre-assembly of 8k2 end unit, left connection, 2.5 m connecting lead		637207	196
Pre-assembly of 8k2 end unit, right connection, 2.5 m connecting lead		637205	196
Activating kit for closing edge safety device 8K2		638393	160
Note: Required for safety contact strip 8K2.			

Additional accessories	See pages 122 – 136
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Notes:

- Please note the technical manual!
- When you order a sectional door with operator, the safety catch is omitted with the sectional door as the operator takes over the function of the securing load carrier. This is why the door must be fitted with an operator in all cases. It is not secured against falling as a manually operated door.

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| 1) Not in conjunction with one-way photocells | 7) Not suitable for wash hall doors |
| 2) We recommend the emergency operation stated on page 88 | 8) Not in conjunction with VL 1-LE / VL 2-LE |
| 3) Not in conjunction with leading photocells VL 1-LE / VL 2-LE | 9) Not for sectional doors: |
| 4) Not in conjunction with light grille | - With RM < 3125 mm (track application L and track application N) |
| 5) Exterior handle recommended | - With RM ≤ 2500 mm (track application V) |
| 6) Not suitable for doors with wicket doors without threshold rail | - With RM < 2625 mm (track application H) |

Shaft operator WA 400 / WA 400 M

Control A 445

Operator	Control	Function
- Ready-to-fit shaft operator with cable slack device - Power input: 3-phase current: 0.37 kW 1-phase current: 0.30 kW - Protection category IP 65 (jet-water protected) - Electronic absolute encoder (AWG) for determining the door position	- Microprocessor control in separate housing, with Open-Stop-Close membrane push button integrated in housing, miniature lock - Adjustable power limit - Protection category IP 65 (jet-water protected) - Self-monitoring closing edge safety device (SKS) with optosensors - Connection cable with CEE plug in protection category IP 44 (splash-water protected) - Fitting of the control immediately next to the sectional door, plug-in door leaf sensors - Dimensions (W × H): 195 × 310 mm	- Opening with impulse - Closing with impulse

We recommend using a 400 volt 3-phase unit due to its longer on-time and smoother running.

Shaft operator WA 400 / WA 400 M				
Control	Operator	Fastening options	Article no.	€
Control A 445 400 volt 3-phase current (with SKS, S3–60 % ED)	WA 400	To flange, not for track application L / LD or double spring shaft, with maintenance release	635515	1052
	WA 400	With chain box, not with double spring shaft, with maintenance release	635516	1224
	WA 400 M	For central mounting ¹⁾ , not for track application L / LD or double spring shaft, with secured release	635080	1451

Surcharge for emergency operation (only for operators to flange or chain box)			Article no.	€
Emergency hand chain		Surcharge	636935	54
Rigid emergency crank handle (observe space requirement!)		Surcharge	636936	24
Jointed emergency crank handle		Surcharge	636937	36

Optional extras for shaft operator WA 400 with control A / B 445				Article no.	€	
Optosensors omitted (cable slack switch and junction box for door leaf and frame are included in the scope of delivery)			8) 9) 11)	637139	–	
Secured release (from inside) ²⁾	WA 400	For flanging or with chain box	Surcharge	637025	131	
	WA 400 M	For central mounting, included as standard (emergency hand chain not available)		–		
Lockable release for outside ASE, for outside operation, incl. Bowden cable Note: Only in conjunction with secured release from the inside (article no. 637025)			3)	Surcharge	637733	165
Operator with increased on-time ED+ (+ 5 cycles/hour) – only with A 445 / 400 V 3-phase units				Surcharge	637030	215
Double housing for closing edge safety device for extremely wet areas, IP 66 (powerful jet-water protected)				Surcharge	637055	593
Double housing for control for extremely wet areas, IP 66 (powerful jet-water protected)					637035	450
Extension housing for industrial door controls (semi-housing)					637014	68
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug				Surcharge	637105	70
Mains lead 1 m with CEE plug (A control 400 V) for separate main switch					638094	54
Mains lead 1 m with CEE plug (B control 230 V) for separate main switch					638095	50
Lockable control with profile half cylinder				Surcharge	637100	70
Wicket door contact				Surcharge	637110	82
Limit switch for night lock					637016	54
Multi-function circuit board with 2 relays (programmable)					637026	107
Circuit board for limit switch reporting with 2 relays (only in conjunction with a multi-function circuit board)					637028	58
Circuit board for limit switch reporting with 2 relays and fuse (only in combination with multi-function circuit board, traffic control or central control)					637052	76
Activating kit for door leaf (SKS), max. assembly height 35 mm					637186	415
Activating kit for warning lights ZS 360 / 400 with multi-function circuit board and 2 yellow LED traffic lights, without extension housing					637530	328

Photocells / light grilles / radio activating kit			Article no.	€
Weather protective covers for photocells see page 135.				
Extension set for leading photocell VL 1-LE, incl. floor slides				
Note: Not in conjunction with track applications L / LD with swivel mechanism. VL 2-LE must be selected for these track applications.	5) 6) 9)		637108	–
Extension set for leading photocell VL 2-LE, incl. floor slides; compulsory for doors with wicket door without threshold rail	5) 9)	Surcharge	637107	173
Extension set for Hörmann light grille HLG as safety equipment for the main closing edge in the door level (integrated into the door frame) Note: Not in conjunction with RC 2!	5) 6) 7) 8) 10) 11)	Surcharge	636938	681
Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door without threshold rail	4) 5) 7) 8) 10) 11)	Surcharge	636867	1848
Radio activating kit extension set (omission of coiled cable) Note: Only in combination with the optosensors as standard, 637107, 637108, 636938 or 637201 available.		Surcharge	636838	247
One-way photocell EL 51 (for use in interiors and exteriors)	9)		637023	167
One-way photocell EL 51 (for fitting to top of industrial frames), sturdy bracket	9)		635340	167
One-way photocell EL 51 (for fitting to bottom of industrial frames)	9)		635341	167
One-way photocell EL 61 for extremely wet areas, IP 67 (powerful jet-water protected)	9)		637222	568
Reflection photocell * RL 50 for door widths 500 – 8000 mm (for use in dry interiors)			637086	195
Reflection photocell* RL 50, for door widths from 500 – 8000 mm, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)			635344	195
Reflector for photocell RL 50, for door widths from 8000 mm to 12000 mm			638163	13
Reflection photocell * RL 52 as a command unit (for use in dry interiors)			637084	202
Light grille HLG 550 for 67 series doors as trap guard Observe the information regarding the trap guard on page 7 of this price list!		Surcharge	636941	702

*** Note:**

Reflective objects, e.g. Reflective strips on clothing or vehicles, might not be recognised by the reflection photocell.

Overview of combination options for optical safety equipment

See page 138

Safety contact strip 8k2 (Not possible for doors with wicket door without threshold rail and for doors > 5000 mm RM!)			Article no.	€
Safety contact end unit 8k2, protection category IP 67 (LZ + 40 mm)	5) 8) 9)	Per m	637201	128
Pre-assembly of 8k2 end unit, left connection, 0.5 m connecting lead			637206	196
Pre-assembly of 8k2 end unit, right connection, 0.5 m connecting lead			637204	196
Pre-assembly of 8k2 end unit, left connection, 2.5 m connecting lead			637207	196
Pre-assembly of 8K2 end unit, right connection, 2.5 m connecting lead			637205	196

Control variant ¹²⁾		Article no.	€
Control B 445, 230 volt 1-phase current (with SKS, S3 – 25 % ED), max. door size 4500 x 4500 mm	For WA 400 to flange, not for track application L / LD or double spring shaft, with maintenance release	635510	Same price as for control A 445
	For WA 400 with chain box, not with double spring shaft, with maintenance release	635511	
	For WA 400 M for centre fitting, not for track application L / LD or double spring shaft, with secured release	635075	

Additional accessories

See pages 122 – 136

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| <ol style="list-style-type: none"> 1) Use of WA 400 M only after technical inspection 2) We recommend the emergency operation stated on page 88 3) Exterior handle recommended 4) Not in conjunction with one-way photocells 5) Not suitable for use without optosensors (article no. 637139) 6) Not suitable for doors with wicket doors without threshold rail 7) Not suitable for wash hall doors 8) Not in conjunction with VL 1-LE / VL 2-LE 9) Not in conjunction with light grille | <ol style="list-style-type: none"> 10) Not for sectional doors: <ul style="list-style-type: none"> - With RM < 3125 mm (track application L and track application N) - With RM ≤ 2500 mm (track application V) - With RM < 2625 mm (track application H) 11) Not in combination with safety contact strip 8k2 12) ALR F42 Glazing, ALR F42 Vitraplan, ALR 67 Thermo Glazing and doors with real glass, as well as APU 67 Thermo and ALR 67 Thermo with infill types S4, A4, M4, R4, XU on request! |
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Notes:

- Please note the technical manual! Retrofitting of operators and controls on existing door systems on request.
- When you order a sectional door with operator, the safety catch is omitted with the sectional door as the operator takes over the function of the securing load carrier. This is why the door must be fitted with an operator in all cases. It is not secured against falling as a manually operated door.

Shaft operator WA 400 / WA 400 M

Control A 460

Operator	Control	Function
- Ready-to-fit shaft operator with cable slack device - Power input: – 3-phase current: 0.37 kW – 1-phase current: 0.30 kW - Protection category IP 65 (jet-water protected) - Electronic absolute encoder (AWG) for determining the door position	- Microprocessor control in separate housing with integrated Open-1/2 / Open-Stop-Close membrane push button, miniature lock - Adjustable power limit - Protection category IP 65 (jet-water protected) - Self-monitoring closing edge safety device (SKS) with optosensors - Connection cable with CEE plug in protection category IP 44 (splash-water protected) - Fitting of the control immediately next to the sectional door, plug-in door leaf sensors - Dimensions (W × H): 195 × 310 mm	- Opening with impulse - Closing with impulse - Any second opening height (1/2 / Open) - Automatic timer (only in conjunction with activating kit for warning lights and photocell / light grille or VL 1-LE / VL 2-LE) - Prepared for traffic control (only in conjunction with activating kit for warning lights and photocell / light grille or VL 1-LE / VL 2-LE)

We recommend using a 400 volt 3-phase unit due to its longer on-time and smoother running.

Shaft operator WA 400 / WA 400 M				
Control	Operator	Fastening options	Article no.	€
Control A 460 400 volt 3-phase current (with SKS, S3–60 % ED)	WA 400	To flange, not for track application L / LD or double spring shaft, with maintenance release	635525	1506
	WA 400	With chain box, not with double spring shaft, with maintenance release	635526	1676
	WA 400 M	For central mounting ¹⁾ , not for track application L / LD or double spring shaft, with secured release	635090	1884

Surcharge for emergency operation (only for operators to flange or chain box)		Article no.	€
Emergency hand chain	Surcharge	636935	54
Rigid emergency crank handle (observe space requirement!)	Surcharge	636936	24
Jointed emergency crank handle	Surcharge	636937	36

Optional extras for shaft operator WA 400 with control A / B 460				Article no.	€
Secured release (from inside) ²⁾	WA 400	For flanging or with chain box	Surcharge	637025	131
	WA 400 M	For central mounting, included as standard (emergency hand chain not available)		–	–
Lockable release for outside ASE, for outside operation, incl. Bowden cable Note: Only in conjunction with secured release from the inside (article no. 637025)			³⁾ Surcharge	637733	165
Operator with increased on-time ED+ (+ 5 cycles/hour) – only with A 460 / 400 V 3-phase units			Surcharge	637030	215
Double housing for closing edge safety device for extremely wet areas, IP 66 (powerful jet-water protected)			Surcharge	637055	593
Double housing for control for extremely wet areas, IP 66 (powerful jet-water protected)				637035	450
Extension housing for industrial door controls (semi-housing)				637014	68
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug			Surcharge	637105	70
Mains lead 1 m with CEE plug (A control 400 V) for separate main switch				638094	54
Mains lead 1 m with CEE plug (B control 230 V) for separate main switch				638095	50
Lockable control with profile half cylinder			Surcharge	637100	70
Wicket door contact			Surcharge	637110	82
Limit switch for night lock				637016	54
Multi-function circuit board with 2 relays (programmable)				637026	107
Circuit board for limit switch reporting with 2 relays (only in conjunction with a multi-function circuit board, traffic control or central control)				637028	58
Circuit board for limit switch reporting with 2 relays and fuse (only in combination with multi-function circuit board, traffic control or central control)				637052	76
Circuit board for central control / smoke detector device (RWA)				637243	112
Activating kit for door leaf (SKS), max. assembly height 35 mm				637186	415

Photocells / light grilles / radio activating kit			Article no.	€
Weather protective covers for photocells see page 135.				
Extension set for leading photocell VL 1-LE, incl. floor slides				
Note:	^{5) 8)}		637108	–
Not in conjunction with track applications L / LD with swivel mechanism. VL 2-LE must be selected for these track applications.				
Extension set for leading photocell VL 2-LE, incl. floor slides; mandatory for doors with wicket door without threshold rail	⁸⁾	Surcharge	637107	173

Photocells / light grilles / radio activating kit			Article no.	€
Weather protective covers for photocells see page 135.				
Extension set for Hörmann light grille HLG as safety equipment for the main closing edge in the door level (integrated into the door frame) Note: Not in conjunction with RC 2!	5) 6) 7) 9)	Surcharge	636938	681
Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door without threshold rail	4) 6) 7) 9)	Surcharge	636867	1848
Radio activating kit extension set (omission of coiled cable) Note: Only in combination with the optosensors as standard, 637107, 637108, 636938 or 637201 available.		Surcharge	636838	247
One-way photocell EL 51 (for use in interiors and exteriors)	8)		637023	167
One-way photocell EL 51 (for fitting to top of industrial frames), sturdy bracket	8)		635340	167
One-way photocell EL 51 (for fitting to bottom of industrial frames)	8)		635341	167
One-way photocell EL 61 for extremely wet areas, IP 67 (powerful jet-water protected)	8)		637222	568
Reflection photocell * RL 50 for door widths 500 – 8000 mm (for use in dry interiors)			637086	195
Reflection photocell* RL 50, for door widths from 500 – 8000 mm, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)			635344	195
Reflector for photocell RL 50, for door widths from 8000 mm to 12000 mm			638163	13
Reflection photocell * RL 52 as a command unit (for use in dry interiors)			637084	202
Light grille HLG 550 for 67 series doors as trap guard Observe the information regarding the trap guard on page 7 of this price list!		Surcharge	636941	702

***Note:**

Reflective objects, e.g. Reflective strips on clothing or vehicles, might not be recognised by the reflection photocell.

Overview of combination options for optical safety equipment	See page 138
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Activating kit for warning lights (photocell / light grille required)		Article no.	€
Activating kit for warning lights ZS 360 / 400 with multi-function circuit board and 2 yellow LED traffic lights, without extension housing		637530	328
Activating kit for warning lights ZS 400 with 2 yellow LED traffic lights and weekly timer ZSU 2, with extension housing		637531	536
Activating kit for warning lights MP 400 traffic control with 2 LED traffic lights, with extension housing	2-arm red / green (230 V / 50 Hz)	637532	621
	1-arm red / green (24 V DC)	638957	621
Activating kit for warning lights MP 400 traffic control with 2 LED traffic lights and weekly timer ZSU 2, with extension housing	2-arm red / green (230 V / 50 Hz)	637533	803
	1-arm red / green (24 V DC)	638958	803

Further optional extras (photocell / light grille required)	Article no.	€
Summer / winter operation activating kit with function report	637036	404

Safety contact strip 8k2 (Not possible for doors with wicket door without threshold rail and for doors > 5000 mm RM!)			Article no.	€
Safety contact end unit 8k2, protection category IP 67 (LZ + 40 mm)	7) 8)	Per m	637201	128
Pre-assembly of 8k2 end unit, left connection, 0.5 m connecting lead			637206	196
Pre-assembly of 8k2 end unit, right connection, 0.5 m connecting lead			637204	196
Pre-assembly of 8k2 end unit, left connection, 2.5 m connecting lead			637207	196
Pre-assembly of 8K2 end unit, right connection, 2.5 m connecting lead			637205	196

Control variant ¹⁰⁾		Article no.	€
Control B 460, 230 volt 1-phase current (with SKS, S3 – 25 % ED), max. door size 4500 x 4500 mm	For WA 400 to flange, not for track application L / LD or double spring shaft with maintenance release	635520	Same price as for control A 460
	For WA 400 with chain box, not with double spring shaft, with maintenance release	635521	
	For WA 400 M for centre fitting, not for track application L / LD or double spring shaft, with secured release	635085	

Additional accessories	See pages 122 – 136
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| <ol style="list-style-type: none"> 1) Use of WA 400 M only after technical inspection 2) We recommend the emergency operation stated on page 88 3) Exterior handle recommended 4) Not in conjunction with one-way photocells 5) Not suitable for doors with wicket doors without threshold rail 6) Not suitable for wash hall doors 7) Not in conjunction with VL 1-LE / VL 2-LE 8) Not in conjunction with light grille | <ol style="list-style-type: none"> 9) Not for sectional doors: <ul style="list-style-type: none"> - With RM < 3125 mm (track application L and track application N) - With RM ≤ 2500 mm (track application V) - With RM < 2625 mm (track application H) 10) ALR F42 Glazing, ALR F42 Vitraplan, ALR 67 Thermo Glazing and doors with real glass, as well as APU 67 Thermo and ALR 67 Thermo with infill types S4, A4, M4, R4, XU on request! |
|--|--|

Notes:

- Please note the technical manual! Retrofitting of operators and controls on existing door systems on request.
- When you order a sectional door with operator, the safety catch is omitted with the sectional door as the operator takes over the function of the securing load carrier. This is why the door must be fitted with an operator in all cases. It is not secured against falling as a manually operated door.

Shaft operator WA 500 FU / WA 500 M-FU



Control 545 with soft start and soft stop

Operator	Control	Function
- Ready-to-fit shaft operator with frequency converter - Power input: – 1-phase current: 0.72 kW - Protection category IP 65 (jet-water protected) - Electronic absolute encoder (AWG) for determining the door position - Door travel speed up to 0.5 m/s - Constant door travel speed, even with track applications H and V - Standby approx. 1 W	- Microprocessor control in separate housing, with Open-Stop-Close membrane push button integrated in housing, miniature lock - Protection category IP 65 (jet-water protected) - Self-monitoring closing edge safety device (SKS) with optosensors - Cable slack devices - Bluetooth for BlueControl as standard - Energy saving mode (standby approx. 1 W) - Connection cable with CEE plug in protection category IP 44 (splash-water protected) - Fitting of the control immediately next to the sectional door, plug-in door leaf sensors - Dimensions (W × H): 195 × 310 mm	- Soft open with impulse - Soft close with impulse - High-speed when opening - Automatic timer (only in conjunction with activating kit for warning lights and photocell / light grille or VL 1-LE / VL 2-LE)

Shaft operator WA 500 FU / WA 500 M-FU				
Control	Operator	Fastening options	Article no.	€
Control 545 230 V 1-phase current (with SKS, 25 door cycles/hour)	WA 500 FU	To flange, not for track application L/LD, with maintenance release	4514486	1742
	WA 500 FU	With chain box, with maintenance release	4514487	1992
	WA 500 M-FU	For centre mounting ¹⁾ , not for track applications L/LD, with secured release	4514488	2121

Important: • The operator fulfils the requirements of DIN 14092 for fire station doors with regard to their opening speed of at least 0.25 m/s.

Surcharge for emergency operation (only for operators to flange or chain box)		Article no.	€
Emergency hand chain	Surcharge	636935	54
Rigid emergency crank handle (observe space requirement!)	Surcharge	636936	24
Jointed emergency crank handle	Surcharge	636937	36

Optional extras for shaft operator WA 500 FU with control 545				Article no.	€
Secured release (from inside) ²⁾	WA 500 FU	For flanging or with chain box	Surcharge	637025	131
	WA 500 M-FU	For central mounting, included as standard (emergency hand chain not available)		–	–
Lockable release for outside ASE, for outside operation, incl. Bowden cable Note: Only in conjunction with secured release from the inside (article no. 637025)			³⁾ Surcharge	637733	165
CAT adapter box Required for shortening the network cable (connection cable between operator and control), wiring tool required (article no. 4514028)				4514011	27
Wiring tool for CAT adapter box (can be reused several times)				4514028	118
Battery unit for control 545 / 560, incl. batteries To buffer the time and date of the control if it is not supplied with mains voltage for longer than 60 hours.				4514027	21
Widescan (intelligent command unit and to secure the door)				4981575	1121
Notes: • No partial opening function possible in combination with control 545! • If the door width is wider than the mounting height, then another widescan is required to secure the door.					
Widescan holder (galvanized steel)			Each	4982364	95
HCP-Hub 4 (required when more than 1 HCP bus participant is needed)				4510206	83
Operator with increased on-time ED+ (+ 5 cycles/hour)			Surcharge	637030	215
Double housing for closing edge safety device for extremely wet areas, IP 66 (powerful jet-water protected)			Surcharge	637055	593
Double housing for control for extremely wet areas, IP 66 (powerful jet-water protected)				637035	450
Extension housing for industrial door controls (semi-housing)				637014	68
Fitting struts to fasten the control / extension housing to the door frame				637696	30
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug			Surcharge	637105	70
Mains lead 1 m with CEE plug (230 V) for separate main switch				4514249	50
Lockable control with profile half cylinder			Surcharge	637100	70
Wicket door contact			Surcharge	637110	82
Limit switch for night lock				637016	54
Multi-function circuit board with 2 relays (programmable)				637026	107
Circuit board for limit switch reporting with 2 relays (only in conjunction with a multi-function circuit board or central control)				637028	58

Optional extras for shaft operator WA 500 FU with control 545			Article no.	€
Circuit board for limit switch reporting with 2 relays and fuse (only in combination with multi-function circuit board or central control)			637052	76
Circuit board for central control			637243	112
Activating kit for door leaf (SKS), max. assembly height 35 mm			637186	415
Photocells / light grilles / radio activating kit			Article no.	€
Weather protective covers for photocells see page 135.				
Extension set for leading photocell VL 1-LE, incl. floor slides				
Note: Not in conjunction with track applications L/LD with swivel mechanism. VL 2-LE must be selected for these track applications.			637108	–
Extension set for leading photocell VL 2-LE, incl. floor slides; compulsory for doors with wicket door without threshold rail			637107	173
Extension set for Hörmann light grille HLG as safety equipment for the main closing edge in the door level (integrated into the door frame) Note: Not in conjunction with RC 2!			636938	681
Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door without threshold rail			636867	1848
Radio activating kit extension set (omission of coiled cable) Note: Only in combination with the optosensors as standard, 637107, 637108, 636938 or 637201 available.			636838	247
One-way photocell EL 51 (for fitting to top of industrial frames), sturdy bracket			635340	167
One-way photocell EL 51 (for fitting to bottom of industrial frames)			635341	167
One-way photocell EL 61 for extremely wet areas, IP 67 (powerful jet-water protected)			637222	568
One-way photocell EL 301 for floor fitting For use in interiors and exteriors			436313	118
One-way photocell EL 401 (frame bottom prepared at the factory for fitting) Note: Not in conjunction with RC 2, VL-LE or HLG!			437922	71
Reflection photocell* RL 50, for door widths from 500 – 8000 mm, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)			635344	195
Reflector for photocell RL 50, for door widths from 8000 mm to 12000 mm			638163	13
Reflection photocell * RL 52 as a command unit (for use in dry interiors)			637084	202
Reflection photocell* RL 300, industrial floor fitting (for use in dry interiors)			635022	195
Reflection photocell * RL 300, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)			436717	195
Light grille HLG 550 for 67 series doors as trap guard Observe the information regarding the trap guard on page 7 of this price list!			636941	702
* Note: Reflective objects, e.g. Reflective strips on clothing or vehicles, might not be recognised by the reflection photocell.				

Overview of combination options for optical safety equipment	See page 138
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Activating kits for warning lights	Article no.	€
Activating kit for warning lights with multi-function circuit board and 2 yellow LED traffic lights, without extension housing	637530	328
Activating kit for warning lights with 2 yellow LED traffic lights and weekly timer ZSU 2, with extension housing	637531	536

Safety contact strip 8k2 (not possible for doors with wicket doors without threshold rail!)	Article no.	€
Safety contact end unit 8k2, protection category IP 67 (LZ + 40 mm)	637201	128
Pre-assembly of 8k2 end unit, left connection, 0.5 m connecting lead	637206	196
Pre-assembly of 8k2 end unit, right connection, 0.5 m connecting lead	637204	196
Pre-assembly of 8k2 end unit, left connection, 2.5 m connecting lead	637207	196
Pre-assembly of 8K2 end unit, right connection, 2.5 m connecting lead	637205	196

Additional accessories	See pages 122 – 136
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- | | |
|--|---|
| 1) Use of WA 500 M only after technical inspection | 8) Not in conjunction with light grille |
| 2) We recommend the emergency operation stated on page 88 | 9) Not for sectional doors: |
| 3) Exterior handle recommended | - With RM < 3125 mm (track application L and track application N) |
| 4) Not in conjunction with one-way photocells | - With RM ≤ 2500 mm (track application V) |
| 5) Not suitable for doors with wicket doors without threshold rail | - With RM < 2625 mm (track application H) |
| 6) Not suitable for wash hall doors | |
| 7) Not in conjunction with VL 1-LE / VL 2-LE | |

Notes:

- Please note the technical manual! Retrofitting of operators and controls on existing door systems on request.
- When you order a sectional door with operator, the safety catch is omitted with the sectional door as the operator takes over the function of the securing load carrier. This is why the door must be fitted with an operator in all cases. It is not secured against falling as a manually operated door.

Shaft operator WA 500 FU / WA 500 M-FU

Control 560 with soft start and soft stop

Door travel speed
Up to 1 m/s



Operator

- Ready-to-fit shaft operator with frequency converter
- Power input:
 - 1-phase current: 0.72 kW
- Protection category IP 65 (jet-water protected)
- Electronic absolute encoder (AWG) for determining the door position
- Optional door travel speed up to 1 m/s
- Constant door travel speed, even with track applications H and V
- Standby approx. 1 W

Control

- Microprocessor control in separate housing with integrated Open-1/2 / Open-Stop-Close membrane push button, miniature lock
- Protection category IP 65 (jet-water protected)
- Self-monitoring closing edge safety device (SKS) with optosensors
- Cable slack devices
- Option relay as standard
- Bluetooth for BlueControl as standard
- Keypad illumination
- Energy saving mode (standby approx. 1 W)
- Connection cable with CEE plug in protection category IP 44 (splash-water protected)

- Fitting of the control immediately next to the sectional door, plug-in door leaf sensors
- Dimensions (W x H): 195 x 310 mm

Function

- Soft open with impulse
- Soft close with impulse
- Any second opening height (1/2 / Open)
- High-speed when opening
- Automatic timer (only in conjunction with activating kit for warning lights and photocell / light grille or VL 1-LE / VL 2-LE)
- Prepared for traffic control (only in conjunction with activating kit for warning lights and photocell / light grille or VL 1-LE / VL 2-LE)

Shaft operator WA 500 FU / WA 500 M-FU				
Control	Operator	Fastening options	Article no.	€
Control 560 230 V 1-phase current (with SKS, 25 door cycles/hour)	WA 500 FU	To flange, not for track application L / LD, with maintenance release	4514504	2142
	WA 500 FU	With chain box, with maintenance release	4514505	2393
	WA 500 M-FU	For central mounting ¹⁾ , not for track application L / LD, with secured release	4514508	2522

Important: • The operator fulfils the requirements of DIN 14092 for fire station doors with regard to their opening speed of at least 0.25 m/s.

Surcharge for emergency operation (only for operators to flange or chain box)		Article no.	€
Emergency hand chain	Surcharge	636935	54
Rigid emergency crank handle (observe space requirement!)	Surcharge	636936	24
Jointed emergency crank handle	Surcharge	636937	36

Door travel speed up to 1 m/s	Article no.	€
Optional door travel speed up to 1 m/s Only possible in conjunction with article no. 4514505, WA 500 FU with chain box.	4514083	–
Note: • For door size range 1, the max. speed is 0.7 m/s (1 m/s only after technical inspection). • Not available to choose in door size range 3. The speed of 1 m/s is achieved here as standard. • For door widths > 6000 mm on request.		

Optional extras for shaft operator WA 500 FU with control 560			Article no.	€	
Secured release (from inside) ²⁾	WA 500 FU	For flanging or with chain box	Surcharge	637025	131
	WA 500 M-FU	For central mounting, included as standard (emergency hand chain not available)		–	–
Lockable release for outside ASE, for outside operation, incl. Bowden cable Note: Only in conjunction with secured release from the inside (article no. 637025)		³⁾	Surcharge	637733	165
CAT adapter box Required for shortening the network cable (connection cable between operator and control), wiring tool required (article no. 4514028)				4514011	27
Wiring tool for CAT adapter box (can be reused several times)				4514028	118
Battery unit for control 545 / 560, incl. batteries To buffer the time and date of the control if it is not supplied with mains voltage for longer than 60 hours.				4514027	21
Widescan (intelligent command unit and to secure the door) Note: • If the door width is wider than the mounting height, then another widescan is required to secure the door.				4981575	1121
Widescan holder (galvanized steel)			Each	4982364	95
HCP-Hub 4 (required when more than 2 HCP bus participants are needed)				4510206	83
Operator with increased on-time ED+ (+ 5 cycles/hour)			Surcharge	637030	215
Double housing for closing edge safety device for extremely wet areas, IP 66 (powerful jet-water protected)			Surcharge	637055	593
Double housing for control for extremely wet areas, IP 66 (powerful jet-water protected)				637035	450
Extension housing for industrial door controls (semi-housing)				637014	68
Fitting struts to fasten the control / extension housing to the door frame				637696	30
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug			Surcharge	637105	70
Mains lead 1 m with CEE plug (230 V) for separate main switch				4514249	50
Lockable control with profile half cylinder			Surcharge	637100	70
Wicket door contact			Surcharge	637110	82
Limit switch for night lock				637016	54

Optional extras for shaft operator WA 500 FU with control 560	Article no.	€
Multi-function circuit board with 2 relays (programmable)	637026	107
Circuit board for limit switch reporting with 2 relays (only in conjunction with a multi-function circuit board, traffic control or central control)	637028	58
Circuit board for limit switch reporting with 2 relays and fuse (only in combination with multi-function circuit board, traffic control or central control)	637052	76
Circuit board for central control	637243	112
Activating kit for door leaf (SKS), max. assembly height 35 mm	637186	415

Photocells / light grilles / radio activating kit	Article no.	€
Weather protective covers for photocells see page 135.		
Extension set for leading photocell VL 1-LE, incl. floor slides Note: Not in conjunction with track applications L / LD with swivel mechanism. VL 2-LE must be selected for these track applications.	637108	–
Extension set for leading photocell VL 2-LE, incl. floor slides; compulsory for doors with wicket door without threshold rail	637107	173
Extension set for Hörmann light grille HLG as safety equipment for the main closing edge in the door level (integrated into the door frame) Note: Not in conjunction with RC 2!	636938	681
Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door without threshold rail	636867	1848
Radio activating kit extension set (omission of coiled cable) Note: Only available in combination with optosensors as standard, 637107, 637108, 636938 or 637201 can be selected.	636838	247
One-way photocell EL 51 (for fitting to top of industrial frames), sturdy bracket	635340	167
One-way photocell EL 51 (for fitting to bottom of industrial frames)	635341	167
One-way photocell EL 61 for extremely wet areas, IP 67 (powerful jet-water protected)	637222	568
One-way photocell EL 301 for floor fitting (for use in interiors and exteriors)	436313	118
One-way photocell EL 401 (frame bottom prepared at the factory for fitting) Note: Not in conjunction with RC 2, VL-LE or HLG!	437922	71
Reflection photocell* RL 50, for door widths from 500 – 8000 mm, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)	635344	195
Reflector for photocell RL 50, for door widths from 8000 mm to 12000 mm	638163	13
Reflection photocell * RL 52 as a command unit (for use in dry interiors)	637084	202
Reflection photocell* RL 300, industrial floor fitting (for use in dry interiors)	635022	195
Reflection photocell * RL 300, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)	436717	195
Light grille HLG 550 for 67 series doors as trap guard Observe the information regarding the trap guard on page 7 of this price list!	636941	702

*** Note:**

Reflective objects, e.g. Reflective strips on clothing or vehicles, might not be recognised by the reflection photocell.

Overview of combination options for optical safety equipment	See page 138
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Activating kits for warning lights	Article no.	€
Activating kit for warning lights with multi-function circuit board and 2 yellow LED traffic lights, without extension housing	637530	328
Activating kit for warning lights, traffic control with 2 LED traffic lights, without extension housing	637731	475
	638955	475

Further optional extras (photocell / light grille required)	Article no.	€
Summer / winter operation activating kit with function report	637036	404

Safety contact strip 8k2 (not possible for doors with wicket doors without threshold rail!)	Article no.	€
Safety contact end unit 8k2, protection category IP 67 (LZ + 40 mm)	637201	128
Pre-assembly of 8k2 end unit, left connection, 0.5 m connecting lead	637206	196
Pre-assembly of 8k2 end unit, right connection, 0.5 m connecting lead	637204	196
Pre-assembly of 8k2 end unit, left connection, 2.5 m connecting lead	637207	196
Pre-assembly of 8k2 end unit, right connection, 2.5 m connecting lead	637205	196

Additional accessories	See pages 122 – 136
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- | | |
|--|---|
| 1) Use of WA 500 M only after technical inspection | 7) Not in conjunction with VL 1-LE / VL 2-LE |
| 2) We recommend the emergency operation stated on page 88 | 8) Not in conjunction with light grille |
| 3) Exterior handle recommended | 9) Not for sectional doors: |
| 4) Not in conjunction with one-way photocells | - With RM < 3125 mm (track application L and track application N) |
| 5) Not suitable for doors with wicket doors without threshold rail | - With RM ≤ 2500 mm (track application V) |
| 6) Not suitable for wash hall doors | - With RM < 2625 mm (track application H) |

Notes:

- Please note the technical manual! Retrofitting of operators and controls on existing door systems on request.
- When you order a sectional door with operator, the safety catch is omitted with the sectional door as the operator takes over the function of the securing load carrier. This is why the door must be fitted with an operator in all cases. It is not secured against falling as a manually operated door.

Direct drive operators S 75 / S 140

Control 445 R

Operator	Control	Function
- Ready-to-fit direct drive operator with cable slack devices and integral catch safety device - Power input: 3-phase current: 1.1 kW - Protection category IP 65 (jet-water protected) - Electronic absolute encoder (AWG) for determining the door position	- Microprocessor control in separate housing, with Open-Stop-Close membrane push button integrated in housing, miniature lock - Protection category IP 65 (jet-water protected) - Self-monitoring closing edge safety device (SKS) via leading photocell VL 1-LE including protective covers - Connection cable with CEE plug in protection category IP 44 (splash-water protected) - Fitting of the control immediately next to the sectional door, plug-in door leaf sensors - Including lintel trap guard EZS 1 - Including radio transmission (omission of coiled cable) - Dimensions (W × H): 195 × 310 mm	- Opening with impulse - Closing with impulse

Direct drive operator S 75 / S 140 / S 17.24 / S 35.30				
Control	Operator	Fastening options	Article no.	€
Control 445 R 400 volt 3-phase current	S 75	Direct drive operator, with emergency hand chain, protection category IP 65 Max. 7 door cycles per hour	635228	5129
	S 140	Direct drive operator, with emergency hand chain, protection category IP 65 Max. 5 door cycles per hour	635232	6835

Optional extras for direct drive operators with 445 R control			Article no.	€
Extension housing for industrial door controls (semi-housing)			637014	68
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug		Surcharge	637105	70
Mains lead 1 m with CEE plug (A control 400 V) for separate main switch			638094	54
Lockable control with profile half cylinder		Surcharge	637100	70
Limit switch for night lock			637016	54
Multi-function circuit board with 2 relays (programmable)			637026	107
Circuit board for limit switch reporting with 2 relays (only in conjunction with a multi-function circuit board or central control)			637028	58
Circuit board for limit switch reporting with 2 relays and fuse (only in combination with multi-function circuit board, traffic control or central control)			637052	76
Wicket door contact		Surcharge	637110	82
Activating kit for warning lights ZS 360 / 400 with multi-function circuit board and 2 yellow LED traffic lights, without extension housing			637530	328
Double housing for control for extremely wet areas, IP 66 (powerful jet-water protected)			637035	450
Switch cable extension for the emergency release			2 × 4000 mm	22
			2 × 10000 mm	27

Photocells / light grilles / radio activating kit			Article no.	€
Weather protective covers for photocells see page 135.				
Extension set for leading photocell VL 2-LE, incl. floor slides; compulsory for doors with wicket door without threshold rail	1)	Surcharge	637107	173
Reflection photocell * RL 50 for door widths 500 – 8000 mm (for use in dry interiors)			637086	195
Reflection photocell* RL 50, for door widths from 500 – 8000 mm, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)			635344	195
Reflector for photocell RL 50, for door widths from 8000 mm to 12000 mm			638163	13
Reflection photocell * RL 52 as a command unit (for use in dry interiors)			637084	202
Light grille HLG 550 for 67 series doors as trap guard		Surcharge	636941	702
Observe the information regarding the trap guard on page 7 of this price list!				

* Note:

Reflective objects, e.g. Reflective strips on clothing or vehicles, might not be recognised by the reflection photocell.

Overview of combination options for optical safety equipment	See page 138
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Additional accessories

See pages 122 – 136

- 1) Not in conjunction with light grille
- 2) Not suitable for doors with wicket doors without threshold rail
- 3) Not in conjunction with one-way photocells
- 4) Not suitable for wash hall doors
- 5) Not in conjunction with VL 1-LE / VL 2-LE
- 6) Not for doors ≤ 2500 mm RM
- 7) Not in conjunction with light grille

Direct drive operators S 75 / S 140

Control 460 R

Operator	Control	Function
- Ready-to-fit direct drive operator with cable slack devices and integral catch safety device - Power input: – 3-phase current: 1.1 kW - Protection category IP 65 (jet-water protected) - Electronic absolute encoder (AWG) for determining the door position	- Microprocessor control in separate housing with integrated Open-1/2 / Open-Stop-Close membrane push button, miniature lock - Protection category IP 65 (jet-water protected) - Self-monitoring closing edge safety device (SKS) via leading photocell VL 1-LE including protective covers - Connection cable with CEE plug in protection category IP 44 (splash-water protected) - Fitting of the control immediately next to the sectional door, plug-in door leaf sensors - Including lintel trap guard EZS 1 - Including radio transmission (omission of coiled cable) - Dimensions (W × H): 195 × 310 mm	- Opening with impulse - Closing with impulse - Any second opening height (1/2 / Open) - Automatic timer - Prepared for traffic control (only in conjunction with activating kit for warning lights)

Direct drive operator S 75 / S 140 / S 17.24 / S 35.30				
Control	Operator	Fastening options	Article no.	€
Control 460 R 400 volt 3-phase current	S 75	Direct drive operator, with emergency hand chain, protection category IP 65 Max. 7 door cycles per hour	635230	5560
	S 140	Direct drive operator, with emergency hand chain, protection category IP 65 Max. 5 door cycles per hour	635234	7268

Optional extras for direct drive operators with control 460 R			Article no.	€
Extension housing for industrial door controls (semi-housing)			637014	68
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug		Surcharge	637105	70
Mains lead 1 m with CEE plug (A control 400 V) for separate main switch			638094	54
Lockable control with profile half cylinder		Surcharge	637100	70
Limit switch for night lock			637016	54
Multi-function circuit board with 2 relays (programmable)			637026	107
Circuit board for limit switch reporting with 2 relays (only in conjunction with a multi-function circuit board, traffic control or central control)			637028	58
Circuit board for limit switch reporting with 2 relays and fuse (only in combination with multi-function circuit board, traffic control or central control)			637052	76
Circuit board for central control / smoke detector device (RWA)			637243	112
Wicket door contact		Surcharge	637110	82
Double housing for control for extremely wet areas, IP 66 (powerful jet-water protected)			637035	450
Switch cable extension for the emergency release			2 × 4000 mm	22
			2 × 10000 mm	27

Photocells / light grilles / radio activating kit			Article no.	€
Weather protective covers for photocells see page 135.				
Extension set for leading photocell VL 2-LE, incl. floor slides; compulsory for doors with wicket door without threshold rail	1)	Surcharge	637107	173
Reflection photocell * RL 50 for door widths 500 – 8000 mm (for use in dry interiors)			637086	195
Reflection photocell* RL 50, for door widths from 500 – 8000 mm, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)			635344	195
Reflector for photocell RL 50, for door widths from 8000 mm to 12000 mm			638163	13
Reflection photocell * RL 52 as a command unit (for use in dry interiors)			637084	202
Light grille HLG 550 for 67 series doors as trap guard		Surcharge	636941	702
Observe the information regarding the trap guard on page 7 of this price list!				

* Note:

Reflective objects, e.g. Reflective strips on clothing or vehicles, might not be recognised by the reflection photocell.

Overview of combination options for optical safety equipment

See page 138

Activating kit for warning lights (photocell / light grille required)		Article no.	€
Activating kit for warning lights ZS 360 / 400 with multi-function circuit board and 2 yellow LED traffic lights, without extension housing		637530	328
Activating kit for warning lights ZS 400 with 2 yellow LED traffic lights and weekly timer ZSU 2, with extension housing		637531	536
Activating kit for warning lights MP 400 traffic control with 2 LED traffic lights, with extension housing	2-arm red / green (230 V / 50 Hz)	637532	621
	1-arm red / green (24 V DC)	638957	621
Activating kit for warning lights MP 400 traffic control with 2 LED traffic lights and weekly timer ZSU 2, with extension housing	2-arm red / green (230 V / 50 Hz)	637533	803
	1-arm red / green (24 V DC)	638958	803

Further optional extras (photocell / light grille required)		Article no.	€
Summer / winter operation activating kit with function report		637036	404

Additional accessories	See pages 122 – 136
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- 1) Not in conjunction with light grille
- 2) Not suitable for doors with wicket doors without threshold rail
- 3) Not in conjunction with one-way photocells
- 4) Not suitable for wash hall doors
- 5) Not in conjunction with VL 1-LE / VL 2-LE
- 6) Not for doors ≤ 2500 mm RM
- 7) Not in conjunction with light grille

Chain drive operator ITO 400

Control A 445

Operator	Control	Function
- Ready-to-fit chain drive operator - For track applications N, ND, L, LD - Max. door height 4500 mm - With emergency release operated from the inside - Power input: 0.37 kW - Protection category IP 65 (jet-water protected) - Electronic absolute encoder (AWG) for determining the door position - Doors with wicket door on request	- Microprocessor control in separate housing, with Open-Stop-Close membrane push button integrated in housing, miniature lock - Adjustable power limit - Protection category IP 65 (jet-water protected) - Self-monitoring closing edge safety device (SKS) with optosensors - Connection cable with CEE plug in protection category IP 44 (splash-water protected) - Fitting of the control immediately next to the sectional door, plug-in door leaf sensors - Dimensions (W × H): 195 × 310 mm	- Opening with impulse - Closing with impulse

We recommend using a 400 volt 3-phase unit due to its longer on-time and smoother running.

ITO 400 chain drive operator with emergency release operated from the inside				
Control	Track length (permanently defined)	Distance back for operator	Normal and low headroom track application Article no.	€
Control A 445 with 400 volt 3-phase current (with SKS, S3 – 40 % ED)	Up to 2475 mm door height	3850 mm	635050	1693
	Up to 3475 mm door height	4850 mm	635051	1840
	Up to 4475 mm door height	5850 mm	635052	1976

Surcharges for emergency operation	Article no.	€
Secured release for interior operation 10)	Surcharge 637025	131
Lockable release for outside ASE, for outside operation, incl. Bowden cable (only in combination with secured release, article no. 637025) 10)	Surcharge 637733	165

Optional extras for chain drive operator ITO 400 with control A 445	Article no.	€
Omission of the closing edge safety device 5) 6) 8) 9)	637149	–
Emergency release from outside for ITO 400 – only in conjunction with door lock for outside and inside operation	637050	115
Special track length (consider the basic price for the next largest door height)	Surcharge 637115	220
Adjustable suspension for boom (257 – 1516 mm)	636945	73
Operator with increased on-time ED+ (+ 5 cycles/hour)	Surcharge 637030	215
Double housing for closing edge safety device for extremely wet areas, protection category IP 66 (powerful jet-water protected)	Surcharge 637055	593
Double housing for control for extremely wet areas, protection category IP 66 (powerful jet-water protected)	637035	450
Extension housing for industrial door controls (semi-housing)	637014	68
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug	Surcharge 637105	70
Mains lead 1 m with CEE plug (A control 400 V) for separate main switch	638094	54
Lockable control with profile half cylinder	Surcharge 637100	70
Wicket door contact	Surcharge 637110	82
Limit switch for night lock	637016	54
Multi-function circuit board with 2 relays (programmable)	637026	107
Circuit board for limit switch reporting with 2 relays (only in conjunction with a multi-function circuit board or central control)	637028	58
Circuit board for limit switch reporting with 2 relays and fuse (only in combination with multi-function circuit board, traffic control or central control)	637052	76
Activating kit for warning lights ZS 360 / 400 with multi-function circuit board and 2 yellow LED traffic lights, without extension housing	637530	328

Photocells / light grilles / radio activating kit			Article no.	€
Weather protective covers for photocells see page 135.				
Extension set for leading photocell VL 1-LE, incl. floor slides				
Note: Not in conjunction with track applications L / LD with swivel mechanism. VL 2-LE must be selected for these track applications.	2) 3) 6)		637108	–
Extension set for leading photocell VL 2-LE, incl. floor slides; compulsory for doors with wicket door without threshold rail	2) 6)	Surcharge	637107	173
Extension set for Hörmann light grille HLG as safety equipment for the main closing edge in the door level (integrated into the door frame) Note: Not in conjunction with RC 2!	2) 3) 4) 5) 7)	Surcharge	636938	681
Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door without threshold rail	1) 4) 5) 6) 7) 8)	Surcharge	636867	1848
Radio activating kit extension set (omission of coiled cable) Note: Only available in combination with optosensors as standard, 637107, 637108, 636938 or 637201 can be selected.		Surcharge	636838	247
One-way photocell EL 51 (for use in interiors and exteriors)	6)		637023	167
One-way photocell EL 51 (for fitting to top of industrial frames), sturdy bracket	6)		635340	167
One-way photocell EL 51 (for fitting to bottom of industrial frames)	6)		635341	167
One-way photocell EL 61 for extremely wet areas, IP 67 (powerful jet-water protected)	6)		637222	568
Reflection photocell * RL 50 for door widths 500 – 8000 mm (for use in dry interiors)			637086	195
Reflection photocell * RL 50, for door widths from 500 – 8000 mm, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)			635344	195
Reflector for photocell RL 50, for door widths from 8000 mm to 12000 mm			638163	13
Reflection photocell * RL 52 as a command unit (for use in dry interiors)			637084	202
Light grille HLG 550 for 67 series doors as trap guard Observe the information regarding the trap guard on page 7 of this price list!		Surcharge	636941	702
* Note: Reflective objects, e.g. Reflective strips on clothing or vehicles, might not be recognised by the reflection photocell.				

Overview of combination options for optical safety equipment	See page 138
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Safety contact strip 8k2 (Not possible in doors with wicket door without threshold rail!)			Article no.	€
Safety contact end unit 8k2, protection category IP 67 (LZ + 40 mm)	2) 5) 6)	Per m	637201	128
Pre-assembly of 8k2 end unit, left connection, 0.5 m connecting lead			637206	196
Pre-assembly of 8k2 end unit, right connection, 0.5 m connecting lead			637204	196
Pre-assembly of 8k2 end unit, left connection, 2.5 m connecting lead			637207	196
Pre-assembly of 8K2 end unit, right connection, 2.5 m connecting lead			637205	196

Additional accessories	See pages 122 – 136
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- | | |
|--|---|
| 1) Not in conjunction with one-way photocells | 7) Not for sectional doors: |
| 2) Not if closing edge safety device is omitted (article no. 637149) | - With RM < 3125 mm (track application L and track application N) |
| 3) Not suitable for doors with wicket doors without threshold rail | - With RM ≤ 2500 mm (track application V) |
| 4) Not suitable for wash hall doors | - With RM < 2625 mm (track application H) |
| 5) Not in conjunction with VL 1-LE / VL 2-LE | 8) Not in combination with safety contact strip 8k2 |
| 6) Not in conjunction with light grille | 9) Not suitable for doors with wicket door |
| | 10) Exterior handle recommended |

Notes:	- Please note the technical manual! Retrofitting of operators and controls on existing door systems on request. - When you order a sectional door with operator, the safety catch is omitted with the sectional door as the operator takes over the function of the securing load carrier. This is why the door must be fitted with an operator in all cases. It is not secured against falling as a manually operated door.
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Chain drive operator ITO 400

Control A 460

Operator	Control	Function
- Ready-to-fit chain drive operator - For track applications N, ND, L, LD - Max. door height 4500 mm - With emergency release operated from the inside - Power input: 0.37 kW - Protection category IP 65 (jet-water protected) - Electronic absolute encoder (AWG) for determining the door position - Doors with wicket door on request	- Microprocessor control in separate housing with integrated Open-1/2 / Open-Stop-Close membrane push button, miniature lock - Adjustable power limit - Protection category IP 65 (jet-water protected) - Self-monitoring closing edge safety device (SKS) with optosensors - Connection cable with CEE plug in protection category IP 44 (splash-water protected) - Fitting of the control immediately next to the sectional door, plug-in door leaf sensors - Dimensions (W × H): 195 × 310 mm	- Opening with impulse - Closing with impulse - Any second opening height (1/2 / Open) - Automatic timer (only in conjunction with activating kit for warning lights and photocell / light grille or VL 1-LE / VL 2-LE) - Prepared for traffic control (only in conjunction with activating kit for warning lights and photocell / light grille or VL 1-LE / VL 2-LE)

We recommend using a 400 volt 3-phase unit due to its longer on-time and smoother running.

ITO 400 chain drive operator with emergency release operated from the inside				
Control	Track length (permanently defined)	Distance back for operator	Normal and low headroom track application Article no.	€
Control A 460 with 400 volt 3-phase current (with SKS, S3 – 40 % ED)	Up to 2475 mm door height	3850 mm	635060	2146
	Up to 3475 mm door height	4850 mm	635061	2284
	Up to 4475 mm door height	5850 mm	635062	2428

Surcharges for emergency operation	Article no.	€
Secured release for interior operation 7)	Surcharge 637025	131
Lockable release for outside ASE, for outside operation, incl. Bowden cable (only in combination with secured release, article no. 637025) 7)	Surcharge 637733	165

Optional extras for chain drive operator ITO 400 with control A 460	Article no.	€
Emergency release from outside for ITO 400 – only in conjunction with door lock for exterior and interior operation	637050	115
Special track length (consider the basic price for the next largest door height) Surcharge	637115	220
Adjustable suspension for boom (257 – 1516 mm)	636945	73
Operator with increased on-time ED+ (+ 5 cycles/hour) Surcharge	637030	215
Double housing for closing edge safety device for extremely wet areas, protection category IP 66 (powerful jet-water protected) Surcharge	637055	593
Double housing for control for extremely wet areas, protection category IP 66 (powerful jet-water protected)	637035	450
Extension housing for industrial door controls (semi-housing)	637014	68
Fitting struts to fasten the control / extension housing to the door frame	637696	30
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug Surcharge	637105	70
Mains lead 1 m with CEE plug (A control 400 V) for separate main switch	638094	54
Lockable control with profile half cylinder Surcharge	637100	70
Wicket door contact Surcharge	637110	82
Limit switch for night lock	637016	54
Multi-function circuit board with 2 relays (programmable)	637026	107
Circuit board for limit switch reporting with 2 relays (only in conjunction with a multi-function circuit board, traffic control or central control)	637028	58
Circuit board for limit switch reporting with 2 relays and fuse (only in combination with multi-function circuit board, traffic control or central control)	637052	76
Circuit board for central control / smoke detector device (RWA)	637243	112

Notes:	- Please note the technical manual! Retrofitting of operators and controls on existing door systems on request. - When you order a sectional door with operator, the safety catch is omitted with the sectional door as the operator takes over the function of the securing load carrier. This is why the door must be fitted with an operator in all cases. It is not secured against falling as a manually operated door.
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Photocells / light grilles / radio activating kit			Article no.	€
Weather protective covers for photocells see page 135.				
Extension set for leading photocell VL 1-LE, incl. floor slides				
Note: Not in conjunction with track applications L/LD with swivel mechanism. VL 2-LE must be selected for these track applications.	2) 5)		637108	–
Extension set for leading photocell VL 2-LE, incl. floor slides; compulsory for doors with wicket door without threshold rail	5)	Surcharge	637107	173
Extension set for Hörmann light grille HLG as safety equipment for the main closing edge in the door level (integrated into the door frame) Note: Not in conjunction with RC 2!	2) 3) 4) 6)	Surcharge	636938	681
Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door without threshold rail	1) 3) 4) 5) 6)	Surcharge	636867	1848
Radio activating kit extension set (omission of coiled cable) Note: Only available in combination with optosensors as standard, 637107, 637108, 636938 or 637201 can be selected.		Surcharge	636838	247
One-way photocell EL 51 (for use in interiors and exteriors)	5)		637023	167
One-way photocell EL 51 (for fitting to top of industrial frames), sturdy bracket	5)		635340	167
One-way photocell EL 51 (for fitting to bottom of industrial frames)	5)		635341	167
One-way photocell EL 61 for extremely wet areas, IP 67 (powerful jet-water protected)	5)		637222	568
Reflection photocell * RL 50 for door widths 500 – 8000 mm (for use in dry interiors)			637086	195
Reflection photocell * RL 50, for door widths from 500 – 8000 mm, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)			635344	195
Reflector for photocell RL 50, for door widths from 8000 mm to 12000 mm			638163	13
Reflection photocell * RL 52 as a command unit (for use in dry interiors)			637084	202
Light grille HLG 550 for 67 series doors as trap guard Observe the information regarding the trap guard on page 7 of this price list!		Surcharge	636941	702

*** Note:**

Reflective objects, e.g. Reflective strips on clothing or vehicles, might not be recognised by the reflection photocell.

Overview of combination options for optical safety equipment	See page 138
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Activating kit for warning lights (photocell / light grille required)		Article no.	€
Activating kit for warning lights ZS 360 / 400 with multi-function circuit board and 2 yellow LED traffic lights, without extension housing		637530	328
Activating kit for warning lights ZS 400 with 2 yellow LED traffic lights and weekly timer ZSU 2, with extension housing		637531	536
Activating kit for warning lights MP 400 traffic control with 2 LED traffic lights, with extension housing	2-arm red / green (230 V / 50 Hz)	637532	621
	1-arm red / green (24 V DC)	638957	621
Activating kit for warning lights MP 400 traffic control with 2 LED traffic lights and weekly timer ZSU 2, with extension housing	2-arm red / green (230 V / 50 Hz)	637533	803
	1-arm red / green (24 V DC)	638958	803

Further optional extras (photocell / light grille required)		Article no.	€
Summer / winter operation activating kit with function report		637036	404

Safety contact strip 8k2 (Not possible in doors with wicket door without threshold rail!)			Article no.	€
Safety contact end unit 8k2, protection category IP 67 (LZ + 40 mm)	4) 5)	Per m	637201	128
Pre-assembly of 8k2 end unit, left connection, 0.5 m connecting lead			637206	196
Pre-assembly of 8k2 end unit, right connection, 0.5 m connecting lead			637204	196
Pre-assembly of 8k2 end unit, left connection, 2.5 m connecting lead			637207	196
Pre-assembly of 8K2 end unit, right connection, 2.5 m connecting lead			637205	196

Additional accessories	See pages 122 – 136
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- | | |
|--|---|
| 1) Not in conjunction with one-way photocells | 6) Not for sectional doors: |
| 2) Not suitable for doors with wicket doors without threshold rail | - With RM < 3125 mm (track application L and track application N) |
| 3) Not suitable for wash hall doors | - With RM ≤ 2500 mm (track application V) |
| 4) Not in conjunction with VL 1-LE / VL 2-LE | - With RM < 2625 mm (track application H) |
| 5) Not in conjunction with light grille | 7) Exterior handle recommended |

Chain drive operator ITO 500 FU



Control 545 with soft start and soft stop

Operator	Control	Function
- Ready-to-fit chain drive operator - For track applications N, ND, L, LD - Max. door height 4500 mm - With emergency release operated from the inside - Power input: 1-phase current: 0.72 kW - Protection category IP 65 (jet-water protected) - Electronic absolute encoder (AWG) for determining the door position - Door travel speed up to 0.3 m/s - Standby approx. 1 W - Doors with wicket door on request	- Microprocessor control in separate housing, with Open-Stop-Close membrane push button integrated in housing, miniature lock - Adjustable power limit - Protection category IP 65 (jet-water protected) - Self-monitoring closing edge safety device (SKS) with optosensors - Bluetooth for BlueControl as standard - Energy saving mode (standby approx. 1 W) - Connection cable with CEE plug in protection category IP 44 (splash-water protected) - Fitting of the control immediately next to the sectional door, plug-in door leaf sensors - Dimensions (W × H): 195 × 310 mm	- Soft open with impulse - Soft close with impulse - High-speed when opening - Fire station speed possible - Automatic timer (only in conjunction with activating kit for warning lights and photocell / light grille or VL 1-LE / VL 2-LE)

Chain drive operator ITO 500 FU with emergency release operated from the inside				
Control	Track length (permanently defined)	Distance back for operator	Normal and low headroom track application	
			Article no.	€
Control 545 230 V 1-phase current (with SKS, max. 25 door cycles/hour)	Up to 2475 mm door height	3850 mm	4514492	2382
	Up to 3475 mm door height	4850 mm	4514493	2523
	Up to 4475 mm door height	5850 mm	4514494	2665

Surcharges for emergency operation			Article no.	€
Secured release for interior operation	7	Surcharge	637025	131
Lockable release for outside ASE, for outside operation, incl. Bowden cable (only in combination with secured release, article no. 637025)	7	Surcharge	637733	165

Optional extras for chain drive operator ITO 500 FU with control 545		Article no.	€
Emergency release from outside for ITO 500 – only in conjunction with door lock for exterior and interior operation		637050	115
Special track length (consider the basic price for the next largest door height)	Surcharge	637115	220
Adjustable suspension for boom (257 – 1516 mm)		636945	73
CAT adapter box Required for shortening the network cable (connection cable between operator and control), wiring tool required (article no. 4514028)		4514011	27
Wiring tool for CAT adapter box (can be reused several times)		4514028	118
Battery unit for control 545 / 560, incl. batteries To buffer the time and date of the control if it is not supplied with mains voltage for longer than 60 hours.		4514027	21
Widescan (intelligent command unit and to secure the door) Notes: • No partial opening function possible in combination with control 545! • If the door width is wider than the mounting height, then another widescan is required to secure the door.		4981575	1121
Widescan holder (galvanized steel)	Each	4982364	95
HCP-Hub 4 (required when more than 1 HCP bus participant is needed)		4510206	83
Operator with increased on-time ED+ (+ 5 cycles/hour)	Surcharge	637030	215
Double housing for closing edge safety device for extremely wet areas, protection category IP 66 (powerful jet-water protected)	Surcharge	637055	593
Double housing for control for extremely wet areas, protection category IP 66 (powerful jet-water protected)		637035	450
Extension housing for industrial door controls (semi-housing)		637014	68
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug	Surcharge	637105	70
Mains lead 1 m with CEE plug (230 V) for separate main switch		4514249	50
Lockable control with profile half cylinder	Surcharge	637100	70
Wicket door contact	Surcharge	637110	82
Limit switch for night lock		637016	54
Multi-function circuit board with 2 relays (programmable)		637026	107
Circuit board for limit switch reporting with 2 relays (only in conjunction with a multi-function circuit board, traffic control or central control)		637028	58

Optional extras for chain drive operator ITO 500 FU with control 545	Article no.	€
Circuit board for limit switch reporting with 2 relays and fuse (only in combination with multi-function circuit board, traffic control or central control)	637052	76
Circuit board for central control	637243	112

Photocells / light grilles / radio activating kit	Article no.	€
Weather protective covers for photocells see page 135.		
Extension set for leading photocell VL 1-LE, incl. floor slides Note: Not in conjunction with track applications L / LD with swivel mechanism. VL 2-LE must be selected for these track applications.	2) 5) 637108	–
Extension set for leading photocell VL 2-LE, incl. floor slides; compulsory for doors with wicket door without threshold rail	5) Surcharge 637107	173
Extension set for Hörmann light grille HLG as safety equipment for the main closing edge in the door level (integrated into the door frame) Note: Not in conjunction with RC 2!	2) 3) 4) 6) Surcharge 636938	681
Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door without threshold rail	1) 3) 4) 5) 6) Surcharge 636867	1848
Radio activating kit extension set (omission of coiled cable) Note: Only available in combination with optosensors as standard, 637107, 637108, 636938 or 637201 can be selected.	Surcharge 636838	247
One-way photocell EL 51 (for fitting to top of industrial frames), sturdy bracket	5) 635340	167
One-way photocell EL 51 (for fitting to bottom of industrial frames)	5) 635341	167
One-way photocell EL 61 for extremely wet areas, IP 67 (powerful jet-water protected)	5) 637222	568
One-way photocell EL 301 for floor fitting (for use in interiors and exteriors)	4) 436313	118
One-way photocell EL 401 (frame bottom prepared at the factory for fitting) Note: Not in conjunction with RC 2, VL-LE or HLG!	437922	71
Reflection photocell * RL 50, for door widths from 500 – 8000 mm, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)	635344	195
Reflector for photocell RL 50, for door widths from 8000 mm to 12000 mm	638163	13
Reflection photocell * RL 52 as a command unit (for use in dry interiors)	637084	202
Reflection photocell * RL 300, industrial floor fitting (for use in dry interiors)	635022	195
Reflection photocell * RL 300, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)	436717	195
Light grille HLG 550 for 67 series doors as trap guard Observe the information regarding the trap guard on page 7 of this price list!	Surcharge 636941	702

*** Note:**

Reflective objects, e.g. Reflective strips on clothing or vehicles, might not be recognised by the reflection photocell.

Overview of combination options for optical safety equipment	See page 138
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Activating kit for warning lights (photocell / light grille required)	Article no.	€
Activating kit for warning lights ZS 360 / 400 with multi-function circuit board and 2 yellow LED traffic lights, without extension housing	637530	328
Activating kit for warning lights ZS 400 with 2 yellow LED traffic lights and weekly timer ZSU 2, with extension housing	637531	536

Further optional extras (photocell / light grille required)	Article no.	€
Summer / winter operation activating kit with function report	637036	404

Safety contact strip 8k2 (Not possible in doors with wicket door without threshold rail!)	Article no.	€
Safety contact end unit 8k2, protection category IP 67 (LZ + 40 mm)	4) 5) Per m 637201	128
Pre-assembly of 8k2 end unit, left connection, 0.5 m connecting lead	637206	196
Pre-assembly of 8k2 end unit, right connection, 0.5 m connecting lead	637204	196
Pre-assembly of 8k2 end unit, left connection, 2.5 m connecting lead	637207	196
Pre-assembly of 8k2 end unit, right connection, 2.5 m connecting lead	637205	196

Additional accessories	See pages 122 – 136
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- | | |
|---|--|
| 1) Not in conjunction with one-way photocells
2) Not suitable for doors with wicket doors without threshold rail
3) Not suitable for wash hall doors
4) Not in conjunction with VL 1-LE / VL 2-LE
5) Not in conjunction with light grille | 6) Not for sectional doors:
- With RM < 3125 mm (track application L and track application N)
- With RM ≤ 2500 mm (track application V)
- With RM < 2625 mm (track application H)
7) Exterior handle recommended |
|---|--|

Notes:	- Please note the technical manual! Retrofitting of operators and controls on existing door systems on request. - When you order a sectional door with operator, the safety catch is omitted with the sectional door as the operator takes over the function of the securing load carrier. This is why the door must be fitted with an operator in all cases. It is not secured against falling as a manually operated door.
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Chain drive operator ITO 500 FU

Control 560 with soft start and soft stop

Door travel speed
Up to 0.5 m/s



Operator	Control	Function
- Ready-to-fit chain drive operator - For track applications N, ND, L, LD - Max. door height 4500 mm - With emergency release operated from the inside - Power input: 1-phase current: 0.72 kW - Protection category IP 65 (jet-water protected) - Electronic absolute encoder (AWG) for determining the door position - Door travel speed up to 0.5 m/s - Standby approx. 1 W - Doors with wicket door on request	- Microprocessor control in separate housing with integrated Open-1/2 / Open-Stop-Close membrane push button, miniature lock - Adjustable power limit - Protection category IP 65 (jet-water protected) - Self-monitoring closing edge safety device (SKS) with optosensors - Option relay as standard - Bluetooth for BlueControl as standard - Keypad illumination - Energy saving mode (standby approx. 1 W) - Connection cable with CEE plug in protection category IP 44 (splash-water protected) - Fitting of the control immediately next to the sectional door, plug-in door leaf sensors - Dimensions (W x H): 195 x 310 mm	- Soft open with impulse - Soft close with impulse - Any second opening height (1/2 / Open) - High-speed when opening - Fire station speed possible - Automatic timer (only in conjunction with activating kit for warning lights and photocell / light grille or VL 1-LE / VL 2-LE) - Prepared for traffic control (only in conjunction with activating kit for warning lights and photocell / light grille or VL 1-LE / VL 2-LE)

Chain drive operator ITO 500 FU with emergency release operated from the inside				
Control	Track length (permanently defined)	Distance back for operator	Normal and low headroom track application	
			Article no.	€
Control 560 230 V 1-phase current (with SKS, max. 25 door cycles/hour)	Up to 2475 mm door height	3850 mm	4514520	2783
	Up to 3475 mm door height	4850 mm	4514521	2924
	Up to 4475 mm door height	5850 mm	4514522	3066

Surcharges for emergency operation			Article no.	€
Secured release for interior operation	7	Surcharge	637025	131
Lockable release for outside ASE, for outside operation, incl. Bowden cable (only in combination with secured release, article no. 637025)	7	Surcharge	637733	165

Optional extras for chain drive operator ITO 500 FU with control 560		Article no.	€
Emergency release from outside for ITO 500 – only in conjunction with door lock for exterior and interior operation		637050	115
Special track length (consider the basic price for the next largest door height)	Surcharge	637115	220
Adjustable suspension for boom (257 – 1516 mm)		636945	73
CAT adapter box Required for shortening the network cable (connection cable between operator and control), wiring tool required (article no. 4514028)		4514011	27
Wiring tool for CAT adapter box (can be reused several times)		4514028	118
Battery unit for control 545 / 560, incl. batteries To buffer the time and date of the control if it is not supplied with mains voltage for longer than 60 hours.		4514027	21
Widescan (intelligent command unit and to secure the door) Note: • If the door width is wider than the mounting height, then another widescan is required to secure the door.		4981575	1121
Widescan holder (galvanized steel)	Each	4982364	95
HCP-Hub4 (required when more than 2 HCP bus participants are needed)		4510206	83
Operator with increased on-time ED+ (+ 5 cycles/hour)	Surcharge	637030	215
Double housing for closing edge safety device for extremely wet areas, protection category IP 66 (powerful jet-water protected)	Surcharge	637055	593
Double housing for control for extremely wet areas, protection category IP 66 (powerful jet-water protected)		637035	450
Extension housing for industrial door controls (semi-housing)		637014	68
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug	Surcharge	637105	70
Mains lead 1 m with CEE plug (230 V) for separate main switch		4514249	50
Lockable control with profile half cylinder	Surcharge	637100	70
Wicket door contact	Surcharge	637110	82
Limit switch for night lock		637016	54
Multi-function circuit board with 2 relays (programmable)		637026	107
Circuit board for limit switch reporting with 2 relays (only in conjunction with a multi-function circuit board, traffic control or central control)		637028	58
Circuit board for limit switch reporting with 2 relays and fuse (only in combination with multi-function circuit board, traffic control or central control)		637052	76
Circuit board for central control		637243	112

Photocells / light grilles / radio activating kit			Article no.	€
Weather protective covers for photocells see page 135.				
Extension set for leading photocell VL 1-LE, incl. floor slides Note: Not in conjunction with track applications L / LD with swivel mechanism. VL 2-LE must be selected for these track applications.	2) 5)		637108	–
Extension set for leading photocell VL 2-LE, incl. floor slides; compulsory for doors with wicket door without threshold rail	5)	Surcharge	637107	173
Extension set for Hörmann light grille HLG as safety equipment for the main closing edge in the door level (integrated into the door frame) Note: Not in conjunction with RC 2!	2) 3) 4) 6)	Surcharge	636938	681
Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door without threshold rail	1) 3) 4) 5) 6)	Surcharge	636867	1848
Radio activating kit extension set (omission of coiled cable) Note: Only available in combination with optosensors as standard, 637107, 637108, 636938 or 637201 can be selected.		Surcharge	636838	247
One-way photocell EL 51 (for fitting to top of industrial frames), sturdy bracket	5)		635340	167
One-way photocell EL 51 (for fitting to bottom of industrial frames)	5)		635341	167
One-way photocell EL 61 for extremely wet areas, IP 67 (powerful jet-water protected)	5)		637222	568
One-way photocell EL 301 for floor fitting (for use in interiors and exteriors)	4)		436313	118
One-way photocell EL 401 (frame bottom prepared at the factory for fitting) Note: Not in conjunction with RC 2, VL-LE or HLG!			437922	71
Reflection photocell* RL 50, for door widths from 500 – 8000 mm, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)			635344	195
Reflector for photocell RL 50, for door widths from 8000 mm to 12000 mm			638163	13
Reflection photocell * RL 52 as a command unit (for use in dry interiors)			637084	202
Reflection photocell * RL 300, industrial floor fitting (for use in dry interiors)			635022	195
Reflection photocell * RL 300, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)			436717	195
Light grille HLG 550 for 67 series doors as trap guard Observe the information regarding the trap guard on page 7 of this price list!		Surcharge	636941	702

*** Note:**

Reflective objects, e.g. Reflective strips on clothing or vehicles, might not be recognised by the reflection photocell.

Overview of combination options for optical safety equipment	See page 138
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Activating kit for warning lights (photocell / light grille required)	Article no.	€
Activating kit for warning lights ZS 360 / 400 with multi-function circuit board and 2 yellow LED traffic lights, without extension housing	637530	328
Activating kit for warning lights with 2 LED traffic lights, without extension housing	2-arm red / green (230 V / 50 Hz)	637731
	1-arm red / green (24 V DC)	638955

Further optional extras (photocell / light grille required)	Article no.	€
Summer / winter operation activating kit with function report	637036	404

Safety contact strip 8k2 (Not possible in doors with wicket door without threshold rail!)	Article no.	€
Safety contact end unit 8k2, protection category IP 67 (LZ + 40 mm)	4) 5) Per m	637201
Pre-assembly of 8k2 end unit, left connection, 0.5 m connecting lead		637206
Pre-assembly of 8k2 end unit, right connection, 0.5 m connecting lead		637204
Pre-assembly of 8k2 end unit, left connection, 2.5 m connecting lead		637207
Pre-assembly of 8K2 end unit, right connection, 2.5 m connecting lead		637205

Additional accessories	See pages 122 – 136
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- | | |
|--|---|
| 1) Not in conjunction with one-way photocells | 6) Not for sectional doors: |
| 2) Not suitable for doors with wicket doors without threshold rail | - With RM < 3125 mm (track application L and track application N) |
| 3) Not suitable for wash hall doors | - With RM ≤ 2500 mm (track application V) |
| 4) Not in conjunction with VL 1-LE / VL 2-LE | - With RM < 2625 mm (track application H) |
| 5) Not in conjunction with light grille | 7) Exterior handle recommended |

Notes:

- Please note the technical manual! Retrofitting of operators and controls on existing door systems on request.
- When you order a sectional door with operator, the safety catch is omitted with the sectional door as the operator takes over the function of the securing load carrier. This is why the door must be fitted with an operator in all cases. It is not secured against falling as a manually operated door.

Operator SupraMatic HT for industrial sectional doors

Series 3

With integrated control

Operator

- Use in dry areas
- For track applications N and L
- Doors with wicket door on request
- ALR F42 Glazing doors and real glass available on request
- Not for doors with a depth of 67 mm!

Number of parking spaces

- Max. 20 door cycles (Open / Close) per hour
- Max. 300 door cycles (Open / Close) per day

Operator data

- 24 V DC gear drive, mains voltage 230–240 V AC, 0.2 kW, pull and push force 1000 N, brief peak force 1200 N, maximum opening speed approx. 22 cm/s. Protection category: IP 20

Control electronics

- Microprocessor control, automatic teach-in of automatic safety cut-out and end-of-travel positions, adjustable soft start and soft stop, double 7-segment display, adjustable partial opening, adjustable automatic timer, hold-open phase 30–180 seconds after activation, impulse control

Boom FS 60

- Self-supporting steel guide with polyurethane toothed belt and steel wires, plastic slide carriage, return pulley with ball-bearing, operator disc with slide bearing, 1-part, completely pre-assembled

Standard equipment

- Quick release operated from the inside, connecting lead with CEE plug, second suspension for boom FS 60, anti-lift kit as safety equipment
- Universal installation bracket for up-and-over doors and sectional doors!

Housing

- Aluminium and plastic

Temperature range

- From –20°C to 60°C

Without radio remote control!
Accessories see from page 117.

Note:

The use of a fitting bracket is absolutely necessary! Installation of a photocell is required if the automatic timer is activated!

SupraMatic HT Series 3		Operator head SupraMatic HT series 3 With integrated control		Boom FS 60 (1-part)		Complete price SupraMatic HT series 3 with integrated control and FS 60
		Article no.	€	Article no.	€	
With short track K FS 60	Sectional doors with track application N up to 2125 mm height Total length 3200 mm, travel distance 2475 mm	4512301	606	435410	151	757
With medium track M FS 60	Sectional doors with track application N up to 2375 mm height Sectional doors with track application L up to 2125 mm height Total length 3450 mm, travel distance 2725 mm	4512301	606	435411	186	792
With long track S FS 60	Sectional doors with track application N up to 3000 mm height Sectional doors with track application L up to 2750 mm height Total length 4125 mm, travel distance 3400 mm	4512301	606	435412	253	859
With extra long track XL FS 60	Sectional doors with track application L up to 3000 mm height Total length 4375 mm, travel distance 3650 mm	4512301	606	439413	310	916

		Track length for track application L												[A] No. of door sections								
		Boom length for track application N												375 mm	500 mm	625 mm	750 mm					
Grid height	3000											S	XL	–	6	–	4					
	2875											S	XL	1 +	5	1 +	3					
	2750											S	S	2 +	4	2 +	2					
	2625											S	S	3 +	3	3 +	1					
	2500											S	S	–	5	4	–					
	2375											M	S	1 +	4	4*	–					
	2250											M	S	2 +	3	–	3					
	2125											K	M	3 +	2	1 +	2					
	2000											K	M	–	4	2 +	1					
1875											K	M	1 +	3	3	–						
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
		Grid width																				
		SupraMatic HT SupraMatic HT on request SupraMatic HT not possible																				

Note:

- Only for doors with 2 torsion springs with spring safety device!
- Please note the technical manual! Retrofitting of operators and controls on existing door systems on request.

Note:

- Only for doors with 2 torsion springs with spring safety device!
- Please note the technical manual! Retrofitting of operators and controls on existing door systems on request.

Special accessories

See page 117

Special accessories for operator SupraMatic HT for industrial sectional doors

Series 3

With integrated control

Short designation	Description		Article no.	€/each
Required accessories			Article no.	€
	Fitting bracket for sectional doors or doors of other makes *		639060	48
	For door section heights < 375 (shortened on-site) and door section heights < 580 mm			
	Fitting bracket for sectional doors or doors of other makes *		639071	52
	For door section heights ≥ 580 mm			
* Individual parts of the universal installation bracket will not be taken back.				
Closing edge safety devices			Article no.	€
	Closing edge safety device with optosensors, complete	Surcharge	637725	136
	Closing edge safety device with VL 1-LE-300, complete			
	Note: Not in conjunction with track applications L/LD with swivel mechanism. VL 2-LE must be selected for these track applications.	Surcharge	637726	136
	Closing edge safety device with VL 2-LE-300, complete; compulsory for doors with wicket doors without threshold rail (wicket door contact article 637110 required)	Surcharge	637727	277
Photocells			Article no.	€
Weather protective covers for photocells see page 135.				
EL 101	One-way photocell, with connecting lead 2 × 10 m, 2-wire, protection category IP 21, for use in dry interiors	1)	436294	70
EL 301	One-way photocell, with connecting lead 2 × 10 m, round cable 2-wire, protection category IP 65, for use in interiors and exteriors	1)	436233	115
RL 300	Reflection photocell * RL 300, industrial floor fitting (for use in dry interiors)	1)	635022	195
	Reflection photocell * RL 300, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)	1)	436717	195
Optional extras			Article no.	€
	Adjustable suspension for boom (257 – 1516 mm)		636945	73
	Wicket door contact (SKS or activating kit for door leaf, article no. 436263, required)	Surcharge	637110	82
AT 2	Activating kit for door leaf for closing edge safety device and wicket door contact		436263	103
	Roller limit switch for night lock if fitting without door leaf branch boxes (SKS)		637063	82
ZT 2	Pull switch (impulse, stop, with pull cord length of approx. 3200 mm, protection category IP 65)		637510	91
DT 02	Push button, Impulse / Stop (Adapter print PSA, article no. 437131, required)		639891	60
ZSU 2	Digital daily and weekly timer, protection category IP 20		637501	164
	Housing ZSU 2, protection category IP 65		436276	48
PSA	Adapter print for connection of Stop button of DT 02		437131	29
HOR 1	To control a warning light, garage light, protection category IP 44		437997	31
UAP 1	Universal adapter print for choosing direction (Open / Stop / Close) via external control elements and / or partial opening functions. Additional volt-free contacts for Open / Close limit switch reporting as well as an option relay		436295	78
ZL 1	Connecting lead, 3 × 0.75 mm², length 1.5 m, with safety plug (for extension units)		436127	9,50
NET 2	Emergency release for sectional doors (handle set required)		437183	37
NET 3	Emergency release for double-skinned sectional doors without handle set, release via locking cylinder, drill hole Ø 13 mm, cable length 1.5 m		437149	35
NET 13	Emergency release sleeve for door leaf thickness > 42 mm, length 100 mm, drill hole Ø 13 mm		439782	12,80
	Note: Emergency release NET 3 (article no. 437149) must be ordered separately.			

* Note:

Reflective objects, e.g. Reflective strips on clothing or vehicles, might not be recognised by the reflection photocell.

1) For two 2-wire photocells, a photocell expander is required (see additional accessories article no. 436380 or 639562)

Additional accessories

See pages 122 – 136

Overview of combination options for optical safety equipment

See page 138

Operator SupraMatic HT for industrial sectional doors

Series 3

With external control 360 in industrial control housing

Operator

- Use in dry areas
- For track applications N and L
- Doors with wicket door on request
- ALR F42 Glazing doors and real glass available on request
- Not for doors with a depth of 67 mm!

Number of parking spaces

- Max. 20 door cycles (Open/Close) per hour
- Max. 300 door cycles (Open/Close) per day

Operator data

- 24 V DC gear drive, mains voltage 230–240 V AC, 0.2 kW, pull and push force 1000 N, brief peak force 1200 N, maximum opening speed approx. 22 cm/s. Protection category: IP 20

Control

- Integrated microprocessor control in separate housing, with integrated Open-1/2 / Open-Stop-Close membrane push button and miniature lock

- Adjustable power limit
- Protection category IP 65 (jet-water protected)
- Connection cable with CEE plug IP 44 (splash-water protected)
- Control fitting directly next to the sectional door

Boom FS 60

- Self-supporting steel guide with polyurethane toothed belt and steel wires, plastic slide carriage, return pulley with ball-bearing, operator disc with slide bearing, 1-part, completely pre-assembled

Function

- Open and close with impulse
- Any second opening height 1/2 / Open
- Automatic timer (only in conjunction with activating kit for warning lights and photocell/light grille or VL 1-LE/VL 2-LE)

- Prepared for traffic control (only in conjunction with activating kit for warning lights and photocell/light grille or VL 1-LE/VL 2-LE)
- Soft start and soft stop

Standard equipment

- Quick release operated from the inside, connecting lead with CEE plug, second suspension for boom FS 60, anti-lift kit as safety equipment
- Universal installation bracket for up-and-over doors and sectional doors!

Housing

- Aluminium and plastic

Temperature range

- From –20°C to +60°C

Without radio remote control!
Accessories see page 119.

Note:

The use of a fitting bracket is absolutely necessary! Installation of a photocell is required if the automatic timer is activated!

SupraMatic HT Series 3		Operator head SupraMatic HT series 3 With external control 360		Boom FS 60 (1-part)		Complete price SupraMatic HT series 3 with external control 360 and FS 60
		Article no.	€	Article no.	€	
With short track K FS 60	Sectional doors with track application N up to 2125 mm height Total length 3200 mm, travel distance 2475 mm	636754	856	435410	151	1007
With medium track M FS 60	Sectional doors with track application N up to 2375 mm height Sectional doors with track application L up to 2125 mm height Total length 3450 mm, travel distance 2725 mm	636754	856	435411	186	1042
With long track S FS 60	Sectional doors with track application N up to 3000 mm height Sectional doors with track application L up to 2750 mm height Total length 4125 mm, travel distance 3400 mm	636754	856	435412	253	1109
With extra long track XL FS 60	Sectional doors with track application L up to 3000 mm height Total length 4375 mm, travel distance 3650 mm	636754	856	439413	310	1166

		Track length for track application L														[A] No. of door sections													
		Boom length for track application N														375 mm	500 mm	625 mm	750 mm										
Grid height	3000																S	XL	–	6	–	4							
	2875																S	XL	1	+	5	1	+	3					
	2750																S	S	2	+	4	2	+	2					
	2625																S	S	3	+	3	3	+	1					
	2500																S	S	–	5	4	–	–						
	2375																M	S	1	+	4	4*	–	–					
	2250																M	S	2	+	3	–	–	3					
	2125																K	M	3	+	2	1	+	2					
	2000																K	M	–	4	2	+	1	–					
1875																K	M	1	+	3	3	–	–						
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000							
		Grid width																											

- SupraMatic HT
- SupraMatic HT on request
- SupraMatic HT not possible

Notes:

- Only for doors with 2 torsion springs with spring safety device!
- Please note the technical manual! Retrofitting of operators and controls on existing door systems on request.
- In conjunction with SupraMatic HT, control 360 only provides a sum current of 300 mA for connecting accessories. An additional power unit may have to be ordered depending on the accessories. An overview of the power required by the accessories can be found in the dealer forum!

Accessories for operator SupraMatic HT for industrial sectional doors

Series 3

With external control 360 in industrial control housing

Required accessories		Article no.	€
Fitting bracket for sectional doors or doors of other makes *		639060	48
For door section heights < 375 (shortened on-site) and door section heights < 580 mm			
Fitting bracket for sectional doors or doors of other makes *		639071	52
For door section heights ≥ 580 mm			
* Individual parts of the universal installation bracket will not be taken back.			
Control elements		Article no.	€
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug	Surcharge	637105	70
Lockable control with profile half cylinder	Surcharge	637100	70
Mains lead 1.2 m with 230 V CEE plug, for controls with main switch		635486	17,80
Closing edge safety devices		Article no.	€
Closing edge safety device with optosensors, complete	Surcharge	637725	136
Closing edge safety device with VL 1-LE-300, complete			
Note: Not in conjunction with track applications L/LD with swivel mechanism. VL 2-LE must be selected for these track applications.	1) Surcharge	637726	136
Closing edge safety device with VL 2-LE-300, complete; compulsory for doors with wicket doors without threshold rail (wicket door contact article 637110 required)	1) Surcharge	637727	277
Wicket door contact (SKS or AT 3-300 required)	Surcharge	637110	82
Limit switch for night lock (in conjunction with a closing edge safety device or AT 3-300)		637016	54
Roller limit switch for night lock if fitting without door leaf branch boxes (SKS)		637063	82
Activating kit AT 3-300, for doors with wicket door and high threshold rail		637744	147
Photocells		Article no.	€
Weather protective covers for photocells see page 135.			
One-way photocell EL 301 for floor fitting (for use in interiors and exteriors)	1)	436313	118
One-way photocell EL 51 (for use in interiors and exteriors)	1)	637023	167
One-way photocell EL 51 for fitting to top of industrial frames, sturdy bracket	1)	635340	167
One-way photocell EL 51 for fitting to bottom of industrial frames	1)	635341	167
One-way photocell EL 61, (for use in extremely wet areas, IP 67, powerful jet-water protected)	1)	637222	568
Reflection photocell * RL 52 as a command unit (for use in dry interiors)		637084	202
Reflection photocell* RL 300, industrial floor fitting (for use in dry interiors)		635022	195
Reflection photocell * RL 300, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)		436717	195
* Note: Reflective objects, e.g. Reflective strips on clothing or vehicles, might not be recognised by the reflection photocell.			
Overview of combination options for optical safety equipment			See page 138
Activating kit for warning lights (photocell / light grille required)		Article no.	€
Activating kit for warning lights ZS 360 / 400 with multi-function circuit board and 2 yellow LED traffic lights, without extension housing		637530	328
Activating kit for warning lights ZS 360 with multi-function circuit board, 2 yellow LED traffic lights and weekly timer ZSU 2, without extension housing		637780	504
Activating kit for warning lights with 2 LED traffic lights, without extension housing	2-arm red / green (230 V / 50 Hz)	637731	475
	1-arm red / green (24 V DC)	638955	475
Activating kit for warning lights MP 360 with 2 LED traffic lights and weekly timer ZSU 2, without extension housing	2-arm red / green (230 V / 50 Hz)	637779	771
	1-arm red / green (24 V DC)	638956	771
1) Not in conjunction with light grille			
Additional accessories			See pages 122 – 136

Accessories for operator SupraMatic HT for industrial sectional doors

Series 3

With external control 360 in industrial control housing

Additional accessories	Article no.	€
Power supply unit, input voltage 230 V AC, output voltage 24 V DC / 24 W	4548491	60
Power supply unit connection accessories (article no. 4548491)	636356	21
Adjustable suspension for boom (257 – 1516 mm)	636945	73
Magnet switch with fixing material, for electric locking with air lock doors or loading ramps	436339	73
Multi-function circuit board with 2 relays (programmable)	637026	107
Circuit board for limit switch reporting with 2 relays (only in combination with multi-function circuit board, traffic control or central control)	637028	58
Circuit board for central control / smoke detector device	637243	112
Summer / winter operation activating kit with function report	637036	404
Extension housing for industrial door controls (semi-housing)	637014	68
Double housing for control for extremely wet areas, IP 66 (powerful jet-water protected)	637035	450
NET 2 emergency release for sectional doors (handle set required)	437183	37
NET 3 emergency release for double-skinned sectional doors without handle set, release via locking cylinder, drill hole Ø 13 mm, cable length 1.5 m	437149	35
NET 13 emergency release sleeve for door leaf thickness > 42 mm, length 100 mm, drill hole Ø 13 mm	439782	12,80
Note: Emergency release NET 3 (article no. 437149) must be ordered separately.		
Additional accessories	See pages 122 – 136	

Notes and sketches

Operator accessories

WA 300, WA 400, WA 400 M, WA 500 FU, WA 500 M-FU, ITO 400, ITO 500 FU, SupraMatic HT and controls

Preferred combinations are specified in the table; further combinations are possible under certain prerequisites.
If applicable, ask your specialist adviser.

Short designation		Description	Article no.	€/each	
Receiver 868 MHz					
HE 3-MCX BS		2-channel receiver with external antenna, frequency 868 MHz, operating voltage 24 V DC, in a separate housing with 7 m connecting lead, 4-wire, plug-in type	436722	146	
HE 3 BS		2-channel receiver, frequency 868 MHz, operating voltage 24 V DC, in a separate housing with 0.5 m connecting lead, 4-wire, plug-in type	436721	97	
HEI 3 BS		2-channel receiver, frequency 868 MHz, IP 65, operating voltage 24 V DC, with 7 m connecting lead, 4-wire.	436720	110	
ESE-MCX BS		5-channel bi-directional receiver (e.g. choice of direction and status feedback) with external antenna, 5 functions, 868 MHz, operating voltage 24 V DC, in separate housing (only for dry rooms) with 7 m connecting lead, 4-wire, plug-in type	436738	146	
ESE BS		5-channel bi-directional receiver (e.g. choice of direction and status feedback), 5 functions, 868 MHz, operating voltage 24 V DC, in separate housing (only for dry rooms) with 0.5 m connecting lead, 4-wire, plug-in type	436723	110	
ESE BS HCP		5-channel bi-directional receiver, BiSecur with bus interface for stable range, if required by structural conditions, with 0.5 m connecting lead, with system plug, housing: plastic, protection category: for dry rooms only, temperature range: -20°C to +60°C, operating voltage: 24 V DC, function: choice of direction, impulse, partial opening, status feedback, dimensions (W x H x D): 135 x 30 x 32 mm	4511840	116	
ESE MCX BS HCP		5-channel bi-directional receiver, BiSecur with bus interface for stable range, if required by structural conditions, with 7 m connecting lead, with system plug, housing: plastic, protection category: for dry rooms only, temperature range: -20°C to +60°C, operating voltage: 24 V DC, function: choice of direction, impulse, partial opening, status feedback, additionally with tamper-proof antenna for exteriors, dimensions (W x H x D): 135 x 30 x 32 mm	4511842	151	
ESEI BS		5-channel bi-directional receiver (e.g. choice of direction and status feedback), 5 functions, 868 MHz, operating voltage 24 V DC, in separate housing (IP 65) with 7 m connecting lead, 4-wire, plug-in type	436740	124	
ESEI BS HCP		5-channel bi-directional receiver, BiSecur with bus interface for stable range, if required by structural conditions, with 7 m connecting lead, with system plug, housing: aluminium with plastic caps, protection category: IP 65, temperature range: -20°C to +60°C, operating voltage: 24 V DC, function: choice of direction, impulse, partial opening, status feedback, dimensions (W x H x D): 140 x 30 x 32 mm	4511841	130	
HER 1 BS		1-channel relay receiver with status feedback (of the relays) via HS 5 BS or optionally APP (gateway required), with volt-free relay output, frequency 868 MHz, IP 65, operating voltage 24 V DC / 230–240 V AC, without connecting lead	436724	141	
HER 2 BS		2-channel relay receiver with status feedback (of the relays) via HS 5 BS or optionally APP (gateway required), with 2 volt-free relay outputs, frequency 868 MHz, IP 65, operating voltage 24 V DC / 230–240 V AC, without connecting lead, external tamper-proof antenna with 2 m connecting lead	436725	204	
HER 4 BS		4-channel relay receiver with status feedback (of the relays) via HS 5 BS or optionally APP (gateway required), with 4 volt-free relay outputs, frequency 868 MHz, IP 65, operating voltage: 24 V DC / 230–240 V AC, without connecting lead	436726	226	
HEU 2 BS		2-channel recessed receiver, frequency 868 MHz, targeted On / Off function, IP 20, operating voltage 100–240 V AC	437378	100	
HET-E2 24 BS		2-channel relay receiver with status feedback, for choosing direction (Open and Close) and limit switch reporting (can be connected to volt-free inputs on the HET) via HS 5 BS, or optionally APP (gateway required), frequency 868 MHz, protection category IP 65, operating voltage: 24 V DC	436743	110	
Collective garage receiver 868 MHz					
SGE 1		Collective garage receiver for Hörmann door operators and operators of other makes or for easy and clear management of up to 1000 hand transmitter codings (e.g. in underground garages), with 2 volt-free relay outputs, incl. SD card, in separate housing, protection category IP 65, operating voltage 24 V DC, protected against incorrect polarity	637625	313	
SGP 1		Hand transmitter programming device for SGE 1, for hand transmitter coding including PC software, hand transmitters can be programmed and read out.	637640	273	
SGE 1 and SGP 1 set		Consisting of a collective garage receiver SGE 1 and hand transmitter programming device SGP 1	637641	543	
Pre-programming for hand transmitters					
For SGE 1, incl. SD card; hand transmitters can be pre-programmed as desired. Note: Prices do not include the hand transmitters!					
Pre-programming of hand transmitters			Surcharge each	2,60	

- = Combination options
- ◉ = Can also be used with other product series
- 1 = Only with retrofitting to impulse control (after technical inspection)
- 2 = For choosing direction
- 3 = For 2-way traffic system or controlling a second opening height
- 4 = UAP 1 required
- 5 = PSA, HOR 1, UAP required
- 6 = Only with automatic timer
- 7 = UAP-300; HOR-300 required
- 8 = Multi-function circuit board, travel limit circuit board, traffic control circuit board required
- 9 = Not for controls A 445 and A 460
- 10 = Only in conjunction with a radio receiver

	WA 300 with control		WA 400 / ITO 400 with control		WA 500 FU / ITO 500 FU with control		Direct drive operators with control		SupraMatic HT with control		General use ◉
	Integrated	External 360	A / B 445	A / B 460	545	560	445 R	460 R	Integrated	External 360	
	•	•	•	•	•	•	•	•	•	•	
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	2	2/3	2	2/3	2/3	2/3	2	2/3	2/4	2/3	•
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	•	•	•	•	•	•	•	•	•	•	
	2/7	2/7/8	2/8	2/8	2/8	2/8	2/8	2/8	2/4	2/8	•
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Operator accessories

WA 300, WA 400, WA 400 M, WA 500 FU, WA 500 M-FU, ITO 400, ITO 500 FU, SupraMatic HT and controls

Preferred combinations are specified in the table; further combinations are possible under certain prerequisites.
If applicable, ask your specialist adviser.

Short designation		Description		Article no.	€/each	
868 MHz hand transmitters – only in conjunction with a receiver						
BiSecur hand transmitters are downward compatible with 868 MHz fixed code receivers						
HS 1 BS		1-button hand transmitter, impulse, incl. battery, with chrome-plated zinc diecast caps	Black (textured surface)	4511720	73	
HS 4 BS		4-button hand transmitter, impulse, incl. battery, with chrome-plated zinc diecast caps	Black (textured surface)	4511724	73	
HS 5 BS		5-button hand transmitter, impulse, incl. battery, with chrome-plated zinc diecast caps	Black (high-gloss)	436752	86	
			White (high-gloss)	436753	86	
			Black (textured surface)	436946	86	
HSE 1 BS		1-button micro hand transmitter, impulse, incl. key ring and battery, with chrome-plated zinc diecast caps	Black (textured surface)	4511728	73	
HSE 4 BS		4-button micro hand transmitter, impulse, incl. key ring and battery, with chrome-plated zinc diecast caps	Black (textured surface)	4511732	73	
HSE 4 BS		4-button micro hand transmitter, impulse, incl. key ring and battery, with plastic caps in the same colour as the hand transmitter	Black (textured surface)	4511736	66	
HSS 4 BS		4-button security hand transmitter, impulse, incl. battery, additional function: copy protection for hand transmitter coding (cannot be taught in)	Red (high gloss)	436756	117	
		Hand transmitter station for BiSecur hand transmitters HS 1 BS, HS 4 BS and HS 5 BS	Black (high-gloss)	436691	9,50	
		Hand transmitter holder incl. visor clip for BiSecur hand transmitters HS 1 BS, HS 4 BS and HS 5 BS		436698	8,50	
		Hand transmitter holder incl. visor clip for BiSecur hand transmitters HSE 1 BS and HSE 2 BS		437006	8,5	
		Hand transmitter cover, black for BiSecur hand transmitter HSE		4510869	7,40	
FSM 2 BS		2-channel radio transmitter module in housing		436786	114	
868 MHz industrial hand transmitters – only in conjunction with a receiver						
HSI BS		Industrial hand transmitter for controlling up to 1000 receivers		436789	204	
		Wall holder for industrial hand transmitter HSI/HSI BS, including fixing material		637635	15,50	
		Protective bag for industrial hand transmitter HSI/HSI BS, including clip		637636	39	
		Copy cable with software, for coding industrial hand transmitters HSI/HSI BS or saving data on a PC		637637	26	
		USB adapter on com port		637634	35	
		Connection cable for industrial hand transmitters HSI/HSI BS, for external voltage supply, for connecting to a forklift or another external power supply		637638	8,5	
HSI 6 BS		Industrial hand transmitter for controlling up to 6 receivers		4511801	114	
		Hand transmitter holder for HSI 6 BS, incl. fitting accessories for fitting to wall or box frame		437383	8,5	
HSI 15 BS		Industrial hand transmitter for controlling up to 15 receivers		4511802	164	
		Hand transmitter holder for HSI 15 BS, incl. fitting accessories for fitting to wall or box frame		437384	11,90	
Key switches, each with 3 keys						
ESU 30		Key switch (recessed, impulse Open / Close, without connecting lead)		436110	49	
ESA 30		Key switch (surface-mounted, impulse Open / Close, without connecting lead)		436111	52	
STUP 50		Key switch (recessed, impulse Open / Close, with 2 m connecting lead, 2-wire)		4511648	58	
STAP 50		Key switch (surface-mounted, impulse Open / Close, with 2 m connecting lead, 2-wire)		4511650	61	

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- 3 = For 2-way traffic system or controlling a second opening height
- 4 = UAP 1 required
- 5 = PSA, HOR 1, UAP required
- 6 = Only with automatic timer
- 7 = UAP-300; HOR-300 required
- 8 = Multi-function circuit board, travel limit circuit board, traffic control circuit board required
- 9 = Not for controls A 445 and A 460
- 10 = Only in conjunction with a radio receiver

	WA 300 with control		WA 400 / ITO 400 with control		WA 500 FU / ITO 500 FU with control		Direct drive operators with control		SupraMatic HT with control		General use ⊗
	Integrated	External 360	A / B 445	A / B 460	545	560	445 R	460 R	Integrated	External 360	
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	•	•	•	•	•	•	•	•	•/4	•	•
	•	•	•	•	•	•	•	•	•/4	•	•

Operator accessories

WA 300, WA 400, WA 400 M, WA 500 FU, WA 500 M-FU, ITO 400, ITO 500 FU, SupraMatic HT and controls

Preferred combinations are specified in the table; further combinations are possible under certain prerequisites.
If applicable, ask your specialist adviser.

Short designation	Description	Article no.	€/each	
	Cylinders with keys to pass for Hörmann key switches			
	Profile half cylinder 30.5 + 10 mm, lock plate lug 0°, fixed, 2 units with keys to pass	436120	40	
	Profile half cylinder 30.5 + 10 mm, lock plate lug 0°, fixed, 3 units with keys to pass	436121	52	
	Profile half cylinders with keys to pass in quantities larger than 3	On request		
	SmartControl			
	SmartControl gateway Web-based solution for remote support of sectional doors via the SmartControl Portal. Secure data transfer and management via Deutsche Telekom mobile network and servers. Simple overview of all door-relevant data as well as prompt and clear information transfer.	4514094	329	
	Note: Only possible in conjunction with article no. 639351!			
SmartControl	Annual usage fees SmartControl per year The mobile connection required for SmartControl is made using the Deutsche Telekom mobile network in the 2G and 3G mobile phone standard. Other mobile phone standards / networks or other mobile phone network operators cannot be used for SmartControl. The use of the required mobile phone connection requires a contract to be concluded for the provision of the mobile phone connection between the owner / operator and us, which is separate from the purchase of the SmartControl gateways. In this respect, we merely provide the Deutsche Telekom service for use and accept no liability, in particular for disruptions or failures caused by the services of Deutsche Telekom. The minimum contract term is 5 years and the annual usage fee is charged annually in advance.	639351	69	
	KNX gateway			
KNX gateway	Gateway for controlling Hörmann operators and controls via the KNX building automation With 10 cm connecting lead with system plug, KNX bus cable, protection category: only for dry rooms, temperature range: -20°C to +60°C, operating voltage: 24 V DC, housing: plastic, colour: Light grey RAL 7035, dimensions (W x H x D): 44 x 29 x 15 mm, system requirements KNX, managed via KNX (ETS 5 from version 5.7.3 or ETS 6)	4511630	131	
	Bluetooth® receiver			
HET/S 24 BLE	Receiver for the control of external consumers via Bluetooth®, to control (impulse) Hörmann operators / operators of other makes, with 2 volt-free relays, with 7 m connecting lead, 4-wire, protection category: IP 44, temperature range: -20°C to +40°C, operating voltage: 12–24 V DC, 12 V AC, switching capacity: 30 V DC / 2.5 A (resistive load) Function: On / off, impulse (0.5 s), dimensions (W x H x D): 110 x 45 x 40 mm System requirements: – iOS devices from version 9.0 – Android devices from version 5.0 – Bluetooth 4.0 * Function and availability depend on the respective end device and app version (description text in the App Store)	4511827	102	
Bluetooth® antenna BTA 800	External antenna for receiver HET / S 24 BLE to increase the range, with 0.8 m connecting lead, protection category: IP 44, dimensions (W x H x D): 80 x 80 x 35 mm	4511829	70	
	Hörmann GSM Control			
GSM Control	Opening of the system via telephone call, receipt of status or malfunction information via text messages, no limits regarding the distance, easy parameterisation with the enclosed software or text message commands, up to 1000 authorised users (telephone numbers) can be stored, telephone calls are free of charge for the users, 100–240 V AC, 50/60 Hz, 2 volt-free normally open contacts (max. switching output 5 A), 4 digital inputs (freely configurable), temperature range -20°C to +60°C, protection category IP 65, transmission channel 4G/3G/2G/GSM, frequency band UMTS 900/1200 MHz, GSM/GPRS 900/1800 MHz	639782	543	

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- 4 = UAP 1 required
- 5 = PSA, HOR 1, UAP required
- 6 = Only with automatic timer
- 7 = UAP-300; HOR-300 required
- 8 = Multi-function circuit board, travel limit circuit board, traffic control circuit board required
- 9 = Not for controls A 445 and A 460
- 10 = Only in conjunction with a radio receiver

	WA 300 with control		WA 400 / ITO 400 with control		WA 500 FU / ITO 500 FU with control		Direct drive operators with control		SupraMatic HT with control		General use ◉
	Integrated	External 360	A / B 445	A / B 460	545	560	445 R	460 R	Integrated	External 360	
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		•	•	•	•	•	•	•		•	

Operator accessories

WA 300, WA 400, WA 400 M, WA 500 FU, WA 500 M-FU, ITO 400, ITO 500 FU, SupraMatic HT and controls

Preferred combinations are specified in the table; further combinations are possible under certain prerequisites.
If applicable, ask your specialist adviser.

Short designation	Description	Article no.	€/each	
	WLAN internal push button			
IT-WiFi	- Gateway for the control of Hörmann controls via Apple HomeKit - Integrated internal push button (impulse, light, partial opening); illuminated keypad; with 7 m connecting lead, 6-wire; protection category: for dry rooms only; temperature range: -20°C to +60°C; operating voltage 24 V DC; colour: Pure white RAL 9010; dimensions (W × H × D): 80 × 80 × 35 mm - Management and setup via: - Apple Home app (free download from the App StoreSM) / Hörmann Cloud (cd.hoermann.com) - Remote access and operation via: - HomePod, Apple TV 4K, Apple TV (3rd / 4th generation) - Amazon Alexa - Google Home / Google Assistant - Can be connected to SupraMatic HT series 3 - Simple operation of garage door operators by voice assistant (depending on voice assistant) and app	4511628	129	
	Homematic IP gateway			
Homematic IP gateway	- Gateway for the control of Hörmann operators via the Homematic IP Smart Home control centre - With 10 cm connecting lead; housing: plastic; protection category: for dry rooms only; temperature range: -20°C to +60°C; operating voltage: 24 V DC; colour: Light grey RAL 7035, dimensions (W × H × D): 51 × 47.5 × 16 mm - Management via Homematic IP app (iOS, Android) and Homematic WebUI - System requirements: - Homematic IP Access Point with operation by smartphone (Android devices from version 5.0 or higher, iOS devices from version 9.3 or higher) - Homematic control panel CCU2/3 with operation via Homematic WebUI (web interface (current version); Internet Explorer, Safari, Google Chrome or Mozilla Firefox) - Homematic IP app (free download from the App StoreSM or Google PlaySM) - Simple individual or automated operation of door operators via the Homematic IP Access Point or Homematic CCU2/CCU3 control panel - Simple classification in groups according to products and rooms	4511629	68	
	DeltaDore gateway			
X3D gateway	- Gateway for the control of Hörmann operators via the DeltaDore Tydom Smart Home control centre - With 6.5 cm connecting lead; housing: plastic; protection category: for dry rooms only; temperature range: -20°C to +60°C; operating voltage: 24 V DC; colour: Signal white RAL 9003, dimensions (W × H × D): 36 × 41 × 8 mm - Management via Tydom app (iOS, Android) - System requirements: Tydom gateway 1.0 / 2.0, iOS devices from software version 9.0 or higher, Android devices from software version 5.0 or higher - Tydom app (free download from the App StoreSM or Google PlaySM) - Simple individual or automated operation of door operators via the Tydom gateway or via programmable scenarios - Simple creation and activation of scenarios - Control of several Tydom gateways	4510102	126	

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- 4 = UAP 1 required
- 5 = PSA, HOR 1, UAP required

- 6 = Only with automatic timer
- 7 = UAP-300; HOR-300 required
- 8 = Multi-function circuit board, travel limit circuit board, traffic control circuit board required
- 9 = Not for controls A 445 and A 460
- 10 = Only in conjunction with a radio receiver

	WA 300 with control		WA 400 / ITO 400 with control		WA 500 FU / ITO 500 FU with control		Direct drive operators with control		SupraMatic HT with control		General use ◉
	Integrated	External 360	A / B 445	A / B 460	545	560	445 R	460 R	Integrated	External 360	
									•		
	•								•		
	•								•		

Operator accessories

WA 300, WA 400, WA 400 M, WA 500 FU, WA 500 M-FU, ITO 400, ITO 500 FU, SupraMatic HT and controls

Preferred combinations are specified in the table; further combinations are possible under certain prerequisites.
If applicable, ask your specialist adviser.

Short designation	Description	Article no.	€/each	
	Code switch BiSecur radio code switches are downward compatible with 868 MHz fixed code receivers			
CTR 1b-1	Code switch with 1 relay output, impulse to control one operator, illuminated keypad, 230 V AC or 24 V AC/DC, without connecting lead Power supply (for connecting leads, see page 132): For 230 V AC, use connecting lead ZL 1; for 24 AC/DC and for providing impulse to operator, use connecting lead ASL.	4511631	175	
CTR 3b-1	Code switch with 3 separate relay outputs, impulse to control two operators and/or outdoor lighting, illuminated keypad, 230 V AC or 24 V AC/DC, without connecting lead Power supply (for connecting leads, see page 132): For 230 V AC, use connecting lead ZL 1; for 24 AC/DC and for providing impulse to operator, use connecting lead ASL.	4511632	201	
CTV 3-1	Code switch with keypad protected against vandalism, with 3 separate relay outputs, impulse to control two operators and/or outdoor lighting, 230 V AC or 24 V AC/DC, without connecting lead Power supply (for connecting leads, see page 132): For 230 V AC, use connecting lead ZL 1; for 24 AC/DC and for providing impulse to operator, use connecting lead ASL.	4511633	240	
CTP 3-1	Code switch with capacitive, illuminated keypad, with 3 separate relay outputs, impulse to control two operators and/or outdoor lighting, 230 V AC or 24 V AC/DC, without connecting lead Power supply (for connecting leads, see page 132): For 230 V AC, use connecting lead ZL 1; for 24 AC/DC and for providing impulse to operator, use connecting lead ASL.	4511634	240	
CTR 1d	Code switch with 1 relay output, impulse to control one operator, keypad protected by a hinged panel, 230 V AC or 24 V DC, without connecting lead Note: Use a mains adapter (article no. 436109, page 132) for a 230 V AC power supply.	436355	117	
CTR 3d	Code switch with 3 separate relay outputs, impulse to control two operators and/or outdoor lighting, keypad protected by a hinged panel, 230 V AC or 24 V DC, without connecting lead	436390	154	
FCT 3-1 BS	 Radio code switch for controlling up to 3 operators, illuminated keypad, protection category: IP 54, housing: plastic, colour Light grey RAL 7040, incl. battery	4511856	95	
FCT 10-1 BS	 Radio code switch for controlling up to 10 operators, illuminated keypad, hinged cover, protection category: IP 54, housing: plastic, painted White aluminium RAL 9006, incl. battery	4511861	143	
	Transponder key switches			
TTR 1000-1	Non-contact transponder key switch, impulse, 230 V AC or 24 V AC/DC, without connecting lead, incl. 1 transponder key and 1 transponder card, can be extended with max. 1 input unit (TTRE-1). Power supply: for 230 V AC, use connecting lead ZL 1.	4511643	240	
TTRE-1	Additional reader for extension of the transponder key switch TTR 1000-1	4511644	119	
TS	Transponder key for transponder key switches TTR 1000-1 / TTRE-1	4510023	16,70	
TL 1000	Transponder card for transponder key switches TTR 1000-1 / TTRE-1	437011	16,70	
ZBG 1-1	Spacer bracket (required for fitting the transponder key switch TTR 1000-1 / TTRE-1 to metal)	4511694	46	
	Finger-scan BiSecur radio finger-scans are downward compatible with 868 MHz fixed code receivers			
FFL 25 BS	 Radio finger-scan BiSecur, impulse for controlling 2 operators by means of fingerprint, up to 25 fingerprints can be taught in, cannot be deleted individually, hinged cover, activation by opening the cover or by pressing the "ON" button; protection category: IP 54, housing: plastic, painted White aluminium RAL 9006, incl. battery	4511870	189	
FL 150	Finger-scan, impulse, to control door operators via fingerprint, 150 fingerprints can be taught in (can be individually deleted), connecting voltage 230 V	4511640	514	

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- 4 = UAP 1 required
- 5 = PSA, HOR 1, UAP required
- 6 = Only with automatic timer
- 7 = UAP-300; HOR-300 required
- 8 = Multi-function circuit board, travel limit circuit board, traffic control circuit board required
- 9 = Not for controls A 445 and A 460
- 10 = Only in conjunction with a radio receiver

	WA 300 with control		WA 400 / ITO 400 with control		WA 500 FU / ITO 500 FU with control		Direct drive operators with control		SupraMatic HT with control		General use ◉
	Integrated	External 360	A / B 445	A / B 460	545	560	445 R	460 R	Integrated	External 360	
	•	•	•	•	•	•	•	•	•	•	•
	•/2	•/2	•/2	•/2	•/2	•/2	•/2	•/2	•	•	•
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Operator accessories

WA 300, WA 400, WA 400 M, WA 500 FU, WA 500 M-FU, ITO 400, ITO 500 FU, SupraMatic HT and controls

Preferred combinations are specified in the table; further combinations are possible under certain prerequisites.
If applicable, ask your specialist adviser.

Short designation	Description	Article no.	€/each	
	Key switch posts (cable extension may be required)			
STN 1	Key switch post to hold 1 command unit With screw base for surface fitting, surface in White aluminium based on RAL 9006, dimensions: height 1050 mm, tube 90 × 90 mm Command units are not included in the scope of delivery.	638975	235	
STN 1-B	Key switch post to hold 1 command unit To set in concrete (set-in-concrete version) Surface in White aluminium based on RAL 9006, dimensions: height 1050 mm, tube 90 × 90 mm Command units are not included in the scope of delivery.	638976	235	
STN 1-1	Key switch post to hold 2 command units or 1 command unit and 1 warning light With screw base for surface fitting, surface in White aluminium based on RAL 9006, dimensions: height 1200 mm, tube 90 × 90 mm Command units / warning lights are not included in the scope of delivery.	638977	292	
STN 1-1 B	Key switch post to hold 2 command units or 1 command unit and 1 warning light To set in concrete (set-in-concrete version) Surface in White aluminium based on RAL 9006, dimensions: height 1200 mm, tube 90 × 90 mm Command units / warning lights are not included in the scope of delivery.	638978	292	
STI 1	Key switch post without control (to hold max. 2 controls and an extension housing)	437083	252	
STL 2	Key switch post set without command units for Hörmann light grille HLG-V 2600 mm (article no. 638458)	638904	345	
	Cable extensions			
	Special length of system cable between frame box and control	Surcharge per m	637070	4,30
	Special length motor control (not B 460 FU)	Surcharge per m	637080	14,70
	Special length motor control (B 460 FU)	Surcharge per m	637085	14,70
	Connecting leads, 3-wire, 230 V			
ZL 1	1.5 m length, 3 × 0.75 mm² with safety plug Suitable for power supply to the following devices: TTR 1000-1, CTR 1b-1, CTR 3b-1, CTV 3-1 and CTP 3-1.	436127	9,50	
	Connecting leads, 6-wire, only 24 V (Suitable for impulse control of all buttons)			
ASL 2	2 m long, stripped on one end	436125	8,50	
ASL 10	10 m long, stripped on one end	436126	17,80	
ASL 50	50 m roll	436065	54	
	Coiled cable Special solutions for sectional doors (e.g. alarm contact or electric strike for wicket door etc.)			
	Coiled cable 7 × 0.25 mm², up to 6 m	637527	76	
	Coiled cable 9 × 0.25 mm², up to 6 m	4545155	96	
	Mains adapter			
	Mains adapter with CEE plug, 24 V DC, 330 mA	436109	51	
	Connecting leads for dock leveller controls			
	Dock leveller control connecting lead to operator control B, complete	638353	17,80	
	Dock leveller control connecting lead to operator control A, complete	638352	19,90	
	Push button			
DTH-R	Push button Open-Stop-Close	637713	54	
DTH-RM	Push button Open-Stop-Close, miniature lock	637714	76	
DTH-I	Push button Impulse-Stop-1/2 / Open	637715	60	
DTH-IM	Push button Impulse-Stop-1/2 / Open, miniature lock	637716	80	
DT 02	Push button, Impulse / Stop	639891	60	
DT 03	Push button Open-Stop-Close	639892	78	
DT 04	Push button, Open / Stop / Close / 1/2 Open	639886	103	
DTN A 30	Push button, Open / Stop / Close, can be switched off with emergency-off switch	639887	107	
DTP 02	Push button Impulse / Stop, lockable (profile half cylinder article no. 436122 required)	637044	202	
DTP 03	Push button Open / Stop / Close, lockable (profile half cylinder article no. 436122 required)	637045	273	
DTN 10	Emergency-off switch	639888	80	
DTG 01	Foot and mushroom button, opening device, protection category IP 67, press and hold	639890	142	

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- ◊ = Can also be used with other product series
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- 3 = For 2-way traffic system or controlling a second opening height
- 4 = UAP 1 required
- 5 = PSA, HOR 1, UAP required

- 6 = Only with automatic timer
- 7 = UAP-300; HOR-300 required
- 8 = Multi-function circuit board, travel limit circuit board, traffic control circuit board required
- 9 = Not for controls A 445 and A 460
- 10 = Only in conjunction with a radio receiver

	WA 300 with control		WA 400 / ITO 400 with control		WA 500 FU / ITO 500 FU with control		Direct drive operators with control		SupraMatic HT with control		General use ◊
	Integrated	External 360	A / B 445	A / B 460	545	560	445 R	460 R	Integrated	External 360	
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Operator accessories

WA 300, WA 400, WA 400 M, WA 500 FU, WA 500 M-FU, ITO 400, ITO 500 FU, SupraMatic HT and controls

Preferred combinations are specified in the table; further combinations are possible under certain prerequisites.
If applicable, ask your specialist adviser.

Short designation	Description	Article no.	€/each	
Pull switch / cantilever arm				
ZT 2	Pull switch, impulse, with pull cord length of approx. 3200 mm, protection category IP 65	637510	91	
	Cantilever arm, extension adjustable from approx. 1600 mm to 3000 mm, without pull switch	637003	235	
Optional extras for photocells				
	Weather protective cover for reflection photocells RL 30, RL 50, RL 52, RL 100 and RL 300, as well as one-way photocells EL 31, EL 51, EL 101, EL 301 or angular reflector (up to 8000 mm) Note: If two-sided protection is required, order 2 weather protective covers for each photocell set. Exception: If a reflector from 8000 mm is required, this item is required 1 x and art. no. 437076 is required 1 x.	437075	11,90	
	Weather protective cover for reflector 8000–12000 mm	437076	9,50	
LSE	Adapter print for 2-wire photocell to system jack	639562	69	
LSE 1	Photocell expander LSE 1 in housing (system jack)	436396	76	
LSE 2	Photocell expander LSE 2 in housing (2-wire photocell)	436380	92	
Timers				
ZSU 2	Digital weekly timer in semi-housing, incl. data key	637061	298	
ZSJ 2	Yearly timer, 2-channel, in semi-housing, incl. data key	637079	464	
	Software and USB adapter for timers ZSU 2 and ZSJ 2 for the parameterisation of the data keys enclosed with the timers	637507	171	
Warning lights / warning light tube				
Dual LED	Dual LED warning light for key switch post STN 1-1 / STN 1-1 B, red / green dual LED, 230 V AC	638979	138	
Triple LED	Triple LED traffic light for key switch post STN 1-1 / STN 1-1 B, red / yellow / green triple LED, 24 V DC	639307	138	
TL40Srd	LED traffic light, red (230 V / 50 Hz), multi-function or travel limit circuit board required!	637534	124	
TL40Sgn	LED traffic light, green (230 V / 50 Hz), multi-function or travel limit circuit board required!	637535	124	
TL40Sye	LED traffic light, yellow (230 V / 50 Hz), multi-function or travel limit circuit board required!	637536	112	
TL40Srd / gn	LED traffic light, red / green (230 V / 50 Hz), multi-function or traffic control circuit board required!	637537	208	
TL40Srd / ye / gn	LED traffic light, red / yellow / green (24 V DC), 1-arm Multi-function or traffic control circuit board required!	637896	195	
LED-WLR	Warning light tube for fixing to the door as an additional warning during door travel, yellow light colour, operating voltage 24 V DC, protected against incorrect polarity, max. 1.8 W, protection category IP 44 Note: AT 3 required for fastening to the door leaf	637624	87	
AT 3	Activating kit for door leaf, required for connecting an LED warning light tube, an electric door strike or a bolt / block reed contact. Note: Alternatively, a 7-wire or 9-wire coiled cable can be used instead of the 5-wire coiled cable included in the scope of delivery.	638296	86	
	Yellow rotating mirror warning light (230 V / 50 Hz), multi-function or travel limit circuit board required!	637184	359	
	Angle fitting for rotating mirror warning light	637182	56	
	Yellow flashing warning light (230 V / 50 Hz), multi-function or travel limit circuit board required!	637183	228	
	Angle fitting for flashing warning light	637181	37	
Optional extras				
HLG-V	Extension set Hörmann light grille HLG as advance protection, incl. protective tube, height 2500 mm, range up to 10 m. Optional key switch post set (article no. 638904, see key switch posts) available.	638458	948	
LHF-1 BS	 Light flash control with BiSecur radio transmitter 868 MHz (radio receiver required)	436787	444	
RBM 2 E	Radar movement detector for Open door function, not a safety device	637484	446	
	Infrared remote control (for radar movement detector RBM 2 E)	637485	138	
	Roller limit switch for status query of the shootbolt in the frame, without coiled cable, not VdS-approved!	637063	82	
	Magnet switch VDS-class C Monitoring contact, door closed, e.g. for alarm systems	637675	89	
	Alarm horn, IP 33, connecting voltage 230 V AC, multi-function or travel limit circuit board required!	637197	125	
	Fitting struts for control and extension housing (frame fitting)	637696	30	

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- 4 = UAP 1 required
- 5 = PSA, HOR 1, UAP required
- 6 = Only with automatic timer
- 7 = UAP-300; HOR-300 required
- 8 = Multi-function circuit board, travel limit circuit board, traffic control circuit board required
- 9 = Not for controls A 445 and A 460
- 10 = Only in conjunction with a radio receiver

	WA 300 with control		WA 400 / ITO 400 with control		WA 500 FU / ITO 500 FU with control		Direct drive operators with control		SupraMatic HT with control		General use ◉
	Integrated	External 360	A / B 445	A / B 460	545	560	445 R	460 R	Integrated	External 360	
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Operator accessories

WA 300, WA 400, WA 400 M, WA 500 FU, WA 500 M-FU, ITO 400, ITO 500 FU, SupraMatic HT and controls

Preferred combinations are specified in the table; further combinations are possible under certain prerequisites.
If applicable, ask your specialist adviser.

Short designation	Description	Article no.	€/each	
	Induction loop detectors / pre-fabricated induction loops			
DI 1 Pro	Induction loop detector in semi-housing without loop cable	637056	463	
DI 2 Pro	Induction loop detector in semi-housing without loop cable	637076	589	
	Loop cable for DI, 50 m roll	637059	82	
	Motor protective switch (after technical clarification)			
	Motor protective switch 1 – 1.6 A	635500	120	
	Motor protective switch 1.6 – 2.5 A	635501	113	
	Motor protective switch GV 2 ME 08, 2.5 – 4 A	635502	120	
	Motor protective switch 4 – 6.3 A	635503	113	
	Motor protective switch 6.3 – 10 A	635504	119	
	Motor protective switch housing IP 54	635505	45	
	Emergency power supply for door travel after a power failure (dependent on environmental influences)			
UPS	Emergency power supply for bridging power failures up to max. 8 hours and max. 4 door cycles within 2 hours (depending on temperature, etc.), protection category IP 20	639353	2382	

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- 5 = PSA, HOR 1, UAP required
- 6 = Only with automatic timer
- 7 = UAP-300; HOR-300 required
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- 9 = Not for controls A 445 and A 460
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	WA 300 with control		WA 400 / ITO 400 with control		WA 500 FU / ITO 500 FU with control		Direct drive operators with control		SupraMatic HT with control		General use ◉
	Integrated	External 360	A / B 445	A / B 460	545	560	445 R	460 R	Integrated	External 360	
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Combination options for optical safety equipment

Overview

Combination options for optical safety equipment

- Combination possible
- Combination not possible

Notes:

- A maximum of only 2 combinations per row or column are possible!
- On site, unwanted reflections can cause interference and malfunction of the safety devices. Solutions such as covering the reflective surfaces with matt adhesive tape have to be found on site.

Combination options for optical safety equipment																															
Combination possible Combination not possible																															
Notes:																															
A maximum of only 2 combinations per row or column are possible! On site, unwanted reflections can cause interference and malfunction of the safety devices. Solutions such as covering the reflective surfaces with matt adhesive tape have to be found on site.																															
Article no.	Article	Article no.	Article	Article no.	Article	Article no.	Article	Article no.	Article	Article no.	Article	Article no.	Article	Article no.	Article	Article no.	Article														
637108 / 637726	Extension set for leading photocell VL 1-LE, incl. floor slides (with / without radio activating kit extension set article no. 636838)	637108 / 637726	Extension set for leading photocell VL 1-LE, incl. floor slides (with / without radio activating kit)	637107 / 637727	Extension set for leading photocell VL 2-LE, incl. floor slides (with / without radio activating kit)	635340	One-way photocell EL 51 for fitting to top of industrial frames	635341	One-way photocell EL 51 for fitting to bottom of industrial frames	637023	One-way photocell EL 51 for floor fitting	637222	One-way photocell EL 61	436313	One-way photocell EL 301 for floor fitting	437922	One-way photocell EL 401 (frame bottom prepared at the factory for fitting)	637086	Reflection photocell RL 50	637084	Reflection photocell RL 52 as a command unit	635022	Reflection photocell RL 300, industrial floor fitting	436717	Reflection photocell RL 300 for fitting to top of industrial frames	636938	Extension set for Hörmann light grille HLG	636867	Extension set for double Hörmann light grille HLG	636941	Light grille HLG 550 as trap guard
637108 / 637726	Extension set for leading photocell VL 1-LE, incl. floor slides (with / without radio activating kit extension set article no. 636838)	-																													
637107 / 637727	Extension set for leading photocell VL 2-LE, incl. floor slides; mandatory for doors with wicket door without threshold rail (with / without radio activating kit extension set article no. 636838)		-																												
635340	One-way photocell EL 51 For fitting to top of industrial frames			-																											
635341	One-way photocell EL 51 For fitting to bottom of industrial frames				-																										
637023	One-way photocell EL 51 For floor fitting							-																							
637222	One-way photocell EL 61										-																				
436313	One-way photocell EL 301 For floor fitting											-																			
437922	One-way photocell EL 401 (frame bottom prepared at the factory for fitting)														-																
637086	Reflection photocell RL 50 For door widths 500 – 8000 mm															-															
637084	Reflection photocell RL 52 As a command unit																-														
635022	Reflection photocell RL 300 Industrial floor fitting																	-													
436717	Reflection photocell RL 300 For fitting to top of industrial frames																								-						
636938	Extension set for Hörmann light grille HLG as safety equipment for the main closing edge in the door level (integrated into the door frame) (with / without radio activating kit extension set article no. 636838)																									-					
636867	Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door without threshold rail																												-		
636941	Light grille HLG 550 for 67 series doors as trap guard Observe the information regarding the trap guard on page 7 of this price list!																													-	

Notes and sketches

Notes and sketches

Brand quality for residential and commercial construction

The family-owned company Hörmann offers all important construction components for building and renovating projects from a single source. We manufacture in highly-specialised factories using state-of-the-art production technologies. Furthermore, our employees work intensively on new products, continual further developments and improvements to details. The results are patents and unique products on the market.

