

Industrial price list 05-23

Valid from 01.06.2023

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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Hörmann international sales companies

International sales partners

Hörmann international sales companies

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International sales partners

Albania	Bangladesh	Cuba	Laos	Myanmar	The Philippines
Algeria	Bosnia-Herzegovina	Georgia	Luxembourg	New Zealand	Tunisia
Argentina	Brazil	Iceland	Malta	North Macedonia	Turkmenistan
Armenia	Cambodia	Israel	Moldova	Peru	Uruguay
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For more information on our sales companies and sales partners, visit www.hoermann.com.

Our General terms and conditions of sale and delivery valid at the time of the order apply.

The current version of our General terms and conditions of sale and delivery is available on our website: www.hoermann.com/en/gtc

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We think green.

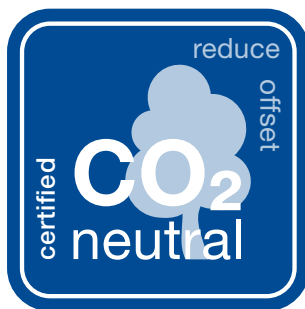
Hörmann leads by example: We use green electricity to cover 100 % of our electricity requirements at all European production sites. Together with an intelligent and certified energy management system, the use of recycled paper, the saving and upcycling of packaging and the recycling of reusable materials, this saves over 75000 tons of CO₂ each year. Additionally, we offset the remaining unavoidable emissions generated during the manufacture of products for residential construction by supporting renewable energy, forest protection and reforestation projects in cooperation with ClimatePartner.



You can find all information and many videos at www.hormann.co.uk/company/environment



WE ACT GREEN. Our climate protection strategy is based on the annual calculation of the CO₂ balance at our sites, which includes the products manufactured there. And we have been reducing our emissions wherever possible for years. This means we are taking various steps, big and small, to reduce our carbon footprint. We offset the remaining CO₂ emissions through climate protection projects. This makes us the first and only construction component manufacturer to offer CO₂-neutral garage doors, entrance doors and residential internal doors.



As standard

For all garage doors, operators, entrance doors, residential internal doors, steel frames, steel doors for residential construction as well as storage space systems



ClimatePartner
certified product
climate-id.com/XNEBKC



CO₂
measure
reduce
contribute

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 in accordance with 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 x 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 x 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

Notice:

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:

26 mm clear synthetic double pane (S2) and synthetic glazing in a grey tone fitted in front

// NEW ALR F42 Vitraplan AT

Glazing frame:

Anodised aluminium extrusion profiles with steel end caps

Infill type:

PU infill with aluminium sheet cover, both sides Stucco-textured, (FU) 26 mm and ALCUBOND® and TRESPA® facade panels fitted in front

Performance characteristics

Performance characteristics in accordance with EN 13241		ALR F42	ALR F42 Thermo	ALR F42 Glazing	ALR F42 Vitraplan	ALR F42 Vitraplan AT
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⁾	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)	Class 3 (70 Pa)
EN 12426 Air permeability	Details for doors <u>without</u> wicket door	Class 2	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 × 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⁾	2,6
	Details for doors <u>with</u> wicket door 5000 × 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	23
	Details for doors <u>with</u> wicket door	22 29 ⁴⁾	22 29 ⁴⁾	–	–	–

Notice:

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 in accordance with 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/(m²·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⁾	–

Notice:

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/(m²·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/(m²·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.

// NEW ALR F42 Vitraplan AT

Glazing frame coating and infill:
Exterior and interior polyester primer-coated with wet-coating procedure, based on RAL 9005 Jet black
Door leaf reinforcements, steel end caps and central hinges based on RAL 9005 Jet black

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

For RAL colours, see "Surface coating" from page 84.

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 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

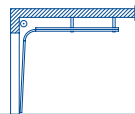
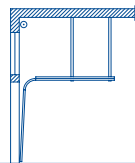
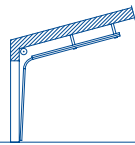
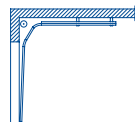
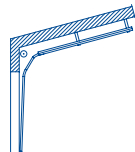
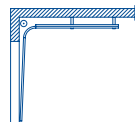
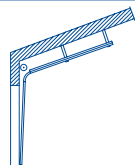
Sectional doors with depth 42 mm

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

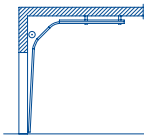
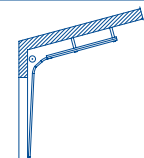
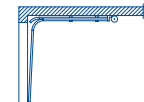
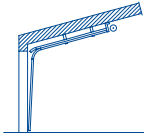
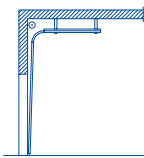
Track applications N		Article no.		Surcharges	
	N ^{1) 2)}	Normal track application	N1 3096643		Included in the door price!
		A WA 500 FU is required for track application N3 with operator!	N2 3096644		
			N3 3096645		
	NA ^{1) 2)}	As with track application N With high-mounted torsion spring shaft Door height RM ≤ 5000 mm	NA1 3096656 NA2 3096657	+ € 275	On the basic table price
	ND ^{1) 2)}	As with track application N With inclination (30° maximum)	ND1 3096647 ND2 3096648 ND3 3096649	+ € 152	On the basic table price
		A WA 500 FU is required for track application ND3 with operator at an inclination of up to 6°!			
		Special version inclination 32° – 46° Door height RM ≤ 5000 mm	ND6 3096650 ND7 3096651	+ € 1004	On the basic table price
		Technical inspection required!			
	NS ^{1) 2)}	As with track application N With double radius Door height RM ≤ 5000 mm	NS1 3096652 NS2 3096653	+ € 332	On the basic table price
		Technical inspection required!			
		Notice: 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 NK2 3096655	+ € 601	On the basic table price
		Technical inspection required!			
		Notice: 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 NH2 3096659	+ € 300	On the basic table price
		Notice: • Double radius 361 mm • Door travel speed possible up to 0.5 m/s.			
		As with track application N With minimum high-lift Door height RM > 5000 mm	NH3 3096660	+ € 642	On the basic table price
		Notice: • 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 GD2 3096662	+ € 446	On the basic table price
		Notice: • Double radius 361 mm • Door travel speed possible up to 0.5 m/s.			

Notices:

- 1) Not possible for versions with direct drive operator!
- 2) For information on trap guard, see page 9.

Manual track application size change	Article no.	Surcharges	
Manual track application size change	3091251	+ €	438
			On the basic table price

Track applications

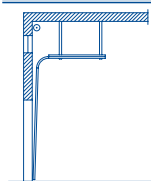
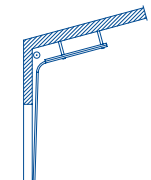
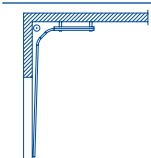
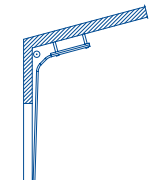
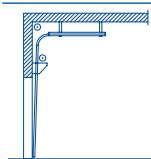
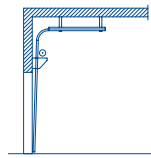
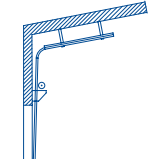
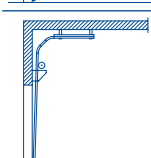
Track applications NH		Article no.		Surcharges	
	GS ^{1) 2)}	As with track application NH With double radius Door height RM ≤ 5000 mm	GS1 3096663 GS2 3096664	+ € 623	On the basic table price
		Technical inspection required! Notice: • Double radius 361 mm • Door travel speed possible up to 0.5 m/s.			
	GK ^{1) 2)}	GK as with track application NH With double radius and inclination. Door height RM ≤ 5000 mm	GK1 3096665 GK2 3096666	+ € 934	On the basic table price
		Notice: • Double radius 361 mm • Door travel speed possible up to 0.5 m/s. Technical inspection required!			
Track applications L		Article no.		Surcharges	
	L ^{1) 2)}	Low headroom track application Door height RM ≤ 5000 mm	L1 3096667 L2 3096668	+ € 312	On the basic table price
		Swing mechanism for track application L / track application LD to increase the clear passage	Galvanized 3098424 Stainless steel 3098425	+ € 272 + € 466	
Notices: • Not required with ITO / SupraMatic HT operators. • Only for 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	+ € 460	On the basic table price
		Swing mechanism for track application L / track application LD to increase the clear passage	Galvanized 3098424 Stainless steel 3098425	+ € 272 + € 466	
Notices: • Inclination of up to 10° possible. • Not required with ITO / SupraMatic HT operators. • Only for 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		Article no.		Surcharges	
	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			3092671	+ € 4658	
Technical inspection required!					

Notices:

- 1) Not possible for versions with direct drive operator!
- 2) For information on trap guard, see page 9.

Manual track application size change	Article no.	Surcharges	
Manual track application size change	3091251	+ € 438	On the basic table price

Track applications

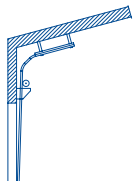
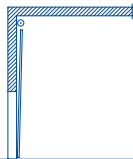
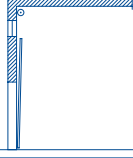
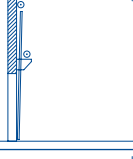
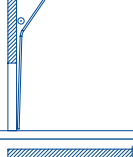
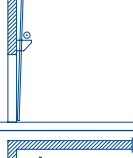
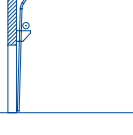
Track applications H		Article no.	Surcharges			
	HA ^{1) 2)} As with track application H With high-mounted torsion spring shaft Door height RM ≤ 3500 mm	HA4 3096686	+	7 %	+ € 275	On the basic table price
	HD ^{1) 2)} As with track application H With inclination	HD4 3096677 HD5 3096678 HD8 3096679	+	7 %	+ € 152	On the basic table price
	HS ^{1) 2)} As with track application H With double radius Technical inspection required!	HS4 3096680 HS5 3096681 HS8 3096682	+	7 %	+ € 332	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 %	+ € 601	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 %	+ € 152	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 %	+ € 332	On the basic table price

Notices:

- 1) Not possible for versions with direct drive operator!
- 2) For information on trap guard, see page 9.

Manual track application size change	Article no.	Surcharges			
Manual track application size change	3091251		+	€ 438	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	RK4	3096695	+ 12 %	+ € 601	On the basic table price
		Door height RM ≤ 5000 mm	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 %	+ € 275	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 in the top sections the tracks are diverted using radii where the ceiling is too low. (Additional hand pulley required for manually operated doors!)	VS6	3096703	+ 5 %	+ € 332	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 in the top sections the tracks are diverted using radii where the ceiling is too low. (Additional hand pulley required for manually operated doors!)	WS6	3096709	+ 10 %	+ € 332	On the basic table price
			WS7	3096710			
			WS9	3096711			
		Door height RM ≥ 2200 mm					
		Technical inspection required!					

Notices:

1) Not possible for versions with direct drive operator!

Manual track application size change	Article no.	Surcharges	
Manual track application size change	3091251	+ € 438	On the basic table price

Sectional door SPU F42 Door sections with finger trap protection

Double-skinned steel sectional door, door sections 625 and 750 mm high , depth 42 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 10–13.

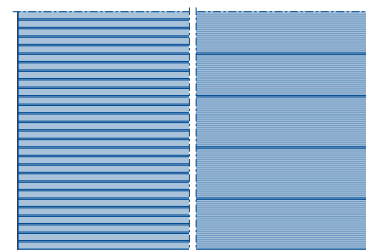
For a product description, see pages 6 and 9.

Doors with a grid height over 7500 mm on request.

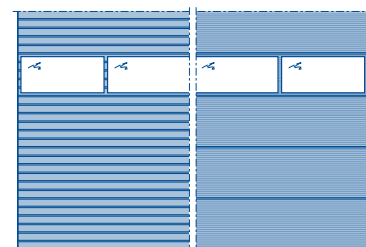
Grid height	7500					5466	5728	5994	6250	6521	6786	7057	7325	7591	7848	8111	9037	9353	9667	9971
	7375					5262	5527	5790	6050	6319	6586	6855	7125	7389	7648	7911	8834	9155	9465	9771
	7250					5061	5327	5590	5848	6119	6387	6654	6924	7189	7450	7711	8634	8954	9261	9573
	7125					4861	5127	5391	5646	5919	6187	6455	6725	6989	7247	7513	8433	8751	9064	9368
	7000					4696	4955	5211	5466	5722	5978	6239	6496	6753	7007	7264	8145	8450	8749	9048
	6875					4626	4879	5134	5391	5642	5892	6148	6399	6653	6907	7161	8023	8319	8610	8907
	6750					4557	4805	5056	5307	5557	5808	6054	6307	6554	6805	7053	7909	8201	8487	8781
	6625					4488	4733	4981	5228	5470	5719	5964	6211	6456	6704	6950	7788	8073	8360	8644
	6500					4420	4663	4902	5149	5391	5631	5872	6117	6360	6596	6839	7674	7959	8239	8523
	6375					4352	4592	4828	5070	5304	5543	5781	6016	6259	6502	6737	7554	7833	8110	8384
	6250					4286	4519	4756	4988	5219	5455	5693	5924	6163	6395	6629	7432	7707	7982	8251
	6125					4214	4450	4677	4906	5136	5369	5599	5833	6058	6290	6524	7313	7578	7847	8116
	6000					4146	4371	4601	4823	5054	5282	5508	5734	5963	6192	6418	7155	7415	7676	7938
	5875					4080	4300	4524	4751	4972	5195	5417	5642	5866	6093	6311	7035	7290	7551	7809
	5750					4008	4230	4451	4666	4889	5111	5325	5547	5764	5981	6206	6910	7165	7424	7671
	5625					3939	4157	4370	4590	4804	5019	5235	5450	5668	5882	6099	6796	7044	7293	7544
	5500					3874	4085	4296	4510	4719	4932	5147	5360	5571	5779	5994	6674	6923	7162	7412
	5375					3804	4008	4218	4426	4639	4844	5053	5259	5468	5680	5888	6560	6802	7041	7282
	5250					3737	3939	4146	4349	4549	4759	4960	5166	5370	5576	5781	6448	6674	6910	7150
	5125					3668	3867	4068	4271	4467	4668	4873	5073	5271	5470	5670	6313	6551	6779	7010
	5000	3434	2955	2955	3098	3316	3479	3648	3775	3949	4146	4332	4498	4722	4919	5482	5691	5904	6091	
	4875	3398	2925	2925	3063	3279	3439	3610	3734	3904	4099	4286	4463	4654	4838	5413	5613	5810	6002	
	4750	3364	2889	2889	3023	3241	3398	3564	3686	3858	4046	4230	4409	4593	4773	5328	5520	5735	5926	
	4625	3334	2853	2853	2992	3201	3359	3520	3642	3808	3996	4172	4358	4537	4718	5299	5467	5671	5862	
	4500	3219	2744	2744	2877	3023	3200	3376	3490	3643	3805	3996	4146	4294	4442	4949	5136	5330	5490	
	4375	3191	2712	2712	2841	2991	3180	3335	3446	3600	3778	3946	4093	4234	4383	4908	5076	5266	5441	
	4250	3157	2684	2684	2804	2947	3141	3291	3398	3553	3728	3895	4037	4180	4322	4784	4976	5166	5322	
	4125	3124	2647	2647	2766	2916	2990	3105	3241	3383	3570	3705	3834	3957	4085	4568	4711	4893	5037	
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	3625	2832	2355	2355	2466	2591	2712	2830	2946	3079	3235	3370	3490	3612	3734	4236	4367	4537	4665	
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	3000	2395	1919	1919	2024	2104	2307	2417	2523	2603	2694	2809	2889	2969	3050	3364	3454	3583	3695	
	2875	2378	1898	1898	1987	2085	2270	2376	2476	2557	2643	2746	2831	2920	3002	3299	3405	3532	3638	
	2750	2313	1839	1839	1910	2000	2197	2294	2372	2464	2558	2654	2732	2810	2889	3174	3278	3397	3494	
	2625	2284	1804	1804	1881	1962	2158	2251	2340	2420	2508	2600	2676	2751	2830	3125	3225	3342	3422	
	2500	2270	1792	1792	1871	1948	2128	2205	2294	2372	2460	2549	2625	2698	2766	3042	3121	3242	3334	
	2375	2198	1720	1720	1797	1870	2029	2109	2189	2270	2345	2429	2503	2581	2655	2923	3009	3124	3215	
	2250	2124	1646	1646	1720	1792	1930	2024	2087	2164	2228	2305	2388	2466	2546	2794	2884	2985	3066	
	2125	2097	1621	1621	1685	1755	1903	1982	2043	2122	2183	2253	2335	2411	2489	2748	2835	2938	3005	
	2000	2062	1588	1588	1652	1720	1860	1939	1999	2077	2134	2204	2281	2351	2428	2666	2732	2830	2912	
	1875	2040	1563	1563	1629	1683	1823	1898	1963	2024	2098	2165	2223	2277	2331	2558	2625	2717	2798	
Width From 1200		1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	
		Width																		
		Rail width 52 mm																		
Number of fields per glazing frame	On request	2				3				4				5						
Number of compound glazings type A, D and E per door section	On request	2				3				4				5						
Number of ventilation grilles per door section	2	4				6				8				10						

[A] Number of door sections per door section height				
	625 mm	750 mm		
7500	–	+	10	²⁾
7375	1	+	9	
7250	2	+	8	
7125	3	+	7	
7000	4	+	6	
6875	5	+	5	
6750	–		9	²⁾
6625	1	+	8	
6500	2	+	7	
6375	3	+	6	
6250	4	+	5	
6125	5	+	4	
6000	–		8	²⁾
5875	1	+	7	
5750	2	+	6	
5625	3	+	5	
5500	4	+	4	
5375	5	+	3	
5250	–		7	²⁾
5125	1	+	6	
5000	2	+	5	
4875	3	+	4	
4750	4	+	3	
4625	5	+	2	
4500	–		6	²⁾
4375	1	+	5	
4250	2	+	4	
4125	3	+	3	
4000	4	+	2	
3875	5	+	1	
3750	–		5	²⁾
3625	1	+	4	
3500	2	+	3	
3375	3	+	2	
3250	4	+	1	
3125	5	²⁾	–	
3000	–		4	²⁾
2875	1	+	3	
2750	2	+	2	
2625	3	+	1	
2500	4	²⁾	–	
2375	4	¹⁾	–	
2250	–		3	²⁾
2125	1	+	2	
2000	2	+	1	
1875	3	²⁾	–	

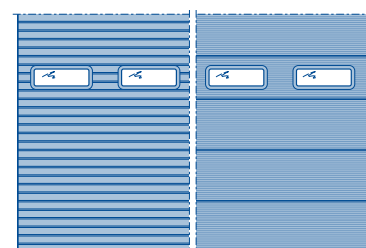
SPU F42
Stucco-textured or Micrograin
Wicket doors from page 64.



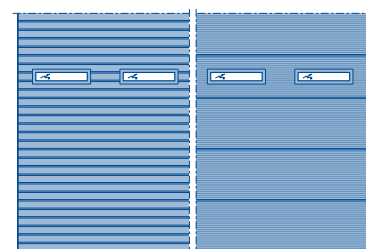
Basic model



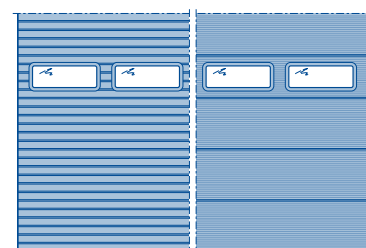
Version with glazing frame



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 18
Compound glazings type A, type D and type E	Page 18
Intermediate heights	Page 18
Ventilation grilles	Page 18
Surface coating	From page 84
Accessories	From page 86

Sectional door SPU F42 Door sections with finger trap protection

Double-skinned steel sectional door, door sections 375 and 500 mm high , depth 42 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 10 – 13.

For a product description, see pages 6 and 9.

Doors with a grid height over 7500 mm on request.

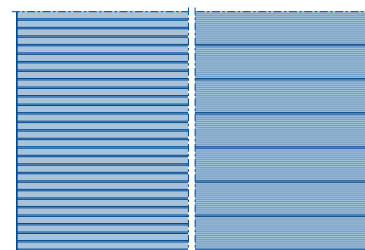
Grid height	7500				6444	6770	7088	7426	7746	8072	8389	8717	9041	9368	9695	10728	11100	11473	11840
	7375				6242	6570	6889	7224	7545	7872	8188	8518	8839	9167	9493	10526	10897	11272	11639
	7250				6041	6369	6687	7022	7346	7670	7987	8317	8638	8968	9289	10323	10697	11070	11438
	7125				5841	6168	6487	6821	7143	7468	7787	8112	8437	8764	9090	10124	10496	10867	11237
	7000				5643	5957	6271	6585	6897	7213	7525	7838	8151	8467	8780	9782	10138	10497	10855
	6875				5557	5866	6174	6482	6787	7099	7412	7721	8026	8338	8644	9631	9986	10336	10692
	6750				5468	5775	6078	6378	6686	6992	7291	7597	7903	8204	8511	9480	9826	10177	10523
	6625				5383	5683	5978	6282	6580	6878	7177	7478	7772	8075	8371	9326	9671	10016	10351
	6500				5294	5590	5887	6177	6474	6766	7064	7355	7648	7941	8238	9182	9516	9851	10189
	6375				5209	5497	5786	6078	6367	6654	6948	7234	7525	7813	8106	9025	9360	9693	10024
	6250				5118	5405	5693	5975	6259	6546	6830	7115	7399	7683	7966	8877	9203	9527	9852
	6125				5038	5315	5595	5873	6155	6431	6713	6996	7273	7554	7833	8726	9047	9365	9687
	6000				4949	5221	5497	5775	6050	6324	6595	6876	7147	7426	7697	8578	8893	9205	9518
	5875				4863	5130	5402	5670	5946	6212	6482	6757	7021	7291	7565	8427	8733	9044	9350
	5750				4775	5042	5304	5573	5836	6100	6367	6633	6897	7162	7430	8277	8580	8881	9188
	5625				4689	4949	5211	5468	5728	5993	6250	6511	6769	7032	7291	8125	8421	8721	9018
	5500				4601	4857	5113	5367	5623	5875	6133	6394	6646	6903	7159	7974	8267	8556	8847
	5375				4518	4766	5015	5266	5515	5767	6016	6271	6515	6769	7021	7824	8109	8397	8685
	5250				4425	4673	4920	5166	5408	5659	5903	6153	6396	6643	6889	7673	7952	8234	8520
	5125				4341	4582	4821	5065	5304	5548	5786	6034	6271	6511	6753	7520	7801	8073	8353
	5000	4057	3577	3577	3780	3986	4192	4449	4673	4916	5076	5281	5481	5699	5892	6567	6814	7071	7290
	4875	4015	3538	3538	3740	3945	4146	4396	4617	4859	5021	5218	5416	5644	5820	6513	6753	6993	7222
	4750	3978	3500	3500	3696	3896	4096	4344	4566	4784	4959	5155	5362	5575	5773	6444	6673	6933	7163
	4625	3934	3458	3458	3655	3850	4045	4290	4533	4731	4924	5109	5294	5507	5699	6402	6604	6855	7081
	4500	3822	3347	3347	3533	3718	3905	4119	4352	4578	4721	4906	5094	5293	5468	6091	6323	6565	6759
	4375	3791	3307	3307	3492	3680	3860	4095	4298	4519	4664	4846	5026	5237	5395	6044	6250	6477	6693
	4250	3635	3158	3158	3330	3506	3683	3929	4103	4278	4453	4626	4796	4984	5160	5709	5941	6167	6355
	4125	3596	3115	3115	3288	3461	3635	3879	4065	4224	4409	4569	4731	4924	5087	5684	5866	6094	6272
	4000	3407	2929	2929	3107	3255	3434	3647	3819	3988	4154	4316	4467	4645	4798	5370	5592	5805	5977
	3875	3382	2901	2901	3063	3228	3384	3611	3765	3931	4093	4248	4405	4578	4722	5314	5521	5724	5892
	3750	3340	2863	2863	3018	3183	3337	3563	3715	3874	4034	4186	4341	4510	4664	5242	5450	5658	5810
	3625	3304	2825	2825	2974	3139	3291	3507	3681	3816	3988	4130	4273	4449	4595	5215	5374	5583	5745
	3500	3088	2610	2610	2745	2900	3019	3196	3316	3469	3623	3765	3882	4103	4236	4684	4837	4994	5155
	3375	3049	2570	2570	2704	2853	2976	3141	3258	3413	3564	3704	3816	4034	4168	4605	4758	4932	5071
	3250	3009	2531	2531	2660	2806	2929	3091	3204	3359	3506	3642	3753	3965	4096	4533	4680	4859	4994
	3125	2863	2388	2388	2517	2647	2884	3042	3147	3326	3458	3568	3688	3900	4023	4473	4600	4775	4908
	3000	2736	2258	2258	2358	2503	2736	2889	2994	3132	3266	3396	3496	3691	3811	4208	4322	4482	4617
	2875	2648	2171	2171	2294	2402	2643	2773	2890	3005	3124	3247	3347	3550	3658	4023	4154	4304	4436
	2750	2613	2136	2136	2253	2358	2593	2723	2841	2940	3066	3188	3282	3481	3598	3949	4073	4226	4345
	2625	2582	2106	2106	2220	2331	2546	2671	2785	2901	3018	3115	3218	3413	3523	3892	4014	4163	4263
	2500	2490	2013	2013	2109	2220	2413	2508	2629	2726	2831	2937	3023	3204	3303	3627	3724	3867	3978
	2375	2454	1976	1976	2085	2171	2358	2466	2574	2665	2769	2879	2962	3140	3234	3553	3661	3802	3910
	2250	2412	1935	1935	2040	2124	2307	2417	2523	2609	2709	2812	2890	3076	3170	3479	3584	3716	3814
	2125	2382	1906	1906	2000	2098	2262	2370	2459	2566	2662	2743	2827	3005	3093	3420	3524	3655	3734
	2000	2270	1790	1790	1873	1961	2134	2210	2297	2388	2476	2569	2638	2798	2880	3167	3241	3357	3450
	1875	2231	1754	1754	1847	1919	2079	2169	2256	2332	2417	2503	2573	2742	2808	3083	3162	3279	3370
Width From 1200		1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
		Width																	

Rail width 52 mm				
Number of fields per glazing frame	On request	2	3	5
Number of compound glazings type A and D per door section	On request	2	3	5
Number of ventilation grilles per door section	2	4	6	10

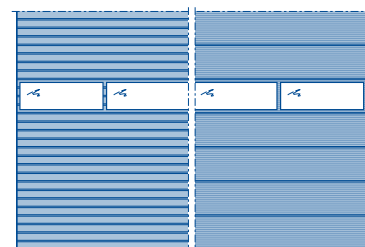
SPU F42
Stucco-textured or Micrograin
Wicket doors from page 64.

[A] Number of
door sections
per door
section height
375 500
mm mm

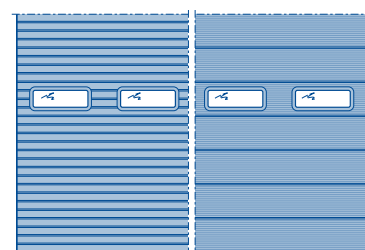
	12892								7500	–	15 ¹⁾
	12827								7375	1 +	14
	12607								7250	2 +	13
	12550	12941							7125	3 +	12
	12301	12677	13061						7000	–	14 ¹⁾
	12109	12485	12856						6875	1 +	13
	11919	12290	12657						6750	2 +	12
	11730	12097	12458	12819					6625	3 +	11
	11545	11901	12255	12612					6500	–	13 ¹⁾
	11353	11704	12054	12407	12754				6375	1 +	12
	11163	11509	11853	12195	12545				6250	2 +	11
	10973	11312	11652	11993	12326				6125	3 +	10
	10783	11118	11449	11786	12119	12453	12784		6000	–	12 ¹⁾
	10596	10922	11250	11576	11906	12232	12556		5875	1 +	11
	10405	10728	11048	11372	11691	12011	12336	12656	5750	2 +	10
	10217	10531	10848	11163	11483	11793	12109	12427	5625	3 +	9
	10027	10336	10647	10953	11267	11575	11889	12194	5500	–	11 ¹⁾
	9837	10140	10440	10747	11054	11360	11664	11964	5375	1 +	10
	9645	9946	10243	10540	10839	11137	11436	11733	5250	2 +	9
	9459	9752	10039	10336	10628	10919	11209	11501	5125	3 +	8
	7927	8157	8427	8631	8898	9134	9377	9637	5000	–	10 ¹⁾
	7845	8061	8337	8555	8826	9029	9312	9578	4875	1 +	9
	7755	7978	8239	8503	8728	8925	9223	9491	4750	2 +	8
	7670	7906	8144	8408	8631	8842	9164	9391	4625	3 +	7
	7353	7547	7788	7998	8246	8465	8685	8927	4500	–	9 ¹⁾
	7273	7472	7721	7922	8169	8358	8616	8866	4375	1 +	8
	6855	7067	7282	7470	7670	7862	8145	8344	4250	2 +	7
	6781	6974	7184	7387	7567	7772	8060	8238	4125	3 +	6
	6449	6613	6829	7008	7200	7372	7583	7824	4000	–	8 ¹⁾
	6363	6537	6748	6910	7110	7266	7479	7728	3875	1 +	7
	6274	6468	6655	6830	7007	7183	7449	7629	3750	2 +	6
	6201	6370	6567	6751	6906	7098	7361	7519	3625	3 +	5
	5619	5762	5947	6104	6279	6418	6593	6817	3500	–	7 ¹⁾
	5527	5697	5868	6037	6176	6335	6560	6705	3375	1 +	6
	5447	5601	5775	5937	6075	6234	6459	6605	3250	2 +	5
	5376	5529	5702	5843	5998	6196	6355	6510	3125	3 +	4
	5047	5171	5329	5470	5626	5751	5904	6095	3000	–	6 ¹⁾
	4833	4963	5102	5228	5366	5493	5639	5762	2875	1 +	5
	4759	4879	5015	5139	5264	5391	5540	5658	2750	2 +	4
	4666	4791	4932	5052	5171	5300	5432	5559	2625	3 +	3
	4273	4399	4510	4616	4735	4851	4971	5087	2500	–	5 ¹⁾
	4183	4301	4415	4524	4644	4751	4859	4981	2375	1 +	4
	4111	4208	4325	4436	4540	4645	4772	4872	2250	2 +	3
	4022	4121	4245	4345	4451	4553	4664	4775	2125	3 +	2
	3683	3788	3894	3983	4069	4174	4264	4357	2000	–	4 ¹⁾
	3614	3710	3799	3892	3985	4069	4169	4261	1875	1 +	3



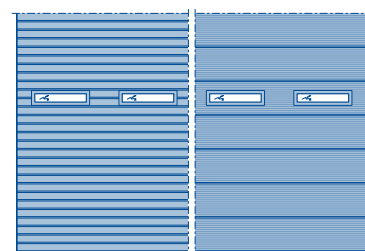
Basic model



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

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 19
Compound glazings type A and type D	Page 19
Intermediate heights	Page 19
Ventilation grilles	Page 19
Surface coating	From page 84
Accessories	From page 86

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 Rail 52 mm		Glazing frame made of a profile with thermal break For door widths ≤ 7000 mm Rail 52 mm	
Version with:	U _g in W/(m²·K)	Article no.	€ per m²	Article no.	€ per m²
Clear synthetic single pane (FK) ²⁾	3 mm	3091048	184	–	–
Synthetic single pane, crystal structure (KR) ²⁾	3 mm	3091049	184	–	–
Clear synthetic double pane (S2)	26 mm [U _g = 2.6]	3091052	184	3091076	272
Synthetic double pane, crystal structure (U2)	26 mm [U _g = 2.6]	3094574	184	3094576	272
Synthetic double pane, grey tinted (A2)	26 mm [U _g = 2.6]	3091267	208	3091279	307
Synthetic double pane, white tinted (opal) (M2)	26 mm [U _g = 2.6]	3091269	208	3091281	307
Clear synthetic triple pane (S 3)	26 mm [U _g = 1.9]	3091054	248	3091078	324
Synthetic triple pane, crystal structure (U3)	26 mm [U _g = 1.9]	3094575	248	3094577	324
Synthetic triple pane, grey tinted (A 3)	26 mm [U _g = 1.9]	3091270	276	3091282	358
Synthetic triple pane, white tinted (opal) (M3)	26 mm [U _g = 1.9]	3091272	276	3091284	358
Clear polycarbonate single pane (P)	6 mm	3091050	265	–	–
Clear polycarbonate double pane (C2)	26 mm [U _g = 2.7]	3091055	265	3091079	354
Single pane made of laminated safety glass (VG) ¹⁾	6 mm	3091056	453	–	–
Double pane made of single-pane safety glass (E2) ¹⁾	26 mm [U _g = 2.6]	3091057	700	3091080	782
Climatic double pane made of single-pane safety glass (G2) ¹⁾	26 mm [U _g = 1.1]	3091058	788	3091081	873
Multiple-moulded pane (S)	16 mm [U _g = 1.9]	3091051	184	3091733	272
Stainless steel expanded mesh (SE) ²⁾ , ventilation cross section 54 % of the infill surface (Colour coating not possible)	5 mm	3091059	214	–	–
Perforated stainless sheet steel (LB) ²⁾ , perforation: 8 mm, ventilation cross section 40 % of the infill surface (Colour coating not possible)	1.5 mm	3091060	300	–	–
Prepared for on-site infill (BS) ¹⁾ (Anodised glazing bead required)		3091061	184	3091082	272
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	73
Type A: Diecast frame with clear synthetic double pane ³⁾	26 mm		3042790	Each	152
Type A: Diecast frame with clear polycarbonate double pane ³⁾	26 mm		3042792	Each	181
Type A: Diecast frame with clear real glass double pane (P4A) ¹⁾	26 mm		3094156	Each	482
Type D: Plastic frame with clear synthetic double pane ³⁾	16 mm		3055167	Each	101
Type E: Plastic frame with clear synthetic double pane ³⁾	33 mm		3054544	Each	98
Intermediate heights			Article no.	€ to the next grid height	
Top door section adjusted for intermediate height			3055280	Per running metre door width	47
Ventilation grilles			Article no.	€	
Black plastic ventilation grille, ventilation cross-section 40 cm² per grille			3092450	Each	36
Sliding cover for ventilation grille			3092451	Each	51
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	534
Surface coating			From page 84		
Accessories			From page 86		

- 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 Rail 52 mm		Glazing frame made of a profile with thermal break For door widths ≤ 7000 mm Rail 52 mm	
Version with:	U _g in W/(m ² ·K)	Article no.	€ per m ²	Article no.	€ per m ²
Clear synthetic single pane (FK) ²⁾	3 mm	3091062	272	–	–
Synthetic single pane, crystal structure (KR) ²⁾	3 mm	3091063	272	–	–
Clear synthetic double pane (S2)	26 mm [U _g = 2.6]	3091066	272	3091083	405
Synthetic double pane, crystal structure (U2)	26 mm [U _g = 2.6]	3094578	272	3094580	405
Synthetic double pane, grey tinted (A2)	26 mm [U _g = 2.6]	3091273	307	3091285	453
Synthetic double pane, white tinted (opal) (M2)	26 mm [U _g = 2.6]	3091275	307	3091287	453
Clear synthetic triple pane (S 3)	26 mm [U _g = 1.9]	3091068	365	3091085	482
Synthetic triple pane, crystal structure (U3)	26 mm [U _g = 1.9]	3094579	365	3094581	482
Synthetic triple pane, grey tinted (A 3)	26 mm [U _g = 1.9]	3091276	410	3091288	529
Synthetic triple pane, white tinted (opal) (M3)	26 mm [U _g = 1.9]	3091278	410	3091290	529
Clear polycarbonate single pane (P)	6 mm	3091064	394	–	–
Clear polycarbonate double pane (C2)	26 mm [U _g = 2.7]	3091069	394	3091086	524
Single pane made of laminated safety glass (VG) ³⁾	6 mm	3091070	675	–	–
Double pane made of single-pane safety glass (E2) ³⁾	26 mm [U _g = 2.6]	3091071	1033	3091087	1168
Climatic double pane made of single-pane safety glass (G2) ³⁾	26 mm [U _g = 1.1]	3091072	1171	3091088	1299
Multiple-moulded pane (S)	16 mm [U _g = 1.9]	3091065	272	3091734	405
Stainless steel expanded mesh (SE) ²⁾ , ventilation cross section 54 % of the infill surface (Colour coating not possible)	5 mm	3091073	318	–	–
Perforated stainless sheet steel (LB) ²⁾ , perforation: 8 mm, ventilation cross section 40 % of the infill surface (Colour coating not possible)	1.5 mm	3091074	444	–	–
Prepared for on-site infill (BS) ¹⁾ (Anodised glazing bead required)		3091075	272	3091089	405
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	73	
Type A: Diecast frame with clear synthetic double pane ⁴⁾	26 mm	3042790	Each	152	
Type A: Diecast frame with clear polycarbonate double pane ⁴⁾	26 mm	3042792	Each	181	
Type A: Diecast frame with clear real glass double pane (P4A) ¹⁾	26 mm	3094156	Each	482	
Type D: Plastic frame with clear synthetic double pane ⁴⁾	16 mm	3055167	Each	101	
Intermediate heights			Article no.	€ to the next grid height	
Top door section adjusted for intermediate height			3055280	Per running metre door width	47
Ventilation grilles			Article no.	€	
Black plastic ventilation grille, ventilation cross-section 40 cm ² per grille			3092450	Each	36
Sliding cover for ventilation grille			3092451	Each	51
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	534
Surface coating					From page 84
Accessories					From page 86

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!

Sectional door APU F42 Door sections with finger trap protection

Glazed aluminium sectional door, with steel bottom section, Stucco-textured or 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 double pane, 26 mm, (S2).**
Delivery versions must be determined with the listed surcharges.

Track versions and surcharges can be found on pages 10 – 13.

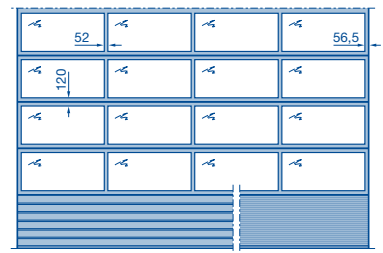
For a product description, see pages 6 and 9.

Doors with a grid height over 7500 mm on request.

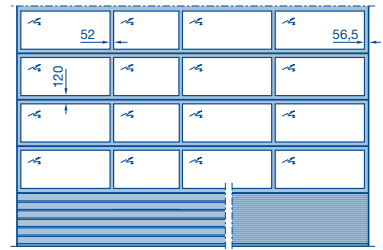
Grid height	7500				8545	8874	9123	9806	10107	10466	10720	11540	11894	12675	13184	14006	14267	14942	15176	
	7375				8335	8663	8915	9598	9897	10259	10509	11331	11685	12465	12971	13798	14053	14731	14966	
	7250				8124	8453	8702	9387	9683	10045	10300	11119	11474	12256	12765	13584	13846	14522	14757	
	7125				7912	8243	8491	9174	9473	9837	10086	10911	11262	12043	12550	13377	13634	14310	14547	
	7000				7678	8001	8249	8918	9207	9556	9803	10613	10958	11721	12220	13026	13281	13945	14175	
	6875				7597	7921	8165	8837	9127	9472	9717	10526	10869	11636	12132	12943	13196	13858	14089	
	6750				7228	7551	7792	8465	8753	9088	9333	10140	10486	11251	11750	12556	12811	13472	13700	
	6625				7160	7489	7731	8400	8696	9008	9253	10063	10404	11172	11670	12478	12731	13396	13624	
	6500				7070	7393	7638	8308	8602	8926	9170	9981	10322	11090	11587	12396	12651	13310	13543	
	6375				6992	7316	7557	8228	8521	8839	9083	9895	10237	11001	11480	12288	12541	13204	13435	
	6250				6909	7236	7480	8151	8441	8758	9006	9814	10156	10923	11256	12067	12316	12983	13213	
	6125				6843	7169	7413	8084	8377	8673	8923	9727	10072	10839	11172	11983	12233	12899	13129	
	6000				6376	6703	6949	7619	7910	8212	8455	9261	9605	10377	10705	11519	11768	12430	12664	
	5875				6300	6627	6870	7542	7832	8126	8370	9178	9515	10282	10605	11411	11667	12326	12557	
	5750				5884	6211	6455	7125	7417	7711	7956	8761	9045	9813	10095	10904	11156	11818	12053	
	5625				5815	6142	6389	7069	7339	7628	7871	8677	8976	9708	9991	10800	11052	11716	11945	
	5500				5748	6072	6313	6974	7260	7518	7766	8572	8857	9610	9873	10685	10935	11598	11830	
	5375				5680	6002	6248	6897	7184	7460	7707	8480	8762	9510	9783	10594	10845	11509	11742	
	5250				5369	5693	5939	6532	6804	7067	7314	8026	8290	8971	9229	10036	10291	10952	11183	
	5125				5300	5623	5868	6477	6723	6984	7231	7880	8224	8873	9120	9933	10185	10848	11080	
	5000	4756	4247	4345	4568	4893	5135	5667	5908	6131	6373	7029	7267	7923	8189	9001	9249	9913	10147	
	4875	4703	4195	4292	4512	4834	5074	5618	5835	6078	6292	6941	7177	7832	8096	8899	9145	9781	10060	
	4750	4629	4122	4221	4450	4769	5000	5547	5756	5995	6208	6852	7082	7730	7991	8805	9039	9662	9971	
	4625	4580	4073	4170	4396	4711	4920	5474	5696	5918	6154	6783	6997	7638	7898	8708	8969	9551	9859	
	4500	4358	3846	3925	4122	4423	4641	5095	5315	5513	5731	6239	6452	6997	7263	7991	8215	8764	8977	
	4375	4304	3799	3874	4068	4365	4579	5048	5244	5457	5650	6154	6363	6933	7169	7890	8110	8658	8893	
	4250	4234	3727	3803	3926	4147	4311	4841	5042	5237	5423	5913	6117	6648	6877	7455	7679	8264	8499	
	4125	3964	3455	3642	3872	4087	4272	4770	4970	5181	5342	5827	6030	6551	6778	7351	7600	8157	8381	
	4000	3894	3388	3599	3811	4024	4183	4701	4894	5083	5259	5721	5939	6433	6664	7249	7443	7986	8237	
	3875	3845	3341	3541	3755	3967	4119	4629	4820	5007	5181	5662	5853	6364	6583	7149	7365	7922	8141	
	3750	3619	3112	3278	3483	3683	3819	4272	4451	4619	4781	5199	5374	5820	6024	6530	6725	7232	7431	
	3625	3570	3059	3219	3424	3619	3778	4199	4372	4562	4702	5111	5282	5724	5922	6426	6642	7115	7315	
	3500	3398	2891	3106	3244	3399	3586	3955	4119	4278	4450	4841	5026	5457	5613	6097	6285	6711	6889	
	3375	3323	2816	3028	3180	3316	3500	3863	4021	4177	4344	4732	4912	5338	5509	5975	6171	6575	6749	
	3250	3278	2769	2978	3125	3279	3437	3791	3978	4103	4263	4652	4823	5248	5410	5897	6069	6477	6660	
	3125	3225	2722	2925	3069	3218	3375	3748	3904	4023	4184	4567	4740	5155	5314	5797	5964	6367	6545	
	3000	2978	2467	2661	2775	2904	3069	3360	3506	3648	3757	4107	4265	4601	4745	5157	5313	5651	5803	
	2875	2923	2417	2543	2665	2801	2924	3233	3342	3496	3617	3929	4074	4413	4557	4935	5084	5412	5567	
	2750	2875	2368	2490	2610	2751	2858	3165	3289	3420	3536	3844	3991	4321	4473	4835	4982	5304	5453	
	2625	2841	2332	2437	2553	2695	2801	3088	3216	3342	3455	3762	3898	4239	4372	4732	4889	5194	5350	
	2500	2775	2265	2381	2500	2615	2731	3022	3123	3244	3367	3655	3789	4130	4261	4617	4751	5071	5201	
	2375	2726	2216	2329	2438	2553	2666	2955	3049	3167	3292	3588	3721	4037	4163	4526	4664	4971	5086	
	2250	2478	1969	2068	2163	2265	2367	2596	2675	2802	2895	3133	3248	3497	3620	3910	4027	4270	4385	
	2125	2441	1935	2017	2107	2224	2302	2518	2620	2725	2813	3051	3163	3421	3525	3828	3932	4159	4286	
	2000	2380	1872	1962	2058	2147	2246	2456	2530	2625	2727	2946	3053	3308	3399	3700	3802	4037	4139	
	1875	2332	1827	1910	1999	2093	2178	2387	2458	2549	2661	2861	2968	3217	3316	3609	3697	3934	4024	
Width From 1200		1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	
		Width																		
		Rail width 52 mm																		
Number of fields per glazing frame	1	2			3			4			5									
Number of ventilation grilles per door section	2	4			6			8			10									

APU F42

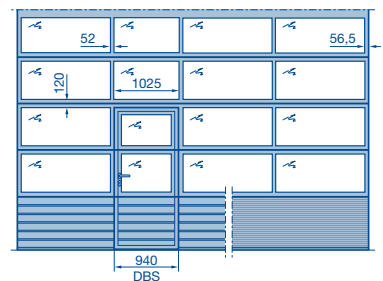
Wicket doors from page 64.



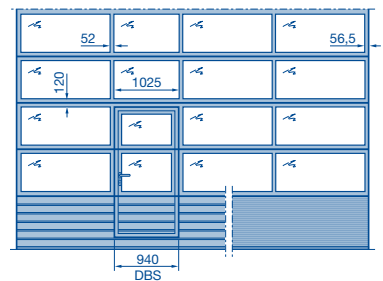
Basic model (without wicket door)
With uniform field division along the width



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



Version with wicket door with trip-free threshold



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⁾	
	15811	16442	17075	17707	18340				7500	9	8
	15588	16213	16837	17459	18084				7375	9	8
	15374	15987	16605	17219	17834				7250	9	8
	15151	15759	16364	16970	17577	18183			7125	9	8
	14766	15356	15946	16539	17130	17720			7000	9	8
	14678	15263	15851	16440	17027	17614			6875	9	8
	14277	14845	15416	15987	16558	17129	17700	18270	6750	8	7
	14193	14760	15328	15896	16463	17031	17599	18167	6625	8	7
	14108	14671	15237	15801	16364	16930	17495	18056	6500	8	7
	13995	14557	15114	15676	16237	16796	17353	17914	6375	8	7
	13764	14312	14865	15413	15965	16516	17065	17615	6250	8	7
	13676	14224	14773	15317	15861	16408	16956	17501	6125	8	7
	13452	13990	14525	15062	15603	16138	16675	17216	6000	7	6
	13223	13541	14062	14582	15102	15622	16144	16665	5875	7	6
	12715	13029	13532	14031	14534	15035	15537	16039	5750	7	6
	12612	12926	13213	13699	14192	14679	15171	15659	5625	7	6
	12497	12811	13096	13375	13852	14331	14807	15286	5500	7	6
	12404	12717	13008	13283	13758	14231	14705	15180	5375	7	6
	11846	12166	12452	12729	13184	13637	14089	14547	5250	6	5
	11747	12060	12347	12623	13073	13524	13973	14426	5125	6	5
	10811	11128	11411	11690	12058	12323	12652	12903	5000	6	5
	10722	11019	11290	11588	11919	12236	12520	12792	4875	6	5
	10642	10889	11194	11480	11781	12125	12374	12645	4750	6	5
	10526	10774	11070	11369	11679	11993	12236	12472	4625	6	5
	9679	9968	10226	10476	10800	11041	11336	11562	4500	5	4
	9590	9859	10106	10375	10665	10952	11210	11451	4375	5	4
	9142	9378	9597	9827	10084	10345	10578	10806	4250	5	4
	9057	9255	9477	9711	9979	10214	10433	10692	4125	5	4
	8865	9119	9333	9539	9813	10037	10266	10492	4000	5	4
	8745	9000	9219	9421	9686	9923	10129	10345	3875	5	4
	7916	8129	8313	8526	8749	8969	9177	9378	3750	4	3
	7833	8001	8191	8408	8636	8839	9039	9260	3625	4	3
	7352	7874	8042	8219	8453	8633	8854	9032	3500	4	3
	7209	7730	7890	8075	8307	8491	8701	8889	3375	4	3
	7118	7603	7774	7962	8169	8372	8547	8763	3250	4	3
	7000	7172	7659	7846	8059	8251	8432	8643	3125	4	3
	6168	6359	6509	6648	6843	7036	7495	7647	3000	3	2
	5921	6080	6227	6358	6545	6716	6847	7526	2875	3	2
	5805	5981	6097	6254	6431	6580	6711	6850	2750	3	2
	5707	5847	5973	6122	6313	6444	6583	6717	2625	3	2
	5544	5686	5833	5965	6118	6269	6426	6547	2500	3	2
	5446	5587	5720	5838	6009	6152	6285	6405	2375	3	2
	4676	4798	4910	5034	5159	5292	5395	5507	2250	2	1
	4579	4687	4782	4906	5061	5160	5266	5374	2125	2	1
	4416	4533	4647	4766	4864	4984	5099	5209	2000	2	1
	4298	4409	4546	4625	4733	4851	4975	5069	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 22
Alternative real glass infills	Page 22
Additional glazing frames	Page 22
Ventilation grilles	Page 22
Surface coating	From page 84
Accessories	From page 86

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	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	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	35
Synthetic double pane, white tinted (opal) (M2)	26 mm	[U _g = 2.6]	3091257	Each	35
Clear synthetic triple pane (S 3)	26 mm	[U _g = 1.9]	3091527	Each	84
Synthetic triple pane, crystal structure (U3)	26 mm	[U _g = 1.9]	3094583	Each	84
Synthetic triple pane, grey tinted (A 3)	26 mm	[U _g = 1.9]	3091258	Each	113
Synthetic triple pane, white tinted (opal) (M3)	26 mm	[U _g = 1.9]	3091260	Each	113
Clear polycarbonate single pane (P)	6 mm		3091523	Each	127
Clear polycarbonate double pane (C2)	26 mm	[U _g = 2.7]	3091528	Each	127
Multiple-moulded pane (S)	16 mm	[U _g = 1.9]	3091524	Each	No surcharge
Stainless steel expanded mesh (SE) ²⁾ , ventilation cross section 54 % of the infill surface (Colour coating not possible)	5 mm		3091529	Each	52
Perforated stainless sheet steel (LB) ²⁾ , perforation: 8 mm, ventilation cross section 40 % of the infill surface (Colour coating not possible)	1.5 mm		3091530	Each	155
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	144
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 made of laminated safety glass (VG)	6 mm		3091534	Per m ²	176
Double pane made of single-pane safety glass (E2)	26 mm	[U _g = 2.6]	3091535	Per m ²	405
Climatic double pane made of single-pane safety glass (G2)	26 mm	[U _g = 1.1]	3091536	Per m ²	539
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	No surcharge
Ventilation grilles			Article no.		€
Black plastic ventilation grille, ventilation cross-section 40 cm ² per grille			3092450	Each	36
Sliding cover for ventilation grille			3092451	Each	51
Further optional extras			Article no.		€
Surcharge for frame heights that differ from the standard			3060532	Per door	238
Surface coating					From page 84
Accessories					From page 86

1) On request

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

Notes and sketches

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

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 double pane, 26 mm, (S2).**
Delivery versions must be determined with the listed surcharges.

Track versions and surcharges can be found on pages 10 – 13.

For a product description, see pages 6 and 9.

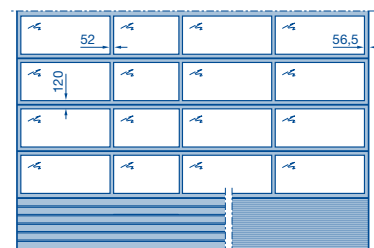
Doors with a grid height over 7500 mm on request.

Grid height	7500				9863	10238	10533	11469	11821	12256	12551	13123	13509	14450	14997	15848	16135	16968	
	7375				9653	10027	10322	11257	11611	12043	12342	12907	13298	14239	14786	15640	15926	16758	
	7250				9441	9818	10113	11047	11400	11833	12130	12700	13089	14028	14577	15427	15717	16547	
	7125				9233	9605	9903	10836	11189	11625	11920	12489	12875	13814	14367	15215	15505	16335	
	7000				8964	9333	9620	10538	10883	11303	11596	12149	12537	13456	13992	14825	15109	15925	
	6875				8876	9245	9536	10451	10796	11213	11502	12060	12438	13364	13898	14733	15018	15834	
	6750				8354	8723	9010	9928	10273	10667	10961	11519	11900	12820	13361	14191	14472	15290	
	6625				8284	8652	8941	9858	10204	10581	10876	11433	11813	12734	13269	14106	14386	15203	
	6500				8183	8555	8840	9756	10106	10492	10785	11340	11721	12645	13179	14013	14296	15113	
	6375				8099	8467	8753	9670	10019	10397	10693	11247	11632	12550	13067	13898	14184	14997	
	6250				8014	8381	8669	9587	9933	10312	10607	11163	11542	12465	12835	13672	13955	14773	
	6125				7939	8307	8596	9513	9858	10218	10512	11066	11449	12372	12744	13578	13860	14676	
	6000				7325	7692	7983	8898	9245	9599	9894	10446	10827	11752	12124	12960	13243	14054	
	5875				7240	7608	7898	8811	9160	9510	9801	10354	10729	11648	12010	12847	13128	13940	
	5750				6817	7187	7472	8390	8737	9082	9375	9933	10254	11174	11494	12324	12611	13425	
	5625				6742	7110	7397	8323	8649	8994	9285	9841	10177	11060	11379	12213	12497	13308	
	5500				6666	7035	7323	8224	8563	8877	9170	9726	10050	10953	11255	12086	12372	13186	
	5375				6590	6960	7247	8140	8479	8811	9106	9629	9949	10845	11155	11989	12272	13088	
	5250				6165	6533	6820	7633	7952	8263	8557	9047	9344	10160	10451	11282	11568	12379	
	5125				6091	6459	6749	7569	7863	8170	8466	8894	9270	10054	10338	11171	11451	12265	
	5000	5446	4938	5080	5351	5720	6005	6751	7043	7314	7604	8034	8303	9099	9396	10226	10510	11324	
	4875	5390	4882	5022	5285	5651	5939	6698	6961	7250	7516	7940	8208	8995	9289	10117	10392	11177	
	4750	5309	4803	4945	5217	5581	5864	6613	6877	7159	7426	7845	8107	8883	9177	10017	10274	11049	
	4625	5254	4748	4889	5161	5519	5775	6538	6809	7077	7363	7767	8015	8785	9071	9907	10200	10931	
	4500	4945	4437	4549	4782	5125	5377	6015	6281	6515	6778	7096	7335	7998	8288	9040	9285	9968	
	4375	4887	4378	4489	4721	5056	5309	5965	6195	6456	6688	7004	7237	7922	8188	8928	9172	9848	
	4250	4809	4304	4415	4576	4837	5037	5749	5993	6229	6455	6753	6986	7629	7884	8483	8735	9444	
	4125	4535	4024	4247	4513	4771	4990	5670	5910	6165	6366	6665	6889	7525	7776	8369	8645	9324	
	4000	4459	3952	4198	4450	4704	4898	5592	5827	6056	6277	6547	6791	7396	7652	8259	8478	9145	
	3875	4404	3895	4139	4385	4638	4823	5515	5749	5973	6191	6482	6698	7317	7562	8151	8392	9071	
	3750	4087	3582	3776	4014	4239	4409	5019	5229	5433	5631	5890	6088	6630	6852	7374	7592	8203	
	3625	4030	3525	3714	3947	4172	4364	4937	5146	5367	5542	5797	5992	6524	6744	7261	7500	8076	
	3500	3854	3346	3597	3761	3947	4164	4684	4887	5077	5280	5517	5727	6248	6427	6928	7137	7661	
	3375	3776	3269	3511	3695	3858	4072	4582	4779	4968	5166	5402	5606	6119	6312	6792	7010	7517	
	3250	3721	3216	3450	3629	3813	4003	4505	4723	4884	5079	5312	5511	6015	6206	6705	6898	7410	
	3125	3666	3161	3396	3571	3749	3932	4454	4645	4799	4993	5217	5416	5917	6097	6596	6786	7289	
	3000	3331	2821	3038	3170	3329	3514	3930	4100	4270	4403	4632	4809	5217	5377	5802	5978	6396	
	2875	3269	2761	2911	3054	3210	3359	3798	3929	4108	4258	4450	4614	5021	5181	5574	5740	6147	
	2750	3216	2706	2851	2997	3162	3291	3718	3870	4022	4170	4360	4522	4920	5087	5466	5626	6030	
	2625	3171	2665	2795	2934	3094	3221	3637	3787	3939	4080	4265	4424	4833	4982	5353	5523	5906	
	2500	3102	2597	2732	2873	3010	3149	3564	3688	3834	3983	4154	4304	4711	4858	5227	5377	5770	
	2375	3049	2543	2673	2807	2943	3081	3484	3603	3750	3903	4080	4230	4609	4754	5129	5282	5661	
	2250	2711	2204	2319	2429	2547	2661	2983	3086	3225	3340	3497	3624	3925	4060	4361	4488	4781	
	2125	2671	2163	2256	2368	2498	2593	2900	3021	3141	3251	3406	3530	3837	3955	4265	4383	4663	
	2000	2605	2098	2201	2310	2418	2526	2830	2924	3039	3159	3294	3417	3718	3818	4130	4243	4527	
	1875	2547	2040	2141	2244	2351	2454	2755	2844	2958	3083	3205	3321	3615	3727	4028	4130	4420	
Width		1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	
Width																			
Rail width 52 mm																			
Number of fields per glazing frame	1	2			3			4			5			6			7		
Number of ventilation grilles per door section	2	4			6			8			10			12			14		

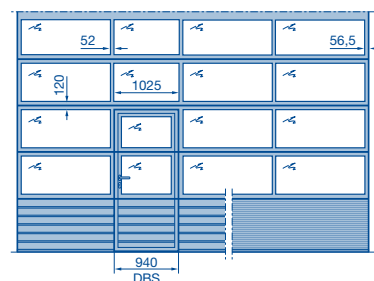
APU F42 Thermo
Wicket doors from page 64.



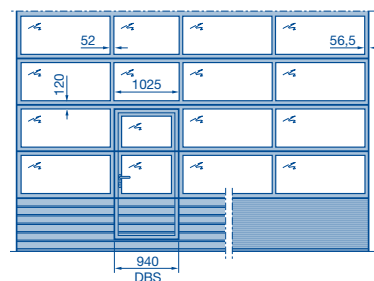
Basic model (without wicket door)
With uniform field division along the width



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



Version with wicket door with trip-free threshold



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⁾
17234	17955	18673	19392		7500	9	8
17025	17733	18443	19153	19863	7375	9	8
16813	17517	18216	18915	19617	7250	9	8
16605	17296	17988	18679	19370	7125	9	8
16187	16861	17535	18210	18882	7000	9	8
16091	16764	17436	18106	18775	6875	9	8
15553	16202	16849	17497	18145	6750	8	7
15465	16113	16754	17400	18044	6625	8	7
15375	16015	16657	17297	17936	6500	8	7
15259	15896	16530	17167	17805	6375	8	7
15032	15659	16287	16913	17539	6250	8	7
14940	15564	16184	16808	17430	6125	8	7
14318	15047	15647	16249	16850	6000	7	6
14203	14932	15275	15860	16447	5875	7	6
13688	14413	14758	15328	15896	5750	7	6
13573	14298	14643	14963	15519	5625	7	6
13449	14173	14521	14840	15148	5500	7	6
13349	14074	14421	14738	15051	5375	7	6
12645	13369	13715	14034	14344	5250	6	5
12531	13258	13604	13922	14231	5125	6	5
11588	12313	12658	12979	13289	5000	6	5
11489	12209	12544	12847	13174	4875	6	5
11395	12124	12402	12738	13054	4750	6	5
11271	11996	12276	12606	12938	4625	6	5
10204	10960	11276	11558	11835	4500	5	4
10111	10858	11155	11424	11721	4375	5	4
9707	10400	10662	10907	11168	4250	5	4
9578	10306	10532	10780	11040	4125	5	4
9424	10100	10383	10621	10855	4000	5	4
9315	9968	10252	10496	10728	3875	5	4
8424	8949	9183	9390	9627	3750	4	3
8294	8854	9047	9259	9498	3625	4	3
7862	8361	8912	9101	9297	3500	4	3
7713	8213	8751	8938	9143	3375	4	3
7610	8109	8618	8810	9018	3250	4	3
7483	7982	8170	8686	8893	3125	4	3
6565	6956	7162	7330	7483	3000	3	2
6313	6699	6876	7036	7187	2875	3	2
6192	6573	6766	6901	7072	2750	3	2
6077	6464	6620	6764	6930	2625	3	2
5918	6286	6451	6610	6763	2500	3	2
5795	6180	6344	6488	6628	2375	3	2
4911	5216	5352	5479	5613	2250	2	1
4799	5112	5231	5341	5478	2125	2	1
4641	4938	5069	5194	5324	2000	2	1
4522	4808	4934	5083	5172	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 26
Additional glazing frames	Page 26
Rail width 91 mm	Page 26
Ventilation grilles	Page 26
Surface coating	From page 84
Accessories	From page 86

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/(m²·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	35
Synthetic double pane, white tinted (opal) (M2)	26 mm	[U _g = 2.6]	3091257	Each	35
Clear synthetic triple pane (S 3)	26 mm	[U _g = 1.9]	3091527	Each	84
Synthetic triple pane, crystal structure (U3)	26 mm	[U _g = 1.9]	3094583	Each	84
Synthetic triple pane, grey tinted (A 3)	26 mm	[U _g = 1.9]	3091258	Each	113
Synthetic triple pane, white tinted (opal) (M3)	26 mm	[U _g = 1.9]	3091260	Each	113
Clear polycarbonate double pane (C2)	26 mm	[U _g = 2.7]	3091528	Each	127
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	144
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	405
Climatic double pane made of single-pane safety glass (G2)	26 mm	[U _g = 1.1]	3091536	Per m²	539
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 cm² per grille			3092450	Each	36
Sliding cover for ventilation grille			3092451	Each	51
Further optional extras			Article no.		€
Surcharge for frame heights that differ from the standard			3060532	Per door	238
Surface coating				From page 84	
Accessories				From page 86	

1) On request

Notes and sketches

Sectional door APU F42 Door sections with finger trap protection

Glazed aluminium sectional door

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 double pane, 26 mm, (S2), with bottom PU infill with aluminium sheet cover, Stucco-textured on both sides, 26 mm, (FU)**. Delivery versions must be determined with the listed surcharges.

Track versions and surcharges can be found on pages 10 – 13.

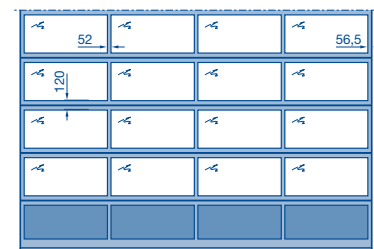
For a product description, see pages 6 and 9.

Doors with a grid height over 7500 mm on request.

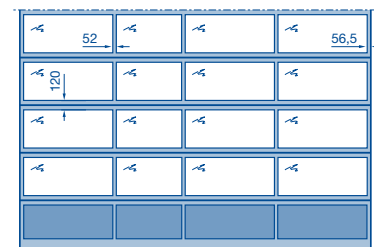
Grid height	7500					8879	9236	9513	10261	10583	10971	11244	12225	12611	13468	14010	14840	15131	16148
	7375					8669	9025	9302	10050	10378	10757	11032	12014	12398	13261	13801	14631	14919	15935
	7250					8459	8817	9091	9840	10163	10547	10821	11804	12189	13049	13588	14418	14707	15730
	7125					8250	8606	8879	9629	9954	10339	10613	11591	11981	12835	13379	14205	14499	15517
	7000					8011	8359	8630	9362	9682	10051	10321	11282	11662	12503	13033	13847	14133	15130
	6875					7932	8280	8554	9285	9603	9967	10237	11199	11576	12421	12950	13763	14049	15047
	6750					7566	7916	8187	8923	9238	9588	9854	10818	11196	12038	12570	13380	13669	14665
	6625					7498	7848	8117	8852	9172	9503	9771	10734	11111	11954	12485	13296	13581	14580
	6500					7401	7750	8023	8753	9073	9421	9687	10650	11025	11871	12402	13213	13497	14497
	6375					7320	7671	7940	8673	8995	9336	9602	10567	10941	11787	12296	13103	13393	14389
	6250					7240	7591	7861	8592	8915	9247	9517	10481	10856	11701	12071	12883	13168	14165
	6125					7172	7519	7789	8524	8842	9161	9430	10391	10771	11613	11984	12792	13083	14077
	6000					6713	7066	7333	8069	8389	8706	8976	9938	10313	11158	11528	12341	12627	13621
	5875					6639	6987	7255	7989	8313	8623	8893	9853	10221	11065	11422	12235	12520	13519
	5750					6220	6572	6841	7572	7895	8203	8472	9433	9752	10596	10909	11720	12007	13006
	5625					6148	6497	6767	7517	7813	8116	8384	9349	9674	10488	10801	11613	11900	12898
	5500					6078	6428	6698	7422	7732	8011	8278	9238	9556	10389	10688	11497	11786	12782
	5375					6005	6358	6628	7346	7652	7950	8219	9147	9461	10285	10586	11400	11687	12686
	5250					5706	6056	6329	6987	7280	7566	7835	8702	9004	9761	10051	10863	11147	12145
	5125					5637	5987	6255	6929	7199	7480	7749	8555	8928	9662	9943	10754	11042	12038
	5000	5031	4525	4653	4900	5252	5520	6116	6387	6627	6893	7694	7968	8712	9007	9818	10106	11101	
	4875	4977	4472	4598	4843	5189	5454	6063	6309	6568	6809	7609	7875	8610	8912	9715	9992	10958	
	4750	4902	4399	4524	4779	5122	5383	5992	6229	6484	6723	7518	7783	8511	8803	9617	9881	10835	
	4625	4853	4345	4465	4718	5058	5293	5914	6167	6400	6660	7439	7689	8408	8700	9510	9803	10717	
	4500	4640	4133	4233	4459	4782	5029	5550	5797	6009	6255	6918	7159	7789	8085	8817	9068	9955	
	4375	4589	4080	4181	4402	4721	4965	5500	5718	5954	6171	6829	7070	7719	7987	8710	8961	9840	
	4250	4514	4009	4107	4259	4503	4694	5285	5515	5728	5941	6584	6817	7427	7689	8264	8525	9441	
	4125	4239	3733	3941	4197	4441	4653	5213	5441	5669	5859	6490	6725	7329	7587	8161	8438	9326	
	4000	4171	3662	3895	4134	4378	4561	5138	5360	5566	5772	6383	6630	7200	7466	8050	8277	9153	
	3875	4119	3614	3843	4080	4319	4495	5071	5285	5489	5689	6316	6543	7135	7379	7951	8193	9088	
	3750	3903	3396	3584	3818	4043	4208	4725	4933	5122	5309	5875	6084	6610	6846	7351	7580	8417	
	3625	3845	3341	3526	3757	3979	4164	4652	4851	5056	5218	5785	5990	6510	6739	7241	7492	8296	
	3500	3675	3168	3408	3573	3757	3970	4404	4596	4771	4968	5509	5728	6239	6431	6912	7135	8117	
	3375	3601	3093	3332	3513	3668	3880	4304	4494	4666	4857	5396	5612	6117	6317	6781	7010	7747	
	3250	3547	3041	3279	3450	3626	3814	4231	4441	4584	4772	5308	5519	6013	6215	6698	6901	7645	
	3125	3499	2992	3221	3394	3566	3749	4183	4367	4503	4687	5218	5430	5918	6112	6589	6789	7527	
	3000	3257	2750	2969	3109	3266	3460	3814	3985	4146	4284	4781	4976	5391	5567	5977	6170	6842	
	2875	3204	2696	2849	3000	3158	3306	3686	3818	3991	4139	4601	4780	5199	5375	5753	5935	6596	
	2750	3151	2643	2789	2937	3107	3242	3609	3757	3906	4048	4510	4684	5095	5280	5642	5816	6475	
	2625	3112	2607	2736	2880	3044	3172	3528	3681	3825	3965	4423	4593	5012	5174	5530	5720	6359	
	2500	3047	2541	2676	2821	2964	3105	3461	3583	3721	3874	4310	4479	4897	5058	5412	5576	6229	
	2375	2994	2489	2624	2757	2899	3038	3387	3507	3642	3792	4238	4404	4796	4956	5312	5479	6117	
	2250	2757	2251	2378	2500	2628	2751	3049	3158	3298	3420	3811	3958	4288	4442	4731	4884	5455	
	2125	2722	2213	2320	2438	2580	2687	2966	3093	3216	3331	3718	3866	4198	4337	4639	4779	5331	
	2000	2656	2147	2262	2382	2501	2621	2898	3000	3112	3239	3609	3750	4083	4205	4500	4638	5205	
	1875	2605	2098	2205	2320	2432	2547	2821	2921	3029	3165	3517	3651	3981	4112	4402	4524	5092	
Width From 1200		1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	
		Width																	
		Rail width 52 mm																	
Number of fields per glazing frame	1	2					3					4					5		
Number of ventilation grilles per door section	2	4					6					8					10		

ALR F42

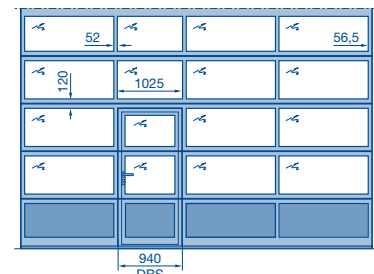
Wicket doors from page 64.



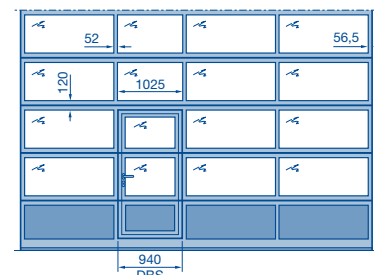
Basic model (without wicket door)
With uniform field division along the width



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



Version with wicket door with trip-free threshold



Version with wicket door and threshold rail

DBS Wicket door clear passage width

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

Alternative infills	Page 30
Alternative real glass infills	Page 30
Additional glazing frames	Page 30
Rail width 91 mm	Page 30
Ventilation grilles	Page 30
Surface coating	From page 84
Accessories	From page 86

										Number of glazing frames 1)
										[A]
16421	17106	17791	18475	19157					7500	10
16213	16889	17564	18240	18914					7375	10
16001	16669	17337	18003	18670	19333				7250	10
15791	16447	17108	17765	18423	19080				7125	10
15398	16040	16681	17320	17962	18604				7000	10
15315	15955	16589	17228	17868	18504				6875	10
14935	15559	16179	16802	17424	18045	18670	19291		6750	9
14849	15467	16086	16706	17323	17944	18561	19181		6625	9
14764	15379	15997	16611	17227	17843	18456	19073	19687	6500	9
14661	15267	15883	16492	17105	17714	18324	18936	19547	6375	9
14433	15035	15640	16240	16840	17441	18043	18644	19245	6250	9
14346	14944	15542	16141	16738	17338	17933	18530	19130	6125	9
13890	14548	15131	15712	16292	16877	17457	18041	18622	6000	8
13790	14444	14795	15367	15934	16503	17073	17641	18210	5875	8
13272	13929	14281	14832	15379	15931	16479	17030	17578	5750	8
13166	13819	14173	14501	15040	15575	16114	16648	17187	5625	8
13050	13701	14059	14385	14703	15227	15756	16280	16803	5500	8
12953	13609	13964	14287	14604	15127	15647	16168	16691	5375	8
12416	13071	13425	13752	14067	14470	14783	15278	15768	5250	7
12309	12964	13317	13645	13963	14364	14676	15167	15655	5125	7
11369	12026	12378	12704	13021	13426	13738	14101	14395	5000	7
11279	11930	12264	12574	12907	13286	13645	13968	14279	4875	7
11188	11846	12130	12475	12794	13143	13528	13813	14119	4750	7
11065	11721	12004	12341	12675	13029	13381	13664	13934	4625	7
10204	10903	11226	11527	11812	12183	12464	12793	13060	4500	6
10114	10805	11114	11397	11705	12043	12371	12663	12949	4375	6
9716	10350	10627	10877	11147	11457	11755	12023	12290	4250	6
9591	10261	10500	10756	11024	11336	11610	11874	12168	4125	6
9437	10062	10350	10605	10845	11163	11431	11698	11955	4000	6
9343	9940	10232	10486	10728	11040	11314	11557	11812	3875	6
8660	9141	9390	9610	9867	10135	10391	10642	10881	3750	5
8532	9045	9254	9485	9738	10016	10256	10491	10751	3625	5
8381	8863	9123	9330	9544	9825	10039	10304	10521	3500	5
8252	8710	8969	9169	9397	9670	9897	10140	10368	3375	5
8141	8605	8838	9047	9274	9526	9765	9979	10237	3250	5
7743	8189	8397	8925	9145	9403	9633	9852	10103	3125	5
7032	7387	7619	7808	8308	8530	8741	8959	9149	3000	4
6786	7137	7331	7516	8180	8408	8612	8819	9016	2875	4
6664	7007	7221	7376	7568	8267	8480	8662	8880	2750	4
6548	6903	7079	7244	7431	8147	8346	8535	8755	2625	4
6397	6729	6912	7096	7270	7466	8145	8332	8524	2500	4
6272	6626	6804	6968	7126	7346	7518	8200	8367	2375	4
5613	5896	6056	6207	6369	6538	6716	6852	7006	2250	3
5500	5786	5935	6072	6229	6428	6566	6711	6855	2125	3
5347	5614	5767	5922	6078	6227	6383	6533	6679	2000	3
5217	5487	5636	5809	5922	6078	6231	6395	6521	1875	3

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

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/(m²·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	35
Synthetic double pane, white tinted (opal) (M2)	26 mm	[U _g = 2.6]	3091257	Each	35
Clear synthetic triple pane (S 3)	26 mm	[U _g = 1.9]	3091527	Each	84
Synthetic triple pane, crystal structure (U3)	26 mm	[U _g = 1.9]	3094583	Each	84
Synthetic triple pane, grey tinted (A 3)	26 mm	[U _g = 1.9]	3091258	Each	113
Synthetic triple pane, white tinted (opal) (M3)	26 mm	[U _g = 1.9]	3091260	Each	113
Clear polycarbonate single pane (P)	6 mm		3091523	Each	127
Clear polycarbonate double pane (C2)	26 mm	[U _g = 2.7]	3091528	Each	127
Multiple-moulded pane (S)	16 mm	[U _g = 1.9]	3091524	Each	No surcharge
Stainless steel expanded mesh (SE) ²⁾ , ventilation cross section 54 % of the infill surface (Colour coating not possible)	5 mm		3091529	Each	52
Perforated stainless sheet steel (LB) ²⁾ , perforation: 8 mm, ventilation cross section 40 % of the infill surface (Colour coating not possible)	1.5 mm		3091530	Each	155
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	144
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:					
Single pane made of laminated safety glass (VG)	6 mm		3091534	Per m²	176
Double pane made of single-pane safety glass (E2)	26 mm	[U _g = 2.6]	3091535	Per m²	405
Climatic double pane made of single-pane safety glass (G2)	26 mm	[U _g = 1.1]	3091536	Per m²	539
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 cm² per grille			3092450	Each	36
Sliding cover for ventilation grille			3092451	Each	51
Further optional extras			Article no.		€
Surcharge for frame heights that differ from the standard			3060532	Per door	238
Surface coating					From page 84
Accessories					From page 86

1) On request

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

Sectional door APU F42 Door sections with finger trap protection

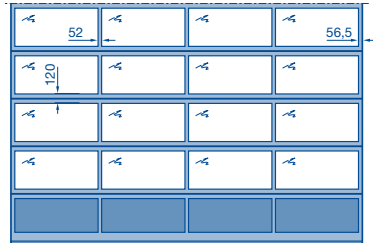
Glazed aluminium sectional door

Alternative infills and glazing frames

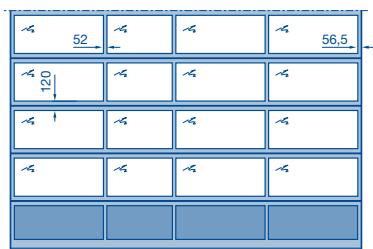
Sectional door ALR F42

Wicket doors from page 64.

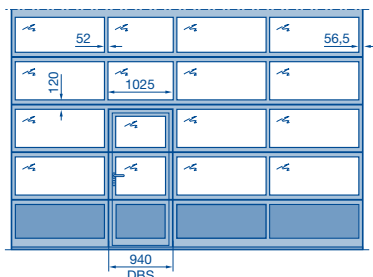
Bottom door section with PU infill, with aluminium sheet cover



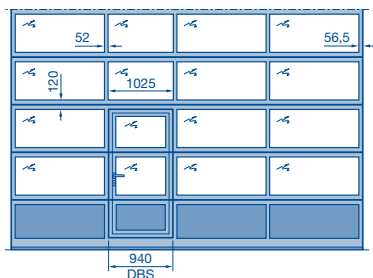
Basic model (without wicket door)
With uniform field division along the width



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



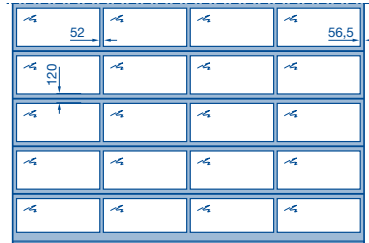
Version with wicket door with trip-free threshold



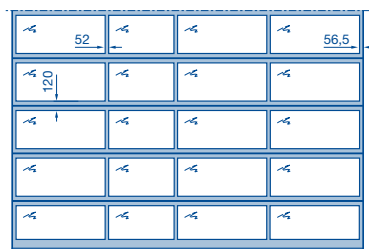
Version with wicket door and threshold rail

Bottom door section with (optional) glazing

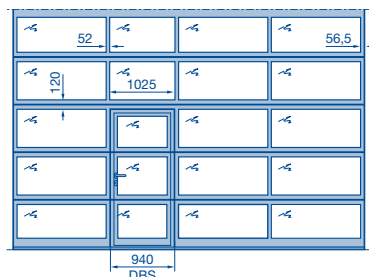
Width up to 5500 mm



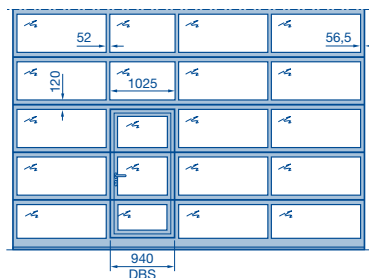
Version with glazing in the lowest door section (without wicket door)
With uniform field division along the width



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

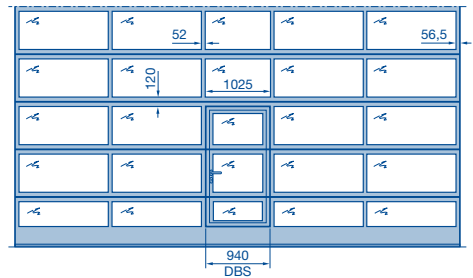
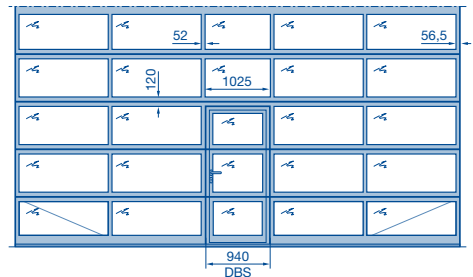
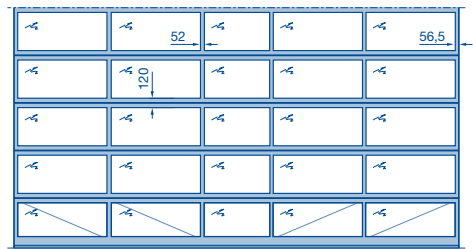
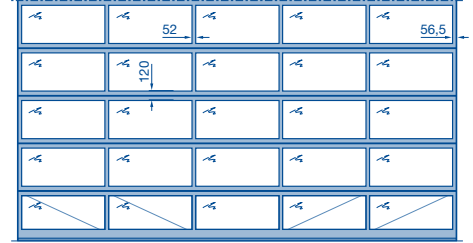


Version with glazing in the lowest door section, with wicket door with trip-free threshold



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

* Notice:

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 APU F42 Thermo Door sections with finger trap protection

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 double pane, 26 mm, (S2), with bottom PU infill with aluminium sheet cover, Stucco-textured on both sides, 26 mm, (FU)**. Delivery versions must be determined with the listed surcharges.

Track versions and surcharges can be found on pages 10 – 13.

For a product description, see pages 6 and 9.

Doors with a grid height over 7500 mm on request.

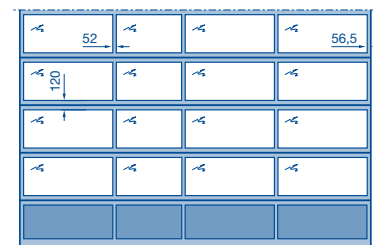
Grid height	7500					10432	10853	11194	12231	12631	13112	13457	14071	14505	15553	16142	17001	17337	18558
	7375					10223	10642	10984	12022	12423	12904	13248	13860	14292	15340	15932	16796	17122	18347
	7250					10016	10431	10774	11810	12213	12694	13034	13650	14086	15131	15723	16582	16914	18135
	7125					9802	10221	10560	11598	12000	12484	12823	13442	13875	14919	15514	16371	16703	17924
	7000					9525	9938	10267	11289	11680	12145	12481	13085	13511	14538	15116	15961	16283	17484
	6875					9437	9851	10185	11201	11596	12056	12390	12989	13416	14444	15023	15867	16193	17392
	6750					8927	9340	9671	10692	11084	11520	11854	12460	12883	13910	14486	15333	15657	16854
	6625					8850	9261	9598	10615	11008	11428	11762	12366	12789	13814	14396	15240	15566	16763
	6500					8748	9160	9493	10510	10904	11335	11671	12274	12700	13724	14303	15147	15474	16671
	6375					8660	9069	9403	10425	10816	11244	11580	12183	12607	13634	14190	15032	15356	16557
	6250					8569	8982	9315	10335	10728	11147	11485	12086	12512	13541	13959	14801	15127	16325
	6125					8491	8905	9237	10256	10650	11053	11391	11991	12418	13444	13860	14704	15029	16230
	6000					7888	8302	8636	9653	10045	10442	10780	11384	11808	12831	13251	14095	14421	15618
	5875					7804	8217	8551	9564	9958	10353	10692	11293	11708	12733	13138	13981	14307	15506
	5750					7378	7791	8126	9142	9538	9928	10262	10865	11226	12255	12616	13458	13783	14983
	5625					7300	7715	8047	9078	9448	9834	10165	10773	11143	12135	12500	13342	13669	14867
	5500					7229	7638	7970	8974	9360	9717	10054	10657	11022	12029	12375	13219	13544	14745
	5375					7149	7558	7895	8891	9274	9648	9986	10552	10917	11916	12269	13111	13440	14639
	5250					6729	7145	7478	8393	8753	9115	9448	9986	10325	11247	11581	12425	12747	13949
	5125					6654	7069	7401	8331	8666	9018	9353	9826	10246	11137	11462	12308	12630	13832
	5000	5921	5412	5603	5914	6329	6660	7507	7843	8157	8491	8964	9280	10179	10515	11361	11686	12884	
	4875	5861	5353	5544	5850	6258	6588	7450	7757	8090	8398	8868	9178	10070	10413	11247	11568	12730	
	4750	5781	5276	5464	5781	6187	6510	7366	7670	7999	8303	8764	9077	9956	10297	11140	11445	12596	
	4625	5724	5216	5398	5714	6117	6414	7283	7600	7910	8237	8686	8976	9847	10184	11023	11361	12468	
	4500	5423	4916	5074	5351	5732	6037	6775	7081	7366	7670	8030	8317	9083	9421	10178	10465	11531	
	4375	5365	4857	5012	5287	5667	5963	6724	6996	7300	7578	7938	8217	9006	9312	10062	10347	11404	
	4250	5283	4778	4933	5136	5442	5686	6498	6787	7069	7340	7684	7958	8702	9004	9605	9905	10997	
	4125	5006	4497	4765	5074	5371	5638	6418	6702	7000	7245	7587	7857	8596	8891	9495	9811	10872	
	4000	4930	4423	4711	5006	5303	5543	6338	6614	6889	7154	7467	7753	8460	8759	9373	9639	10686	
	3875	4873	4367	4655	4945	5237	5470	6262	6537	6805	7066	7396	7659	8382	8669	9265	9549	10610	
	3750	4569	4064	4300	4580	4854	5070	5777	6038	6282	6524	6832	7071	7717	7984	8514	8774	9763	
	3625	4506	4001	4233	4512	4780	5016	5693	5947	6211	6427	6728	6965	7604	7868	8393	8674	9632	
	3500	4329	3822	4112	4322	4553	4816	5441	5684	5919	6167	6449	6701	7325	7551	8058	8308	9442	
	3375	4248	3741	4024	4253	4461	4719	5331	5574	5808	6050	6329	6575	7193	7429	7912	8179	9064	
	3250	4192	3686	3965	4191	4411	4645	5254	5515	5718	5956	6231	6475	7081	7316	7825	8058	8946	
	3125	4133	3626	3905	4124	4345	4574	5198	5432	5631	5866	6134	6373	6974	7201	7707	7939	8821	
	3000	3807	3302	3561	3737	3934	4170	4687	4901	5114	5293	5571	5790	6306	6509	6938	7158	7961	
	2875	3748	3241	3430	3622	3818	4011	4550	4728	4952	5146	5383	5588	6100	6308	6704	6914	7702	
	2750	3688	3177	3367	3557	3763	3934	4467	4661	4859	5048	5282	5487	5992	6199	6585	6789	7569	
	2625	3643	3134	3305	3489	3697	3867	4380	4576	4771	4957	5188	5388	5897	6089	6471	6679	7443	
	2500	3571	3063	3244	3425	3609	3789	4304	4472	4663	4855	5071	5262	5773	5964	6344	6532	7301	
	2375	3514	3006	3183	3358	3538	3716	4224	4385	4574	4769	4990	5181	5663	5851	6230	6424	7183	
	2250	3189	2686	2841	2997	3159	3316	3742	3890	4073	4230	4435	4605	5010	5189	5494	5669	6346	
	2125	3144	2637	2778	2928	3105	3242	3654	3816	3983	4134	4333	4500	4910	5074	5393	5556	6211	
	2000	3078	2569	2717	2868	3018	3171	3578	3715	3876	4036	4218	4379	4787	4933	5249	5403	6072	
	1875	3017	2508	2654	2801	2946	3092	3496	3626	3786	3955	4117	4275	4676	4832	5135	5281	5950	
Width From 1200		1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	
		Width																	
		Rail width 52 mm																	
Number of fields per glazing frame	1	2					3					4					5		
Number of ventilation grilles per door section	2	4					6					8					10		

ALR F42 Thermo

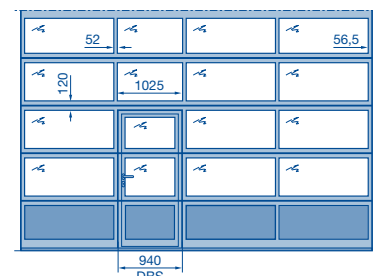
Wicket doors from page 64.



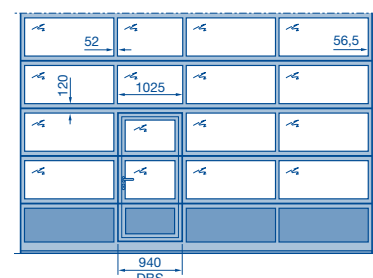
Basic model (without wicket door)
With uniform field division along the width



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



Version with wicket door with trip-free threshold



Version with wicket door and threshold rail

DBS Wicket door clear passage width

						Number of glazing frames ¹⁾
						[A]
18876	19663	20451			7500	10
18667	19445	20224			7375	10
18453	19224	19993			7250	10
18243	19002	19765	20525		7125	10
17794	18535	19277	20019		7000	10
17701	18441	19177	19915		6875	10
17166	17882	18597	19311	20028	6750	9
17075	17785	18495	19209	19919	6625	9
16982	17692	18400	19106	19814	6500	9
16867	17571	18273	18974	19678	6375	9
16635	17330	18022	18717	19408	6250	9
16539	17229	17918	18606	19294	6125	9
15931	16659	17325	17993	18659	6000	8
15817	16547	16942	17598	18250	5875	8
15294	16023	16420	17051	17684	5750	8
15176	15907	16307	16674	17294	5625	8
15056	15783	16179	16553	16914	5500	8
14948	15678	16077	16444	16809	5375	8
14261	14987	15384	15757	16119	5250	7
14144	14870	15265	15641	16001	5125	7
13196	13925	14324	14693	15056	5000	7
13092	13817	14196	14550	14932	4875	7
12989	13728	14052	14443	14809	4750	7
12860	13590	13914	14292	14674	4625	7
11817	12580	12942	13280	13605	4500	6
11717	12472	12819	13138	13488	4375	6
11307	12007	12320	12611	12915	4250	6
11175	11904	12183	12478	12784	4125	6
11009	11693	12026	12313	12594	4000	6
10903	11566	11894	12187	12466	3875	6
10037	10573	10853	11108	11400	3750	5
9904	10465	10709	10975	11260	3625	5
9738	10267	10568	10809	11054	3500	5
9600	10111	10402	10637	10897	3375	5
9477	9994	10261	10502	10761	3250	5
9066	9568	9813	10374	10625	3125	5
8175	8574	8833	9052	9582	3000	4
7921	8314	8535	8749	9441	2875	4
7786	8170	8414	8602	8821	2750	4
7661	8059	8263	8456	8672	2625	4
7500	7874	8086	8300	8499	2500	4
7363	7755	7963	8163	8346	2375	4
6526	6839	7022	7195	7384	2250	3
6399	6717	6889	7048	7232	2125	3
6234	6537	6712	6890	7070	2000	3
6096	6396	6568	6764	6902	1875	3

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

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

Alternative infills	Page 34
Additional glazing frames	Page 34
Rail width 91 mm	Page 34
Ventilation grilles	Page 34
Surface coating	From page 84
Accessories	From page 86

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/(m ² ·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	35
Synthetic double pane, white tinted (opal) (M2)	26 mm	[U _g = 2.6]	3091257	Each	35
Clear synthetic triple pane (S 3)	26 mm	[U _g = 1.9]	3091527	Each	84
Synthetic triple pane, crystal structure (U3)	26 mm	[U _g = 1.9]	3094583	Each	84
Synthetic triple pane, grey tinted (A 3)	26 mm	[U _g = 1.9]	3091258	Each	113
Synthetic triple pane, white tinted (opal) (M3)	26 mm	[U _g = 1.9]	3091260	Each	113
Clear polycarbonate double pane (C2)	26 mm	[U _g = 2.7]	3091528	Each	127
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	144
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	405
Climatic double pane made of single-pane safety glass (G2)	26 mm	[U _g = 1.1]	3091536	Per m ²	539
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 cm ² per grille			3092450	Each	36
Sliding cover for ventilation grille			3092451	Each	51
Further optional extras			Article no.		€
Surcharge for frame heights that differ from the standard			3060532	Per door	238
Surface coating					From page 84
Accessories					From page 86

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

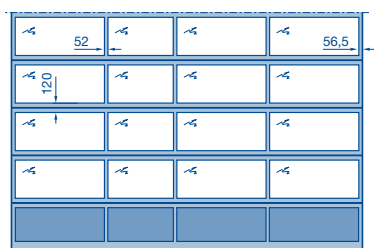
Sectional door ALR F42 Thermo

Wicket doors from page 64.

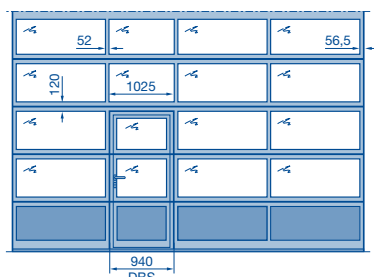
Bottom door section with PU infill,
with aluminium sheet cover



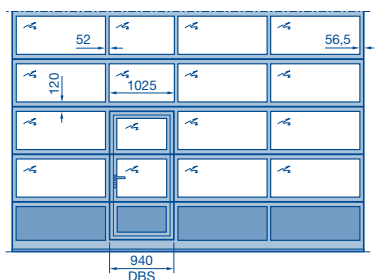
Basic model (without wicket door)
With uniform field division along the width



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



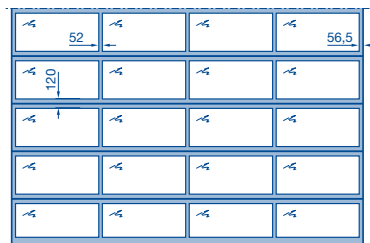
Version with wicket door with trip-free threshold



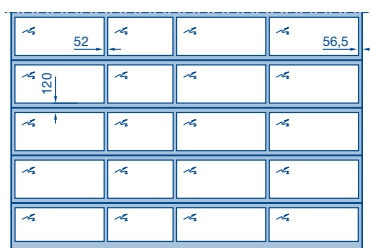
Version with wicket door and threshold rail

Bottom door section with (optional) glazing

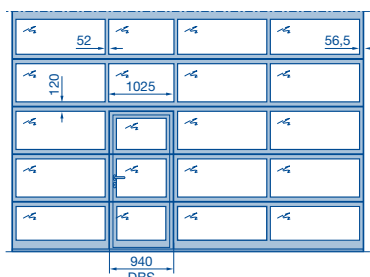
Width up to 5500 mm



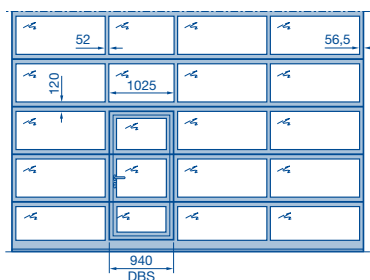
Version with glazing in the lowest door section (without wicket door)
With uniform field division along the width



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

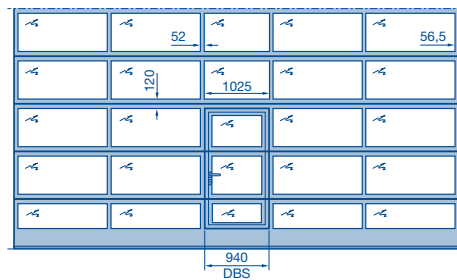
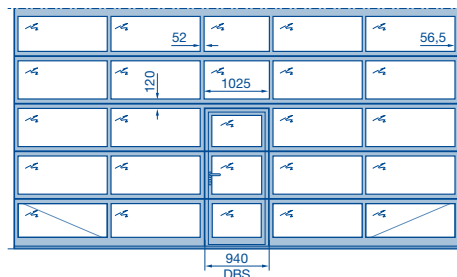
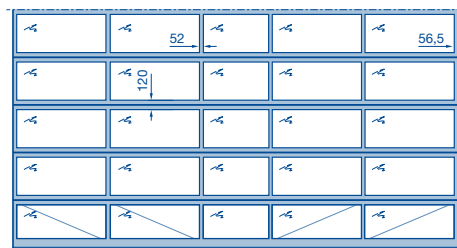
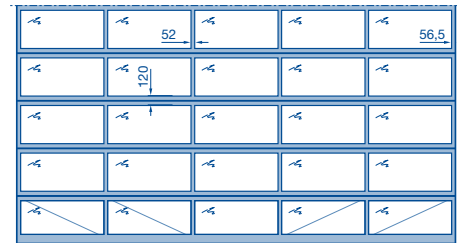


Version with glazing in the lowest door section, with wicket door with trip-free threshold



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

* Notice:

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.

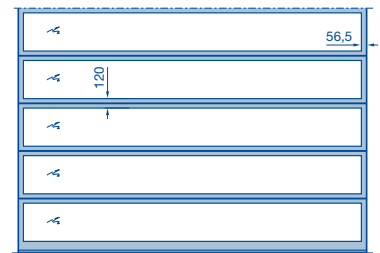
Track versions and surcharges can be found on pages 10 – 13.

For a product description, see pages 6 and 9.

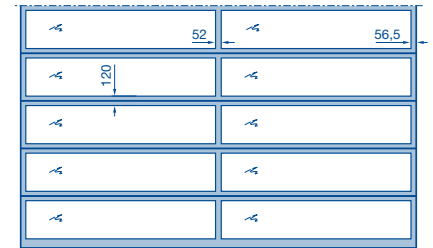
Grid height	4000	6132	6477	6806	7135	7511	9472	9799	10125	10478	10797	11138	11457	12046	12371	4000	
	3875	6053	6390	6711	7039	7422	9360	9670	9994	10345	10663	10990	11303	11890	12198	3875	
	3750	5955	6284	6602	6912	7225	9200	9540	9844	10185	10500	10819	11137	11675	11996	3750	
	3625	5898	6199	6507	6815	7117	9104	9435	9713	10046	10353	10666	10978	11514	11844	3625	
	3500	5320	5592	5903	6159	6436	8100	8382	8685	9002	9255	9625	9904	10385	10693	3500	
	3375	5244	5502	5805	6061	6368	7965	8258	8550	8862	9106	9472	9745	10220	10521	3375	
	3250	5171	5434	5709	5964	6258	7847	8164	8420	8720	8968	9331	9586	10088	10362	3250	
	3125	5074	5342	5608	5866	6135	7731	8034	8301	8567	8843	9183	9433	9923	10178	3125	
	3000	4985	5240	5517	5755	6001	7620	7860	8124	8423	8688	8999	9255	9702	9968	3000	
	2875	4538	4757	5022	5240	5464	6807	7048	7305	7578	7786	8106	8340	8726	8976	2875	
	2750	4397	4629	4855	5082	5312	6626	6847	7070	7340	7549	7871	8105	8469	8703	2750	
	2625	4329	4553	4773	4981	5205	6511	6732	6962	7193	7401	7718	7936	8321	8550	2625	
	2500	4247	4461	4683	4894	5111	6384	6608	6830	7057	7280	7578	7776	8168	8372	2500	
	2375	4183	4377	4579	4791	5007	6265	6504	6695	6934	7129	7425	7635	7999	8199	2375	
	2250	4072	4275	4476	4680	4864	6132	6337	6547	6782	6965	7264	7450	7803	7999	2250	
	2125	3614	3804	3980	4158	4344	5350	5511	5699	5914	6086	6356	6538	6830	7022	2125	
	2000	3546	3721	3900	4064	4239	5218	5406	5583	5775	5955	6223	6378	6686	6869	2000	
	1875	3465	3629	3799	3978	4151	5102	5299	5445	5658	5813	6061	6230	6535	6695	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)									

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/(m²·K)	Article no.		€
Double pane made of single-pane safety glass (E2)	26 mm	[U _g = 2.6]	3090285	Per m²	226
Climatic double pane made of single-pane safety glass (G2)	26 mm	[U _g = 1.1]	3090519	Per m²	355
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 84
Accessories					From page 86

Sectional door ALR F42 Vitraplan Door sections with finger trap protection

Aluminium sectional door with exclusive glazing

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 26 mm clear synthetic double pane, (S2) and 4 mm transparent synthetic glazing fitted in front in a shade of grey. Glazing frame, 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. Delivery versions must be determined with the listed surcharges.

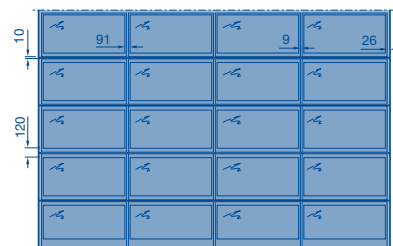
Track versions and surcharges can be found on pages 10–13.

For a product description, see pages 6 and 9.

Doors with a grid height over 7500 mm on request.

Grid height	7500	13342	14104	15104	16102	17104	18098	19110	20113	21108	22112	23106					
	7375	13124	13872	14859	15841	16821	17805	18795	19782	20763	21749	22730					
	7250	12899	13641	14610	15575	16544	17510	18483	19453	20418	21387	22353	24431				
	7125	12677	13409	14363	15309	16264	17217	18170	19122	20070	21023	21976	23966				
	7000	12462	13178	14112	15049	15983	16920	17852	18791	19724	20665	21599	23696				
	6875	12237	12945	13867	14784	15699	16625	17540	18457	19382	20299	21220	23413				
	6750	12019	12714	13614	14521	15425	16325	17229	18133	19033	19937	20839	22625	23702			
	6625	11798	12484	13375	14255	15142	16035	16915	17801	18686	19581	20462	22338	23403			
	6500	11576	12258	13126	13995	14866	15735	16601	17472	18343	19210	20081	21925	22970	24013		
	6375	11356	12022	12874	13731	14580	15436	16288	17142	17994	18848	19700	21512	22535	23561		
	6250	11138	11792	12628	13461	14303	15139	15972	16810	17648	18487	19323	21095	21940	22940		
	6125	10913	11562	12379	13202	14024	14841	15660	16481	17300	18121	18940	20681	21512	22490	23467	
	6000	10694	11331	12132	12938	13741	14546	15349	16152	16956	17758	18560	20267	21078	21893	22847	
	5875	10474	11100	11889	12673	13458	14249	15033	15823	16611	17398	18186	19852	20650	21443	22378	
	5750	10256	10867	11638	12410	13184	13954	14718	15491	16264	17034	17806	19441	20220	21001	21778	
	5625	10031	10635	11395	12145	12903	13654	14408	15167	15922	16671	17427	19025	19789	20554	21317	
	5500	9813	10405	11142	11881	12619	13355	14095	14832	15569	16312	17045	18615	19362	20108	20854	
	5375	9597	10178	10897	11616	12341	13061	13781	14505	15225	15944	16669	18198	18928	19658	20387	
	5250	9370	9946	10650	11353	12059	12768	13464	14173	14877	15581	16288	17784	18497	19210	19925	
	5125	9153	9713	10404	11091	11778	12467	13150	13842	14532	15222	15907	17371	18068	18764	19464	
	5000	7871	8524	9183	9752	10355	11262	12172	12777	13368	13966	14588	15186	16550	17202	17966	18560
	4875	7762	8382	9030	9588	10180	11070	11967	12541	13138	13731	14338	14935	16287	16911	17657	18265
	4750	7633	8242	8877	9423	10037	10902	11764	12326	12930	13499	14084	14667	16012	16638	17355	17950
	4625	7500	8118	8708	9280	9858	10722	11580	12109	12698	13267	13847	14400	15769	16347	17047	17661
	4500	7131	7684	8300	8831	9378	10179	10981	11550	12082	12628	13184	13709	14936	15483	16219	16761
	4375	7000	7585	8165	8666	9199	9999	10800	11331	11854	12384	12925	13460	14650	15186	15914	16443
	4250	6889	7443	8017	8499	9024	9813	10596	11102	11625	12145	12677	13204	14371	14941	15616	16128
	4125	6762	7296	7863	8337	8879	9633	10389	10743	11268	11762	12277	12776	13910	14423	15307	15831
	4000	6547	7066	7572	8071	8596	9313	10027	10521	11036	11520	12026	12504	13637	14127	14764	15309
	3875	6416	6921	7424	7901	8434	9127	9820	10303	10806	11280	11766	12237	13354	13828	14475	14999
	3750	6057	6537	7007	7466	7922	8596	9270	9719	10200	10658	11117	11575	12569	13022	13633	14080
	3625	5943	6394	6851	7300	7747	8412	9081	9501	9970	10414	10862	11305	12280	12744	13325	13779
	3500	5728	6148	6620	7035	7453	8073	8697	9140	9597	9999	10495	10924	11874	12322	12892	13327
	3375	5601	6004	6470	6869	7302	7900	8490	8923	9361	9755	10239	10657	11591	12027	12583	13009
	3250	5469	5875	6309	6703	7125	7718	8313	8700	9128	9514	9994	10385	11335	11748	12274	12689
	3125	5331	5731	6153	6533	6940	7518	8102	8491	8887	9292	9740	10121	11048	11438	11981	12369
	3000	4981	5351	5758	6110	6474	6995	7515	7888	8300	8670	9081	9457	10252	10627	11155	11523
	2875	4859	5207	5606	5943	6292	6808	7325	7693	8078	8412	8838	9197	9962	10332	10855	11200
	2750	4681	5033	5395	5735	6083	6568	7051	7400	7769	8097	8516	8863	9603	9954	10539	10879
	2625	4565	4899	5252	5567	5903	6383	6857	7193	7528	7853	8259	8584	9333	9671	10126	10472
	2500	4426	4748	5098	5408	5731	6192	6649	6968	7295	7622	8011	8317	9059	9365	9829	10159
	2375	4310	4601	4933	5245	5553	6004	6453	6742	7077	7374	7750	8060	8767	9065	9538	9854
	2250	3943	4233	4537	4822	5095	5491	5888	6174	6490	6761	7123	7396	7998	8276	8702	8995
	2125	3813	4100	4380	4652	4927	5303	5680	5957	6255	6513	6857	7131	7715	7989	8396	8668
	2000	3690	3953	4233	4483	4740	5111	5482	5748	6014	6279	6608	6854	7434	7698	8084	8359
	1875	3561	3805	4074	4322	4574	4930	5285	5519	5796	6037	6348	6596	7159	7396	7786	8049
Width From 2000		2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
		Width															
		Rail width 91 mm															
Number of fields per glazing frame		2				3				4				5			

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
Synthetic triple pane, grey tinted (A 2)	26 mm [U _g = 2.6]	3091255	Each 35
Clear synthetic triple pane (S 3)	26 mm [U _g = 1.9]	3091527	Each 84
Synthetic triple pane, crystal structure (U3)	26 mm [U _g = 1.9]	3094583	Each 84
Synthetic triple pane, grey tinted (A 3)	26 mm [U _g = 1.9]	3091258	Each 113
Clear polycarbonate double pane (C2)	26 mm [U _g = 2.7]	3091528	Each 127

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 86
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Sectional door ALR F42 Vitraplan AT Door sections with finger trap protection **NEW**

Aluminium sectional door with facade covering

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 PU infill with aluminium sheet cover, Stucco-textured on both sides, (FU) 26 mm and ALCUBOND® and TRESPA® facade panels fitted in front. Glazing frame and infill on the exterior and interior polyester primer-coated with wet-coating process, based on RAL 9005 Jet black.** Delivery versions must be determined with the listed surcharges.

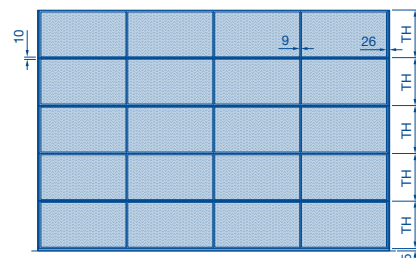
Track versions and surcharges can be found on pages 10–13.

For a product description, see pages 6 and 9.

Doors with a grid height over 7500 mm on request.

Grid height	7500	19811	21220	22866	24511	26160	27801	29460	31110								
	7375	19485	20869	22492	24110	25726	27346	28972	30596	32213							
	7250	19152	20519	22114	23704	25298	26890	28488	30083	31674							
	7125	18822	20169	21737	23298	24867	26435	28002	29569	31132							
	7000	18500	19819	21357	22898	24436	25976	27512	29055	30592							
	6875	18167	19468	20983	22493	24001	25520	27028	28537	30055							
	6750	17841	19118	20600	22089	23576	25058	26544	28030	29512	30999						
	6625	17512	18769	20232	21683	23142	24606	26058	27515	28971	30438						
	6500	17182	18425	19854	21283	22715	24144	25571	27003	28434	29862	31294					
	6375	16854	18070	19472	20879	22278	23684	25086	26489	27891	29295	30697					
	6250	16529	17722	19097	20469	21850	23225	24597	25974	27351	28729	30104					
	6125	16196	17373	18718	20070	21420	22765	24112	25462	26809	28158	29506	31775				
	6000	15869	17024	18342	19666	20986	22308	23629	24950	26271	27590	28910	31134	32463			
	5875	15541	16674	17970	19260	20552	21850	23140	24437	25732	27026	28320	30493	31798			
	5750	15215	16322	17589	18857	20127	21393	22653	23922	25191	26457	27725	29856	31131			
	5625	14883	15972	17217	18452	19695	20931	22170	23415	24655	25889	27130	29213	30462			
	5500	14557	15623	16834	18048	19260	20471	21685	22896	24108	25325	26532	28577	29798	31019		
	5375	14233	15278	16460	17643	18831	20015	21198	22386	23570	24752	25941	27933	29127	30321		
	5250	13898	14927	16084	17240	18398	19560	20709	21871	23028	24184	25344	27293	28459	29625	30792	
	5125	13573	14575	15708	16837	17966	19097	20222	21357	22489	23621	24748	26654	27793	28931	30073	
	5000	11752	12836	13927	14927	15961	17300	18641	19677	20699	21728	22782	23811	25606	26690	27885	28910
	4875	11546	12587	13655	14634	15646	16957	18274	19268	20286	21299	22327	23344	25117	26161	27328	28356
	4750	11320	12339	13384	14339	15363	16638	17909	18881	19895	20873	21868	22861	24615	25651	26778	27782
	4625	11090	12107	13096	14067	15044	16307	17564	18492	19479	20447	21426	22378	24146	25123	26222	27235
	4500	10624	11565	12569	13488	14424	15613	16803	17760	18680	19614	20558	21472	23087	24022	25146	26076
	4375	10396	11358	12316	13194	14104	15282	16460	17368	18269	19176	20095	21007	22574	23488	24593	25499
	4250	10188	11109	12049	12898	13789	14945	16094	16967	17857	18743	19642	20535	22069	23005	24047	24926
	4125	9964	10854	11777	12606	13504	14614	15726	16436	17316	18166	19037	19892	21381	22250	23490	24370
	4000	9652	10516	11367	12211	13081	14143	15202	16041	16901	17730	18581	19404	20882	21717	22699	23589
	3875	9424	10263	11100	11912	12779	13806	14833	15650	16488	17296	18116	18921	20373	21181	22162	23020
	3750	8968	9771	10565	11347	12127	13124	14122	14894	15698	16480	17262	18044	19361	20138	21072	21842
	3625	8757	9521	10290	11052	11812	12789	13771	14504	15285	16042	16802	17558	18846	19622	20516	21283
	3500	8445	9167	9941	10658	11377	12299	13225	13970	14729	15433	16231	16962	18213	18963	19835	20572
	3375	8221	8915	9672	10362	11086	11975	12856	13580	14310	14995	15770	16479	17704	18431	19278	19995
	3250	7992	8678	9392	10067	10769	11642	12518	13185	13893	14560	15320	15991	17222	17915	18721	19416
	3125	7757	8426	9118	9767	10444	11291	12145	12804	13469	14144	14861	15512	16708	17368	18180	18838
	3000	7310	7938	8604	9215	9838	10618	11396	12028	12699	13328	13997	14632	15686	16320	17106	17733
	2875	7091	7687	8334	8919	9516	10280	11045	11660	12293	12875	13549	14156	15169	15787	16558	17151
	2750	6816	7405	8004	8581	9166	9889	10609	11195	11801	12366	13023	13607	14584	15172	15994	16572
	2625	6603	7163	7742	8284	8846	9553	10253	10816	11377	11928	12561	13112	14088	14652	15333	15906
	2500	6367	6904	7470	7996	8534	9211	9883	10418	10961	11503	12108	12630	13587	14109	14788	15334
	2375	6154	6649	7186	7703	8216	8872	9526	10020	10559	11061	11642	12157	13069	13572	14249	14770
	2250	5690	6174	6672	7151	7618	8208	8799	9279	9789	10254	10810	11277	12073	12545	13165	13652
	2125	5463	5933	6396	6851	7310	7869	8429	8890	9371	9812	10339	10797	11564	12021	12611	13067
	2000	5242	5678	6130	6553	6982	7526	8070	8508	8946	9384	9886	10304	11056	11493	12052	12499
	1875	5016	5422	5853	6263	6676	7194	7711	8106	8545	8948	9421	9830	10555	10954	11506	11930
Width From 2000		2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
Width																	
Rail width 91 mm																	
Number of fields per glazing frame		2				3				4				5			

ALR F42 Vitraplan AT
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
2) The ALUCOBOND® panel naturAL Reflect 405 is high-gloss aluminium with a transparent protective paint. The metallic gloss gives the objects a classy and vibrant look. Reflections may occur due to the nature of the material, and these must be taken into account in the planning on site. The naturAL Brushed 400 surface, which prevents any annoying reflections due to its texture, can be selected as an alternative.

Alternative infills	U _g in W/(m²·K)	Article no.	€
PU infill with aluminium sheet cover, both sides Stucco-textured (FU)	26 mm [U _g = 1.0]	3091532	Included in the door price as standard
PU infill with aluminium sheet cover, smooth anodised on both sides (XU)	26 mm [U _g = 1.0]	3091531	Each 144

Alternatively, facade panels for ALR F42 Vitraplan AT fitted in front	Article no.	€
Facade panel ALUCOBOND® Solid Colours Black 326	3101823	No surcharge
Facade panel ALUCOBOND® Solid Colours Pure White 10/100	3101822	No surcharge
Facade panel ALUCOBOND® naturAL Reflect 405 ²⁾	3101824	Per m² 132
Facade panel ALUCOBOND® naturAL Brushed 400	3101825	Per m² 53
Facade panel TRESPA® Anthracite Grey A25.8.1 Satin	3101826	Per m² 132
Facade panel TRESPA® Paris Silver LM5101 Diffuse	3101827	Per m² 176
Facade panel TRESPA® Natural Slate Natural NA18 Matt	3101828	Per m² 132
Facade panel TRESPA® Italian Walnut NW08 Matt	3101829	Per m² 132

Additional glazing frame	Article no.	€
- with facade panels fitted in front - 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]		

PU infill with aluminium sheet cover, both sides Stucco-textured (FU)	26 mm	3092549	Each	+ 14 % On the basic table price
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Accessories	From page 86
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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 10–13.

For a product description, see pages 8 and 9.

Doors with a grid height over 7500 mm on request.

Grid height	7500	6227	5760	6011	6259	6585	6864	7176	7481	7786	8086	8461	8829	9212	9588	
	7375	6180	5716	5964	6207	6533	6808	7117	7419	7719	8021	8390	8750	9137	9510	
	7250	6139	5674	5918	6159	6482	6751	7058	7359	7678	7950	8320	8675	9060	9428	
	7125	5873	5408	5682	5951	6255	6524	6847	7159	7458	7723	8054	8428	8811	9127	
	7000	5827	5363	5585	5896	6199	6464	6785	7093	7388	7652	8002	8347	8735	9060	
	6875	5785	5320	5540	5848	6148	6407	6728	7033	7324	7583	7932	8275	8660	8982	
	6750	5481	5016	5252	5556	5851	6082	6416	6721	7006	7261	7580	7926	8267	8568	
	6625	5435	4971	5202	5502	5796	6024	6358	6653	6938	7189	7506	7874	8190	8485	
	6500	5287	4820	5087	5325	5601	5864	6117	6405	6682	6948	7267	7578	7954	8234	
	6375	5216	4754	5016	5249	5523	5781	6034	6317	6589	6851	7169	7475	7849	8129	
	6250	5173	4710	4970	5201	5470	5727	5973	6254	6526	6782	7098	7432	7791	8049	
	6125	5129	4665	4922	5139	5416	5661	5939	6218	6459	6713	7024	7354	7713	7987	
	6000	5028	4566	4821	5038	5280	5551	5786	6059	6336	6547	6851	7174	7515	7773	
	5875	4982	4518	4773	4985	5222	5491	5726	5999	6272	6475	6778	7098	7434	7692	
	5750	4930	4462	4657	4861	5118	5348	5606	5844	6100	6337	6615	6922	7264	7506	
	5625	4884	4422	4625	4809	5069	5292	5549	5779	6038	6272	6546	6844	7190	7438	
	5500	4841	4376	4577	4775	5028	5233	5480	5734	5990	6206	6490	6792	7113	7355	
	5375	4760	4296	4490	4685	4934	5147	5378	5626	5879	6096	6372	6665	7033	7287	
	5250	4678	4213	4405	4596	4841	5058	5281	5520	5766	5987	6252	6538	6838	7072	
	5125	4634	4171	4360	4546	4790	5006	5240	5460	5698	5921	6180	6464	6757	6989	
	5000	4219	3754	3891	4027	4214	4379	4565	4728	4919	5086	5294	5519	5796	6044	
	4875	4175	3713	3843	3978	4161	4323	4500	4666	4854	5017	5221	5441	5719	5965	
	4750	4132	3668	3799	3927	4107	4265	4442	4617	4787	4949	5152	5364	5643	5887	
	4625	4081	3617	3742	3874	4047	4207	4395	4549	4716	4873	5074	5281	5563	5802	
	4500	3938	3475	3615	3762	3932	4085	4253	4405	4557	4732	4930	5133	5348	5604	
	4375	3894	3430	3571	3713	3881	4033	4194	4342	4490	4666	4858	5054	5271	5528	
	4250	3851	3387	3525	3661	3831	3977	4134	4284	4451	4598	4784	4982	5195	5447	
	4125	3587	3123	3288	3450	3608	3748	3925	4081	4230	4370	4522	4733	4949	5146	
	4000	3539	3078	3192	3398	3550	3688	3864	4016	4161	4300	4470	4654	4870	5079	
	3875	3499	3034	3146	3349	3499	3632	3804	3956	4096	4230	4401	4578	4795	4999	
	3750	3195	2730	2857	3056	3201	3304	3494	3642	3779	3906	4046	4230	4402	4589	
	3625	3147	2686	2809	3006	3145	3246	3433	3577	3713	3837	3973	4180	4324	4505	
	3500	3002	2535	2696	2827	2950	3087	3195	3331	3454	3597	3733	3881	4087	4253	
	3375	2928	2464	2621	2748	2875	3006	3107	3243	3362	3499	3636	3780	3986	4147	
	3250	2889	2424	2577	2701	2820	2949	3051	3177	3298	3430	3565	3737	3925	4068	
	3125	2842	2379	2530	2643	2766	2885	3014	3144	3233	3360	3492	3661	3848	4004	
	3000	2742	2277	2430	2541	2628	2774	2863	2985	3109	3195	3318	3481	3650	3795	
	2875	2696	2228	2381	2489	2574	2714	2804	2923	3042	3123	3245	3400	3571	3714	
	2750	2642	2178	2262	2364	2467	2570	2686	2766	2877	2985	3083	3225	3399	3525	
	2625	2600	2134	2229	2311	2417	2517	2624	2703	2809	2920	3011	3151	3323	3459	
	2500	2552	2093	2185	2280	2379	2458	2553	2657	2761	2852	2961	3096	3246	3375	
	2375	2469	2010	2099	2189	2285	2370	2456	2549	2653	2744	2839	2969	3109	3230	
	2250	2390	1928	2014	2099	2190	2284	2358	2445	2538	2636	2721	2845	2969	3083	
	2125	2348	1886	1966	2049	2138	2227	2313	2382	2471	2569	2648	2770	2895	3007	
	2000	2304	1839	1919	2000	2086	2171	2254	2320	2408	2498	2577	2694	2818	2926	
	1875	2277	1814	1891	1950	2049	2108	2198	2256	2342	2430	2505	2617	2750	2861	
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 64.

[A] Number of
door sections
per door section
height

625 mm 750 mm

	10017	10382	12127	12460	7500	–	+	10 ²⁾
	9941	10306	12036	12365	7375	1	+	9
	9867	10227	11947	12272	7250	2	+	8
	9526	9893	11489	11818	7125	3	+	7
	9450	9813	11396	11722	7000	4	+	6
	9375	9734	11305	11632	6875	5	+	5
	8917	9247	10756	11059	6750	–		9 ²⁾
	8839	9166	10676	10963	6625	1	+	8
	8578	8917	10351	10680	6500	2	+	7
	8479	8815	10236	10559	6375	3	+	6
	8423	8736	10172	10466	6250	4	+	5
	8359	8652	10076	10370	6125	5	+	4
	8084	8394	9761	10058	6000	–		8 ²⁾
	8006	8315	9669	9958	5875	1	+	7
	7834	8131	9454	9715	5750	2	+	6
	7758	8050	9361	9624	5625	3	+	5
	7689	7978	9264	9540	5500	4	+	4
	7516	7803	9067	9336	5375	5	+	3
	7347	7629	8871	9128	5250	–		7 ²⁾
	7272	7552	8781	9037	5125	1	+	6
	6294	6533	7581	7786	5000	2	+	5
	6222	6455	7503	7670	4875	3	+	4
	6154	6374	7413	7573	4750	4	+	3
	6100	6292	7316	7516	4625	5	+	2
	5822	5993	7008	7175	4500	–		6 ²⁾
	5749	5917	6921	7081	4375	1	+	5
	5671	5836	6830	6989	4250	2	+	4
	5332	5500	6369	6537	4125	3	+	3
	5255	5421	6277	6442	4000	4	+	2
	5181	5342	6189	6347	3875	5	+	1
	4721	4857	5638	5777	3750	–		5 ²⁾
	4643	4773	5557	5682	3625	1	+	4
	4382	4524	5235	5398	3500	2	+	3
	4285	4424	5117	5278	3375	3	+	2
	4230	4345	5053	5182	3250	4	+	1
	4163	4262	4959	5086	3125	5	–	2)
	3891	4003	4641	4773	3000	–		4 ²⁾
	3812	3925	4550	4678	2875	1	+	3
	3639	3737	4336	4433	2750	2	+	2
	3564	3658	4245	4340	2625	3	+	1
	3490	3586	4146	4259	2500	4	–	2)
	3322	3410	3952	4053	2375	4 ¹⁾		–
	3149	3239	3753	3845	2250	–		3 ²⁾
	3077	3162	3662	3753	2125	1	+	2
	3002	3082	3571	3659	2000	2	+	1
	2935	3010	3489	3563	1875	3	–	2)

5000 5250 5500 5750 6000

Width

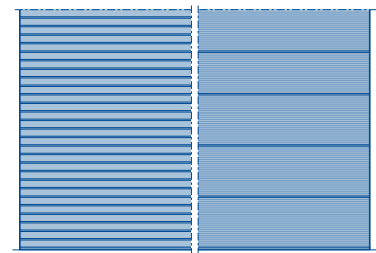
Rail width 52 mm

4

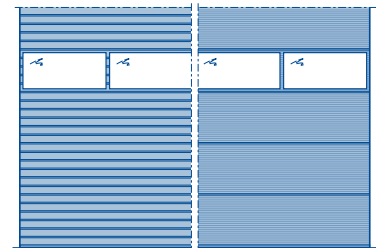
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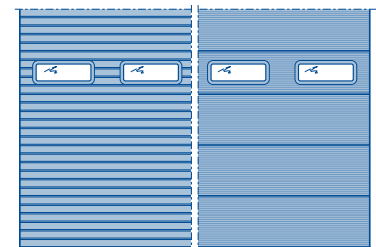
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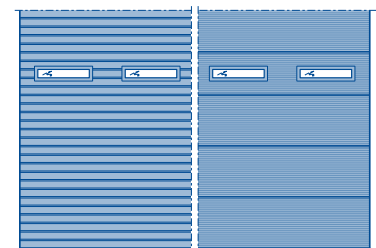
Basic model



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 ³⁾ after technical clarification

Important:

Note the information regarding the trap guard on page 9 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 11 or page 93.

Glazing frame Page 48

Compound glazings type A and type D Page 48

Intermediate heights Page 48

Surface coating From page 84

Accessories From page 86

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 10–13.

For a product description, see pages 8 and 9.

Doors with a grid height over 7500 mm on request.

Grid height	7500	6605	6142	6356	6708	7123	7488	7810	8170	8536	8907	9234	9716	10215	10668	
	7375	6573	6109	6317	6669	7080	7443	7763	8123	8484	8854	9177	9661	10156	10610	
	7250	6389	5922	6242	6484	6867	7216	7568	7916	8271	8643	8921	9339	9894	10282	
	7125	6255	5790	6084	6444	6823	7172	7520	7868	8219	8587	8863	9315	9830	10216	
	7000	6121	5659	5941	6292	6667	7004	7348	7685	8028	8367	8660	9067	9578	9954	
	6875	6088	5622	5906	6254	6627	6960	7300	7638	7982	8315	8605	9008	9518	9894	
	6750	6051	5586	5866	6212	6580	6914	7250	7584	7926	8280	8545	8948	9459	9829	
	6625	6012	5549	5825	6171	6537	6868	7200	7534	7872	8226	8483	8886	9398	9761	
	6500	5777	5313	5586	5897	6253	6566	6874	7154	7489	7816	8111	8462	8956	9317	
	6375	5716	5252	5521	5834	6174	6494	6802	7077	7410	7733	8027	8378	8869	9242	
	6250	5683	5217	5485	5790	6133	6451	6753	7029	7361	7679	7971	8320	8809	9177	
	6125	5646	5181	5447	5755	6091	6405	6705	6979	7307	7628	7916	8258	8750	9117	
	6000	5515	5051	5282	5606	5950	6245	6537	6802	7123	7432	7717	8052	8503	8842	
	5875	5467	4998	5202	5506	5814	6104	6387	6679	6961	7263	7549	7887	8344	8674	
	5750	5432	4968	5180	5468	5773	6058	6337	6631	6910	7206	7491	7830	8284	8610	
	5625	5396	4933	5141	5430	5750	6015	6290	6583	6860	7155	7435	7770	8225	8550	
	5500	5084	4618	4807	5100	5395	5673	5940	6220	6490	6778	7051	7379	7796	8109	
	5375	5050	4582	4771	5058	5353	5628	5893	6171	6439	6725	6995	7320	7733	8046	
	5250	5012	4546	4730	5017	5308	5581	5844	6119	6387	6667	6934	7260	7679	7974	
	5125	4977	4514	4710	4977	5266	5538	5797	6072	6334	6612	6879	7199	7611	7908	
	5000	4405	3941	4067	4262	4480	4680	4864	5071	5257	5469	5663	5913	6292	6592	
	4875	4370	3905	4028	4261	4435	4634	4818	5021	5209	5412	5606	5855	6234	6530	
	4750	4337	3874	3989	4221	4395	4592	4772	4972	5159	5360	5551	5796	6174	6466	
	4625	4296	3831	3946	4175	4344	4538	4719	4913	5099	5300	5489	5728	6109	6399	
	4500	4163	3698	3807	3991	4192	4378	4549	4735	4912	5109	5287	5521	5861	6139	
	4375	4130	3664	3772	3953	4151	4336	4500	4689	4862	5053	5231	5466	5802	6078	
	4250	3943	3479	3696	3765	3934	4106	4308	4485	4647	4844	4974	5140	5536	5749	
	4125	3812	3346	3537	3725	3893	4064	4260	4433	4596	4787	4913	5118	5480	5683	
	4000	3678	3210	3395	3575	3736	3895	4085	4253	4406	4568	4714	4873	5227	5419	
	3875	3643	3177	3359	3537	3696	3851	4039	4206	4358	4514	4657	4813	5166	5362	
	3750	3608	3141	3318	3496	3648	3805	3989	4154	4302	4483	4598	4754	5102	5294	
	3625	3568	3103	3280	3452	3608	3761	3941	4100	4248	4425	4537	4690	5045	5231	
	3500	3334	2869	3039	3180	3323	3455	3612	3719	3867	4015	4168	4265	4604	4784	
	3375	3276	2808	2975	3115	3245	3386	3538	3643	3788	3932	4081	4182	4519	4710	
	3250	3241	2774	2936	3077	3203	3341	3492	3598	3736	3880	4027	4122	4456	4645	
	3125	3203	2738	2899	3036	3162	3298	3446	3543	3684	3825	3970	4065	4397	4581	
	3000	3070	2608	2734	2890	3017	3134	3278	3369	3499	3632	3769	3856	4151	4312	
	2875	3019	2556	2655	2786	2887	2997	3124	3246	3340	3461	3602	3695	3989	4142	
	2750	2987	2523	2633	2747	2842	2950	3079	3199	3288	3408	3543	3635	3931	4079	
	2625	2950	2488	2599	2711	2818	2909	3029	3147	3239	3354	3489	3575	3874	4017	
	2500	2640	2176	2260	2382	2464	2565	2676	2786	2869	2978	3106	3187	3445	3577	
	2375	2607	2139	2223	2342	2424	2520	2630	2738	2814	2924	3050	3125	3386	3515	
	2250	2569	2103	2185	2299	2379	2471	2581	2689	2761	2868	2990	3063	3322	3448	
	2125	2534	2069	2163	2260	2336	2429	2535	2638	2711	2813	2934	3006	3264	3386	
	2000	2402	1937	2009	2112	2183	2273	2366	2460	2525	2618	2733	2798	3014	3121	
	1875	2368	1905	1972	2074	2140	2223	2319	2412	2476	2566	2675	2738	2959	3065	
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

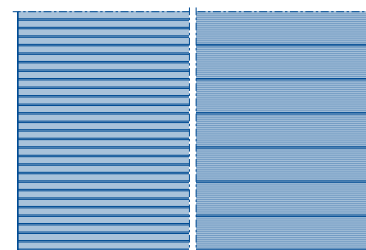
SPU 67 Thermo
Stucco-textured or Micrograin
Wicket doors from page 64.

[A] Number of
door sections
per door section
height

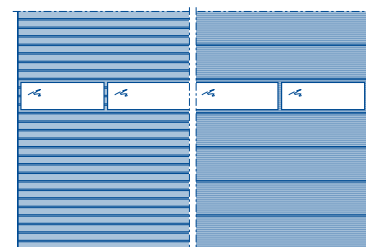
375 mm 500 mm

	11254	11877	14056	14836	7500	–	15	¹⁾
	11194	11817	13985	14738	7375	1	+	14
	10846	11489	13604	14296	7250	2	+	13
	10789	11425	13528	14244	7125	3	+	12
	10459	11103	13135	13798	7000	–	14	¹⁾
	10401	11043	13074	13741	6875	1	+	13
	10364	10979	13000	13660	6750	2	+	12
	10304	10913	12926	13609	6625	3	+	11
	9788	10325	12215	12869	6500	–	13	¹⁾
	9706	10254	12114	12766	6375	1	+	12
	9648	10190	12070	12689	6250	2	+	11
	9589	10126	11993	12611	6125	3	+	10
	9287	9797	11589	12196	6000	–	12	¹⁾
	9099	9614	11380	11968	5875	1	+	11
	9040	9551	11307	11893	5750	2	+	10
	8993	9486	11235	11813	5625	3	+	9
	8452	8954	10584	11150	5500	–	11	¹⁾
	8407	8891	10533	11084	5375	1	+	10
	8347	8829	10456	11006	5250	2	+	9
	8300	8762	10383	10931	5125	3	+	8
	6976	7348	8688	9124	5000	–	10	¹⁾
	6954	7283	8661	9047	4875	1	+	9
	6896	7202	8584	8971	4750	2	+	8
	6832	7137	8507	8889	4625	3	+	7
	6491	6817	8061	8487	4500	–	9	¹⁾
	6435	6758	7988	8392	4375	1	+	8
	6089	6426	7607	7951	4250	2	+	7
	6030	6366	7534	7901	4125	3	+	6
	5699	6042	7140	7451	4000	–	8	¹⁾
	5642	5981	7079	7399	3875	1	+	7
	5606	5919	7004	7315	3750	2	+	6
	5544	5851	6927	7264	3625	3	+	5
	5028	5264	6218	6521	3500	–	7	¹⁾
	4945	5191	6119	6418	3375	1	+	6
	4892	5129	6072	6344	3250	2	+	5
	4832	5069	5999	6262	3125	3	+	4
	4529	4735	5592	5853	3000	–	6	¹⁾
	4340	4550	5384	5623	2875	1	+	5
	4284	4489	5313	5548	2750	2	+	4
	4233	4427	5240	5469	2625	3	+	3
	3691	3893	4590	4807	2500	–	5	¹⁾
	3648	3833	4537	4742	2375	1	+	4
	3587	3765	4460	4659	2250	2	+	3
	3538	3704	4389	4582	2125	3	+	2
	3209	3374	3989	4174	2000	–	4	¹⁾
	3157	3326	3918	4099	1875	1	+	3

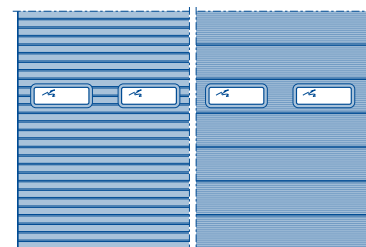
5000	5250	5500	5750	6000
Width				
Rail width 52 mm				
4	5			
4	5			



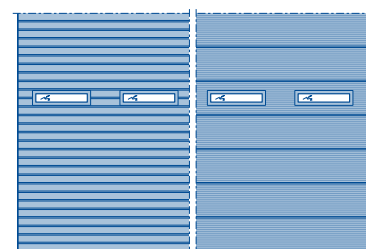
Basic model



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 140 ²⁾ after technical clarification

Important:

Note the information regarding the trap guard on page 9 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 11 or page 93.

Glazing frame	Page 49
Compound glazings type A and type D	Page 49
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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 10 – 13.

For a product description, see pages 8 and 9.

Doors with a grid height over 7500 mm on request.

Grid height	7500	15450													
	7375	15376													
	7250	14923													
	7125	14845	15547												
	7000	14350	15036	15653											
	6875	14280	14955	15571											
	6750	14202	14876	15488											
	6625	14129	14794	15411	15962										
	6500	13650	14145	14863	15375										
	6375	13497	14042	14761	15279										
	6250	13421	13972	14680	15190										
	6125	13345	13734	14477	14958										
	6000	12851	13211	13736	14422	14890	15488	15909	16397	19027	19614	20309	20892	21569	22152
	5875	12607	12962	13483	13960	14674	15256	15684	16157	18963	19535	20237	20817	21501	22082
	5750	12532	12884	13403	13876	14367	15015	15463	15991	18552	19250	19974	20525	21114	21788
	5625	12484	12808	13349	13812	14279	14820	15370	15834	18465	19186	19880	20448	21026	21575
	5500	11536	12117	12621	13048	13502	13924	14303	14707	17522	18069	18529	19222	19667	20220
	5375	11483	12066	12540	12987	13434	13835	14209	14614	17453	17977	18439	19128	19602	20132
	5250	11409	11970	12458	12901	13363	13739	14127	14526	17384	17885	18356	19043	19533	20040
	5125	11362	11893	12399	12836	13275	13651	14031	14430	17298	17796	18265	18947	19449	19956
	5000	9626	10047	10467	10812	11158	11458	11771	12313	14936	15337	15760	16317	16854	17260
	4875	9548	9970	10389	10729	11129	11369	11720	12219	14762	15161	15580	16135	16715	17079
	4750	9471	9895	10338	10643	11041	11280	11628	12179	14644	15040	15459	16007	16592	16930
	4625	9394	9851	10250	10585	10984	11187	11447	11837	14465	14855	15275	15816	16405	16740
	4500	8923	9315	9674	10024	10341	10611	10904	11178	13748	14122	14502	15020	15524	15877
	4375	8848	9237	9624	9940	10309	10536	10853	11082	13574	13945	14324	14836	15341	15694
	4250	8394	8748	9088	9362	9686	9870	10196	10526	12950	13250	13687	14119	14598	14970
	4125	8319	8668	9007	9305	9606	9803	10136	10428	12776	13109	13504	13931	14417	14783
	4000	7825	8161	8466	8743	9017	9218	9493	9805	12094	12375	12768	13172	13580	13953
	3875	7750	8076	8383	8661	8957	9127	9400	9708	11918	12196	12587	12985	13402	13769
	3750	7676	7995	8302	8572	8866	9032	9333	9613	11746	12019	12407	12805	13247	13582
	3625	7600	7914	8224	8511	8788	8969	9258	9536	11588	11861	12251	12633	13085	13416
	3500	7060	7407	7673	7922	8186	8379	8623	8879	10869	11081	11448	11817	12169	12428
	3375	6972	7302	7573	7824	8069	8243	8507	8787	10700	10909	11276	11649	11993	12262
	3250	6897	7235	7493	7742	8002	8153	8438	8690	10527	10732	11097	11467	11816	12079
	3125	6820	7129	7435	7655	7928	8090	8332	8616	10378	10574	10938	11303	11659	11913
	3000	6071	6330	6487	6830	7324	7494	7698	7951	9646	9834	10156	10488	10806	11030
	2875	5833	6082	6294	6510	7185	7413	7631	7874	9495	9682	10002	10321	10607	10839
	2750	5758	6005	6216	6425	6982	7250	7490	7789	9331	9515	9839	10147	10438	10666
	2625	5709	5926	6163	6360	6890	7147	7396	7634	9173	9353	9675	9982	10287	10498
	2500	5009	5237	5435	5597	5785	5928	6089	6269	7691	7846	8137	8398	8605	8819
	2375	4957	5187	5353	5538	5719	5840	5998	6169	7518	7670	7959	8217	8443	8637
	2250	4880	5092	5270	5448	5645	5748	5913	6083	7353	7503	7789	8041	8275	8465
	2125	4833	5015	5215	5389	5559	5660	5820	5990	7182	7324	7609	7857	8102	8278
	2000	4310	4506	4676	4809	4974	5083	5228	5367	6497	6628	6870	7086	7266	7439
	1875	4236	4433	4595	4728	4887	5011	5137	5283	6336	6463	6705	6923	7099	7280

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

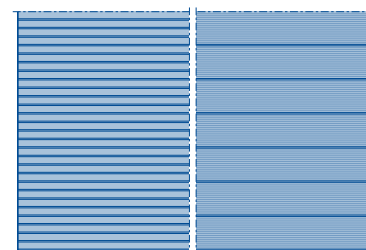
SPU 67 Thermo
Stucco-textured or Micrograin
Wicket doors from page 64.

[A] Number of
door sections
per door section
height

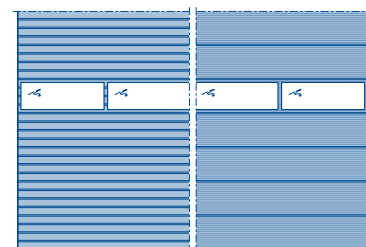
375 mm 500 mm

			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⁾
	22666		5875	1	+	11
	22359		5750	2	+	10
	22144	22712	5625	3	+	9
	20763	21098	5500	–		11 ¹⁾
	20670	21002	5375	1	+	10
	20589	20919	5250	2	+	9
	20501	20824	5125	3	+	8
	17707	17961	5000	–		10 ¹⁾
	17562	17769	4875	1	+	9
	17430	17640	4750	2	+	8
	17233	17442	4625	3	+	7
	16288	16546	4500	–		9 ¹⁾
	16099	16333	4375	1	+	8
	15365	15550	4250	2	+	7
	15173	15380	4125	3	+	6
	14310	14472	4000	–		8 ¹⁾
	14135	14307	3875	1	+	7
	13947	14112	3750	2	+	6
	13775	13966	3625	3	+	5
	12741	12912	3500	–		7 ¹⁾
	12557	12731	3375	1	+	6
	12396	12540	3250	2	+	5
	12226	12371	3125	3	+	4
	11309	11451	3000	–		6 ¹⁾
	11118	11247	2875	1	+	5
	10941	11069	2750	2	+	4
	10773	10894	2625	3	+	3
	9041	9161	2500	–		5 ¹⁾
	8873	8982	2375	1	+	4
	8697	8803	2250	2	+	3
	8507	8610	2125	3	+	2
	7636	7742	2000	–		4 ¹⁾
	7462	7562	1875	1	+	3

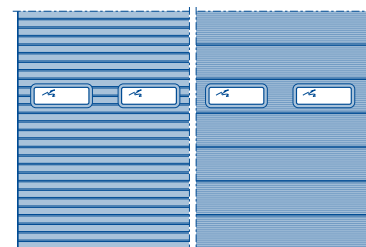
9500	9750	10000
Width		
Rail width 52 mm		
7		
7		



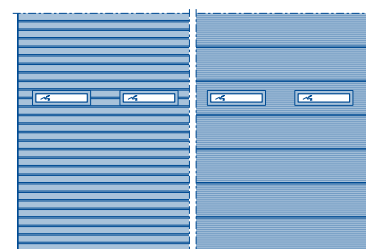
Basic model



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 9 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 11 or page 93.

Glazing frame	Page 49
Compound glazings type A and type D	Page 49
Intermediate heights	Page 49
Surface coating	From page 84
Accessories	From page 86

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 (S 3)	51 mm [$U_g = 1.6$]	3092367	454	
Synthetic triple pane, crystal structure (U3)	51 mm [$U_g = 1.6$]	3094584	454	
Synthetic triple pane, grey tinted (A 3)	51 mm [$U_g = 1.6$]	3092369	490	
Synthetic triple pane, white tinted (opal) (M3)	51 mm [$U_g = 1.6$]	3092371	490	
Clear synthetic quadruple pane (S4)	51 mm [$U_g = 1.3$]	3092372	493	
Synthetic quadruple pane, crystal structure (U4)	51 mm [$U_g = 1.3$]	3094585	493	
Synthetic quadruple pane, grey tinted (A4)	51 mm [$U_g = 1.3$]	3092374	527	
Synthetic quadruple pane, white tinted (opal) (M4)	51 mm [$U_g = 1.3$]	3092376	527	
Clear polycarbonate triple pane (C3)	51 mm [$U_g = 1.6$]	3099336	581	
Clear polycarbonate quadruple pane (C4)	51 mm [$U_g = 1.3$]	3099337	620	
Double pane made of single-pane safety glass (E2) ¹⁾	26 mm [$U_g = 2.6$]	3092379	931	
Climatic double pane made of single-pane safety glass (G2) ¹⁾	26 mm [$U_g = 1.1$]	3092380	1028	
Prepared for on-site infill (BS) ¹⁾ (Anodised glazing bead required)		3092378	454	
Compound glazings		Article no.	€	
Type A: Diecast frame with clear synthetic triple pane ²⁾	51 mm	3092403	Each	219
Type A: Diecast frame with clear synthetic quadruple pane ²⁾	51 mm	3092404	Each	283
Type A: Diecast frame with clear real glass triple pane (P4A) ¹⁾	51 mm	3095216	Each	561
Type D: Plastic frame with clear synthetic triple pane ²⁾	41 mm	3092406	Each	170
Intermediate heights		Article no.	€ to the next grid height	
Top door section adjusted for intermediate height		3092694	Per running metre door width	53
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	534
Surface coating			From page 84	
Accessories			From page 86	

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 (S 3)	51 mm [U _g = 1.6]	3092386	677	
Synthetic triple pane, crystal structure (U3)	51 mm [U _g = 1.6]	3094586	677	
Synthetic triple pane, grey tinted (A 3)	51 mm [U _g = 1.6]	3092388	725	
Synthetic triple pane, white tinted (opal) (M3)	51 mm [U _g = 1.6]	3092390	725	
Clear synthetic quadruple pane (S4)	51 mm [U _g = 1.3]	3092391	733	
Synthetic quadruple pane, crystal structure (U4)	51 mm [U _g = 1.3]	3094587	733	
Synthetic quadruple pane, grey tinted (A4)	51 mm [U _g = 1.3]	3092393	787	
Synthetic quadruple pane, white tinted (opal) (M4)	51 mm [U _g = 1.3]	3092395	787	
Clear polycarbonate triple pane (C3)	51 mm [U _g = 1.6]	3099338	804	
Clear polycarbonate quadruple pane (C4)	51 mm [U _g = 1.3]	3099339	861	
Double pane made of single-pane safety glass (E2) ²⁾	26 mm [U _g = 2.6]	3092398	1390	
Climatic double pane made of single-pane safety glass (G2) ²⁾	26 mm [U _g = 1.1]	3092399	1529	
Prepared for on-site infill (BS) ¹⁾ (Anodised glazing bead required)		3092397	677	
Compound glazings		Article no.	€	
Type A: Diecast frame with clear synthetic triple pane ³⁾	51 mm	3092403	Each	219
Type A: Diecast frame with clear synthetic quadruple pane ³⁾	51 mm	3092404	Each	283
Type A: Diecast frame with clear real glass triple pane (P4A) ¹⁾	51 mm	3095216	Each	561
Type D: Plastic frame with clear synthetic triple pane ³⁾	41 mm	3092406	Each	170
Intermediate heights		Article no.	€ to the next grid height	
Top door section adjusted for intermediate height		3092694	Per running metre door width	53
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	534
Surface coating				From page 84
Accessories				From page 86

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 10 – 13.

For a product description, see pages 8 and 9.

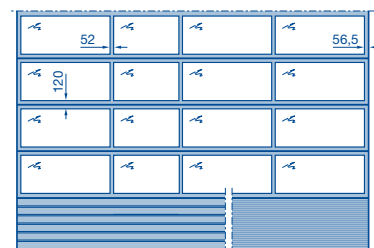
Doors with a grid height over 7500 mm on request.

Grid height	7500	11625	11147	11793	12479	13693	14285	15974	16615	17366	18042	18823	19568	20666	21400	
	7375	11591	11118	11721	12430	13608	14198	15882	16517	17260	17931	18711	19472	20593	21267	
	7250	11523	11049	11646	12360	13521	14113	15784	16410	17157	17853	18623	19354	20466	21147	
	7125	11245	10773	11439	12149	13088	13681	15465	16146	16853	17523	18251	18958	20009	20650	
	7000	11175	10700	11366	12073	12994	13590	15370	16043	16749	17413	18135	18835	19890	20542	
	6875	11090	10616	11273	11981	12896	13490	15254	15925	16623	17285	18005	18722	19746	20391	
	6750	10407	9935	10520	11137	12066	12630	14281	14902	15556	16206	16889	17550	18445	19052	
	6625	10323	9851	10442	11056	11982	12544	14185	14799	15449	16092	16781	17430	18316	18930	
	6500	10135	9663	10238	10882	11731	12290	13902	14521	15138	15772	16473	17110	18001	18601	
	6375	10069	9595	10144	10780	11633	12182	13813	14395	15040	15681	16350	16990	17848	18443	
	6250	9988	9514	10059	10683	11536	12082	13701	14281	14920	15562	16220	16858	17707	18314	
	6125	9913	9441	9982	10603	11450	11991	13606	14178	14817	15459	16103	16735	17600	18175	
	6000	9350	8876	9435	9994	10836	11305	12788	13373	13925	14512	15151	15737	16473	17017	
	5875	9243	8767	9312	9848	10657	11147	12581	13148	13700	14279	14895	15506	16225	16759	
	5750	9177	8704	9254	9773	10578	11056	12485	13050	13604	14172	14807	15377	16101	16630	
	5625	9102	8628	9173	9688	10504	10963	12379	12930	13491	14053	14685	15251	15971	16486	
	5500	9021	8547	9095	9603	10418	10869	12298	12822	13401	13963	14563	15127	15837	16363	
	5375	8954	8479	9017	9548	10339	10785	12204	12727	13293	13853	14441	15033	15629	16160	
	5250	8449	7976	8443	8938	9668	10108	11369	11884	12418	12907	13494	14051	15426	15956	
	5125	8381	7909	8370	8863	9602	10039	11276	11786	12303	12804	13397	13933	15221	15748	
	5000	7465	6992	7340	7717	8342	8664	9785	10179	10582	10964	11447	11869	13045	13464	
	4875	7396	6923	7307	7632	8256	8580	9687	10077	10481	10856	11331	11752	12949	13334	
	4750	7329	6854	7234	7544	8169	8491	9590	9981	10386	10747	11247	11635	12819	13202	
	4625	7235	6762	7159	7456	8084	8407	9506	9887	10247	10678	11138	11537	12691	13065	
	4500	6682	6208	6547	6906	7537	7860	8688	8980	9370	9698	10132	10513	11494	11911	
	4375	6652	6177	6475	6860	7451	7772	8590	8881	9265	9588	10019	10419	11420	11779	
	4250	6584	6109	6400	6786	7365	7686	8497	8780	9161	9512	9932	10300	11293	11662	
	4125	6307	5833	6193	6577	6928	7250	8178	8514	8857	9177	9556	9903	10839	11165	
	4000	6234	5761	6118	6499	6839	7161	8077	8409	8751	9067	9444	9782	10717	11053	
	3875	6148	5675	6028	6405	6737	7060	7963	8290	8628	8939	9314	9668	10576	10903	
	3750	5468	4994	5273	5565	5906	6202	6993	7271	7557	7863	8195	8492	9276	9564	
	3625	5384	4910	5198	5485	5822	6116	6893	7163	7454	7750	8088	8377	9143	9442	
	3500	5195	4721	4993	5308	5576	5862	6613	6883	7143	7429	7782	8053	8830	9114	
	3375	5127	4655	4897	5207	5474	5753	6527	6762	7043	7337	7655	7934	8674	8957	
	3250	5047	4574	4809	5110	5377	5655	6414	6649	6926	7216	7528	7804	8535	8827	
	3125	4975	4499	4732	5028	5293	5565	6316	6545	6818	7114	7412	7680	8428	8688	
	3000	4408	3933	4187	4423	4680	4878	5500	5740	5928	6169	6459	6682	7301	7526	
	2875	4302	3831	4065	4275	4498	4721	5291	5515	5707	5935	6202	6451	7053	7272	
	2750	4236	3763	4009	4200	4420	4630	5195	5416	5606	5827	6117	6320	6928	7142	
	2625	4159	3688	3927	4116	4346	4536	5089	5295	5492	5709	5994	6194	6802	6997	
	2500	4080	3608	3845	4033	4260	4441	5010	5191	5403	5614	5873	6072	6665	6877	
	2375	4014	3538	3772	3973	4181	4358	4912	5089	5299	5509	5750	5978	6538	6748	
	2250	3509	3036	3199	3367	3511	3678	4080	4251	4423	4567	4803	4995	5421	5587	
	2125	3441	2968	3125	3289	3446	3612	3985	4151	4308	4455	4704	4879	5304	5454	
	2000	3347	2877	3047	3201	3360	3523	3903	4068	4199	4365	4584	4757	5171	5327	
	1875	3280	2807	2974	3121	3278	3424	3804	3964	4093	4251	4480	4619	5041	5191	
Width		1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
From 1200																
		Width														
		Rail width 52 mm														
Number of fields per glazing frame		1	2					3					4			

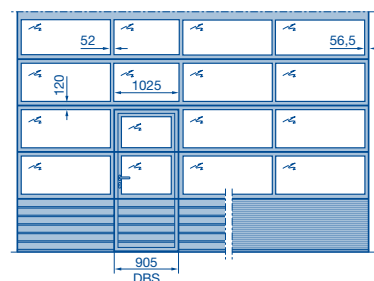
APU 67 Thermo
Wicket doors from page 64.



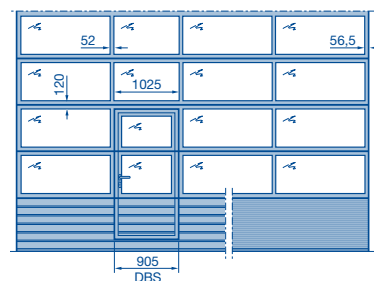
Basic model (without wicket door)
With uniform field division along the width



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



Version with wicket door with trip-free threshold



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⁾
	23756	24561		7500	9	8
	23687	24435		7375	9	8
	23548	24315	26176	7250	9	8
	23087	23843	25719	7125	9	8
	22973	23711	25556	7000	9	8
	22818	23552	25386	6875	9	8
	21315	22003	23696	24725	8	7
	21193	21864	23548	24574	8	7
	20784	21456	23099	24103	8	7
	20621	21287	22953	23642	8	7
	20488	21135	22787	23474	8	7
	20347	21014	22646	23315	8	7
	19089	19695	21191	21847	7	6
	18805	19425	20883	21533	7	6
	18690	19295	20758	21403	7	6
	18545	19145	20594	21236	7	6
	18408	18996	20459	21098	7	6
	18278	18878	20310	20928	7	6
	17007	17562	18857	19441	6	5
	16880	17439	18719	19284	6	5
	14470	14916	16080	16530	6	5
	14338	14787	15978	16372	6	5
	14227	14646	15844	16253	6	5
	14115	14503	15685	16102	6	5
	12742	13161	14189	14604	5	4
	12675	13034	14034	14450	5	4
	12539	12911	13913	14309	5	4
	12074	12439	13455	13777	5	4
	11958	12313	13292	13617	5	4
	11804	12154	13126	13456	5	4
	10302	10607	11434	11718	4	3
	10180	10464	11289	11621	4	3
	9769	10054	10836	11457	4	3
	9610	9887	10693	10968	4	3
	9474	9733	10523	10797	4	3
	9333	9616	10383	10638	4	3
	8075	8294	8928	9170	3	2
	7791	8026	8622	8855	3	2
	7678	7900	8492	8727	3	2
	7530	7746	8333	8559	3	2
	7397	7597	8193	8421	3	2
	7263	7479	8047	8253	3	2
	5994	6164	6595	6764	2	1
	5867	6041	6456	6609	2	1
	5726	5894	6297	6471	2	1
	5604	5762	6167	6334	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 140 ³⁾ after technical clarification

Important:

Note the information regarding the trap guard on page 9 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 11 or page 93.

Alternative infills	Page 54
Additional glazing frames	Page 54
Surface coating	From page 84
Accessories	From page 86

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 10 – 13.

For a product description, see pages 8 and 9.

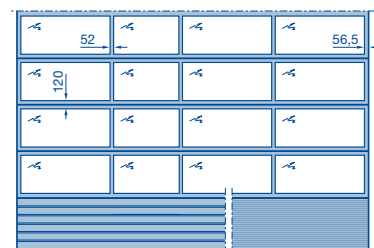
Doors with a grid height over 7500 mm on request.

Grid height	7500														
	7375														
	7250														
	7125														
	7000														
	6875														
	6750	25754													
	6625	25596													
	6500	25107	26111												
	6375	24630	25612												
	6250	24453	25427												
	6125	24288	25259	26232											
	6000	22859	23460	24191	24837	25737	26329	27888	28517						
	5875	22531	23132	23850	24471	25566	26165	27719	28343	31336	31957				
	5750	22376	22991	23703	24304	24871	26012	27550	28149	30640	31804				
	5625	22205	22819	23541	24121	24694	25270	27355	27984	30462	31062	31976			
	5500	22062	22666	23363	23949	24507	25082	27179	27793	30274	30874	31783			
	5375	21925	22520	23195	23780	24342	24918	26389	27661	30112	30711	31614			
	5250	20347	20910	21533	22066	22604	23162	24479	25031	28374	28952	30197	31059	31921	32786
	5125	20187	20735	21366	21915	22466	22980	24300	24844	28233	28769	30056	30595	31444	32295
	5000	17318	17753	18265	18706	19137	19541	20743	21174	24448	24871	26045	26468	27471	28213
	4875	17189	17618	18127	18529	18959	19354	20553	21046	24239	24660	25856	26241	27245	27983
	4750	17038	17451	17970	18357	18789	19203	20395	20871	23983	24371	25554	25936	26962	27691
	4625	16880	17339	17806	18217	18608	19035	20276	20685	23715	24116	25266	25643	26694	27416
	4500	15239	15644	16059	16484	16877	17248	18251	18636	21584	21968	22948	23367	24198	24612
	4375	15116	15506	15922	16347	16701	17069	18092	18441	21308	21708	22711	23067	23964	24326
	4250	14982	15352	15803	16181	16517	16841	17912	18284	21066	21435	22431	22794	23672	24050
	4125	14386	14728	15142	15468	15850	16230	17221	17579	20284	20624	21563	21886	22798	23169
	4000	14237	14580	14973	15318	15702	16053	17047	17441	20063	20397	21338	21672	22577	22933
	3875	14056	14422	14782	15149	15523	15851	16844	17228	19767	20119	21026	21354	22256	22604
	3750	12307	12614	12951	13253	13569	13874	14733	15043	17499	17796	18577	18871	19603	19909
	3625	12154	12450	12781	13100	13390	13718	14558	14842	17219	17501	18270	18571	19309	19590
	3500	11994	12298	12627	12930	13227	13557	14368	14682	16976	17248	18022	18309	18965	19247
	3375	11813	12111	12451	12734	13052	13349	14172	14475	16686	16965	17707	17989	18640	18916
	3250	11661	11953	12278	12574	12896	13185	13992	14324	16450	16725	17458	17749	18400	18655
	3125	11507	11806	12103	12414	12731	13000	13806	14122	16169	16440	17189	17446	18092	18373
	3000	9627	9845	10119	10394	10938	11172	11835	12082	14049	14272	14891	15114	15661	15883
	2875	9301	9515	9781	10030	10771	11008	11668	11909	13794	14043	14643	14864	15380	15617
	2750	9143	9377	9631	9859	10072	10853	11495	11717	13519	13724	14332	14544	15080	15298
	2625	8971	9203	9470	9674	9897	10113	11303	11551	13269	13472	14078	14278	14809	15024
	2500	8830	9052	9292	9508	9708	9923	11125	11361	12996	13191	13789	14001	14522	14723
	2375	8690	8907	9126	9336	9543	9759	10338	11226	12783	13012	13573	13779	14296	14512
	2250	7114	7295	7462	7625	7808	8001	8427	8599	10072	10264	10693	10856	11262	11434
	2125	6954	7119	7291	7470	7667	7823	8246	8409	9802	9979	10402	10550	10964	11138
	2000	6800	6950	7143	7315	7481	7633	8058	8208	9517	9687	10106	10260	10658	10824
	1875	6639	6807	6989	7155	7300	7460	7863	8027	9255	9399	9818	9968	10383	10540
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						

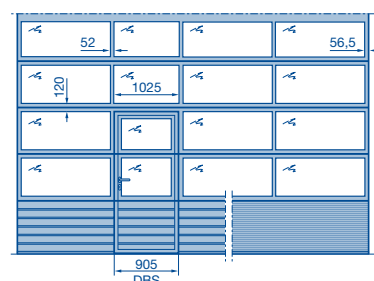
APU 67 Thermo
Wicket doors from page 64.



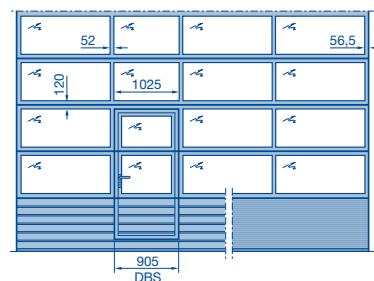
Basic model (without wicket door)
With uniform field division along the width



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



Version with wicket door with trip-free threshold



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 9 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 11 or page 93.

Alternative infills	Page 54
Additional glazing frames	Page 54
Surface coating	From page 84
Accessories	From page 86

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 (S 3)	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 (A 3)	51 mm	[U _g = 1.6]	3092417	Each	35
Synthetic triple pane, white tinted (opal) (M3)	51 mm	[U _g = 1.6]	3092419	Each	35
Clear synthetic quadruple pane (S4)	51 mm	[U _g = 1.3]	3092420	Each	84
Synthetic quadruple pane, crystal structure (U4)	51 mm	[U _g = 1.3]	3094589	Each	84
Synthetic quadruple pane, grey tinted (A4)	51 mm	[U _g = 1.3]	3092422	Each	114
Synthetic quadruple pane, white tinted (opal) (M4)	51 mm	[U _g = 1.3]	3092424	Each	114
Clear polycarbonate triple pane (C3)	51 mm	[U _g = 1.6]	3099340	Each	127
Clear polycarbonate quadruple pane (C4)	51 mm	[U _g = 1.3]	3099341	Each	212
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	144
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	405
Climatic double pane made of single-pane safety glass (G2)	26 mm	[U _g = 1.1]	3092428	Per m ²	539
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	238
Surface coating					From page 84
Accessories					From page 86

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 10 – 13.

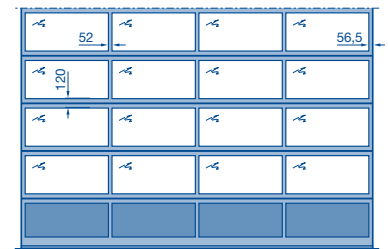
For a product description, see pages 8 and 9.

Doors with a grid height over 7500 mm on request.

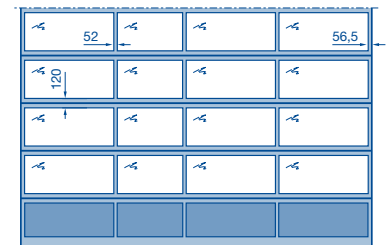
Grid height	7500	12415	11942	12684	13708	14407	15207	17142	17937	18701	19474	20364	21181	22464	23234	
	7375	12345	11871	12606	13617	14318	15117	17041	17834	18592	19362	20273	21058	22359	23093	
	7250	12254	11778	12528	13528	14228	15025	16952	17736	18480	19284	20159	20952	22221	22951	
	7125	12016	11540	12277	13242	13936	14737	16615	17415	18167	18919	19755	20543	21736	22496	
	7000	11942	11469	12227	13176	13850	14643	16534	17323	18060	18799	19633	20424	21619	22353	
	6875	11873	11399	12154	13100	13791	14584	16439	17222	17956	18690	19541	20314	21492	22270	
	6750	11150	10679	11369	12316	12964	13687	15460	16199	16927	17615	18414	19153	20207	20888	
	6625	11080	10607	11317	12233	12884	13612	15355	16089	16811	17508	18296	19026	20083	20768	
	6500	10909	10433	11105	11967	12605	13363	15091	15778	16487	17220	17988	18718	19747	20422	
	6375	10803	10332	11006	11863	12516	13247	14946	15676	16372	17078	17861	18570	19601	20256	
	6250	10733	10260	10929	11768	12433	13158	14845	15569	16281	16965	17739	18442	19464	20122	
	6125	10642	10166	10833	11670	12326	13047	14724	15444	16162	16840	17613	18297	19310	19965	
	6000	10125	9653	10274	11119	11704	12383	13985	14624	15289	15941	16693	17342	18227	18858	
	5875	10073	9600	10195	11025	11612	12288	13878	14512	15172	15839	16568	17232	18086	18726	
	5750	9916	9442	10084	10882	11448	12112	13656	14288	14936	15578	16288	16968	17823	18451	
	5625	9863	9390	10011	10819	11363	12023	13543	14204	14846	15487	16166	16841	17704	18311	
	5500	9773	9302	9916	10722	11259	11915	13422	14080	14717	15352	16051	16698	17559	18148	
	5375	9698	9223	9852	10633	11188	11837	13338	13992	14624	15216	15925	16588	17353	17945	
	5250	9188	8713	9312	10032	10560	11171	12552	13175	13739	14337	15032	15627	17150	17737	
	5125	9106	8633	9231	9963	10491	11076	12466	13052	13645	14237	14893	15492	16943	17534	
	5000	8077	7604	8072	8679	9078	9533	10797	11254	11717	12183	12706	13184	14505	14978	
	4875	8006	7534	7995	8590	8986	9441	10698	11143	11609	12067	12595	13057	14385	14813	
	4750	7938	7464	7965	8500	8898	9351	10611	11065	11522	11953	12474	12987	14250	14707	
	4625	7862	7387	7939	8443	8840	9293	10501	10951	11404	11861	12348	12857	14109	14561	
	4500	7361	6883	7283	7789	8187	8599	9699	10107	10500	10911	11400	11837	12988	13422	
	4375	7289	6814	7206	7702	8099	8511	9599	9998	10390	10795	11309	11710	12893	13281	
	4250	7195	6724	7129	7609	8006	8419	9510	9905	10276	10720	11194	11606	12748	13138	
	4125	6960	6487	6879	7323	7719	8131	9170	9585	9963	10351	10791	11197	12264	12688	
	4000	6883	6412	6832	7257	7633	8038	9091	9491	9863	10235	10667	11079	12148	12541	
	3875	6817	6346	6757	7184	7569	7976	8995	9390	9755	10124	10576	10971	12022	12462	
	3750	6095	5622	5970	6399	6744	7077	8017	8366	8725	9051	9454	9809	10736	11079	
	3625	6024	5551	5919	6316	6666	7006	7912	8256	8610	8941	9331	9679	10611	10958	
	3500	5855	5378	5707	6047	6387	6753	7646	7945	8288	8652	9022	9372	10276	10609	
	3375	5749	5276	5607	5943	6300	6639	7503	7844	8172	8514	8898	9223	10129	10440	
	3250	5677	5205	5529	5851	6215	6547	7402	7734	8080	8397	8779	9099	9992	10312	
	3125	5587	5113	5435	5750	6108	6437	7278	7609	7962	8275	8648	8952	9839	10153	
	3000	5073	4598	4879	5202	5482	5776	6541	6791	7086	7376	7728	7995	8753	9048	
	2875	5019	4543	4798	5110	5393	5682	6435	6679	6969	7273	7601	7886	8614	8917	
	2750	4861	4389	4687	4961	5227	5506	6211	6456	6735	7015	7325	7627	8353	8640	
	2625	4807	4333	4613	4900	5141	5412	6097	6372	6648	6923	7200	7494	8230	8498	
	2500	4719	4246	4519	4803	5041	5307	5979	6248	6514	6787	7086	7351	8087	8338	
	2375	4640	4170	4455	4716	4970	5227	5894	6160	6426	6652	6960	7244	7945	8208	
	2250	4131	3658	3913	4114	4341	4562	5111	5341	5542	5772	6070	6282	6880	7093	
	2125	4048	3577	3833	4046	4271	4463	5022	5217	5443	5670	5926	6148	6735	6961	
	2000	3978	3505	3748	3964	4172	4392	4908	5110	5328	5550	5802	6042	6612	6825	
	1875	3910	3437	3659	3890	4073	4287	4795	5010	5222	5443	5690	5924	6471	6667	
Width		1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
From 1200																
		Width														
		Rail width 52 mm														
Number of fields per glazing frame		1	2					3					4			

ALR 67 Thermo

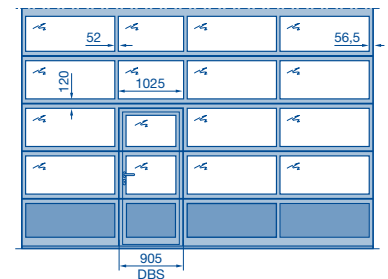
Wicket doors from page 64.



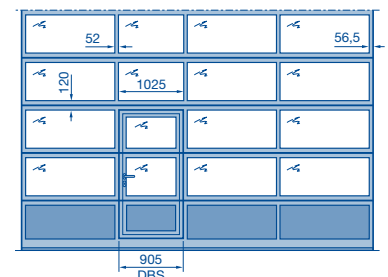
Basic model (without wicket door)
With uniform field division along the width



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



Version with wicket door with trip-free threshold



Version with wicket door and threshold rail

DBS Wicket door clear passage width

						Number of glazing frames ¹⁾
						[A]
	25629	26492			7500	10
	25487	26361			7375	10
	25348	26207			7250	10
	24902	25714			7125	10
	24760	25579			7000	10
	24623	25470			6875	10
	23139	23912	26173	27310	6750	9
	22987	23781	26006	27138	6625	9
	22574	23343	25839	26962	6500	9
	22398	23167	25649	26389	6375	9
	22282	23043	25499	26243	6250	9
	22114	22884	25331	26062	6125	9
	20907	21612	23651	24334	6000	8
	20754	21457	23495	24161	5875	8
	20467	21171	23176	23824	5750	8
	20316	21016	22998	23680	5625	8
	20173	20871	22819	23496	5500	8
	20040	20718	22668	23352	5375	8
	18827	19473	21294	21932	5250	7
	18693	19314	21145	21764	5125	7
	15997	16486	18190	18682	5000	7
	15883	16366	18033	18558	4875	7
	15754	16218	17912	18418	4750	7
	15602	16114	17783	18279	4625	7
	14335	14782	16328	16746	4500	6
	14190	14646	16187	16619	4375	6
	14053	14497	16016	16449	4250	6
	13605	14003	15851	16321	4125	6
	13464	13867	15333	15724	4000	6
	13326	13758	15186	15602	3875	6
	11844	12198	13569	13911	3750	5
	11693	12070	13402	13739	3625	5
	11280	11632	13231	13578	3500	5
	11105	11451	13047	13397	3375	5
	10988	11330	12898	13250	3250	5
	10820	11174	12728	13071	3125	5
	9614	9901	11044	11341	3000	4
	9460	9743	10891	11170	2875	4
	9170	9459	10574	10833	2750	4
	9024	9306	10395	10690	2625	4
	8879	9158	10216	10502	2500	4
	8747	9007	10067	10357	2375	4
	7534	7763	8690	8937	2250	3
	7400	7600	8542	8773	2125	3
	7237	7465	8383	8599	2000	3
	7096	7319	8203	8437	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 9 of this price list!

- See the technical manual for the number of door sections
- Tubular shaft for direct drive operator required! Surcharge see page 11 or page 93.

Alternative infills	Page 60
Additional glazing frames	Page 60
Surface coating	From page 84
Accessories	From page 86

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 10 – 13.

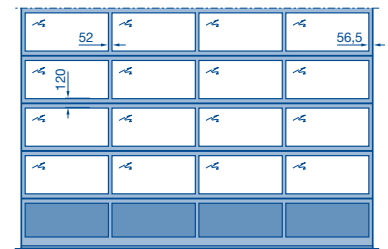
For a product description, see pages 8 and 9.

Doors with a grid height over 7500 mm on request.

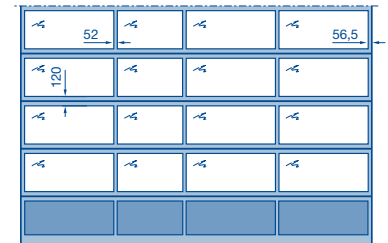
Grid height	7500															
	7375															
	7250															
	7125															
	7000															
	6875															
	6750															
	6625															
	6500															
	6375	27491														
	6250	27340														
	6125	27151														
	6000	25403	26437	27226	27916	28588	29355	31156	31882							
	5875	25250	26279	27047	27747	28447	29187	30986	31734							
	5750	24899	25608	26883	27578	28265	28988	30841	31515							
	5625	24739	25427	26723	27436	28081	28816	30616	31311	34339	35039					
	5500	24548	25234	25975	27242	27916	28669	30388	31087	34175	34889					
	5375	24375	25057	25803	26469	27787	28460	30189	30888	34046	34682					
	5250	22866	23534	24247	24869	25465	26114	27721	28358	31726	32339					
	5125	22705	23384	24053	24678	25271	25911	27512	28130	31533	32138	33588	34188			
	5000	19497	20044	20587	21083	21550	22061	23532	24019	27296	27772	29092	29563			
	4875	19357	19905	20405	20936	21393	21865	23340	23834	27026	27488	28815	29242			
	4750	19240	19741	20264	20786	21217	21705	23153	23637	26750	27263	28526	28983	30028		
	4625	19097	19558	20117	20608	21022	21575	22956	23460	26491	27001	28255	28705	29745		
	4500	17483	17908	18433	18883	19332	19754	20992	21438	24385	24823	25974	26408	27319	27768	
	4375	17323	17764	18286	18701	19149	19591	20823	21310	24175	24578	25754	26146	27059	27514	
	4250	17150	17639	18115	18548	18956	19409	20685	21116	23901	24315	25459	25847	26764	27203	
	4125	17011	17498	17930	18403	18798	19126	20505	20928	23631	24038	25106	25527	26445	26845	
	4000	16383	16792	17259	17698	18121	18540	19759	20157	22777	23182	24256	24647	25573	25973	
	3875	16237	16638	17117	17529	17960	18412	19551	19962	22501	22896	23945	24385	25254	25686	
	3750	14485	14868	15290	15647	16045	16428	17481	17861	20316	20674	21603	21943	22709	23064	
	3625	14342	14710	15114	15483	15883	16257	17294	17707	20083	20430	21365	21708	22443	22821	
	3500	14164	14551	14929	15315	15702	16054	17155	17489	19782	20133	21039	21369	22040	22389	
	3375	14010	14363	14773	15131	15493	15874	16923	17249	19463	19787	20695	21006	21670	22018	
	3250	13848	14127	14618	14974	15327	15745	16703	17047	19180	19499	20392	20710	21387	21732	
	3125	13650	14029	14433	14766	15147	15530	16484	16824	18874	19177	20063	20377	21046	21398	
	3000	11808	12430	12785	13085	13396	13751	14596	14925	16891	17159	17917	18210	18774	19063	
	2875	11659	12274	12611	12911	13253	13579	14423	14778	16662	16943	17674	17974	18518	18801	
	2750	11303	11601	12442	12745	13073	13380	14279	14557	16357	16657	17386	17673	18205	18490	
	2625	11143	11424	12284	12605	12886	13213	14054	14349	16067	16362	17102	17365	17893	18172	
	2500	10953	11231	11537	12412	12727	13060	13830	14132	15768	16035	16766	17019	17559	17839	
	2375	10783	11053	11363	11635	12592	12855	13628	13930	15486	15771	16470	16733	17272	17531	
	2250	9274	9529	9809	10036	10273	10509	11159	11397	12869	13085	13684	13892	14335	14562	
	2125	9115	9378	9617	9845	10078	10306	10950	11171	12561	12783	13369	13596	14031	14235	
	2000	8971	9196	9437	9666	9881	10125	10746	10994	12307	12546	13113	13326	13741	13967	
	1875	8783	9004	9246	9477	9699	9908	10540	10773	11998	12235	12781	12977	13405	13628	
	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

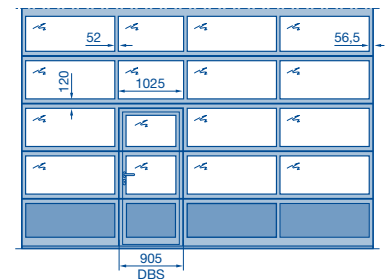
Wicket doors from page 64.



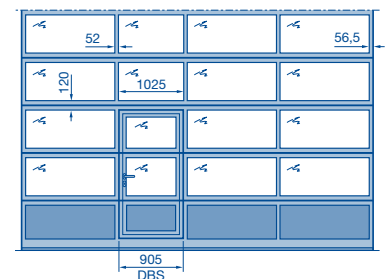
Basic model (without wicket door)
With uniform field division along the width



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



Version with wicket door with trip-free threshold



Version with wicket door and threshold rail

DBS Wicket door clear passage width

-  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 9 of this price list!

- 1) See the technical manual for the number of door sections
- 2) Tubular shaft for direct drive operator required! Surcharge see page 11 or page 93.

Alternative infills	Page 60
Additional glazing frames	Page 60
Surface coating	From page 84
Accessories	From page 86

			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
29315	29731	4500	6	8
29056	29485	4375	6	8
28725	29161	4250	6	8
28306	28700	4125	6	8
27436	27830	4000	6	7
27115	27524	3875	6	7
24433	24775	3750	5	7
24151	24492	3625	5	7
23994	24339	3500	5	7
23613	23960	3375	5	6
23296	23652	3250	5	6
22951	23296	3125	5	6
20206	20504	3000	4	6
19952	20227	2875	4	5
19605	19865	2750	4	5
19267	19556	2625	4	5
18896	19186	2500	4	5
18593	18884	2375	4	5
15491	15737	2250	3	4
15174	15404	2125	3	4
14890	15100	2000	3	4
14512	14748	1875	3	4

9500	9750	10000
Width		
Rail width 52 mm		
7		

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 (S 3)	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 (A 3)	51 mm	[U _g = 1.6]	3092417	Each	35
Synthetic triple pane, white tinted (opal) (M3)	51 mm	[U _g = 1.6]	3092419	Each	35
Clear synthetic quadruple pane (S4)	51 mm	[U _g = 1.3]	3092420	Each	84
Synthetic quadruple pane, crystal structure (U4)	51 mm	[U _g = 1.3]	3094589	Each	84
Synthetic quadruple pane, grey tinted (A4)	51 mm	[U _g = 1.3]	3092422	Each	114
Synthetic quadruple pane, white tinted (opal) (M4)	51 mm	[U _g = 1.3]	3092424	Each	114
Clear polycarbonate triple pane (C3)	51 mm	[U _g = 1.6]	3099340	Each	127
Clear polycarbonate quadruple pane (C4)	51 mm	[U _g = 1.3]	3099341	Each	212
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	144
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	405
Climatic double pane made of single-pane safety glass (G2)	26 mm	[U _g = 1.1]	3092428	Per m ²	539
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	238
Surface coating					From page 84
Accessories					From page 86

1) On request

Sectional door ALR 67 Thermo

Glazed aluminium sectional door with thermal break

Alternative infills and glazing frames

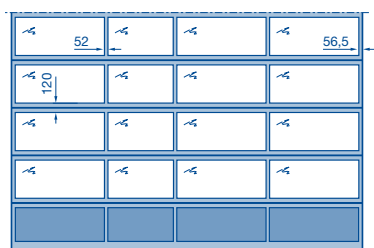
Sectional door ALR 67 Thermo

Wicket doors from page 64.

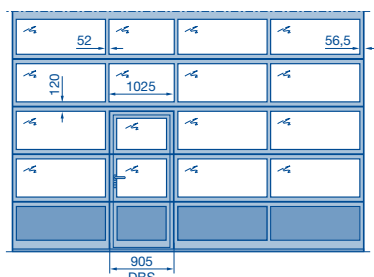
Bottom door section with PU infill, with aluminium sheet cover



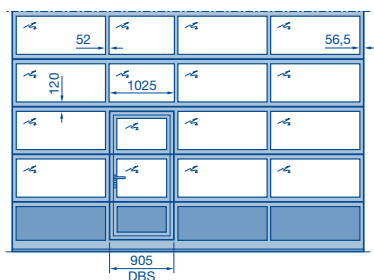
Basic model (without wicket door)
With uniform field division along the width



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



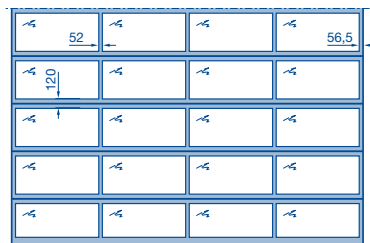
Version with wicket door with trip-free threshold



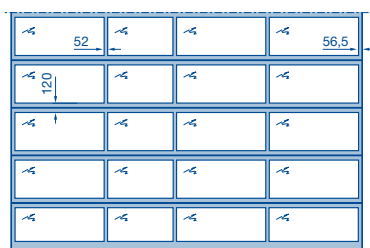
Version with wicket door and threshold rail

Bottom door section with (optional) glazing

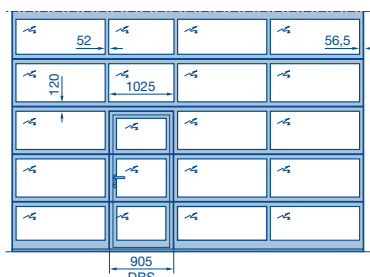
Width up to 5500 mm



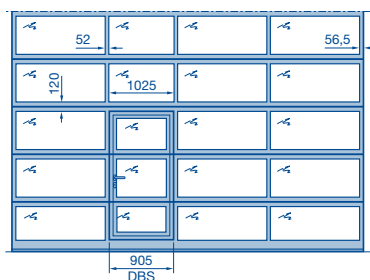
Version with glazing in the lowest door section (without wicket door)
With uniform field division along the width



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

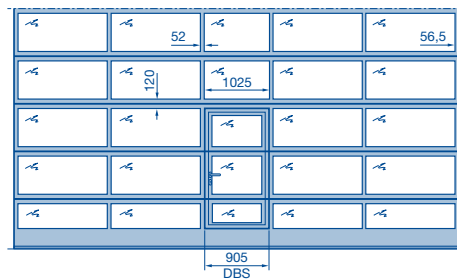
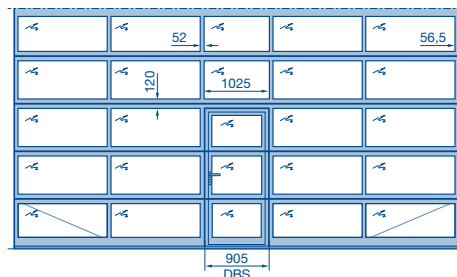
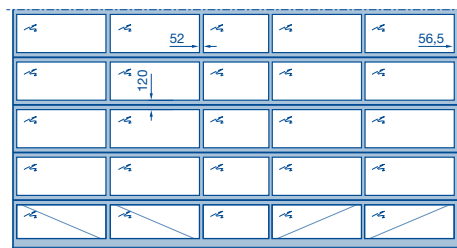
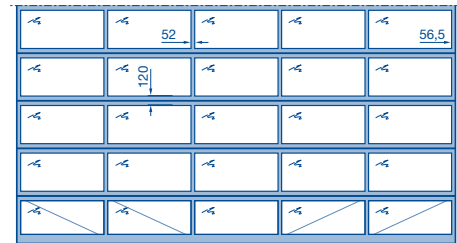


Version with glazing in the lowest door section, with wicket door with trip-free threshold



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

* Notice:

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 10 – 13.

For a product description, see pages 8 and 9.

Grid height	4000	10427	10806	11295	11657	12066	13764	14529	14941	15468	15837	16244	16538	16932	17215	4000	
	3875	10204	10582	11073	11436	11844	13543	14310	14719	15250	15615	16024	16316	16710	16990	3875	
	3750	9983	10360	10853	11215	11625	13320	14087	14499	15027	15394	15803	16097	16491	16770	3750	
	3625	9763	10144	10633	10993	11400	13100	13869	14275	14806	15173	15581	15873	16268	16548	3625	
	3500	8880	9248	9727	10075	10472	12008	12698	13096	13608	13965	14361	14644	15029	15297	3500	
	3375	8266	8634	9109	9459	9858	11276	11906	12307	12818	13174	13570	13854	14235	14510	3375	
	3250	7649	8018	8496	8847	9242	10544	11117	11514	12027	12384	12781	13063	13449	13720	3250	
	3125	7038	7404	7880	8230	8625	9814	10326	10724	11238	11594	11989	12276	12657	12929	3125	
	3000	6423	6787	7264	7613	8014	9081	9537	9933	10448	10806	11201	11484	11868	12141	3000	
	2875	5805	6172	6652	7000	7397	8348	8749	9143	9657	10012	10408	10694	11078	11348	2875	
	2750	5554	5919	6397	6748	7105	8038	8381	8786	9302	9657	10051	10341	10722	10990	2750	
	2625	5448	5816	6279	6654	7009	7888	8275	8634	9145	9503	9899	10184	10570	10836	2625	
	2500	5341	5729	6160	6514	6870	7737	8109	8468	8989	9348	9743	10030	10409	10683	2500	
	2375	5245	5626	6046	6399	6748	7597	7987	8325	8815	9172	9568	9853	10237	10507	2375	
	2250	5137	5511	5928	6274	6639	7453	7843	8170	8649	9010	9403	9690	10074	10345	2250	
	2125	4372	4667	4997	5309	5608	6309	6602	6890	7354	7638	7970	8254	8638	8911	2125	
	2000	4292	4568	4902	5206	5507	6191	6484	6761	7224	7503	7825	8134	8488	8759	2000	
	1875	4198	4470	4841	5122	5393	6093	6345	6656	7095	7366	7682	7962	8331	8612	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)								

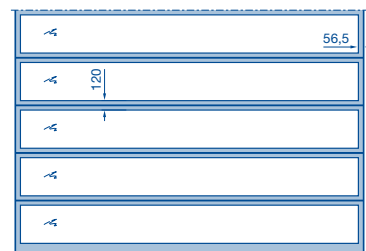
Important:

Note the information regarding the trap guard on page 9 of this price list!

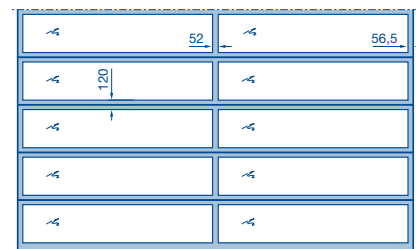
	Number of glazing frames ¹⁾ [A]
	6
	6
	6
	6
	5
	5
	5
	5
	5
	5
	4
	4
	4
	4
	4
	4
	4
	3
	3
	3

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	137
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 84
Accessories					From page 86

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	1805
	4510–5500 mm	1750–4500 mm	Min. 500 mm high	678801	Per door	1953
	5510–7000 mm	4510–6000 mm	Min. 625 mm high ¹⁾	678802	Per door	3695
Wicket door with trip-free threshold	1750–5500 mm	1750–4500 mm	–	3065128	Per door	1574
	5510–7000 mm	4510–6000 mm	–	3065129	Per door	3211

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	2574
	4510–5500 mm	1750–4500 mm	Min. 500 mm high	3092673	Per door	2724
	5510–7000 mm	4510–6000 mm	Min. 625 mm high ¹⁾	3092674	Per door	4463
Wicket door with trip-free threshold	1750–5500 mm	1750–4500 mm	–	3092442	Per door	2343
	5510–7000 mm	4510–6000 mm	–	3092443	Per door	3981

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	321

Notice:

Multiple-point locking for wicket doors required!

Wicket door without lock and without lever handle set

3060371 **No
surcharge / price
reduction**

Notice:

Not possible with version RC 2!

Surcharge for wicket door with lock, without outside lever handle, for double cylinder (The door can only be opened using a key from the outside)	Profile cylinder	3060517	Per door	137
	Round cylinder	3101470	Per door	137
Surcharge for wicket door with lock, without outside lever handle, for half cylinder (The door can only be operated from the inside)	Profile cylinder	3060518	Per door	137
	Round cylinder	3101471	Per door	137
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	438

Notice:

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	725
Wicket door with very short distance to outside door edge	3060512	Per door	554

Notices:

- 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	1422
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Notice:

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.	PC	3092521	Each	240
	RC	3092522	Each	240
Anti-panic lock for profile cylinder with anti-panic spindle, for lever handle outside Function B: With change-over function; the lever handle is switched to "idle" or "operation" after actuation, depending on the adjustment.	PC	3091225	Each	318
	RC	3095106	Each	318
Anti-panic lock for profile cylinder with anti-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.	PC	3091226	Each	318
	RC	3095107	Each	318
Anti-panic lock for fixed knob on outside, self-locking Function E: The door can only be opened using a key from the outside.	PC	3093758	Each	503
	RC	3093759	Each	503
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 setting.	PC	3093760	Each	588
	RC	3093761	Each	588
Lever handle set offset / flat		Article no.		€
Black plastic	PC	3092452	Each	No surcharge
	RC	3092453	Each	
Aluminium natural finish (F1)	PC	3092454	Each	138
	RC	3092455	Each	138
Brushed stainless steel	PC	3092462	Each	183
	RC	3092463	Each	183
Polished stainless steel	PC	3092464	Each	210
	RC	3092465	Each	210
Lever / knob handle sets offset / flat		Article no.		€
Black plastic	PC	3092466	Each	77
	RC	3092467	Each	77
Aluminium natural finish (F1)	PC	3092468	Each	161
	RC	3092469	Each	161
Brushed stainless steel	PC	3092476	Each	214
	RC	3092477	Each	214
Polished stainless steel	PC	3092478	Each	239
	RC	3092479	Each	239
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 hinged / RH hinged Only opens with an impulse, i.e. as long as the button is pressed.		3092513	Each	121
10–24 V, LH hinged / RH hinged Remains open after an impulse until the door is actuated – subsequent locking by door strike (catch).		3092514	Each	162
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	413
Notice:				
• 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	163
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	119
Anti-panic 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	501
	Stainless steel	3100109	Each	822
Gearbox unit made of steel, lever arms and rod screwed together at high-strength, sturdy bar made of stainless steel tube 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	434
Security rose escutcheon (surface finish matching lever handle sets and lever / knob handle sets)		3091228	Each	256

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	PC	3090800	Per door	493
	RC	3091224	Per door	493
For wicket doors consisting of 4 wicket door parts	PC	3090800	Per door	625
	RC	3091224	Per door	625
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 *	PC	3091580	Per door
		RC	3091583	Per door
	Multiple-point locking with anti-panic lock function B *	PC	3091581	Per door
		RC	3091584	Per door
	Multiple-point locking with anti-panic lock function D *	PC	3091582	Per door
		RC	3091585	Per door
	Multiple-point locking with anti-panic lock function E *	PC	3091580	Per door
		RC	3091583	Per door
For wicket doors consisting of 4 wicket door parts	Multiple-point locking with anti-panic lock function B *	PC	3091581	Per door
		RC	3091584	Per door
	Multiple-point locking with anti-panic lock function D *	PC	3091582	Per door
		RC	3091585	Per door

* 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 in a grey tone fitted in front.

Side door for sectional doors ALR F42 Vitraplan AT: ALUCOBOND® or TRESPA® facade panels fitted in front.

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.

Matching sectional doors ALR F42 Vitraplan AT

All infills with PU infills with aluminium sheet cover, both sides Stucco-textured, (FU) 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.

Matching sectional doors ALR F42 Vitraplan AT

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

Based on RAL 9005 Jet black

For RAL colours, see "Surface coating" from page 84.

Performance characteristics in accordance with EN 14351-1

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

* npd = no performance determined

Side door NT 60

Matching sectional doors SPU

Size range					
Ordering sizes		Article no.	Article no.		€
Overall frame dimensions (RAM)		Stucco-textured	Micrograin		
From	770 × 1865	3093691	3093692	Each	1537
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	184
Window section with synthetic single pane, crystal structure (KR)		3 mm	3050869	Each	184
Window section with clear synthetic double pane (S2)		26 mm [U _g = 2.6]	3085668	Each	184
Window section with crystal structure synthetic double pane (U2)		26 mm [U _g = 2.6]	3094590	Each	184
Window section with synthetic double pane, grey tinted (A2)		26 mm [U _g = 2.6]	3091291	Each	208
Window section with synthetic double pane, white tinted (opal) (M2)		26 mm [U _g = 2.6]	3091293	Each	208
Window section with clear synthetic triple pane (S3)		26 mm [U _g = 1.9]	3085671	Each	248
Window section with synthetic triple pane, crystal structure (U3)		26 mm [U _g = 1.9]	3094591	Each	248
Window section with synthetic triple pane, grey tinted (A3)		26 mm [U _g = 1.9]	3091294	Each	276
Window section with synthetic triple pane, white tinted (opal) (M3)		26 mm [U _g = 1.9]	3091296	Each	276
Window section with clear polycarbonate single pane (P)		6 mm	3050870	Each	265
Window section with clear polycarbonate double pane (C2)		26 mm [U _g = 2.7]	3085670	Each	265
Window section with single pane made of laminated safety glass (VG)		6 mm	3064425	Each	453
Window section with double pane made of single-pane safety glass (E2)		26 mm [U _g = 2.6]	3090286	Each	692
Window section with climatic double pane made of single-pane safety glass (G2)		26 mm [U _g = 1.1]	3090520	Each	788
Window section with multiple-moulded pane (S)		16 mm [U _g = 1.9]	3050871	Each	184
Field with stainless steel expanded mesh (SE), ventilation cross section 54 % of the infill surface (Colour coating not possible)		5 mm	3088485	Each	214
Field with perforated stainless sheet steel (LB), perforation: 8 mm, ventilation cross section 40 % of the infill surface (Colour coating not possible)		1.5 mm	3062883	Each	300
Prepared for on-site infill (BS)			3090167	Each	184
Compound glazing with plastic frame type A and clear synthetic double pane, RAM width at least 1050 mm		33 mm	3054540	Each	73
Compound glazing with diecast frame type A and clear synthetic double pane, RAM width at least 1050 mm		26 mm	3042790	Each	152
Compound glazing with diecast frame type A and clear polycarbonate double pane, RAM width at least 1050 mm		26 mm	3042792	Each	181
Compound glazing with diecast frame type A and clear real glass double pane (P4A), RAM width at least 1050 mm		26 mm	3094156	Each	482
Compound glazing with plastic frame type D and clear synthetic double pane, RAM width at least 1000 mm		16 mm	3055167	Each	101
Compound glazing with plastic frame type E and clear synthetic double pane, RAM width at least 1150 mm		33 mm	3054544	Each	98
Optional extras		Article no.			€
Fascia panel above the side door, depth 42 mm Panel height < 360 mm		Stucco	3093728	Each	260
		Micrograin	3093729		
Aluminium fascia panel above the side door E6 / C0 with PU section infill Panel height ≥ 360 mm		Stucco	3093713	Per m²	490
		Micrograin	3093714		
Extension profile for the side door frame on each side incl. fixing set		25 mm	3095098	Per m	43
- Only for fitting in the reveal! - Not possible with fascia panel!		50 mm	3093756	Per m	48
Additional panel height included in calculated overall frame height					
Calculated dimension all-round on 3 sides					
2 × overall frame height plus additional panel height, if any					
+ Overall frame width					
+ 4 × profile width					
// NEW Frame extension			3101478	Each	86
// NEW Door section shortened from below in the side door (on request)			3101479	Each	153
Surface coating					From page 84
Additional accessories					Page 76
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	1662
					Micrograin	3093694	Each	1662
				ALR		3093695	Each	1662
				ALR F42 Vitraplan	Grey	3093697	Each	3326
				ALR F42 Vitraplan AT		3101819	Each	4059
Infills					U _g in W/(m²·K)	Article no.		€
APU / ALR	ALR F42 Vitraplan	ALR F42 Vitraplan AT	● Possible ○ Not available					
●	○	○	Aluminium fascia panel E6 / C0 above the side door with clear synthetic double pane (S2)	26 mm		3093715	Per m²	578
○	●	○	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	1298
○	○	●	Aluminium frame panel above side door ALR F42 Vitraplan AT with insulated infill, PU foam with Stucco-textured aluminium sheet cover (FU) on both sides and ALUCOBOND® or TRESPA® ¹⁾ facade panels fitted in front			3101820	Per m²	1643
●	○	○	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 (U 2)	26 mm	[U _g = 2.6]	3094582		No surcharge
●	○	○	Grey tinted synthetic double pane infill (A2)	26 mm	[U _g = 2.6]	3091255	Each	35
●	○	○	White tinted (opal) synthetic double pane infill (M2)	26 mm	[U _g = 2.6]	3091257	Each	35
●	●	○	Clear synthetic triple pane infill (S 3)	26 mm	[U _g = 1.9]	3091527	Each	84
●	●	○	Synthetic triple pane infill, crystal structure (U3)	26 mm	[U _g = 1.9]	3094583	Each	84
●	○	○	Synthetic triple pane infill (A3), grey tinted	26 mm	[U _g = 1.9]	3091258	Each	113
●	○	○	Synthetic triple pane white tinted (opal) infill (M3)	26 mm	[U _g = 1.9]	3091260	Each	113
●	○	○	Clear polycarbonate single pane infill (P)	6 mm		3091523	Each	127
●	●	○	Clear polycarbonate double pane infill (C2)	26 mm	[U _g = 2.6]	3091528	Each	127
●	○	○	Single pane laminated safety glass infill (VG)	6 mm		3093747	Each	176
●	○	○	Double pane made of single-pane safety glass infill (E2)	26 mm	[U _g = 2.6]	3093748	Each	405
●	○	○	Climatic double pane made of single-pane safety glass infill (G2)	26 mm	[U _g = 1.1]	3093749	Each	539
●	○	●	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	144
●	○	○	Multiple-moulded pane infill (S)	16 mm	[U _g = 1.9]	3091524		No surcharge
●	○	○	Stainless steel expanded mesh (SE) infill, ventilation cross section 54 % of the infill surface (Colour coating not possible)	5 mm		3091529	Each	52
●	○	○	Perforated stainless sheet steel (LB) infill, perforation: 8 mm, ventilation cross section 40 % of the infill surface (Colour coating not possible)	1.5 mm		3091530	Each	155
●	○	○	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

Alternative facade panels for ALR F42 Vitraplan AT fitted in front	Article no.	€
Facade panel ALUCOBOND® Solid Colours Black 326	3101823	No surcharge
Facade panel ALUCOBOND® Solid Colours Pure White 10/100	3101822	No surcharge
Facade panel ALUCOBOND® naturAL Reflect 405 ¹⁾	3101824	Per m ² 132
Facade panel ALUCOBOND® naturAL Brushed 400	3101825	Per m ² 53
Facade panel TRESPA® Anthracite Grey A25.8.1 Satin	3101826	Per m ² 132
Facade panel TRESPA® Paris Silver LM 5101 Diffuse	3101827	Per m ² 176
Facade panel TRESPA® Natural Slate Natural NA18 Matt	3101828	Per m ² 132
Facade panel TRESPA® Italian Walnut NW08 Matt	3101829	Per m ² 132

- 1) The ALUCOBOND® panel naturAL Reflect 405 is high-gloss aluminium with a transparent protective paint. The metallic gloss gives the objects a classy and vibrant look. Reflections may occur due to the nature of the material, and these must be taken into account in the planning on site. The naturAL Brushed 400 surface, which prevents any annoying reflections due to its texture, can be selected as an alternative.

Optional extras	Article no.	€
Extension profile for the side door frame on each side incl. fixing set Only for fitting in the reveal!	25 mm 3095098 50 mm 3093756	Per m 43 Per m 48
Additional panel height included in calculated overall frame height Calculated dimension all-round on 3 sides 2 × overall frame height plus additional panel height, if any + Overall frame width + 4 × profile width		
// NEW Frame extension	3101478	Per door 86
// NEW Door section shortened from below in the side door (on request)	3101479	Per door 153

Additional accessories	Page 76
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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 84.

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	2369
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	677
Window section with synthetic triple pane, crystal structure (U3)		51 mm [U _g = 1.6]	3094592	Each	677
Window section with synthetic triple pane, grey tinted (A3)		51 mm [U _g = 1.6]	3093736	Each	725
Window section with synthetic triple pane, white tinted (opal) (M3)		51 mm [U _g = 1.6]	3093738	Each	725
Window section with synthetic quadruple pane, clear, (S4)		51 mm [U _g = 1.3]	3093739	Each	733
Window section with synthetic quadruple pane, crystal structure (U4)		51 mm [U _g = 1.3]	3094593	Each	733
Window section with synthetic quadruple pane, grey tinted, (A4)		51 mm [U _g = 1.3]	3093741	Each	787
Window section with synthetic quadruple pane, white tinted (opal) (M4)		51 mm [U _g = 1.3]	3093743	Each	787
Window section with clear polycarbonate triple pane (C3)		51 mm [U _g = 1.6]	3099342	Each	804
Window section with clear polycarbonate quadruple pane (C4)		51 mm [U _g = 1.3]	3099343	Each	861
Window section with double pane made of single-pane safety glass (E2)		26 mm [U _g = 2.6]	3093744	Each	1390
Window section with climatic double pane made of single-pane safety glass (G2)		26 mm [U _g = 1.1]	3093745	Each	1529
Prepared for on-site infill (BS) ¹⁾			3093746	Each	677
Compound glazing with plastic frame type A and clear synthetic double pane, RAM width at least 1050 mm		33 mm	3054540	Each	73
Compound glazing with diecast frame type A and clear synthetic double pane, RAM width at least 1050 mm		26 mm	3042790	Each	152
Compound glazing with diecast frame type A and clear polycarbonate double pane, RAM width at least 1050 mm		26 mm	3042792	Each	181
Compound glazing with diecast frame type A and clear real glass double pane (P4A), RAM width at least 1050 mm		26 mm	3094156	Each	482
Compound glazing with plastic frame type D and clear synthetic double pane, RAM width at least 1000 mm		16 mm	3055167	Each	101
Compound glazing with plastic frame type E and clear synthetic double pane, RAM width at least 1150 mm		33 mm	3054544	Each	98
Optional extras			Article no.		€
Aluminium fascia panel above the side door E6 / C0 with PU section infill		Stucco	3093731	Per m ²	772
		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	77
		50 mm	3093757	Per m	85
Additional panel height included in calculated overall frame height Calculated dimension all-round on 3 sides 2 × overall frame height plus additional panel height, if any + Overall frame width + 2 × profile width					
Surface coating					From page 84
Additional accessories					Page 76

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	2616
		Micrograin	3093711	Each	2616
	ALR		3093712	Each	2616

Infills		U_g in W/(m²·K)	Article no.	€		
APU/ALR	Possible Not available					
	Aluminium fascia panel E6 / C0 above the side door with clear synthetic triple pane (S3)	51 mm	3093733	Per m²	848	
	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	35
	Synthetic triple pane white tinted (opal) infill (M3)	51 mm	[$U_g = 1.6$]	3092419	Each	35
	Synthetic quadruple pane infill, clear (S4)	51 mm	[$U_g = 1.3$]	3092420	Each	84
	Synthetic quadruple pane infill, crystal structure (U4)	51 mm	[$U_g = 1.3$]	3094589	Each	84
	Synthetic quadruple pane infill, grey tinted (A4)	51 mm	[$U_g = 1.3$]	3092422	Each	114
	Synthetic quadruple pane infill, white tinted (opal) (M4)	51 mm	[$U_g = 1.3$]	3092424	Each	114
	Clear polycarbonate triple pane infill (C3)	51 mm	[$U_g = 1.6$]	3099340	Each	127
	Clear polycarbonate quadruple pane infill (C4)	51 mm	[$U_g = 1.3$]	3099341	Each	212
	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	144
	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	405
	Climatic double pane made of single-pane safety glass infill (G2)	26 mm	[$U_g = 1.1$]	3093751	Each	539
	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	77
Only for fitting in the reveal!	50 mm	3093757	Per m	85
Additional panel height included in calculated overall frame height				
Calculated dimension all-round on 3 sides				
2 × overall frame height plus additional panel height, if any				
+ Overall frame width				
+ 2 × profile width				

Additional accessories	Page 76
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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	PC	3092480	No surcharge	
		RC	3092481		
	Aluminium natural finish (F1)	PC	3092482	Each	138
		RC	3092483		
	Brushed stainless steel	PC	3092490	Each	183
		RC	3092491		
	Polished stainless steel	PC	3092492	Each	210
		RC	3092493		
Lever / knob handle sets offset / offset	Black plastic	PC	3092494	Each	77
		RC	3092495		
	Aluminium natural finish (F1)	PC	3092496	Each	161
		RC	3092497		
	Brushed stainless steel	PC	3092504	Each	214
		RC	3092505		
	Polished stainless steel	PC	3092506	Each	239
		RC	3092507		
Overhead door closers			Article no.	€	
Overhead door closer with slide rail and hold-open device			3092542	Each	319
Electric door strike with day and night setting (wiring on-site)			Article no.	€	
10 – 24 V, LH hinged / RH hinged Only opens with an impulse, i.e. as long as the button is pressed.			3092513	Each	121
10 – 24 V, LH hinged / RH hinged Remains open after an impulse until the door is actuated – subsequent re-locking (catch).			3092514	Each	162
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).	PC	3093762	Each	488	
	RC	3093763	Each	488	
Multiple-point locking with anti-panic function E Function E: The door can only be opened using a key from the outside.	PC	3094311	Each	837	
	RC	3094312	Each	837	
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 setting.	PC	3094307	Each	947	
	RC	3094308	Each	947	
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.	PC	3094309	Each	947	
	RC	3094310	Each	947	
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.	PC	3092521	Each	240	
	RC	3092522	Each	240	
Anti-panic lock for profile cylinder with anti-panic spindle, for lever handle outside Function B: With change-over function; the lever handle is switched to “idle” or “operation” after actuation, depending on the adjustment.	PC	3091225	Each	318	
	RC	3095106	Each	318	
Anti-panic lock for profile cylinder with anti-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.	PC	3091226	Each	318	
	RC	3095107	Each	318	
Anti-panic lock for fixed knob on outside, self-locking Function E: The door can only be opened using a key from the outside.	PC	3093758	Each	503	
	RC	3093759	Each	503	
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 setting.	PC	3093760	Each	588	
	RC	3093761	Each	588	

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 76 are suitable.			
Self-locking anti-panic lock SVP 5000 no. 5729		3097119	Each 806
Self-locking anti-panic lock SVP 4000 no. 4729 with connection cable SVP-A 1100		3097120	Each 1391
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 2825
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 2155
	No. 6729, left outwards, right inwards	3097121	Each 2155
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 76 are suitable.			
Self-locking anti-panic lock 309X 302		3073922	Each 900
Self-locking anti-panic lock 409X 302 with connection cable Z09		3073923	Each 1446
Anti-panic lock 509X 302, self-locking motor lock with connection cable Z09 (Lock control must be provided on site)		3073924	Each 2912
Self-locking anti-panic lock 709X 302 with handle-control and connection cable Z09 (Current variant and anti-panic side adjustable)		3073925	Each 2253
Additional fixing sets for side door		Article no.	€
Fixing set for fitting to steel (not with extension profile)		3090341	Each 29
Fixing set for fitting to brickwork (not with extension profile)		3050992	Each 29
8 fixing angles, including bolts, washers and plugs (not with extension profile) Not applicable for NT 80 Thermo!		3092545	Each 29
Additional accessories for side doors		Article no.	€
Latch contact for closing control (VdS class C), wiring on-site		3093964	Each 163
Block reed contact (magnetic contact) for Open / Close query (VdS class C), wiring on-site		3092546	Each 119
Anti-panic push bar for side door, inside (anti-panic lock required) (Only PC version)	Black / green	3100106	Each 434
	Stainless steel	3100107	Each 739
Gearbox unit made of steel, lever arms and rod screwed together at high-strength, sturdy bar made of stainless steel tube 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 585
Surcharge for 3rd door hinge up to a door height of 2210 mm (standard for door heights above 2210 mm)		3091387	Per door 221
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)	Profile cylinder	3060563	Per door 137
	Round cylinder	3101472	Per door 137
Side door without hole pattern for lock and lever handle outside with half cylinder (The door can only be operated from the inside)	Profile cylinder	3060564	Per door 137
	Round cylinder	3101473	Per door 137
Surface coating			From page 84
Accessories			From page 86

Side door NT 60 RC 2

Matching sectional doors

Product description

General rules

Break-in-resistant door set with 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 84.

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)	RC2	RC2	RC2
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	2668
Up to	1300 × 2525				
Alternative infills		U _g in W/(m ² ·K)	Article no.		€
Window section with real glass double panes, P4A (W2)		26 mm [U _g = 1.3]	3095049	Each	665
Compound glazing with diecast frame type A and clear real glass double pane (P4A), RAM width at least 1050 mm		26 mm	3094156	Each	482
Optional extras			Article no.		€
Aluminium fascia panel above the side door E6 / C0 with PU section infill Panel height ≥ 360 mm		Stucco	3095050	Per m ²	663
		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	4058
		Micrograin	3095047	Each	4058
	ALR		3095048	Each	4058
Infills		U _g in W/(m ² ·K)	Article no.		€
APU / ALR	● Possible ○ 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 m ² 1398

1) For doors opening inwards on request

Surface coating	From page 84
Additional accessories	Page 82

Side door NT 80 Thermo RC 2

Matching sectional doors

Product description

General rules

Break-in-resistant door set with 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 84.

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)	RC2	RC2	RC2
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	4337
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	1240
Compound glazing with diecast frame type A and clear real glass double pane (P4A), RAM width at least 1050 mm	26 mm		3094156	Each	482
Optional extras			Article no.		€
Aluminium fascia panel above the side door E6 / C0 with PU section infill		Stucco	3095063	Per m²	971
		Micrograin	3095064		

Side door NT 80 Thermo 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	3095059	Each	5530
		Micrograin	3095060	Each	5530
	ALR		3095061	Each	5530
Infills		U _g in W/(m²·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 m²	1586

Surface coating	From page 84
Additional accessories	Page 82

Accessories

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

Fittings		Article no.		€		
Lever handle sets offset / offset	Black plastic	PC	3092480	No surcharge		
		RC	3092481			
	Brushed stainless steel	PC	3092490	Each	183	
		RC	3092491			
	Polished stainless steel	PC	3092492	Each	210	
		RC	3092493			
Lever / knob handle sets offset / offset	Black plastic	PC	3092494	Each	77	
		RC	3092495			
	Brushed stainless steel	PC	3092504	Each	214	
		RC	3092505			
	Polished stainless steel	PC	3092506	Each	239	
		RC	3092507			
Overhead door closers				Article no.	€	
Overhead door closer with slide rail and hold-open device			3092542	Each	319	
Electric door strike with day and night setting (wiring on-site)				Article no.	€	
10 – 24 V, LH hinged / RH hinged Only opens with an impulse, i.e. as long as the button is pressed.			3092513	Each	121	
10 – 24 V, LH hinged / RH hinged Remains open after an impulse until the door is actuated – subsequent re-locking (catch).			3092514	Each	162	
Additional fixing sets for side door				Article no.	€	
Fixing set for fitting to steel Note: Only for fitting in the reveal!			3090341	Each	29	
Fixing set for fitting to brickwork			3050992	Each	29	
8 support brackets RC 2, including bolts, washers and plugs Not for use on NT 80 Thermo RC 2!			3095122	Each	35	
Additional accessories for side doors				Article no.	€	
Latch contact for closing control (VdS class C), wiring on-site			3093964	Each	163	
Block reed contact (magnetic contact) for Open / Close query (VdS class C), wiring on-site			3092546	Each	119	
Stainless steel push bar 38 – 2, brushed, 1000 mm, exterior (Additional lever handle set in brushed stainless steel required)			3091389	Per door	585	
Surcharge for 3rd door hinge up to a door height of 2210 mm (standard for door heights above 2210 mm)			3091387	Per door	221	
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	137	
Surface coating						From page 84
Accessories						From page 86

Notes and sketches

Surface coating

For sectional doors, side doors, fascia panels and fixed elements

Surface coating – observe exceptions, see notices!

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 Thermo ⁵⁾ - Bottom section for APU F42 / APU F42 Thermo - Bottom section for APU 67 Thermo ⁵⁾ - Side door infills ⁶⁾ - Panels and fixed elements	Preferred colours in accordance with the RAL colour chart ^{1) 4)}	Per m ²	51
	RAL to choose in accordance with the RAL colour chart	Per m ²	51
	Metallic colours ^{2) 4)}	Per m ²	89
	British Standard ³⁾	Per m ²	51
	Colours according to the NCS colour chart (on request)	Per m ²	51
Wet coating on exterior and interior			
- Door sections SPU F42 - Door sections SPU 67 Thermo ⁵⁾ - Bottom section for APU F42 / APU F42 Thermo - Bottom section for APU 67 Thermo ⁵⁾ - Bottom infill ALR F42 / ALR F42 Thermo - Bottom infill ALR 67 Thermo ⁵⁾ - Glazing frames (except for glazing beads) ⁵⁾ - Side door infills ⁶⁾ - Panels and fixed elements	Preferred colours in accordance with the RAL colour chart ^{1) 4)}	Per m ²	73
	RAL to choose in accordance with the RAL colour chart	Per m ²	73
	Metallic colours ^{2) 4)}	Per m ²	121
	British Standard ³⁾	Per m ²	73
	Colours according to the NCS colour chart (on request)	Per m ²	73
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	279
	RAL to choose in accordance with the RAL colour chart	Each	279
	Metallic colours ^{2) 4)}	Each	279
	British Standard ³⁾	Each	279
	Colours according to the NCS colour chart (on request)	Each	279
Extension profile for the side door (only possible in frame colour)		Per m	25
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	255
	RAL to choose in accordance with the RAL colour chart	Per door	326
	Metallic colours ^{2) 4)}	Per door	326
	British Standard ³⁾	Per door	326
	Colours according to the NCS colour chart (on request)	Per door	326
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	70
	RAL to choose in accordance with the RAL colour chart	Per field	70
	Metallic colours ^{2) 4)}	Per field	70
	British Standard ³⁾	Per field	70
	Colours according to the NCS colour chart (on request)	Per field	70
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	188
	RAL to choose in accordance with the RAL colour chart	Per door / panel	188
	Metallic colours ^{2) 4)}	Per door / panel	188
	British Standard ³⁾	Per door / panel	188
	Colours according to the NCS colour chart (on request)	Per door / panel	188
Frame covering 90 mm (Polyester-primer coating only on exterior)	Preferred colours in accordance with the RAL colour chart ^{1) 4)}	Per m	23
	RAL to choose in accordance with the RAL colour chart	Per m	29
	Metallic colours ^{2) 4)}	Per m	29
	British Standard ³⁾	Per m	29
	Colours according to the NCS colour chart (on request)	Per m	29
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)}	Each	32
	RAL to choose in accordance with the RAL colour chart	Each	32
	Metallic colours ^{2) 4)}	Each	52
	British Standard ³⁾	Each	32
	Colours according to the NCS colour chart (on request)	Each	32

Surface coating

For sectional doors, side doors, fascia panels and fixed elements

Anodised glazing beads		
Version with anodised glazing beads (except for ALR F42 Glazing and ALR 67 Thermo Glazing)	Per field	50
Side door / panel above the side door with anodised glazing beads (E6 / C0)	Per door / panel	138

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"), as well as 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:			
- Coil-coated PU sections 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 steel sheet and expanded mesh infills made of stainless steel	
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	ALR F42 Vitraplan AT	SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing					
Possible Not available																
Glazing frame												Article no.		€		
												Top door section as a glazing frame, depth 42 mm		3060526	Per m	37
												Top door section as a glazing frame, depth 67 mm		3092430	Per m	53
												Bottom door section as a glazing frame		3090375	Per m	253
												Additional rails with equal spacing. The minimum or maximum width dimension between the rails must be observed (width dimension between the rails at least 270 mm). Not suitable for doors with wicket door.				
												– Standard version		3091107	Per field	53
												– Thermal break, depth 42 mm		3091646	Per field	73
												– Thermal break, depth 67 mm		3092429	Per field	102
												Additional rail with equal segmenting for door type ALR F42 Vitraplan		3086043	Per field	206
												Decreased number of rails; width between the rails max. 1630 mm (1230 mm with FK, KR, SE and LB)		–	No surcharge	
												Glazing in the bottom door section (The door lock for exterior and interior operation is not possible)		–	See the respective price page	
												Same infill heights in the entire door leaf Except for doors with door widths > 8000 mm and doors with wicket doors Calculation of the frame height: Door section height (TH) = (door height - 119) : number of frames Bottom frame = TH + 84 mm Top frame = TH + 35 mm		3060534	Per door	182
PU bottom section in special heights												Article no.		€		
												PU bottom section in special heights (125 mm grid) (Basic list price of the door as with 750 mm bottom section height)		–	See the respective price page	
Bottom door section in a special height (not possible in version RC 2!)												Article no.		€		
												Special height through adapted bottom door section, depth 42 mm (on request) (cut straight or chamfered) • Except for doors with wicket door with trip-free threshold and doors with wicket door with door widths > 5500 mm. • In combination with an operator WA 300 or SupraMatic HT an additional photocell (e.g. EL 301 or EL 101) is required.		678019	Per m	256
												Special height through adapted bottom door section, depth 67 mm (on request) (cut straight or chamfered) • Except for doors with door widths > 8000 mm and doors with wicket door with trip-free threshold and doors with wicket door with door widths > 5500 mm. • In combination with an operator WA 300 or SupraMatic HT an additional photocell (e.g. EL 301 or EL 101) is required.		3092431	Per m	318
												Side cut-outs with chamfered bottom section (on request) (chamfered section can swing into the opening)		3060544	Per door	679
Adjustable bottom profile for compensation of unevenness up to 20 mm												Article no.		€		
												Adjustable bottom profile				
												Notices: • Restriction of the clear passage height up to 20 mm possible. • Not possible for the following versions: – Bottom door section as a special height – Closing edge safety device with optosensors – 8k2 safety contact strip – Lowered section for dock levellers – Bottom glazing frame – Doors with wicket doors – Parcel		3101631	Per m	44

Accessories

For all door types

Surcharges

Depth 42 mm												Depth 67 mm		● Possible ○ Not available			
SPU F42	APU F42	APU F42 Thermo	ALR F42	ALR F42 Thermo	ALR F42 Glazing	ALR F42 Vitraplan	ALR F42 Vitraplan AT	SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing						
Door leaf reinforcements														Article no.		€	
(Not suitable for doors with wicket door)																	
●	●	●	●	●	●	●	●	●	●	●	●	●	Set 1 for increased wind load	3101399	Per door	+15 %	
													Set 2 for increased wind load	3101400	on the basic table	+25 %	
													Set 3 for increased wind load	3101401	price	+35 %	
RC 2 – Break-in resistance for doors acc. to DIN TS / 18194														Article no.		€	
													An RC 2 version acc. to DIN / TS 18194 is not possible in combination with the following optional extras:				
													● Glazing frame ● Door hardware with special corrosion protection ● Fascia panels ● Fixed elements ● Bottom door section in a special height (shortened, chamfered, notched) ● Roller holder type S ● Parcel	● Track application NS and NK with angle C ≥ 50° ● Chain drive operators ITO 500 ● SupraMatic HT ● Light grille in the frame ● NET3, ASE ● Key switch			
●													Surcharge for break-in resistance equipment RC 2, depth 42		3097450	Per door	351
								●					Surcharge for break-in resistance equipment RC 2, depth 67		3097451	Per door	449
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	121
												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	165
												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	77
●	●	●	●	●	●	●	●	●	●	●	●	●	Shootbolt in addition to the door lock or with power-driven doors. ²⁾		3098312	Each	56
●	●	●	●	●	●	●	●	●	●	●	●	●	Door lock for interior operation	Rotary latch ^{1) 3)}	3055297	No surcharge	
														Shootbolt ²⁾	3055298	No surcharge	
														Floor locking ^{1) 3)}	3055299	No surcharge	
●	●	○	○	○	○	○	○	○	○	○	○	○	Floor locking (heavy version for floor fitting in the opening area)	Type 3 ^{1) 3)}	3096555	Each	376
														Type 3 Exterior operation ^{1) 3)}	3096556	Each	921
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 / LD with swivel mechanism!																	
Exterior handles (not possible with version RC 2!)														Article no.		€	
●	●	●	●	●	○	○	○	●	●	●	○		Exterior handles (recommended with secured unlocking ASE for operating from outside)		3055424	Per set	73

Accessories

For all door types

Surcharges

Depth 42 mm								Depth 67 mm				Possible Not available				
SPU F42	APU F42	APU F42 Thermo	ALR F42	ALR F42 Thermo	ALR F42 Glazing	ALR F42 Vitraplan	ALR F42 Vitraplan AT	SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing					
Fascia panels (Not possible with version RC 2! Not possible with spacer profile!) (alternative infills for panels, see door types, real glass on request)												Article no.		€		
												Single-skinned, Stucco-textured steel fascia (without insulation), Grey white based on RAL 9002, as fascia panel of 31 – 125 mm, only for track applications N and L. Note: Max. width 8000 mm	3092509	Per m	29	
												Single-skinned, smooth steel fascia (without insulation), Grey white based on RAL 9002, as fascia panel of 31 – 125 mm, only for track applications N and L. Note: Max. width 8000 mm	3092508	Per m	39	
												Smooth aluminium panel (without insulation), E6 / C0 as fascia panel of 31 – 190 mm, only for track applications N and L. Note: Max. width 7000 mm	3092510	Per m	91	
												Aluminium fascia panel (depth 42 mm) in standard version (standard profile), E6 / C0, with clear synthetic double panes, 26 mm (S2) Note: Max. width 8000 mm – Rail width 52 mm	3091109	Per m²	343	
												Aluminium fascia panel (depth 42 mm) in version with thermal break (Thermo), E6 / C0, with clear synthetic double panes, 26 mm (S2) Note: Max. width 7000 mm – Rail width 52 mm	3091110	Per m²	456	
												PU-foamed Stucco-textured fascia panel (depth 42 mm), Grey white interior and exterior based on RAL 9002 As fascia panel from 100 mm Note: Max. width 8000 mm	Height ≤ 250 mm	3091538	Per m²	305
													Height > 250 mm	3091539	Per m²	195
												PU-foamed Micrograin fascia panel (depth 42 mm), Grey white interior and exterior based on RAL 9002 As fascia panel from 100 mm Note: Max. width 8000 mm	Height ≤ 250 mm	3091540	Per m²	305
													Height > 250 mm	3091541	Per m²	195
												Aluminium fascia panel (depth 42 mm) in standard version (standard profile), matching Vitraplan, with clear synthetic double panes, 26 mm and 4 mm transparent synthetic glazing fitted in front, in a shade of grey	3091111	Per m²	616	
												Aluminium frame panel (depth 42 mm) in standard version (standard profile), matching Vitraplan AT, PU infill with aluminium sheet cover, both sides Stucco-textured, (FU) and ALCUBOND® or TRESPA® facade panels fitted in front (Surcharges for facade panels, see door on page 40)	3101818	Per m²	961	
												Aluminium fascia panel (depth 67 mm) in version with thermal break (Thermo), E6 / C0, with clear synthetic triple panes, 51 mm (S3) – Rail width 52 mm	3092432	Per m²	643	
												Fascia panel with thermal break, Stucco-textured (depth 67 mm), PU-foamed, Grey white interior and exterior based on RAL 9002 As fascia panel from 125 mm	Height ≤ 250 mm	3092433	Per m²	381
													Height > 250 mm	3092434	Per m²	242
												Fascia panel with thermal break, Micrograin (depth 67 mm), PU-foamed, Grey white interior and exterior based on RAL 9002 As fascia panel from 125 mm	Height ≤ 250 mm	3092435	Per m²	381
													Height > 250 mm	3092436	Per m²	242
Notice:																
Fixing possibilities for fascia panels, fixed elements and track suspensions must be checked and determined on-site. Please refer to the technical manual for further information on versions and minimum heights.																

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	ALR F42 Vitraplan AT	SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing					
												Possible Not available				
												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	52
												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	74
													ThermoFrame lintel seal black with 2 lip seals	3090300	Per m door width	29
												Set to increase air tightness - Only in conjunction with ThermoFrame. - Not possible in combination with glazing frames, ventilation grilles, singled-skinned panels and aluminium fascia frames as well as as doors with wicket door.	Article no.	€		
													Set for increasing the air tightness, S-ribbed	3100269	Per m door height	27
													L-ribbed set to increase air tightness	3100271	Per m door height	7,20
												Spacer profile As a subframe to prevent contact between the section and 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	99
													Black lintel counterseal, with flat support rail	3098427	Per m door width	49
												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	707
													Laterally displaced torsion spring (side space requirement 2500 mm)	678829	Per side	438
													Surcharge for extending the torsion spring shaft (e.g. for fitting the operator in the neighbouring room)	3060525	Per door	215
													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	124

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	ALR F42 Vitraplan AT	SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing						
Possible Not available																	
Fixed elements (depth 42 mm) (Not possible with version RC 2!) Alternative infills for fixed elements, see door types Glazing frame for SPU element, see door type												Article no.			€		
												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	305	
													Width > 500 mm	3092738	Per m²	195	
												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	305	
													Width > 500 mm	3092740	Per m²	195	
												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	343	
												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	484	
												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	616	
												Aluminium frame panel in standard version (standard profile), with PU infill with aluminium sheet cover, both sides Stucco-textured, (FU) and ALCUBOND® or TRESPA® facade panels fitted in front (Surcharges for facade panels, see door on page 40)		3101821	Per m²	961	
												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	456	
Fixed elements (depth 67 mm) (Not possible with version RC 2!) Alternative infills for fixed elements, see door types Glazing frame for SPU element, see door type												Article no.			€		
												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	3092741	Per m²	381	
													Width > 500 mm	3092437	Per m²	242	
												Double-skinned steel sections, PU-foamed, exterior Micrograin, interior Stucco-textured, 375 mm, 500 mm, 675 mm or 750 mm high, Grey white interior and exterior based on RAL 9002	Width ≤ 500 mm	3092742	Per m²	381	
													Width > 500 mm	3092438	Per m²	242	
												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	643	
												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	1042	
Notice: 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 94)! Fixing possibilities for fixed elements must be checked and determined on-site.																	

Accessories

For all door types

Surcharges

Depth 42 mm												Depth 67 mm		Possible Not available
SPU F42	APU F42	APU F42 Thermo	ALR F42	ALR F42 Thermo	ALR F42 Glazing	ALR F42 Vitraplan	ALR F42 Vitraplan AT	SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing			
Fixed elements – combination of PU-foamed double-skinned steel sections (Stucco-textured) and glazing frames (Not possible with version RC 2!) (alternative infills for fixed elements, see door types) Article no. Note on pricing: Prices for steel section, see SPU fixed element on page 90 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	
Fixed elements – combination of PU-foamed double-skinned steel sections (Micrograin) and glazing frames (Not possible with version RC 2!) (alternative infills for fixed elements, see door types) Article no. Note on pricing: Prices for steel section, see SPU fixed element on page 90 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	
Notice: 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 94)! Fixing possibilities for fixed elements must be checked and determined on-site.														

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	ALR F42 Vitraplan AT	SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing					
Possible Not available																
Manual door operation (For depth 67, please observe the information on the trap guard on page 9.)												Article no.		€		
												Hand pulley with rope, up to a door surface of 20 m²				
												Notice: 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	94
												– For track applications V and VU: Absolutely necessary with manually operated doors!		3092519	Each	94
												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	128
												– For track applications V and VU		3092517	Each	128
												Chain hoist, range 1 (see technical manual), except for track application VA		3055281	Each	213
												Chain hoist, range 2 (see technical manual), except for track application VA		3055282	Each	213
												Chain hoist, range 3 (see technical manual) except for track applications V, VS		3055283	Each	240
												Chain tensioner for chain hoist link steel chain		3092520	Each	139
												Pull rod for manual operation		3093921	Each	63
												In combination with operator WA 300, WA 500 or WA 500 FU a secured release is required! Included in the scope of delivery for operator WA 500 / 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.				
Emergency operation for operator doors												Article no.		€		
												Bar for emergency operation for operator doors		3065810	Each	165
												Notices: In combination with operator WA 300, WA 500 or WA 500 FU a secured release is required! 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 with trip-free threshold next to the wicket door: door height – 1000 mm. Not with wicket door with threshold rail! Not for track applications L and LD with swivel mechanism! Fitting must be carried out opposite the operator side.				
												Hand pulley for emergency operation for operator doors		3101630	Each	236
												Notices: In combination with operator WA 300, WA 500 or WA 500 FU a secured release is required! Not possible with direct drive operator! Not with WA 300 fitting example 9. Not with WA 500 / WA 500 FU fitting example 5. Not with WA 500 / WA 500 FU flange with track with C-profile. Not in combination with HLG-V. Not for track applications HP and VP.				
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	28
												Track suspension set 1092 mm		3097017	Per door	45
												Track suspension set 1456 mm		3097018	Per door	94
												Track suspension set 1820 mm		3097019	Per door	153
												Track suspension set 2184 mm		3097020	Per door	272
												Track suspension set 2444 mm		3097021	Per door	310

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	ALR F42 Vitraplan AT	SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing					
												Possible Not available				
												Diagonal strut set Replaces the track suspension Only possible for track application HU and H Only possible for doors with door width ≤3000 mm and door height ≤3250 mm. Distance of door to wall 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	97
													Set 1 connection door / wall with diagonal strut	3100112	Per door	34
													Set 2 connection door / door with diagonal strut	3100113	Per door	16,50
												Suspension for spring shaft in special length for track application L and LD Article no. €				
													Spring shaft suspension set track application L and LD in special length (500 – 1040 mm)	3074443	Per door	246
												Horizontal tracks Article no. €				
													Extension of the horizontal tracks (on request)	3060547	Per door	438
													Horizontal track with C-rail for reduced number of suspensions	3098428	Per door	265
												Notice Article not possible: 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				
												Gusset plate for suspension Article no. €				
													Gusset plate set for suspension	3100845	Per set	16,80
												Notice: Not possible for track applications V, VA, VS, VP, VU and WS! Not possible with diagonal strut set! If this set is used, it is not necessary to mount the track suspension 90° to the horizontal track.				
												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	4658

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	ALR F42 Vitraplan AT	SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing							
														● Possible		○ Not available		
Box sections / angles														Article no.		€		
●	●	●	●	●	●	●	●	●	●	●	●	●	Box section 40 / 60 / 2	Galvanized	Cut to length	3092523	Per m	33
															Uncut, 6980 mm long	3092524	Each	114
●	●	●	●	●	●	●	●	●	●	●	●	●	Box section 60 / 60 / 2	Galvanized	Cut to length	3046489	Per m	48
															Uncut, 8000 mm long	3093767	Each	218
●	●	●	●	●	●	●	●	●	●	●	●	●	Box section 120 / 60 / 2	Galvanized	Cut to length	3092526	Per m	51
															Uncut, 6980 mm long	3092527	Each	240
●	●	●	●	●	●	●	●	●	●	●	●	●	Box section 160 / 60 / 2	Galvanized	Cut to length	3092528	Per m	70
															Uncut, 6980 mm long	3092529	Each	335
●	●	●	●	●	●	●	●	●	●	●	●	●	Box section 200 / 60 / 2.5	Galvanized	Cut to length	3092530	Per m	83
															Uncut, 6980 mm long	3092531	Each	409
●	●	●	●	●	●	●	●	●	●	●	●	●	Angle 82.5 × 35.0 × 3.75	Galvanized	Cut to length	3046492	Per m	33
															Uncut, 5500 mm long	3096049	Each	98
●	●	●	●	●	●	●	●	●	●	●	●	●	Angle 55.0 × 29.0 × 3.75	Galvanized	Cut to length	3046493	Per m	28
															Uncut, 5500 mm long	3096050	Each	75
●	●	●	●	●	●	●	●	●	●	●	●	●	Angle 60.0 × 40.0 × 4.00	Aluminium	Cut to length	3062174	Per m	36
															Uncut, 6000 mm long	3092532	Each	137
●	●	●	●	●	●	●	●	●	●	●	●	●	Angle 30.0 × 30.0 × 3.00	Aluminium	Cut to length	3094559	Per m	33
															Uncut, 6000 mm long	3096051	Each	121
●	●	●	●	●	●	●	●	●	●	●	●	●	Frame bracket set (10 anchors left / 10 anchors right)			3092533	Per set	35
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	25	
													– Screw-on bracket, 170 mm		3092535	Each	29	
●	●	●	●	●	●	●	●	●	●	●	●	●	Support bracket for a 120 mm box section		3096188	Each	14,80	
●	●	●	●	●	●	●	●	●	●	●	●	●	Support bracket for a 160 mm box section		3096189	Each	16,40	
●	●	●	●	●	●	●	●	●	●	●	●	●	Support bracket for a 200 mm box section		3096190	Each	16,40	
Bolt 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	13,70	
●	●	●	●	●	●	●	●	●	●	●	●	●	10 drilling screws B 8 × 30 and self-tapping screws A 6.5 × 16		3094570	Per set	13,70	
●	●	●	●	●	●	●	●	●	●	●	●	●	10 self-tapping screws B 8 × 22 and self-tapping screws A 6.5 × 16		3094571	Per set	13,70	
●	●	●	●	●	●	●	●	●	●	●	●	●	20 self-tapping screws A 6.5 × 16		3094572	Per set	13,70	
Door hardware with special corrosion protection (Not possible with version RC 2!)														Article no.		€		
														Up to door widths of 4500 mm		Per m door height	299	
●	●	●	●	●	●	○	○	●	●	●	●	●	Door hardware consisting of a combination of stainless steel hinges, roller holders, roller brackets and track rollers with stainless steel axle	Door width 4510 – 6000 mm	3094560	Per m door height	382	
												Door width 6010 – 8000 mm		Per m door height		683		
○	○	○	○	○	○	○	○	●	●	●	○	From door widths of 8010 mm		Per m door height		731		
Set to cover the anti-lift kit														Article no.		€		
Objects with manually operated doors without a separate entrance can only be opened from the outside with covered frame recesses / anti-lift kit in case of spring breaks.																		
●	●	●	●	●	●	●	●	●	●	●	●	●	Set to cover the anti-lift kit		3100110	Per door	28	

Accessories

For all door types

Surcharges

Depth 42 mm								Depth 67 mm				Possible Not available				
SPU F42	APU F42	APU F42 Thermo	ALR F42	ALR F42 Thermo	ALR F42 Glazing	ALR F42 Vitraplan	ALR F42 Vitraplan AT	SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing					
Other accessories												Article no.		€		
												Bi-directional magnet switch to query a variable door position, e.g. for electric locking with air lock doors or loading ramps	3096824	Each	155	
												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	141	
												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 Notices: - Not possible for doors with door leaf reinforcements, 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. - Not possible with hand pulley.	3093049	Per door	74	
												Plastic frame shoe set Notice: Not with chamfered bottom section!	3097023	Per set	No surcharge	
												Track limit set	3098252	Per set	No surcharge	
												Quiet door travel set	Galvanized	3097022	Each	22
												Required number = number of door sections × 2	Stainless steel ¹⁾	3097099	Each	12,90
												Notices: - 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	3098424	Per door	272
													Stainless steel ¹⁾	3098425	Per door	466
												Notices: - For use with track application LD up to 10° inclination. - Not required with ITO / SupraMatic HT operators. - Only for 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 doors up to door height 5000 mm	3098251	Per door	413	
												Crash protection for slide carriages Fitting on the bottom door section. Height according to customer specification (on request).	3060557	Per door	69	
Packaging												Article no.		€		
												OSB palletising (corresponds to IPPC standard ISPM No. 15)	3074839	Per door	220	
												Transport packaging with chipboard	3092548	Per m door leaf pallet	70	
												Transport packaging with hollow chamber plate	3092547	Per door leaf pallet	101	
												Crate packaging	3051889	On request		
Flush-fitting facade door												Article no.		€		
												Box section 40 × 29, aluminium E6 / C35, as base construction for fastening facade elements for flush-fitting facade doors according to planning aid Z 3063042 Ready-for-fitting incl. bolts and front side plugs	3091562	Each	28	
Doors for use in potentially explosive atmospheres												Article no.		€		
												Atex version (on request)	3072489	Per door	3657	

Surcharges

Industrial price list (EN) 05-23 **HÖRMANN**

Notes and sketches

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 ¹⁰⁾ Incl. push button DTH-R (Open-Stop-Close)	635367	768
		For flanging with chain transmission ¹¹⁾ Without push button DTH-R (Open-Stop-Close) Notice: Article must be selected if the WA 300 R S4 should be combined with a loading technology control 420 Si/Ti or a AC72. The combination control 420 Si or 420 Ti must be ordered separately via the loading technology industrial price list	639772	720

Notices:	- 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 crashing as a manually operated door.
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Surcharges for emergency operation			Article no.	€
Secured release for interior operation	2)	Surcharge	637729	52
Lockable housing for the release (ASE), incl. Bowden cable (only in combination with secured release, article no. 637729)	4)	Surcharge	637733	169

Control elements			Article no.	€
Push button DTH-RM, Open-Stop-Close and miniature lock, omission of DTH-R	7)	Surcharge	637721	27
Push button DTH-I, Impulse-Stop-1/2/Open incl. UAP1-300, omission of DTH-R	7)	Surcharge	637722	92
Push button DTH-IM, Impulse-Stop-1/2/Open and miniature lock, incl. UAP1-300, omission of DTH-R	7)	Surcharge	637723	117
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	52
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	114
Separate main switch, incl. connecting lead to the control, omission of mains lead with 230 V CEE plug	8)	Surcharge	637724	125
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	140
Closing edge safety device with VL 1-LE-300, complete				
Notice: Not possible in combination with track applications L/LD with swivel mechanism. A VL 2-LE must be selected for these applications.		Surcharge	637726	140
Closing edge safety device with VL 2-LE-300, complete; compulsory for doors with wicket door with trip-free threshold (wicket door contact, article no. 637110, required)		Surcharge	637727	284
Radio activating kit extension set (omission of coiled cable) Notice: Only available in combination with 637725, 637726, 637727 or 637744.		Surcharge	636838	254
Wicket door contact				
Notice: - For wicket doors with trip-free threshold: 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	84
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	609
Limit switch for night lock (in conjunction with a closing edge safety device or AT 3-300)			637016	54

Closing edge safety devices / radio activating kit	Article no.	€
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	151

Photocells / light grilles	Article no.	€
Weather protective covers for photocells see page 137.		
One-way photocell EL 301 for floor fitting (for use in interiors and exteriors)	436313	118
One-way photocell EL 51 for floor fitting (for use in interiors and exteriors)	637023	167
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 use in extremely wet areas, IP 67, powerful jet-water protected) Additional housing (article no. 637758) required!	637222	568
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 interior use in dry rooms)	436717	195
Light grille HLG 550 for 67 series doors as trap guard Observe the information regarding the trap guard on page 9 of this price list!	636941	721

*** Notice:**

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 140
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Air inlet control	Article no.	€
Air inlet control AC72		
In industrial full housing with miniature lock, omission of DTH-R	9) Surcharge	4550801 1171
Air inlet control AC72 with PHC		
In full industrial housing with profile half cylinder, DTH-R omitted	9) Surcharge	4551228 1242
Notice on air inlet control AC72 and AC72 with PHZ:		
• Cannot be combined with control 360. • In combination with a dock leveller control 560 S/T/V or without dock leveller, the WA 300 S4 (article no. 635367) requires the push button control 300 U (Art. no. 636293) at a surcharge. • In combination with the dock leveller control 420 Si/Ti, the WA 300 S4 is required without DTH-R (article no. 639772). • The dock leveller controls must be ordered separately along with the dock leveller.		
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
Locking element ETV 1 for automatic locking of the door in the closed end position	4553929	295
Notice:		
For automatic locking in end-of-travel position Door Closed, limit switch reporting Door Closed is required. Automatic unlocking via operator WA 300 S4 with integrated control is not possible.		
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	635377	51
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 124 – 138
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- | | |
|---|--|
| <ol style="list-style-type: none"> 1) Not in conjunction with one-way photocells 2) We recommend the emergency operation stated on page 92 3) Not in conjunction with leading photocells VL 1-LE / VL 2-LE 4) Exterior handle recommended 5) For two 2-wire photocells, a photocell expander is required (see additional accessories article no. 436380 or 639562) | <ol style="list-style-type: none"> 6) For two photocells with system cable, the photocell expander LSE1 is required (see additional accessories article no. 436396) 7) Articles 637730, 637721, 637722, 637723, 636293, 636294 cannot be combined 8) Articles 637724, 636293 and 636294 cannot be combined 9) Articles 637730, 637721, 637722, 637723 cannot be combined 10) Cannot be combined with articles 4550801 and 4551228. 11) Cannot be combined with articles 637721, 637722, 637723, 636293, 636294, 637724, 635486, 637713, 637714, 637715 and 637716. |
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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 × H): 195 × 310 mm	- Opening with impulse - Closing with impulse - Any second opening height ½ / Open - Automatic timer (only in conjunction with activating kit for warning lights and photocell / light grille) - Prepared for traffic control (only in conjunction with activating kit for warning light and photocell / light grille or VL 1-LE / VL 2-LE) - Soft start and soft stop

Notices:	- 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 crashing as a manually operated door.
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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	1026

Surcharges for emergency operation			Article no.	€
Secured release for interior operation	2)	Surcharge	637729	52
Lockable housing for the release (ASE), incl. Bowden cable (only in combination with secured release, article no. 637729)	5)	Surcharge	637733	169

Control elements		Article no.	€
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug	Surcharge	637105	72
Lockable control with profile half cylinder	Surcharge	637100	72
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	140
Closing edge safety device with VL 1-LE-300, complete			
Notice: Not possible in combination with track applications L / LD with swivel mechanism. A VL 2-LE must be selected for these applications.	4)	Surcharge	140
Closing edge safety device with VL 2-LE-300, complete; compulsory for doors with wicket door with trip-free threshold (wicket door contact, article no. 637110, required)	4)	Surcharge	284
Extension set for Hörmann light grille HLG as safety equipment for the main closing edge in the door surface (integrated into the door frame) Notice: Not in conjunction with RC 2!	3) 6) 7) 8) 9)	Surcharge	699
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 with trip-free threshold	7) 8) 9)	Surcharge	1898
Radio activating kit extension set (omission of coiled cable)			
Notice: Only available in combination with 637725, 637726, 637727, 636938, 637744 or 637201.	Surcharge	636838	254
Wicket door contact			
Notice: • For wicket doors with trip-free threshold: 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	84
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	609
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	151

Photocells / light grilles		Article no.	€
Weather protective covers for photocells see page 137.			
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, 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 9 of this price list!	Surcharge	636941	721

*** Notice:**

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 140
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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 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
Locking element ETV 1 for automatic locking of the door in the closed end position	Surcharge	4553929	295
Notice: - For automatic locking in end-of-travel position Door Closed, limit switch reporting Door Closed is required. - A start warning (multi-function circuit board required) must be set for automatic unlocking. An automatic timer cannot be programmed if a start warning is set.			
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 with quick-acting closure)		636094	70
Double housing for control for extremely wet areas, IP 66 (powerful jet-water protected)		637035	450

8k2 safety contact strip (Not possible in doors with wicket door with trip-free threshold!)		Article no.	€
Safety contact end unit 8k2, protection category IP 67 (LZ + 40 mm)	3) 4)	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
Notice: Required for safety contact strip 8K2.			

Additional accessories	See pages 124 – 138
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- | | |
|---|---|
| 1) Not in conjunction with one-way photocells
2) We recommend the emergency operation stated on page 92
3) Not in conjunction with leading photocells VL 1-LE / VL 2-LE
4) Not in conjunction with light grille
5) Exterior handle recommended
6) Not suitable for doors with wicket door with trip-free threshold | 7) Not suitable for wash hall doors
8) Not in conjunction with VL 1-LE / VL 2-LE
9) Not for sectional doors:
– With RM < 3125 mm (track application N and L)
– With RM ≤ 2500 mm (track application V)
– With RM < 2625 mm (track application H) |
|---|---|

Control 545

Operator

- Ready-to-fit shaft operator with closing edge safety devices and cable slack devices
- Power input:
 - 3-phase current: 0.6 kW
 - 1-phase current: 0.9 kW
- Door cycles / hour at +60°C (+40°C):
 - 3-phase current:
 - 12 (17) at 16 and 19 rpm
 - 15 (20) at 24 and 30 rpm
 - 3-phase current:
 - 5 (10) at 16 and 19 rpm
 - 12 (17) at 24 and 30 rpm
- Protection category IP 65 (jet-water protected)

- Electronic absolute encoder (AWG) for determining the door position
- Standby approx. 1 W
- Control**
 - 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 x H): 195 x 310 mm

Function

- Soft open with impulse
- Soft close with impulse
- High-speed when opening
- Automatic timer (only in conjunction with activating kit for warning light and photocell / light grille or VL 1-LE / VL 2-LE)

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

Notices:

- 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 crashing as a manually operated door.

Shaft operator WA 500 / WA 500 M – 400 V 3-phase current

Control	Operator	Fastening options	Article no.	€
Control 545	WA 500	To flange, not for track application L / LD or double spring shaft, with maintenance release	4514482	1080
	WA 500	With chain box, not with double spring shaft, with maintenance release	4514483	1257
	WA 500 M	For centre fitting ¹⁾ , not for track application L / LD or double spring shaft, with secured release	4514485	1490

Surcharge for emergency operation (only for operators to flange or chain box)

	Article no.	€
Emergency hand chain	Surcharge 636935	55
Rigid emergency crank handle (observe space requirement!)	Surcharge 636936	25
Jointed emergency crank handle	Surcharge 636937	37

Optional extras for shaft operator WA 500 with control 545

	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 ²⁾	Surcharge 637025	135
WA 500 For flanging or with chain box	–	
WA 500 M For central mounting, included as standard (emergency hand chain not possible)		
Lockable housing for the release (ASE), incl. Bowden cable ³⁾	Surcharge 637733	169
Notice: Only in conjunction with secured release from the inside (article no. 637025)		
CAT adapter box Required to shorten the network cable (connection cable between operator and control), wiring tool required (item 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 For buffering the time and date of the control if it is not supplied with mains voltage for more than 60 hours.	4514027	21
Widescan (intelligent command unit and to secure the door) Notices: If the door width is wider than the fitting height, then another Widescan is required to secure the door.	635239	1121
Holder for Widescan opening device, galvanized steel, 4 mm	Each 4982364	98
HCP-Hub 4 (required when more than 1 HCP bus participant is needed)	4510206	83
Operator with increased on-time ED ⁺ (+ 5 cycles / hour) – only with 400 V 3-phase units	Surcharge 637030	221
Double housing for closing edge safety device for extremely wet areas, IP 66 (powerful jet-water protected)	Surcharge 637055	609
Double housing for control for extremely wet areas, IP 66 (powerful jet-water protected)	637035	450
Extension housing for industrial door controls (semi-housing with quick-acting closure)	636094	70
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug	Surcharge 637105	72
Mains lead 1 m with CEE plug (400 V) for separate main switch	4514248	54
Mains lead 1 m with CEE plug (230 V) for separate main switch	4514249	50
Lockable control with profile half cylinder	Surcharge 637100	72
Wicket door contact	Surcharge 637110	84
Limit switch for night lock	637016	54
Locking element ETV 1-HCP for automatic locking of the door in the closed end position	Surcharge 4553929	295
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

Optional extras for shaft operator WA 500 with control 545	Article no.	€
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.	€
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Notice:

Control 545 has a photocell connection for photocells with system plug (RL 50/EL 51) and a connection for 2-wire photocells (RL 300/EL 301/EL 401/EL 501). If 2 photocells are required at one input, the connection can be doubled by a photocell expander (see page 137 in other accessories).

Weather protective covers for photocells see page 137.

Extension set for leading photocell VL 1-LE, incl. floor slides				
Notice:				
Not possible in combination with track applications L/LD with swivel mechanism. A VL 2-LE must be selected for these applications.	5) 6) 9)		637108	–
Extension set for leading photocell VL 2-LE, incl. floor slides; mandatory for doors with wicket door with trip-free threshold	5) 9)	Surcharge	637107	178
Extension set for Hörmann light grille HLG as safety equipment for the main closing edge in the door surface (integrated into the door frame)	5) 6) 7) 8) 10) 11)	Surcharge	636938	699
Notice: Not in conjunction with RC 2!				
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 with trip-free threshold	4) 5) 7) 8) 10) 11)	Surcharge	636867	1898
Radio activating kit extension set (omission of coiled cable)		Surcharge	636838	254
Notice:				
Only in combination with the optosensors as standard, 637107, 637108, 636938 or 637201 available.				
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
One-way photocell EL 301 for floor fitting for use in interiors and exteriors	4)		436313	118
One-way photocell EL 401 (factory preparation of the frame for fitting to 600 mm, property protection)	8) 9)		437922	71
// NEW One-way photocell EL 501 (factory preparation of the frame for fitting to 125 mm, personal safety)	8) 9)		4511380	85
Notice: Not in conjunction with RC 2!				
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 holder (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 holder (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 9 of this price list!		Surcharge	636941	721

*** Notice:**

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 140
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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 with 2 yellow LED traffic lights and weekly timer ZSU 2, with extension housing	637531	536

8k2 safety contact strip (Not possible for doors with wicket door with trip-free threshold 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

Shaft operator variant WA 500/ WA 500 M – 230 V 1-phase current 12)	Article no.	€
Control 545		
To flange, not for track application L/LD or double spring shaft, with maintenance release	4514480	Same price as WA 500/ WA 500 M (400 V 3-phase current)
With chain box, not with double spring shaft, with maintenance release	4514481	
Max. door size 4500 × 4500 mm		
For centre fitting, not for track application L/LD or double spring shaft, with secured release	4514484	

Additional accessories	See pages 124 – 138
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- | | | |
|---|--|--|
| 1) Use of WA 500 M only after technical inspection | 7) Not suitable for wash hall doors | 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! |
| 2) We recommend the emergency operation stated on page 92 | 8) Not in conjunction with VL 1-LE/VL 2-LE | |
| 3) Exterior handle recommended | 9) Not in conjunction with light grille | |
| 4) Not in conjunction with one-way photocells | 10) Not for sectional doors: | |
| 5) Not suitable for use without optosensors (article no. 637139) | – With RM < 3125 mm (track application N and L) | |
| 6) Not suitable for doors with wicket door with trip-free threshold | – With RM ≤ 2500 mm (track application V) | |
| | – With RM < 2625 mm (track application H) | |
| | 11) Not in combination with safety contact strip 8k2 | |

Control 560

Operator

- Ready-to-fit shaft operator with closing edge safety devices and cable slack devices
- Power input:
 - 3-phase current: 0.6 kW
 - 1-phase current: 0.9 kW
- Door cycles / hour at + 60 °C (+ 40°C):
 - 3-phase current:
 - 12 (17) at 16 and 19 rpm
 - 15 (20) at 24 and 30 rpm
 - 3-phase current:
 - 5 (10) at 16 and 19 rpm
 - 12 (17) at 24 and 30 rpm
- Protection category IP 65 (jet-water protected)
- Electronic absolute encoder (AWG) for determining the door position
- Standby approx. 1 W

Control

- 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
- 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 × H): 195 × 310 mm

Function

- Opening with impulse
- Closing with impulse
- Any second opening height (½ Open)
- Automatic timer (only in conjunction with photocell / light grille or VL 1-LE / VL 2-LE)
- Prepared for traffic control (only in conjunction with activating kit for warning light and photocell / light grille or VL 1-LE / VL 2-LE)

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

Notices:	• 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 crashing as a manually operated door.

Shaft operator WA 500 / WA 500 M – 400 V 3-phase current				
Control	Operator	Fastening options	Article no.	€
Control 560	WA 500	To flange, not for track application L / LD or double spring shaft, with maintenance release	4514502	1547
	WA 500	With chain box, not with double spring shaft, with maintenance release	4514503	1721
	WA 500 M	For centre fitting ¹⁾ , not for track application L / LD or double spring shaft, with secured release	4514507	1935

Surcharge for emergency operation (only for operators to flange or chain box)			Article no.	€
Emergency hand chain	Surcharge		636935	55
Rigid emergency crank handle (observe space requirement!)	Surcharge		636936	25
Jointed emergency crank handle	Surcharge		636937	37

Optional extras for shaft operator WA 500 with control 560				Article no.	€
Secured release (from inside) ²⁾	WA 500	For flanging or with chain box	Surcharge	637025	135
	WA 500 M	For central mounting, included as standard (emergency hand chain not possible)		–	–
Lockable housing for the release (ASE), incl. Bowden cable Notice: Only in conjunction with secured release from the inside (article no. 637025)			³⁾ Surcharge	637733	169
CAT adapter box Required to shorten the network cable (connection cable between operator and control), wiring tool required (item 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 For buffering the time and date of the control if it is not supplied with mains voltage for more than 60 hours.				4514027	21
Widescan (intelligent command unit and to secure the door) Notices: If the door width is wider than the fitting height, then another Widescan is required to secure the door.				635239	1121
Holder for Widescan opening device, galvanized steel, 4 mm			Each	4982364	98
HCP-Hub 4 (required when more than 1 HCP bus participant is needed)				4510206	83
Operator with increased on-time ED+ (+ 5 cycles / hour) – only with 400 V 3-phase units			Surcharge	637030	221
Double housing for closing edge safety device for extremely wet areas, IP 66 (powerful jet-water protected)			Surcharge	637055	609
Double housing for control for extremely wet areas, IP 66 (powerful jet-water protected)				637035	450
Extension housing for industrial door controls (semi-housing with quick-acting closure)				636094	70
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug			Surcharge	637105	72
Mains lead 1 m with CEE plug (400 V) for separate main switch				4514248	54
Mains lead 1 m with CEE plug (230 V) for separate main switch				4514249	50
Lockable control with profile half cylinder			Surcharge	637100	72
Wicket door contact			Surcharge	637110	84
Limit switch for night lock				637016	54
Locking element ETV 1-HCP for automatic locking of the door in the closed end position			Surcharge	4553929	295
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

Optional extras for shaft operator WA 500 with control 560		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 / 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 137.			
Extension set for leading photocell VL 1-LE, incl. floor slides Notice: Not possible in combination with track applications L / LD with swivel mechanism. A VL 2-LE must be selected for these applications.		637108	–
Extension set for leading photocell VL 2-LE, incl. floor slides; mandatory for doors with wicket door with trip-free threshold	8) Surcharge	637107	178
Extension set for Hörmann light grille HLG as safety equipment for the main closing edge in the door surface (integrated into the door frame) Notice: Not in conjunction with RC 2!	5) 6) 7) 9) Surcharge	636938	699
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 with trip-free threshold	4) 6) 7) 9) Surcharge	636867	1898
Radio activating kit extension set (omission of coiled cable) Notice: Only in combination with the optosensors as standard, 637107, 637108, 636938 or 637201 available.	Surcharge	636838	254
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
One-way photocell EL 301 for floor fitting (for use in interiors and exteriors)	4)	436313	118
One-way photocell EL 401 (factory preparation of the frame for fitting to 600 mm, property protection)	7) 8)	437922	71
// NEW One-way photocell EL 501 (factory preparation of the frame for fitting to 125 mm, personal safety) Notice: Not in conjunction with RC 2!	7) 8)	4511380	85
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 holder (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 holder (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 9 of this price list!	Surcharge	636941	721
* Notice: 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 140

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	2-arm red / green (230 V / 50 Hz)	637731	475
	1-arm red / green (24 V DC)	638955	475

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

8k2 safety contact strip (Not possible for doors with wicket door with trip-free threshold 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

Shaft operator variant WA 500 / WA 500 M – 230 V 1-phase current ¹⁰⁾		Article no.	€
Control 560 Max. door size 4500 × 4500 mm	To flange, not for track application L / LD or double spring shaft, with maintenance release	4514500	Same price as WA 500 / WA 500 M (400 V 3-phase current)
	With chain box, not with double spring shaft, with maintenance release	4514501	
	For centre fitting, not for track application L / LD or double spring shaft, with secured release	4514506	

Additional accessories See pages 124 – 138

- | | | |
|---|---|--|
| 1) Use of WA 500 M only after technical inspection | 7) Not in conjunction with VL 1-LE / VL 2-LE | 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! |
| 2) We recommend the emergency operation stated on page 92 | 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 N and L) | |
| 5) Not suitable for doors with wicket door with trip-free threshold | – With RM ≤ 2500 mm (track application V) | |
| 6) Not suitable for wash hall doors | – With RM < 2625 mm (track application H) | |

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 - Door cycles / hour at +60°C (+40°C): 25 (30) - 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 x H): 195 x 310 mm	- Soft open with impulse - Soft close with impulse - High-speed when opening - Automatic timer (only in conjunction with activating kit for warning light and photocell / light grille or VL 1-LE / VL 2-LE)

Notices:	- 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 crashing as a manually operated door.
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Shaft operator WA 500 FU / WA 500 M-FU				
Control	Operator	Fastening options	Article no.	€
Control 545 230 V 1-phase current (with closing edge safety device, 25 door cycles / hour)	WA 500 FU	To flange, not for track application L / LD, with maintenance release	4514486	1789
	WA 500 FU	With chain box, with maintenance release	4514487	2046
	WA 500 M-FU	For centre mounting ¹⁾ , not for track applications L / LD, with secured release	4514488	2178

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	55
Rigid emergency crank handle (observe space requirement!)	Surcharge	636936	25
Jointed emergency crank handle	Surcharge	636937	37

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
	WA 500 M-FU For central mounting, included as standard (emergency hand chain not possible)	–	–
Lockable housing for the release (ASE), incl. Bowden cable	³⁾ Surcharge	637733	169
Notice: Only in conjunction with secured release from the inside (article no. 637025)			
CAT adapter box		4514011	27
Required to shorten the network cable (connection cable between operator and control), wiring tool required (item no. 4514028)			
Wiring tool for CAT adapter box (can be reused several times)		4514028	118
Battery unit for control 545 / 560, incl. batteries		4514027	21
For buffering the time and date of the control if it is not supplied with mains voltage for more than 60 hours.			
Widescan (intelligent command unit and to secure the door)		635239	1121
Notices:			
If the door width is wider than the fitting height, then another Widescan is required to secure the door.			
Holder for Widescan opening device, galvanized steel, 4 mm	Each	4982364	98
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	221
Double housing for closing edge safety device for extremely wet areas, IP 66 (powerful jet-water protected)	Surcharge	637055	609
Double housing for control for extremely wet areas, IP 66 (powerful jet-water protected)		637035	450
Extension housing for industrial door controls (semi-housing with quick-acting closure)		636094	70
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	72
Mains lead 1 m with CEE plug (230 V) for separate main switch		4514249	50
Lockable control with profile half cylinder	Surcharge	637100	72
Wicket door contact	Surcharge	637110	84
Limit switch for night lock		637016	54
Locking element ETV 1-HCP for automatic locking of the door in the closed end position	Surcharge	4553929	295
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 conjunction with a 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.	€
Notice: Control 545 has a photocell connection for photocells with system plug (RL 50 / EL 51) and a connection for 2-wire photocells (RL 300 / EL 301 / EL 401 / EL 501). If 2 photocells are required at one input, the connection can be doubled by a photocell expander (see page 137 in other accessories). Weather protective covers for photocells see page 137. Extension set for leading photocell VL 1-LE, incl. floor slides				
Notice: Not possible in combination with track applications L / LD with swivel mechanism. A VL 2-LE must be selected for these applications.			637108	–
Extension set for leading photocell VL 2-LE, incl. floor slides; mandatory for doors with wicket door with trip-free threshold			637107	178
Extension set for Hörmann light grille HLG as safety equipment for the main closing edge in the door surface (integrated into the door frame)			636938	699
Notice: Not in conjunction with RC 2!				
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 with trip-free threshold			636867	1898
Radio activating kit extension set (omission of coiled cable)			636838	254
Notice: Only in combination with the optosensors as standard, 637107, 637108, 636938 or 637201 available.				
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			436313	118
Application areas: indoor and outdoor applications				
One-way photocell EL 401			437922	71
(factory preparation of the frame for fitting to 600 mm, property protection)				
// NEW One-way photocell EL 501			4511380	85
(factory preparation of the frame for fitting to 125 mm, personal safety)				
Notice: Not in conjunction with RC 2!				
Reflection photocell * RL 50 for door widths 500 – 8000 mm, for fitting to top of industrial frames, sturdy bracket			635344	195
(for use in dry interiors)				
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			436717	195
(for use in dry interiors)				
Light grille HLG 550 for 67 series doors as trap guard			636941	721
Observe the information regarding the trap guard on page 9 of this price list!				

*** Notice:**

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 140
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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 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 door with trip-free threshold!)	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 124 – 138
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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 92 | 9) Not for sectional doors: |
| 3) Exterior handle recommended | – With RM < 3125 mm (track application N and L) |
| 4) Not in conjunction with one-way photocells | – With RM ≤ 2500 mm (track application V) |
| 5) Not suitable for doors with wicket door with trip-free threshold | – 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 | |

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	Control	Function
- Ready-to-fit shaft operator with frequency converter - Power input: 1-phase current: 0.72 kW - Door cycles / hour at +60°C (+40°C): 25 (30) - 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	- 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

Notices:	- 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 crashing as a manually operated door.
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Shaft operator WA 500 FU / WA 500 M-FU				
Control	Operator	Fastening options	Article no.	€
Control 560 230 V 1-phase current (with closing edge safety device, 25 door cycles / hour)	WA 500 FU	To flange, not for track application L / LD, with maintenance release	4514504	2200
	WA 500 FU	With chain box, with maintenance release	4514505	2458
	WA 500 M-FU	For central mounting ¹⁾ , not for track application L / LD, with secured release	4514508	2590

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.
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Surcharge for emergency operation (only for operators to flange or chain box)		Article no.	€
Emergency hand chain	Surcharge	636935	55
Rigid emergency crank handle (observe space requirement!)	Surcharge	636936	25
Jointed emergency crank handle	Surcharge	636937	37

Door travel speed up to 1 m/s	Article no.	€
Optional door travel speed up to 1 m/s Only possible in combination with article no. 4514505, WA 500 FU with chain box.	4514083	–
Notice: - With the door size range 1, the speed is max. 0.7 m/s (1 m/s only after technical inspection). - Cannot be selected with door size range 3. Here, a speed of 1 m/s is reached 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 WA 500 M-FU For central mounting, included as standard (emergency hand chain not possible)	Surcharge 637025	135
Lockable housing for the release (ASE), incl. Bowden cable	³⁾	Surcharge 637733	169
Notice: Only in conjunction with secured release from the inside (article no. 637025)			
CAT adapter box Required to shorten the network cable (connection cable between operator and control), wiring tool required (item 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 For buffering the time and date of the control if it is not supplied with mains voltage for more than 60 hours.		4514027	21
Widescan (intelligent command unit and to secure the door)		635239	1121
Notice:			
• If the door width is wider than the fitting height, then another Widescan is required to secure the door.			
Holder for Widescan opening device, galvanized steel, 4 mm	Each	4982364	98
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	221
Double housing for closing edge safety device for extremely wet areas, IP 66 (powerful jet-water protected)	Surcharge	637055	609
Double housing for control for extremely wet areas, IP 66 (powerful jet-water protected)		637035	450
Extension housing for industrial door controls (semi-housing with quick-acting closure)		636094	70
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	72
Mains lead 1 m with CEE plug (230 V) for separate main switch		4514249	50
Lockable control with profile half cylinder	Surcharge	637100	72

Optional extras for shaft operator WA 500 FU with control 560		Article no.	€
Wicket door contact	Surcharge	637110	84
Limit switch for night lock		637016	54
Locking element ETV 1-HCP for automatic locking of the door in the closed end position	Surcharge	4553929	295
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		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 137.			
Extension set for leading photocell VL 1-LE, incl. floor slides Notice: Not possible in combination with track applications L / LD with swivel mechanism. A VL 2-LE must be selected for these applications.	5) 8)	637108	–
Extension set for leading photocell VL 2-LE, incl. floor slides; mandatory for doors with wicket door with trip-free threshold	8) Surcharge	637107	178
Extension set for Hörmann light grille HLG as safety equipment for the main closing edge in the door surface (integrated into the door frame) Notice: Not in conjunction with RC 2!	5) 6) 7) 9) Surcharge	636938	699
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 with trip-free threshold	4) 6) 7) 9) Surcharge	636867	1898
Radio activating kit extension set (omission of coiled cable) Notice: Only available in combination with optosensors as standard; 637107, 637108, 636938 or 637201 can be selected.	Surcharge	636838	254
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
One-way photocell EL 301 for floor fitting (Application areas: indoor and outdoor applications)	4)	436313	118
One-way photocell EL 401 (factory preparation of the frame for fitting to 600 mm, property protection)	7) 8)	437922	71
// NEW One-way photocell EL 501 (factory preparation of the frame for fitting to 125 mm, personal safety) Notice: Not in conjunction with RC 2!	7) 8)	4511380	85
Reflection photocell * RL 50, for door widths from 500 – 8000 mm, for fitting to top of industrial frames, sturdy holder (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 9 of this price list!	Surcharge	636941	721

*** Notice:**

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 140

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	2-arm red / green (230 V / 50 Hz)	637731	475
	1-arm red / green (24 V DC)	638955	475

Additional optional extra (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 with trip-free threshold!)		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

Additional accessories See pages 124 – 138

- | | | |
|---|---|---|
| 1) Use of WA 500 M only after technical inspection | 5) Not suitable for doors with wicket door with trip-free threshold | - With RM < 3125 mm (track application N and L) |
| 2) We recommend the emergency operation stated on page 92 | 6) Not suitable for wash hall doors | - With RM ≤ 2500 mm (track application V) |
| 3) Exterior handle recommended | 7) Not in conjunction with VL 1-LE / VL 2-LE | - With RM < 2625 mm (track application H) |
| 4) Not in conjunction with one-way photocells | 8) Not in conjunction with light grille | |
| | 9) Not for sectional doors: | |

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 V 3-phase current	S 75	Direct drive operator, with emergency hand chain, protection category IP 65 Max. 7 door cycles per hour	635228	5267
	S 140	Direct drive operator, with emergency hand chain, protection category IP 65 Max. 5 door cycles per hour	635232	7020

Optional extras for direct drive operators with 445 R control			Article no.	€
Extension housing for industrial door controls (semi-housing with quick-acting closure)			636094	70
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug		Surcharge	637105	72
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	72
Limit switch for night lock			637016	54
Locking element ETV 1 for automatic locking of the door in the closed end position		Surcharge	4553929	295
Notice:				
- For automatic locking in end-of-travel position Door Closed, limit switch reporting Door Closed is required. - A start warning (multi-function circuit board required) must be set for automatic unlocking. An automatic timer cannot be programmed if a start warning is set.				
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	84
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 137.				
Extension set for leading photocell VL 2-LE, incl. floor slides; mandatory for doors with wicket door with trip-free threshold	1)	Surcharge	637107	178
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 holder (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	721
Observe the information regarding the trap guard on page 9 of this price list!				

*** Notice:**
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 140
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Additional accessories

See pages 124 – 138

- 1) Not in conjunction with light grille
- 2) Not suitable for doors with wicket door with trip-free threshold
- 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 (½ 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 V 3-phase current	S 75	Direct drive operator, with emergency hand chain, protection category IP 65 Max. 7 door cycles per hour	635230	5710
	S 140	Direct drive operator, with emergency hand chain, protection category IP 65 Max. 5 door cycles per hour	635234	7464

Optional extras for direct drive operators with control 460 R			Article no.	€
Extension housing for industrial door controls (semi-housing with quick-acting closure)			636094	70
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug		Surcharge	637105	72
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	72
Limit switch for night lock			637016	54
Locking element ETV 1 for automatic locking of the door in the closed end position		Surcharge	4553929	295
Notice:				
- For automatic locking in end-of-travel position Door Closed, limit switch reporting Door Closed is required. - A start warning (multi-function circuit board required) must be set for automatic unlocking. An automatic timer cannot be programmed if a start warning is set.				
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	84
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 137.				
Extension set for leading photocell VL 2-LE, incl. floor slides; mandatory for doors with wicket door with trip-free threshold	1)	Surcharge	637107	178
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 holder (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	721
Observe the information regarding the trap guard on page 9 of this price list!				

*** Notice:**
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 140
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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 light 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
Additional optional extra (photocell / light grille required)		Article no.	€
Summer / winter operation activating kit with function report		637036	404

Additional accessories	See pages 124 – 138
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- 1) Not in conjunction with light grille
- 2) Not suitable for doors with wicket door with trip-free threshold
- 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 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 from 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 light and photocell / light grille or VL 1-LE / VL 2-LE)

Notices:	- 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 crashing as a manually operated door.
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Chain drive operator ITO 500 FU with emergency release from inside					
Control	Track length (permanently defined)		Operator clearance	Normal and low headroom track application	
	Track applications L and LD	Track applications N and ND		Article no.	€
Control 545 230 V 1-phase current (with closing edge safety device, max. 25 door cycles / hour)	Up to 2475 mm door height	Up to 2500 mm door height	3865 mm	4514492	2446
	Up to 3475 mm door height	Up to 3500 mm door height	4865 mm	4514493	2591
	Up to 4475 mm door height	Up to 4500 mm door height	5865 mm	4514494	2737

Surcharges for emergency operation	Article no.	€
Secured release for interior operation	7) Surcharge 637025	135
Lockable housing for the release (ASE), incl. Bowden cable (only in combination with secured release, article no. 637025)	7) Surcharge 637733	169

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	226
Adjustable suspension for side guide (257 – 1516 mm)	636945	73
CAT adapter box Required to shorten the network cable (connection cable between operator and control), wiring tool required (item 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 For buffering the time and date of the control if it is not supplied with mains voltage for more than 60 hours.	4514027	21
Widescan (intelligent command unit and to secure the door)	635239	1121
Notices: If the door width is wider than the fitting height, then another Widescan is required to secure the door.		
Holder for Widescan opening device, galvanized steel, 4 mm	Each 4982364	98
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	221
Double housing for closing edge safety device for extremely wet areas, protection category IP 66 (powerful jet-water protected)	Surcharge 637055	609
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 with quick-acting closure)	636094	70
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug	Surcharge 637105	72
Mains lead 1 m with CEE plug (230 V) for separate main switch	4514249	50
Lockable control with profile half cylinder	Surcharge 637100	72
Wicket door contact	Surcharge 637110	84
Limit switch for night lock	637016	54
Locking element ETV 1-HCP for automatic locking of the door in the closed end position	Surcharge 4553929	295
Multi-function circuit board with 2 relays (programmable)	637026	107

Optional extras for chain drive operator ITO 500 FU with control 545	Article no.	€
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	637243	112

Photocells / light grilles / radio activating kit	Article no.	€
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Notice:

Control 545 has a photocell connection for photocells with system plug (RL 50 / EL 51) and a connection for 2-wire photocells (RL 300 / EL 301 / EL 401 / EL 501).

If 2 photocells are required at one input, the connection can be doubled by a photocell expander (see page 137 in other accessories).

Weather protective covers for photocells see page 137.

Extension set for leading photocell VL 1-LE, incl. floor slides			637108	–
Notice: Not possible in combination with track applications L / LD with swivel mechanism. A VL 2-LE must be selected for these applications.	2) 5)			
Extension set for leading photocell VL 2-LE, incl. floor slides; mandatory for doors with wicket door with trip-free threshold	5)	Surcharge	637107	178
Extension set for Hörmann light grille HLG as safety equipment for the main closing edge in the door surface (integrated into the door frame)	2) 3) 4) 6)	Surcharge	636938	699
Notice: Not in conjunction with RC 2!				
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 with trip-free threshold	1) 3) 4) 5) 6)	Surcharge	636867	1898
Radio activating kit extension set (omission of coiled cable)		Surcharge	636838	254
Notice: Only available in combination with optosensors as standard; 637107, 637108, 636938 or 637201 can be selected.				
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 (Application areas: indoor and outdoor applications)	4)		436313	118
One-way photocell EL 401 (factory preparation of the frame for fitting to 600 mm, property protection)	4) 5)		437922	71
// NEW One-way photocell EL 501 (factory preparation of the frame for fitting to 125 mm, personal safety)	4) 5)		4511380	85
Notice: Not in conjunction with RC 2!				
Reflection photocell * RL 50 for door widths 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 9 of this price list!		Surcharge	636941	721

*** Notice:**

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 140
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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 light ZS 400 with 2 yellow LED traffic lights and weekly timer ZSU 2, with extension housing	637531	536

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

8k2 safety contact strip (Not possible in doors with wicket door with trip-free threshold!)	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 124 – 138
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- | | |
|---|---|
| 1) Not in conjunction with one-way photocells | 6) Not for sectional doors: |
| 2) Not suitable for doors with wicket door with trip-free threshold | – With RM < 3125 mm (track application N and L) |
| 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 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 from 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 (½ Open) - High-speed when opening - Fire station speed possible - Automatic timer (only in conjunction with activating kit for warning light and photocell / light grille or VL 1-LE / VL 2-LE) - Prepared for traffic control (only in conjunction with activating kit for warning light and photocell / light grille or VL 1-LE / VL 2-LE)

- Notices:**
- 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 crashing as a manually operated door.

Chain drive operator ITO 500 FU with emergency release from inside					
Control	Track length (permanently defined)		Operator clearance	Normal and low headroom track application	
	Track applications L and LD	Track applications N and ND		Article no.	€
Control 560 230 V 1-phase current (with closing edge safety device, max. 25 door cycles / hour)	Up to 2475 mm door height	Up to 2500 mm door height	3865 mm	4514520	2858
	Up to 3475 mm door height	Up to 3500 mm door height	4865 mm	4514521	3003
	Up to 4475 mm door height	Up to 4500 mm door height	5865 mm	4514522	3149

Surcharges for emergency operation	Article no.	€
Secured release for interior operation	7) Surcharge 637025	135
Lockable housing for the release (ASE), incl. Bowden cable (only in combination with secured release, article no. 637025)	7) Surcharge 637733	169

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	226
Adjustable suspension for side guide (257 – 1516 mm)	636945	73
CAT adapter box Required to shorten the network cable (connection cable between operator and control), wiring tool required (item 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 For buffering the time and date of the control if it is not supplied with mains voltage for more than 60 hours.	4514027	21
Widescan (intelligent command unit and to secure the door)	635239	1121
Notice: • If the door width is wider than the fitting height, then another Widescan is required to secure the door.		
Holder for Widescan opening device, galvanized steel, 4 mm	Each 4982364	98
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	221
Double housing for closing edge safety device for extremely wet areas, protection category IP 66 (powerful jet-water protected)	Surcharge 637055	609
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 with quick-acting closure)	636094	70
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug	Surcharge 637105	72
Mains lead 1 m with CEE plug (230 V) for separate main switch	4514249	50
Lockable control with profile half cylinder	Surcharge 637100	72
Wicket door contact	Surcharge 637110	84
Limit switch for night lock	637016	54
Locking element ETV 1-HCP for automatic locking of the door in the closed end position	Surcharge 4553929	295
Multi-function circuit board with 2 relays (programmable)	637026	107

Optional extras for chain drive operator ITO 500 FU with control 560		Article no.	€
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		637243	112

Photocells / light grilles / radio activating kit		Article no.	€
Weather protective covers for photocells see page 137.			
Extension set for leading photocell VL 1-LE, incl. floor slides Notice: Not possible in combination with track applications L / LD with swivel mechanism. A VL 2-LE must be selected for these applications.	2) 5)	637108	–
Extension set for leading photocell VL 2-LE, incl. floor slides; mandatory for doors with wicket door with trip-free threshold	5) Surcharge	637107	178
Extension set for Hörmann light grille HLG as safety equipment for the main closing edge in the door surface (integrated into the door frame) Notice: Not in conjunction with RC 2!	2) 3) 4) 6) Surcharge	636938	699
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 with trip-free threshold	1) 3) 4) 5) 6) Surcharge	636867	1898
Radio activating kit extension set (omission of coiled cable) Notice: Only available in combination with optosensors as standard; 637107, 637108, 636938 or 637201 can be selected.	Surcharge	636838	254
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 (Application areas: indoor and outdoor applications)	4)	436313	118
One-way photocell EL 401 (factory preparation of the frame for fitting to 600 mm, property protection)	4) 5)	437922	71
// NEW One-way photocell EL 501 (factory preparation of the frame for fitting to 125 mm, personal safety) Notice: Not in conjunction with RC 2!	4) 5)	4511380	85
Reflection photocell * RL 50 for door widths 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 9 of this price list!	Surcharge	636941	721

*** Notice:**

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 140
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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 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

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

8k2 safety contact strip (Not possible in doors with wicket door with trip-free threshold!)		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 124 – 138
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- | | |
|--|--|
| 1) Not in conjunction with one-way photocells
2) Not suitable for doors with wicket door with trip-free threshold
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 N and L)
– With RM ≤ 2500 mm (track application V)
– With RM < 2625 mm (track application H)
7) Exterior handle recommended |
|--|--|

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

- Micro-processor control, automatic teach-in of automatic safety cut-out and end-of-travel positions, soft start and soft stop adjustable, double 7-segment display, adjustable partial opening, adjustable automatic timer, hold-open phase after activation 30–180 seconds, 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 119.

Notice:

The use of a fitting bracket is mandatory! 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	622	435410	151	773
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	622	435411	186	808
With long track L 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	622	435412	253	875
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	622	439413	280	902

		Track length for track application L Boom length for track application N										[A] No. of door sections										
												375 mm	500 mm	625 mm	750 mm							
Grid height	3000											L	XL	–	6	–	4					
	2875											L	XL	1 +	5	1 +	3					
	2750											L	L	2 +	4	2 +	2					
	2625											L	L	3 +	3	3 +	1					
	2500											L	L	–	5	4	–					
	2375											M	L	1 +	4	4*	–					
	2250											M	L	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																				
		Notice: 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.																				

Notice:

- 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 119

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 * For door section heights < 375 (shortened on-site) and door section heights < 580 mm	639060	48
	Fitting bracket for sectional doors or doors of other makes * For door section heights ≥ 580 mm	639071	52
* 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	140
	Closing edge safety device with VL 1-LE-300, complete	Surcharge 637726	140
	Notice: Not possible in combination with track applications L / LD with swivel mechanism. A VL 2-LE must be selected for these applications.	Surcharge 637727	284
	Closing edge safety device with VL 2-LE-300, complete; compulsory for doors with wicket door with trip-free threshold (wicket door contact, article no. 637110, required)	Surcharge 637727	284
Photocells		Article no.	€
Weather protective covers for photocells see page 137.			
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 side guide (257 – 1516 mm)	636945	73
	Wicket door contact (SKS or activating kit for door leaf, article no. 436263, required)	Surcharge 637110	84
	Locking element ETV 1 for automatic locking of the door in the closed end position	Surcharge 4553929	295
	Notice: • For automatic locking in end-of-travel position Door Closed, limit switch reporting Door Closed is required. • A start warning (UAP1 required) must be set for automatic unlocking. An automatic timer cannot be programmed if a start warning is set.		
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
	Notice: Emergency release NET 3 (article no. 437149) must be ordered separately.		

* Notice:

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 124 – 138

Overview of combination options for optical safety equipment See page 140

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 ½ / Open
- Automatic timer (only in conjunction with activating kit for warning light and photocell / light grille or VL 1-LE / VL 2-LE)

- Prepared for traffic control (only in conjunction with activating kit for warning light 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 121.

Notice:

The use of a fitting bracket is mandatory! 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	879	435410	151	1030
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	879	435411	186	1065
With long track L 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	879	435412	253	1132
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	879	439413	280	1159

		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																L	XL	–	6	–	4		
	2875																L	XL	1 +	5	1 +	3		
	2750																L	L	2 +	4	2 +	2		
	2625																L	L	3 +	3	3 +	1		
	2500																L	L	–	5	4	–		
	2375																M	L	1 +	4	4*	–		
	2250																M	L	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

Notices:

- 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 total current of 300 mA for connecting accessories. An additional power supply 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	72
Lockable control with profile half cylinder	Surcharge 637100	72
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	140
Closing edge safety device with VL 1-LE-300, complete		
Notice: Not possible in combination with track applications L / LD with swivel mechanism. A VL 2-LE must be selected for these applications.	1) Surcharge 637726	140
Closing edge safety device with VL 2-LE-300, complete; compulsory for doors with wicket door with trip-free threshold (wicket door contact, article no. 637110, required)	1) Surcharge 637727	284
Locking element ETV 1 for automatic locking of the door in the closed end position	Surcharge 4553929	295
Notice: • For automatic locking in end-of-travel position Door Closed, limit switch reporting Door Closed is required. • A start warning (multi-function circuit board required) must be set for automatic unlocking. An automatic timer cannot be programmed if a start warning is set.		
Wicket door contact (SKS or AT 3-300 required)	Surcharge 637110	84
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	151

Photocells	Article no.	€
Weather protective covers for photocells see page 137.		
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

* Notice:

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 140
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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 with 2 LED traffic lights, without extension housing	2-arm red / green (230 V / 50 Hz) 1-arm red / green (24 V DC)	637731 475 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) 1-arm red / green (24 V DC)	637779 771 638956 771

1) Not in conjunction with light grille

Additional accessories	See pages 124 – 138
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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 side guide (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 with quick-acting closure)	636094	70
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	12,8
Notice: Emergency release NET 3 (article no. 437149) must be ordered separately.		
Additional accessories		See pages 124 – 138

Notes and sketches

Operator accessories

WA 300, WA 500, WA 500 M, WA 500 FU, WA 500 M-FU, 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 bidirectional receiver, BiSecur with bus interface for a steady range, if necessary due to structural conditions, with 0.5 m connecting lead, with system plug, housing: plastic, protection category: only for dry rooms, 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 bidirectional receiver, BiSecur with bus interface for a steady range, if necessary due to structural conditions, with 7 m connecting lead, with system plug, housing: plastic, protection category: only for dry rooms, 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 outdoor use, 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 bidirectional receiver, BiSecur with bus interface for a steady range, if necessary due to 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 using 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 from other manufacturers 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. Notice: Prices do not include the hand transmitters!					
Pre-programming of hand transmitters			Surcharge each	437987	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 with UAP1 (not compatible with control 360)
- 10 = Only in conjunction with a radio receiver

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

WA 300, WA 500, WA 500 M, WA 500 FU, WA 500 M-FU, 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 die-cast caps	Black (textured surface)	4511720	73	
HS 4 BS		4-button hand transmitter, impulse, incl. battery, with chrome-plated zinc die-cast caps	Black (textured surface)	4511724	73	
HS 5 BS		5-button hand transmitter, impulse, incl. battery, with chrome-plated zinc die-cast 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 sleeve, 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	
// NEW HSI 3 BS		Industrial hand transmitter for controlling up to 3 receivers		635054	91	
		Hand transmitter holder for HSI 3 BS, incl. fitting accessories for fitting to wall or box frame		635059	8,50	
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	8,50	
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	
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			

- = 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 with UAP1 (not compatible with control 360)
- 10 = Only in conjunction with a radio receiver

	WA 300 With control		WA 500 / WA 500 FU / ITO 500 FU With control		Direct drive operators With control		SupraMatic HT With control		General use ◊
	Integrated	External 360	545	560	445 R	460 R	Integrated	External 360	
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	•	•	•	•	•	•	•/4	•	•
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Operator accessories

WA 300, WA 500, WA 500 M, WA 500 FU, WA 500 M-FU, 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	
	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	
	Notice: - SmartControl requires a 2G or 3G network at the control location: Check the local network coverage! - Only possible in conjunction with article no. 639351!			
SmartControl	Annual usage fees for SmartControl per year The mobile connection required for SmartControl is made via the Deutsche Telekom mobile network using the mobile radio standard 2G and 3G. Other mobile radio standards / networks or other mobile radio network operators cannot be used for SmartControl. The use of the required mobile radio connection requires that a contract is concluded for the provision of the mobile radio connection between the owner / operator and us, which is separate from the purchase of the SmartControl gateways. In this respect, we solely provide the services of Deutsche Telekom 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 yearly in advance.	639351	74	
	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 line, protection category: for dry rooms only, 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, management 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 capacity 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 range UMTS 900 / 1200 MHz, GSM / GPRS 900 / 1800 MHz	639782	543	
	Homematic IP gateway			
Homematic IP gateway	- Gateway for the control of Hörmann operators via the Homematic IP Smart Home system - With 10 cm connecting lead; housing: plastic; protection category: only for dry rooms; temperature range: -20°C to +60°C; operating voltage: 24 V DC; colour: Light grey RAL 7035, dimensions (W x H x D): 51 x 47.5 x 16 mm - Management via Homematic IP app (iOS, Android) and Homematic WebUI - System requirements: - Homematic IP Access Point with operation via smartphone (Android devices from version 5.0 or higher, IOS devices from version 9.3 or higher) - Homematic CCU2 / 3 control panel 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 according to products and rooms	4511629	68	

- = 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 with UAP1 (not compatible with control 360)
- 10 = Only in conjunction with a radio receiver

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

WA 300, WA 500, WA 500 M, WA 500 FU, WA 500 M-FU, 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	
	DeltaDore gateway			
X3D gateway	- Gateway for the control of Hörmann operators via the DeltaDore Tydom Smart Home system - With 6.5 cm connecting lead; housing: plastic; protection category: only for dry rooms; temperature range: -20°C to +60°C; operating voltage: 24 V DC; colour: Signal white RAL 9003, dimensions (W x H x D): 36 x 41 x 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	
	WiFi gateway			
	- Gateway for controlling Hörmann door operators via: - Apple HomeKit - Amazon Alexa - Google Home / Google Assistant - With 2 m connecting lead, 6-wire - Protection category: IPX4 - Temperature range: -20°C to +60°C - Operating voltage: 24 V DC - Colour: Pure white RAL 9010 - Dimensions (W x H x D): 80 x 80 x 35 mm - Management and setup via Apple Home app / Hörmann Cloud (cd.hoermann.com) - Remote access and operation via Apple HomePod, Apple TV 4K, Apple TV (3rd / 4th generation), Amazon Alexa, Google Home / Google Assistant - Simple operation of door operators via voice assistant and app	WiFi gateway 4510908 WiFi gateway incl. HCP adapter (4510204) 4510910	129 139	
// NEW WiFi gateway				
	Loxone gateway			
// NEW Loxone gateway	- Gateway for controlling Hörmann door operators via the Loxone Smart Home system including 10 cm connecting lead - Protection category: for dry rooms only - Temperature range: -20°C to +65°C - Operating voltage: 24 V DC - Colour: Green RAL 6018 - Dimensions (W x H x D): 38.3 x 34.3 x 10.5 mm - Management and setup via Loxone app - System requirements - Loxone Miniserver and Loxone Config V13.1 or higher - Loxone Config requires a Windows 7 (service pack 2), Windows 8, Windows 8.1, Windows 10 or Windows 11 operating system - iOS devices - iPhone – requires iOS 14.5 or higher - iPad – requires iPadOS 14.5 or higher - Apple Watch – requires watchOS 6.0 or higher - Android – Android system Web View version 49 or higher - Loxone app - Simple way of networking the electrics of an entire building - Easy-to-use door operator - Simple creation and activation of scenarios - Free of charge download from the App StoreSM or Google PlaySM	4511929	180	

- 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 with UAP1
- 10 = Only in conjunction with a radio receiver

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Operator accessories

WA 300, WA 500, WA 500 M, WA 500 FU, WA 500 M-FU, 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 134): For 230 V AC, use connecting lead ZL 1; for 24 AC/DC and for providing impulse to the 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 134): For 230 V AC, use connecting lead ZL 1; for 24 AC/DC and for providing impulse to the 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 134): For 230 V AC, use connecting lead ZL 1; for 24 AC/DC and for providing impulse to the 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 134): For 230 V AC, use connecting lead ZL 1; for 24 AC/DC and for providing impulse to the 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 Notice: Use a mains adapter (article no. 436109, page 134) 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	

- = 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 with UAP1 (not compatible with control 360)
- 10 = Only in conjunction with a radio receiver

	WA 300 With control		WA 500 / WA 500FU / ITO 500FU With control		Direct drive operators With control		SupraMatic HT With control		General use ⊗
	Integrated	External 360	545	560	445 R	460 R	Integrated	External 360	
	•	•	•	•	•	•	•	•	•
	•/2	•/2	•/2	•/2	•/2	•/2	•	•	•
	•	•	•	•	•	•	•	•	•
	•/2	•/2	•/2	•/2	•/2	•/2	•	•	•
	•	•	•	•	•	•	•	•	•
	•/2	•/2	•/2	•/2	•/2	•/2	•	•	•
	•/10	•/10	•/10	•/10	•/10	•/10	•/10	•/10	•
	•/10	•/10	•/10	•/10	•/10	•/10	•/10	•/10	•
	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•
	•/10	•/10	•/10	•/10	•/10	•/10	•/10	•/10	•
	•	•	•	•	•	•	•	•	•

Operator accessories

WA 300, WA 500, WA 500 M, WA 500 FU, WA 500 M-FU, 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	
	Special length motor control (WA 500 / WA 500 FU) Surcharge per m	637080	13,80	
	Connecting leads, 3-wire, 230 V			
ZL 1	1.5 m length, 3 × 0.75 mm ² with safety plug Suitable for power supply of the 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 mm ² , up to 6 m	637527	76	
	Coiled cable 9 × 0.25 mm ² , up to 6 m	4545155	96	
	Mains adapter			
	Mains adapter with Euro 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/Half Open	639886	103	
DTNA 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	
	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	

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- 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 with UAP1 (not compatible with control 360)
- 10 = Only in conjunction with a radio receiver

	WA 300 With control		WA 500 / WA 500FU / ITO 500FU With control		Direct drive operators With control		SupraMatic HT With control		General use ⊗
	Integrated	External 360	545	560	445 R	460 R	Integrated	External 360	
	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•
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		•	•	•	•	•		•	
	•	•	•	•	•	•	•/5	•	•
	•	•	•	•	•	•	•/5	•	•
	•/7	•	•	•		•	•/5	•	•
	•/7	•	•	•		•	•/5	•	•
	•/7	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•/5	•	•
	•/7	•	•	•		•	•/5	•	•
	•	•	•	•	•	•	•/5	•	•
	•/7	•	•	•	•	•	•/5	•	•
	•	•	•	•	•	•	•/5	•	•
	•	•	•	•	•	•	•	•	•
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	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•

Operator accessories

WA 300, WA 500, WA 500 M, WA 500 FU, WA 500 M-FU, 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	
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) Notice: 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. 437076 is required 1x.	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	LED double 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 warning light for key switch post STN 1-1 / STN 1-1 B, red / yellow / green triple LED, 24 V DC	639307	138	
TL40Srd	LED warning light, red (230 V / 50 Hz), multi-function or travel limit circuit board required! Exception: Control 560 (1 option relay as standard)	637534	124	
TL40Sgn	LED warning light, green (230 V / 50 Hz), multi-function or travel limit circuit board required! Exception: Control 560 (1 option relay as standard)	637535	124	
TL40Sye	LED warning light, yellow (230 V / 50 Hz), multi-function or travel limit circuit board required! Exception: Control 560 (1 option relay as standard)	637536	112	
TL40Srd/gn	LED warning 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	208	
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 Notice: 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. Notice: 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	130	
	Fitting struts for control and extension housing (frame fitting)	637696	30	

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- 10 = Only in conjunction with a radio receiver

	WA 300 With control		WA 500 / WA 500FU / ITO 500FU With control		Direct drive operators With control		SupraMatic HT With control		General use ◊
	Integrated	External 360	545	560	445 R	460 R	Integrated	External 360	
	•		•	•	•	•			
	•								
	•						•		
		•	•	•	•	•		•	•
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	•/7	•/8	•/8	•/8	•/8	•/8	•/5	•/8	•
	•/7	•/8	•/8	•/8	•/8	•/8	•/5	•/8	•
	•/7	•	•/8	•/8	•/8	•/8	•/5	•/8	•
	•/7	•	•/8	•/8	•/8	•/8	•/5	•/8	•
	•/7	•	•/8	•/8	•/8	•/8	•/5	•/8	•
	•/7	•/8	•/8	•/8	•/8	•/8	•/5	•/8	•
	•/7	•/8	•/8	•/8	•/8	•/8	•/5	•/8	•
	•/7	•/8	•/8	•/8	•/8	•/8	•/5	•/8	•
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	•/7	•	•/8	•/8	•/8	•/8	•/5	•/8	•
	•/7	•	•/8	•/8	•/8	•/8	•/5	•/8	•
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	•/7	•	•/8	•/8	•/8	•/8	•/5	•/8	•
		•	•	•	•	•		•	

Operator accessories

WA 300, WA 500, WA 500 M, WA 500 FU, WA 500 M-FU, 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 to bridge power failures for approx. 4 door cycles within 2 hours (depending on temperature, door weight, spring balance, etc.), protection category IP 20	639353	2382	

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- 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 with UAP1 (not compatible with control 360)
- 10 = Only in conjunction with a radio receiver

	WA 300 With control		WA 500 / WA 500FU / ITO 500FU With control		Direct drive operators With control		SupraMatic HT With control		General use ◉
	Integrated	External 360	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

Notices:

- 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 Notices: - 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									
		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									
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)	-	○	●	●	●	●	●	●	●		
637107 / 637727	Extension set for leading photocell VL 2-LE, incl. floor slides; mandatory for doors with wicket door with trip-free threshold (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 (factory preparation of the frame for fitting to 600 mm, property protection)	○	○	○	●	●	●	●	●	●		
4511380	// NEW One-way photocell EL 501 (factory preparation of the frame for fitting to 125 mm, personal safety) Notice: Not in conjunction with RC 2!	○	○	●	○	○	○	○	○	○		
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 with trip-free threshold	○	○	○	○	○	○	○	○	○		
636941	Light grille HLG 550 for 67 series doors as trap guard Observe the information regarding the trap guard on page 9 of this price list!	●	●	●	●	●	●	●	●	●		

[illegible]

Notes and sketches

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 one-of-a-kind products you can depend on.

