Industrial price list 14-22.1

Valid from 01.06.2022

Sectional doors SPU F42 Plus

Series 60
Depth 42 mm made of steel
Operators and controls

HÖRMANN

Hörmann international sales companies and sales partners

Hörmann KG Verkaufsgesellschaft
Upheider Weg 94-98
D-33803 Steinhagen
Telefon +49 5204 915-0
Telefax +49 5204 915-277
Internet www.hoermann.com

Hörmann international sales companies

International sales partners

Hörmann international sales companies

Hörmann Austria
A-5310 Mondsee
info@hoermann.at

Hörmann Baltic
LT-14247 Vilnius r.
info@hormann.lt

Hörmann Bel
BY-220125 Minsk
info@hormann.by

Hörmann Belgium
B-3700 Tongeren
info@hormann.be

Hörmann Bulgaria
BG-1532 Sofia
info.sof@hormann.bg

Hörmann Česká republika
CZ-252 68 Středokluky
info@hormann.cz

Hörmann China
CN-100176 Beijing
info@hoermann.cn

Hörmann Danmark
DK-8920 Randers
info@hoermann.dk

Hörmann Eesti
EST-76505 Saue
info.tll@hormann.ee

Hörmann España
E-08228 Terrassa
info.cat@hormann.es

Hörmann Finnland
FIN-02420 Jorvas
info@mesvac.fi

Hörmann France
F-89107 Sens
info@hormann.fr

Hörmann Hellas
GR-19400 Koropi
info@hormann.gr

Hörmann Hong Kong
HK-Quarry Bay
info@hoermann.com.hk

Hörmann Hrvatska
HR-10000 Zagreb
info@hormann.hr

Hörmann Hungária
H-2310 Szigetszentmiklós
info@hormann.hu

Hörmann Indien
Shakti Hormann
IND-500015 Secunderabad, Telangana
info@shaktihormann.com

Hörmann Indonesia
ID-12520 Jakarta
info@hormann.id

Hörmann Ireland
IRL – Y35 HH72 Wexford
info@hoermann.ie

Hörmann Italia
I-38015 Lavis (Trento)
info@hormann.it

Hörmann Kazakhstan
KZ-050019 Almaty
info@hormann.kz

Hörmann Malaysia
MAL-40150 Shah Alam, Selangor
info@hoermann.com.my

Hörmann Maroc
MA-28810 Mohammedia
info@hormann.ma

Hörmann Mexico
MEX-66350
Santa Catarina
info@hormann.com.mx

Hörmann Middle East & Africa
UAE-Dubai
info.dxb@hormann.com

Hörmann Myanmar
MM-Yangon
info@hormann.com.mm

Hörmann Nederland
NL-3771 MB Barneveld
info@hormann.nl

Hörmann Norge
N-4640 Søgne
info@hoermann.no

Hörmann Polska
PL-62-052 Komorniki
info@hormann.pl

Hörmann Portugal
P-2710-297 Sintra
info@hormann.pt

Hörmann Romania
RO-077040, Chiajna, Județul Ilfov
info@hormann.ro

Hörmann Russia
RUS-196696
Sankt Petersburg
info@hoermann.ru

Hörmann Schweiz
CH-4702 Oensingen
info@hoermann.ch

Hörmann Serbia
SRB-11272
Beograd-Dobanovci
info@hormann.rs

Hörmann Slovenija
SI-3301 Petrovče
info@hormann.si

Hörmann Slovenská republika
SK-903 01 Senec
info.bts@hoermann.com

Hörmann Svenska
S-70369 Örebro
info@hoermann.se

Hörmann Thailand
TH-Bangplee, Samutprakarn 10540
info@hormann.co.th

Hörmann Türkiye
TR-34870 Kartal – İstanbul
info.ist@hoermann.com.tr

Hörmann UK
GB-Leicestershire
LE67 4JW
info@hormann.co.uk

Hörmann Ukraine
UA-08300 Boryspil, Kyiwska Obl.
info@hoermann.com.ua

Hörmann High Performance Doors
USA-Burgettstown, PA 15021
info2@hormann.us

Hörmann LLC
USA-Montgomery, IL 60538
info1@hormann.us

Hörmann Vietnam
VN-Hanoi
info.han@hormann.vn

International sales partners

Albania
Algeria
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Sectional doors SPU F42 Plus

Product description

Door leaf

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

Surface finish (steel section texture)

M-ribbed:
- Exterior Woodgrain-embossed, Silkgrain or Decograin / interior Stucco-textured
- Equally high door sections for any door height, top door section adjusted, uniform horizontal height arrangement of ribbing
- Height of door sections:
  – Woodgrain-embossed: 468, 475, 479, 488, 500, 520, 525, 531, 550, 562 mm
  – Silkgrain, Decograin: 468, 475, 488, 500, 520, 531, 550, 562 mm

L-ribbed:
- Exterior Woodgrain-embossed, Silkgrain or Decograin / interior Stucco-textured
- Equally high door sections for any door height, top door section adjusted, uniform horizontal height arrangement of ribbing
- Height of door sections:
  – Woodgrain-embossed: 468, 475, 479, 488, 500, 520, 525, 531, 550, 562 mm
  – Silkgrain, Decograin: 468, 475, 488, 500, 520, 531, 550, 562 mm

Glazing frame:
Anodised aluminium extrusion profiles with steel end caps.

Surface finish

Coating steel sections, Woodgrain or Silkgrain version:

Exterior: Polyester primer-coated with coil coating procedure, based on RAL 9016 Traffic white

Interior: Polyester primer-coated with coil coating procedure, based on RAL 9002 Grey white

Coating steel sections, Decograin version:

Exterior:
- Coated with timber design plastic film with embossed timber structure for authentic timber character.
  – Golden Oak: medium brown, golden yellow oak design
  – Dark Oak: walnut-coloured oak design
- Plastic film coating
  – Titan Metallic CH 703

Interior: Polyester primer-coated with coil coating procedure, based on RAL 9002 Grey white

Glazing frame in natural finish E6 / C0
All further steel parts manufactured from hot-galvanized steel. Coated torsion springs.
For RAL colours, see from page 38 “Surface coating”

Frame / track application

Angle frame with side trap guards, made of hot-galvanized sheet steel, screwed tracks, double radius 510 mm.

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.

Sectional doors SPU F42 Plus

Product description

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.

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 as well as integrated anti-lift kit. *)
- Inner and outer finger trap protection

* European patent

Seals

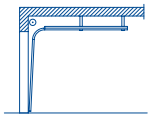
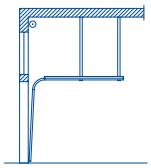
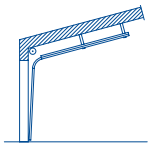
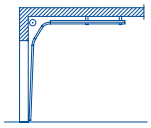
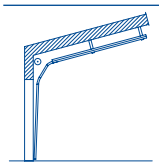
Bottom seal made of 5-chamber EPDM profile with flexible adjustment lip, side seal, lintel seal and intermediate seal between the door sections.

Performance characteristics according to EN 13241			SPU F42 Plus
EN 12424	Resistance to wind load	Details for doors without wicket door	Class 3 2) Class 4 1) 2)
		Details for doors with wicket door	Class 2 2) Class 3 1) 2)
EN 12425	Water tightness	Details for doors with and without wicket door	Class 3 (70 Pa)
EN 12426	Air permeability	Details for doors without wicket door	Class 2 Class 3 3) 4) 5)
		Details for doors with wicket door	Class 1
EN 13241, appendix B EN 12428	Thermal resistance U = W/(m²·K)	Details for door without wicket door: 5000 × 5000 mm	1,0
		Details for door with wicket door: 5000 × 5000 mm	1,2
EN 717-1	Noise (acoustic value) R_w = dB	Details for doors without wicket door 3)	25
		Details for doors with wicket door 3)	24

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

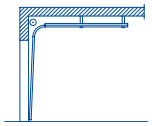
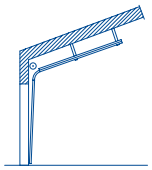
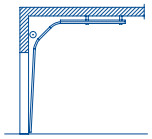
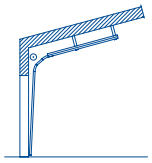
1) For door widths up to 4000 mm
2) Lower class rating may apply for doors with compound and panel glazing
3) For doors without glazing frame
4) With ThermoFrame
5) With optional set for increased air tightness

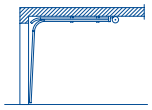
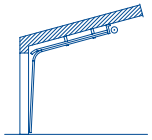
Track applications

Track applications N			Article no.		Surcharges	
	**N**	Normal track application	N1 N2	3096643 3096644		Included in the door price!
	**NA**	As with track application N With high-mounted torsion spring shaft Door height RM ≤ 5000 mm	NA1 NA2	3096656 3096657	**+ € 268**	On the basic table price
	**ND**	As with track application N With inclination (30° maximum)	ND1 ND2	3096647 3096648	**+ € 148**	On the basic table price
		Special version inclination 32° – 46° Door height RM ≤ 5000 mm **Technical inspection required!**	ND6 ND7	3096650 3096651	**+ € 978**	On the basic table price
	**NS**	As with track application N With double radius Door height RM ≤ 5000 mm **Technical inspection required!** **Notice:** Version RC 2 only possible with angle C = 40° and 45°.	NS1 NS2	3096652 3096653	**+ € 323**	On the basic table price
	**NK**	As with track application N With double radius and inclination Door height RM ≤ 5000 mm **Technical inspection required!** **Notice:** Version RC 2 only possible with angle C = 40° and 45°.	NK1 NK2	3096654 3096655	**+ € 585**	On the basic table price

Manual track application size change	Article no.	Surcharges	
Manual track application size change **Technical inspection required!**	3091251	**+ € 426**	On the basic table price

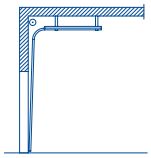
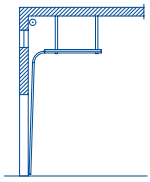
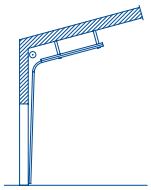
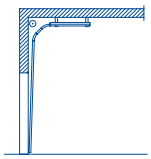
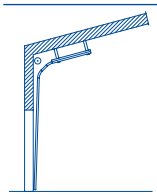
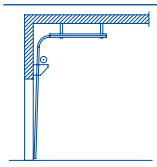
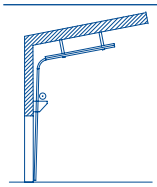
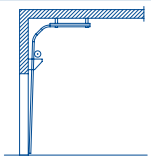
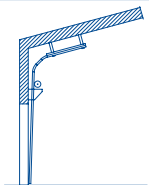
Track applications

Track applications NH			Article no.		Surcharges	
	**NH**	As with track application N With minimum high-lift Door height RM ≤ 5000 mm **Notice:** • Double radius 361 mm • Door travel speed possible up to 0.5 m/s.	NH1 NH2	3096658 3096659	**+ € 195**	On the basic table price
	**GD**	As with track application NH With inclination (28° maximum) Door height RM ≤ 5000 mm **Notice:** • Double radius 361 mm • Door travel speed possible up to 0.5 m/s.	GD1 GD2	3096661 3096662	**+ € 337**	On the basic table price
	**GS**	As with track application NH With double radius Door height RM ≤ 5000 mm **Technical inspection required!** **Notice:** • Double radius 361 mm • Door travel speed possible up to 0.5 m/s.	GS1 GS2	3096663 3096664	**+ € 509**	On the basic table price
	**GK**	GK as with track application NH With double radius and inclination Door height RM ≤ 5000 mm **Notice:** • Double radius 361 mm • Door travel speed possible up to 0.5 m/s. **Technical inspection required!**	GK1 GK2	3096665 3096666	**+ € 812**	On the basic table price

Track applications L			Article no.		Surcharges	
	**L**	Low headroom track application Door height RM ≤ 5000 mm	L1 L2	3096667 3096668	**+ € 304**	On the basic table price
		Swing mechanism for track application L / LD to increase the clear passage **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.	Galvanized Stainless steel	3098424 3098425	**+ € 265** **+ € 454**	
	**LD**	As with track application L With inclination Door height RM ≤ 5000 mm	LD1 LD2	3096669 3096670	**+ € 448**	On the basic table price
		Swing mechanism for track application L / LD to increase the clear passage **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.	Galvanized Stainless steel	3098424 3098425	**+ € 265** **+ € 454**	

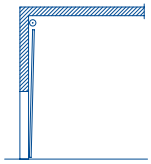
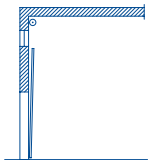
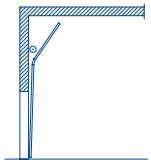
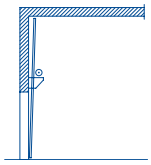
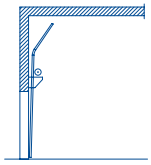
Manual track application size change	Article no.	Surcharges	
Manual track application size change **Technical inspection required!**	3091251	**+ € 426**	On the basic table price

Track applications

Track applications H			Article no.		Surcharges		
	**H**	High-lift track application	H4 H5	3096671 3096672	+ **7 %**		On the basic table price
	**HA**	As with track application H With high-mounted torsion spring shaft Door height RM ≤ 3500 mm	HA4	3096686	+ **7 %**	+ € **268**	On the basic table price
	**HD**	As with track application H With inclination	HD4 HD5	3096677 3096678	+ **7 %**	+ € **148**	On the basic table price
	**HS**	As with track application H With double radius **Technical inspection required!**	HS 4 HS5	3096680 3096681	+ **7 %**	+ € **323**	On the basic table price
	**HK**	As with track application H With double radius and inclination **Technical inspection required!**	HK4 HK5	3096683 3096684	+ **7 %**	+ € **585**	On the basic table price
	**HU**	As with track application H With low-mounted spring shaft	HU4 HU5	3096689 3096690	+ **12 %**		On the basic table price
	**RD**	As with track application HU With inclination Door height RM ≤ 5000 mm	RD4 RD5	3096691 3096692	+ **12 %**	+ € **148**	On the basic table price
	**RS**	As with track application HU With double radius Door height RM ≤ 5000 mm **Technical inspection required!**	RS4 RS5	3096693 3096694	+ **12 %**	+ € **323**	On the basic table price
	**RK**	As with track application HU With double radius and inclination Door height RM ≤ 5000 mm **Technical inspection required!**	RK4 RK5	3096695 3096696	+ **12 %**	+ € **585**	On the basic table price

Manual track application size change	Article no.	Surcharges	
Manual track application size change **Technical inspection required!**	3091251	+ € **426**	On the basic table price

Track applications

Track applications V			Article no.		Surcharges			
	**V**	Vertical track application (Additional hand pulley required for manually operated doors!)	V6 V7	3096699 3096700	+ **5 %**			On the basic table price
	**VA**	As with track application V With high-mounted torsion spring shaft (Additional hand pulley required for manually operated doors!) Door height RM ≤ 3500 mm	VA6	3096702	+ **5 %**	+ €	**268**	On the basic table price
	**VS**	As with track application V, but the tracks are deflected by radii in the upper segment if the ceiling height is too low. (Additional hand pulley required for manually operated doors!) **Technical inspection required!**	VS6 VS7	3096703 3096704	+ **5 %**	+ €	**323**	On the basic table price
	**VU**	As with track application V With low-mounted spring shaft (Additional hand pulley required for manually operated doors!)	VU6 VU7	3096706 3096707	+ **10 %**			On the basic table price
	**WS**	As with track application VU, but the tracks are deflected by radii in the upper segment if the ceiling height is too low. (Additional hand pulley required for manually operated doors!) Door height RM ≥ 2200 mm **Technical inspection required!**	WS6 WS7	3096709 3096710	+ **10 %**	+ €	**323**	On the basic table price

Manual track application size change	Article no.	Surcharges			
Manual track application size change **Technical inspection required!**	3091251	+ €	**426**	On the basic table price

Sectional door SPU F42 Plus door sections with finger trap protection

Double-skinned steel section door, door sections 468 to 562 mm high, top door section adjusted, depth 42 mm

M-ribbed – Woodgrain-embossed

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 4 – 7.

For a product description, see pages 2 and 3.

Doors with a grid height over 5000 mm on request.

Grid height	Width From 1200 1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
5000	4348	3857	3861	4085	4309	4537	4813	5058	5325	5499	5724	5944	6185	6394	7119	7386	7666	7905
4875	4309	3816	3822	4045	4264	4486	4756	4999	5263	5441	5657	5878	6122	6317	7063	7322	7583	7834
4750	4265	3774	3779	3995	4216	4433	4705	4942	5185	5376	5589	5816	6049	6267	6986	7239	7520	7773
4625	4225	3730	3736	3953	4163	4379	4647	4912	5128	5338	5539	5745	5978	6193	6942	7167	7438	7683
4500	4106	3615	3620	3822	4023	4228	4463	4721	4965	5124	5326	5534	5751	5940	6611	6863	7127	7343
4375	4067	3570	3578	3777	3983	4181	4437	4658	4902	5062	5263	5460	5692	5866	6562	6786	7039	7273
4250	3903	3408	3414	3604	3797	3992	4262	4454	4648	4837	5029	5214	5425	5612	6205	6462	6702	6909
4125	3859	3361	3370	3559	3750	3940	4207	4410	4587	4795	4966	5146	5355	5537	6180	6379	6628	6820
4000	3662	3168	3171	3369	3532	3730	3965	4152	4337	4516	4696	4865	5065	5229	5846	6089	6320	6509
3875	3631	3137	3145	3320	3505	3677	3924	4095	4280	4454	4631	4802	4992	5154	5787	6014	6234	6419
3750	3589	3096	3103	3276	3454	3626	3872	4038	4215	4391	4562	4733	4917	5085	5708	5936	6164	6333
3625	3551	3057	3064	3227	3408	3578	3814	4003	4159	4343	4500	4661	4851	5014	5681	5856	6084	6261
3500	3322	2824	2833	2985	3158	3287	3479	3616	3788	3958	4113	4246	4484	4635	5116	5287	5459	5634
3375	3280	2782	2789	2940	3107	3243	3425	3555	3727	3891	4049	4176	4408	4560	5032	5199	5388	5546
3250	3239	2742	2748	2896	3051	3195	3370	3501	3668	3828	3983	4107	4338	4485	4955	5116	5316	5463
3125	3085	2590	2595	2738	2886	3140	3317	3437	3630	3780	3904	4036	4274	4406	4889	5032	5226	5374
3000	2947	2454	2460	2573	2733	2987	3158	3274	3427	3578	3718	3831	4047	4183	4608	4736	4914	5065
2875	2852	2362	2366	2505	2626	2890	3030	3162	3290	3426	3565	3679	3896	4021	4416	4557	4726	4868
2750	2815	2324	2328	2462	2578	2835	2975	3112	3229	3361	3501	3605	3822	3953	4336	4474	4645	4775
2625	2785	2290	2300	2425	2547	2783	2926	3052	3184	3315	3423	3539	3753	3874	4274	4408	4574	4687
2500	2685	2192	2197	2310	2432	2646	2750	2888	2996	3116	3235	3333	3529	3641	3995	4102	4257	4381
2375	2649	2154	2158	2279	2382	2585	2709	2825	2932	3047	3168	3265	3462	3568	3911	4036	4189	4313
2250	2603	2109	2116	2234	2328	2535	2654	2774	2866	2985	3103	3192	3390	3503	3834	3954	4101	4211
2205	2603	2109	2116	2234	2328	2535	2654	2774	2866	2985	3103	3192	3390	3503	3834	3954	4101	4211
2125	2573	2077	2083	2192	2301	2482	2603	2707	2824	2935	3025	3122	3317	3419	3772	3888	4037	4127
2080	2573	2077	2083	2192	2301	2482	2603	2707	2824	2935	3025	3122	3317	3419	3772	3888	4037	4127
2000	2454	1957	1964	2059	2156	2345	2431	2535	2633	2735	2843	2923	3093	3193	3504	3587	3715	3824
1955	2454	1957	1964	2059	2156	2345	2431	2535	2633	2735	2843	2923	3093	3193	3504	3587	3715	3824
1875	2414	1916	1927	2030	2112	2286	2391	2489	2577	2672	2770	2850	3036	3115	3415	3504	3630	3737

Width

	Rail width 52 mm				
Number of fields per glazing frame	On request	2	3	4	5
Number of compound glazings type D per door section	On request	2	3	4	5
Number of ventilation grilles per door section	2	4	6	8	10
Number of panel glazings	See accessories on page 15				

Glazing frame Page 14

Compound glazings type D Page 14

Intermediate heights Page 14

Ventilation grilles Page 14

Panel glazings Page 15

Surface coating From page 38

Accessories From page 40

SPU F42 Plus
M-ribbed – Woodgrain-embossed

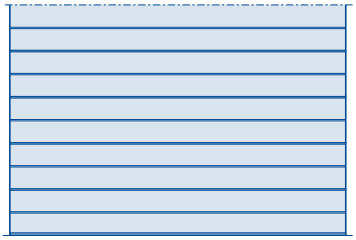
Wicket doors from page 26.

					No. of door sections	Height of door sections	Spacing
8589	**8840**	**9132**	**9353**	5000	10	500	250
8503	**8738**	**9037**	**9276**	4875	9	550	275
8410	**8647**	**8932**	**9221**	4750	9	531	265
8319	**8573**	**8833**	**9118**	4625	9	520	260
7979	**8193**	**8457**	**8684**	4500	9	500	250
7893	**8114**	**8383**	**8605**	4375	8	550	275
7451	**7679**	**7917**	**8125**	4250	8	531	265
7370	**7583**	**7812**	**8035**	4125	8	520	260
7012	**7203**	**7434**	**7633**	4000	8	500	250
6925	**7119**	**7349**	**7530**	3875	7	562	281
6831	**7044**	**7254**	**7442**	3750	7	550	275
6758	**6942**	**7157**	**7357**	3625	7	520	260
6135	**6296**	**6498**	**6670**	3500	7	500	250
6038	**6227**	**6415**	**6595**	3375	6	562	281
5954	**6124**	**6315**	**6492**	3250	6	550	275
5880	**6049**	**6237**	**6393**	3125	6	531	265
5526	**5664**	**5842**	**5998**	3000	6	500	250
5299	**5445**	**5602**	**5741**	2875	6	479	240
5221	**5352**	**5509**	**5648**	2750	5	550	275
5121	**5261**	**5417**	**5549**	2625	5	525	263
4706	**4844**	**4967**	**5088**	2500	5	500	250
4609	**4742**	**4867**	**4993**	2375	5	475	237
4534	**4644**	**4773**	**4897**	2250	4	562	281
4534	**4644**	**4773**	**4897**	2205	4	550	275
4440	**4550**	**4686**	**4803**	2125	4	531	265
4440	**4550**	**4686**	**4803**	2080	4	520	260
4074	**4195**	**4316**	**4417**	2000	4	500	250
4074	**4195**	**4316**	**4417**	1955	4	488	244
4003	**4113**	**4211**	**4319**	1875	4	468	234
6250	6500	6750	7000				

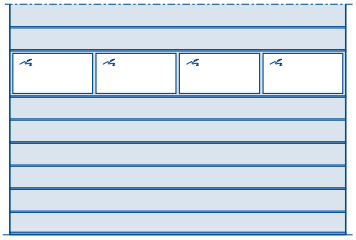
Width

Rail width 52 mm
5
5
10

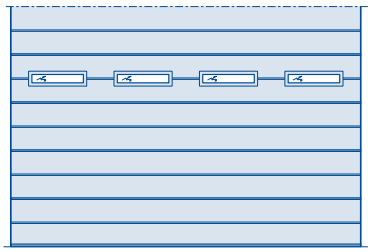
See accessories on page 15



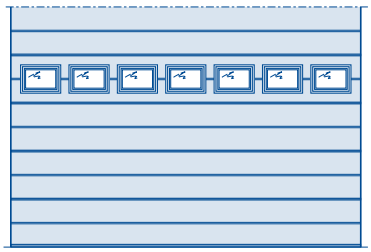
Basic model



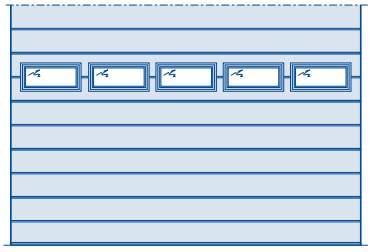
Version with glazing frame



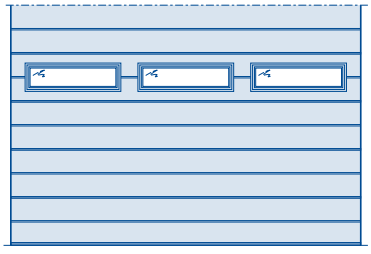
Version with compound glazing type D
Glazing dimensions (W × H): 680 × 210
Clear view (W × H): 602 × 132



Version with panel glazing type S
Glazing dimensions (W × H): 395 × 270
Clear view (W × H): 327 × 202



Version with panel glazing type M
Glazing dimensions (W × H): 620 × 270
Clear view (W × H): 552 × 202



Version with panel glazing type L
Glazing dimensions (W × H): 1004 × 270
Clear view (W × H): 936 × 202

The figures are only for visualisation. Please refer to page 15 of this price list or to the technical manual for the exact number and arrangement of glazings.

Sectional door SPU F42 Plus door sections with finger trap protection

Double-skinned steel section door, door sections 468 to 562 mm high, top door section adjusted, depth 42 mm

M-ribbed – Silkgrain

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 4 – 7.

For a product description, see pages 2 and 3.

Doors with a grid height over 5000 mm on request.

Grid height	Width From 1200 1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
5000	5236	4726	4764	5056	5348	5643	5993	6313	6654	6886	7178	7464	7776	8049	8920	9266	9620	9931
4875	5184	4673	4711	4999	5288	5575	5918	6231	6568	6809	7089	7372	7690	7945	8840	9175	9504	9828
4750	5131	4620	4655	4937	5222	5502	5846	6153	6467	6717	6995	7286	7588	7871	8735	9060	9415	9735
4625	5079	4561	4597	4879	5154	5432	5770	6108	6388	6661	6923	7193	7490	7768	8669	8957	9302	9615
4500	4937	4419	4456	4721	4981	5249	5548	5875	6189	6400	6662	6930	7212	7462	8265	8592	8923	9196
4375	4887	4367	4400	4658	4924	5180	5510	5795	6104	6315	6574	6833	7127	7356	8196	8484	8802	9102
4250	4689	4171	4202	4451	4705	4954	5297	5541	5797	6039	6289	6535	6802	7047	7764	8085	8396	8660
4125	4635	4110	4147	4393	4641	4885	5222	5483	5714	5978	6204	6438	6709	6947	7715	7974	8288	8541
4000	4400	3878	3909	4160	4376	4632	4925	5173	5410	5645	5881	6101	6356	6573	7316	7619	7915	8158
3875	4367	3837	3872	4100	4336	4560	4867	5092	5334	5557	5787	6010	6257	6468	7231	7516	7797	8035
3750	4308	3784	3814	4036	4270	4492	4799	5019	5247	5471	5697	5918	6153	6377	7122	7410	7695	7917
3625	4262	3732	3764	3970	4205	4424	4722	4966	5167	5405	5612	5820	6065	6275	7072	7297	7586	7814
3500	3987	3454	3485	3686	3905	4082	4323	4503	4723	4943	5151	5325	5623	5820	6400	6617	6839	7069
3375	3931	3402	3430	3627	3839	4018	4250	4424	4645	4857	5061	5229	5522	5717	6286	6502	6745	6947
3250	3881	3347	3376	3563	3768	3954	4176	4344	4564	4770	4968	5134	5425	5614	6182	6388	6639	6833
3125	3699	3163	3193	3376	3565	3881	4107	4265	4509	4705	4864	5036	5334	5510	6089	6274	6516	6709
3000	3534	2998	3024	3171	3379	3692	3908	4064	4262	4454	4640	4787	5055	5229	5745	5915	6135	6328
2875	3422	2888	2912	3087	3246	3570	3755	3924	4090	4265	4447	4595	4865	5028	5502	5686	5898	6088
2750	3370	2835	2859	3030	3183	3502	3681	3853	4004	4177	4355	4496	4764	4936	5396	5572	5790	5958
2625	3334	2793	2816	2977	3138	3432	3608	3776	3942	4110	4252	4404	4670	4826	5305	5482	5690	5840
2500	3212	2670	2692	2839	2998	3257	3394	3575	3711	3868	4022	4150	4396	4541	4965	5109	5304	5461
2375	3162	2621	2641	2797	2927	3179	3336	3490	3627	3777	3931	4058	4300	4441	4857	5012	5207	5363
2250	3108	2560	2584	2734	2859	3111	3265	3419	3541	3689	3839	3957	4203	4345	4747	4901	5084	5229
2205	3108	2560	2584	2734	2859	3111	3265	3419	3541	3689	3839	3957	4203	4345	4747	4901	5084	5229
2125	3064	2515	2540	2675	2816	3043	3196	3329	3479	3621	3738	3868	4103	4232	4656	4807	4993	5111
2080	3064	2515	2540	2675	2816	3043	3196	3329	3479	3621	3738	3868	4103	4232	4656	4807	4993	5111
2000	2923	2368	2393	2515	2641	2871	2986	3115	3247	3376	3512	3617	3829	3954	4327	4440	4601	4742
1955	2923	2368	2393	2515	2641	2871	2986	3115	3247	3376	3512	3617	3829	3954	4327	4440	4601	4742
1875	2871	2320	2340	2474	2583	2797	2928	3056	3167	3290	3417	3522	3749	3851	4210	4323	4486	4621

Width

	Rail width 52 mm				
Number of fields per glazing frame	On request	2	3	4	5
Number of compound glazings type D per door section	On request	2	3	4	5
Number of ventilation grilles per door section	2	4	6	8	10
Number of panel glazings	See accessories on page 15				

Glazing frame Page 14

Compound glazings type D Page 14

Intermediate heights Page 14

Ventilation grilles Page 14

Panel glazings Page 15

Surface coating From page 38

Accessories From page 40

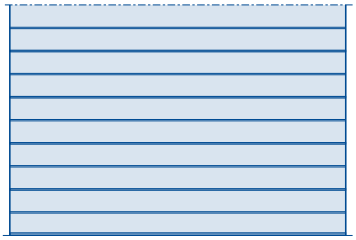
SPU F42 Plus
M-ribbed – Silkgrain

Wicket doors from page 26.

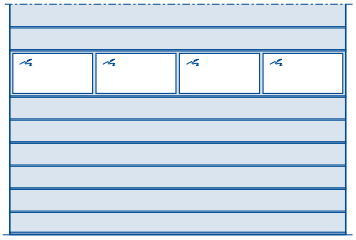
					No. of door sections	Height of door sections	Spacing
10754	**11078**	**11450**	**11739**	5000	10	500	250
10637	**10938**	**11316**	**11626**	4875	9	550	275
10507	**10814**	**11176**	**11535**	4750	9	531	265
10380	**10705**	**11038**	**11398**	4625	9	520	260
9968	**10243**	**10576**	**10871**	4500	9	500	250
9850	**10131**	**10471**	**10757**	4375	8	550	275
9315	**9610**	**9910**	**10179**	4250	8	531	265
9205	**9476**	**9766**	**10051**	4125	8	520	260
8770	**9012**	**9305**	**9564**	4000	8	500	250
8647	**8896**	**9186**	**9420**	3875	7	562	281
8518	**8788**	**9056**	**9298**	3750	7	550	275
8411	**8649**	**8921**	**9180**	3625	7	520	260
7673	**7879**	**8135**	**8357**	3500	7	500	250
7541	**7779**	**8018**	**8250**	3375	6	562	281
7422	**7639**	**7883**	**8108**	3250	6	550	275
7317	**7531**	**7772**	**7971**	3125	6	531	265
6886	**7069**	**7291**	**7489**	3000	6	500	250
6603	**6791**	**6987**	**7169**	2875	6	500 *	250
6491	**6664**	**6858**	**7041**	2750	5	550	275
6361	**6535**	**6730**	**6907**	2625	5	550 *	275
5854	**6031**	**6192**	**6343**	2500	5	500	250
5724	**5892**	**6055**	**6210**	2375	5	475	237
5614	**5756**	**5923**	**6082**	2250	4	562	281
5614	**5756**	**5923**	**6082**	2205	4	550	275
5488	**5627**	**5800**	**5948**	2125	4	531	265
5488	**5627**	**5800**	**5948**	2080	4	520	260
5044	**5192**	**5349**	**5475**	2000	4	500	250
5044	**5192**	**5349**	**5475**	1955	4	488	244
4942	**5080**	**5209**	**5345**	1875	4	468	234
6250	6500	6750	7000				
Width							

Rail width 52 mm
5
5
10

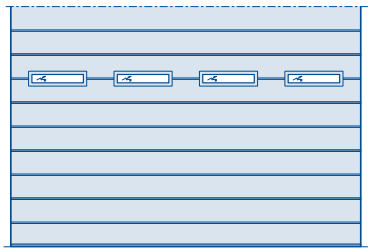
See accessories on page 15



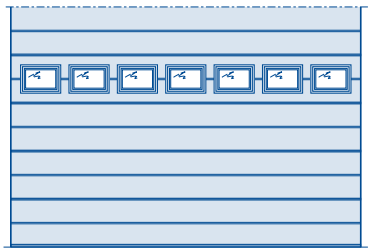
Basic model



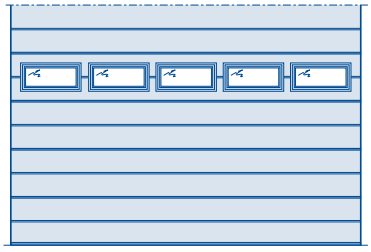
Version with glazing frame



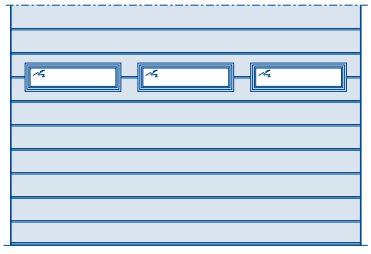
Version with compound glazing type D
Glazing dimensions (W × H): 680 × 210
Clear view (W × H): 602 × 132



Version with panel glazing type S
Glazing dimensions (W × H): 395 × 270
Clear view (W × H): 327 × 202



Version with panel glazing type M
Glazing dimensions (W × H): 620 × 270
Clear view (W × H): 552 × 202



Version with panel glazing type L
Glazing dimensions (W × H): 1004 × 270
Clear view (W × H): 936 × 202

* Deviating door section height may be required for intermediate heights.

The figures are only for visualisation. Please refer to page 15 of this price list or to the technical manual for the exact number and arrangement of glazings.

Sectional door SPU F42 Plus door sections with finger trap protection

Double-skinned steel section door, door sections 468 to 562 mm high, top door section adjusted, depth 42 mm

M-ribbed – Decograin

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 4 – 7.

For a product description, see pages 2 and 3.

Doors with a grid height over 5000 mm on request.

Grid height	Width 1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
5000	5236	4726	4764	5056	5348	5643	5993	6313	6654	6886	7178	7464	7776	8049	8920	9266	9620	9931
4875	5184	4673	4711	4999	5288	5575	5918	6231	6568	6809	7089	7372	7690	7945	8840	9175	9504	9828
4750	5131	4620	4655	4937	5222	5502	5846	6153	6467	6717	6995	7286	7588	7871	8735	9060	9415	9735
4625	5079	4561	4597	4879	5154	5432	5770	6108	6388	6661	6923	7193	7490	7768	8669	8957	9302	9615
4500	4937	4419	4456	4721	4981	5249	5548	5875	6189	6400	6662	6930	7212	7462	8265	8592	8923	9196
4375	4887	4367	4400	4658	4924	5180	5510	5795	6104	6315	6574	6833	7127	7356	8196	8484	8802	9102
4250	4689	4171	4202	4451	4705	4954	5297	5541	5797	6039	6289	6535	6802	7047	7764	8085	8396	8660
4125	4635	4110	4147	4393	4641	4885	5222	5483	5714	5978	6204	6438	6709	6947	7715	7974	8288	8541
4000	4400	3878	3909	4160	4376	4632	4925	5173	5410	5645	5881	6101	6356	6573	7316	7619	7915	8158
3875	4367	3837	3872	4100	4336	4560	4867	5092	5334	5557	5787	6010	6257	6468	7231	7516	7797	8035
3750	4308	3784	3814	4036	4270	4492	4799	5019	5247	5471	5697	5918	6153	6377	7122	7410	7695	7917
3625	4262	3732	3764	3970	4205	4424	4722	4966	5167	5405	5612	5820	6065	6275	7072	7297	7586	7814
3500	3987	3454	3485	3686	3905	4082	4323	4503	4723	4943	5151	5325	5623	5820	6400	6617	6839	7069
3375	3931	3402	3430	3627	3839	4018	4250	4424	4645	4857	5061	5229	5522	5717	6286	6502	6745	6947
3250	3881	3347	3376	3563	3768	3954	4176	4344	4564	4770	4968	5134	5425	5614	6182	6388	6639	6833
3125	3699	3163	3193	3376	3565	3881	4107	4265	4509	4705	4864	5036	5334	5510	6089	6274	6516	6709
3000	3534	2998	3024	3171	3379	3692	3908	4064	4262	4454	4640	4787	5055	5229	5745	5915	6135	6328
2875	3422	2888	2912	3087	3246	3570	3755	3924	4090	4265	4447	4595	4865	5028	5502	5686	5898	6088
2750	3370	2835	2859	3030	3183	3502	3681	3853	4004	4177	4355	4496	4764	4936	5396	5572	5790	5958
2625	3334	2793	2816	2977	3138	3432	3608	3776	3942	4110	4252	4404	4670	4826	5305	5482	5690	5840
2500	3212	2670	2692	2839	2998	3257	3394	3575	3711	3868	4022	4150	4396	4541	4965	5109	5304	5461
2375	3162	2621	2641	2797	2927	3179	3336	3490	3627	3777	3931	4058	4300	4441	4857	5012	5207	5363
2250	3108	2560	2584	2734	2859	3111	3265	3419	3541	3689	3839	3957	4203	4345	4747	4901	5084	5229
2205	3108	2560	2584	2734	2859	3111	3265	3419	3541	3689	3839	3957	4203	4345	4747	4901	5084	5229
2125	3064	2515	2540	2675	2816	3043	3196	3329	3479	3621	3738	3868	4103	4232	4656	4807	4993	5111
2080	3064	2515	2540	2675	2816	3043	3196	3329	3479	3621	3738	3868	4103	4232	4656	4807	4993	5111
2000	2923	2368	2393	2515	2641	2871	2986	3115	3247	3376	3512	3617	3829	3954	4327	4440	4601	4742
1955	2923	2368	2393	2515	2641	2871	2986	3115	3247	3376	3512	3617	3829	3954	4327	4440	4601	4742
1875	2871	2320	2340	2474	2583	2797	2928	3056	3167	3290	3417	3522	3749	3851	4210	4323	4486	4621

Width From 1200

Width

	Rail width 52 mm				
Number of fields per glazing frame	On request	2	3	4	5
Number of compound glazings type D per door section	On request	2	3	4	5
Number of ventilation grilles per door section	2	4	6	8	10
Number of panel glazings	See accessories on page 15				

Glazing frame Page 14

Compound glazings type D Page 14

Intermediate heights Page 14

Ventilation grilles Page 14

Panel glazings Page 15

Surface coating From page 38

Accessories From page 40

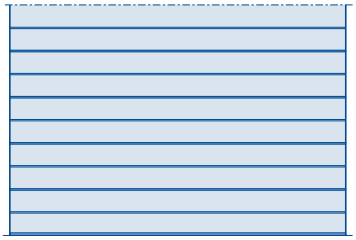
SPU F42 Plus
M-ribbed – Decograin

Wicket doors from page 26.

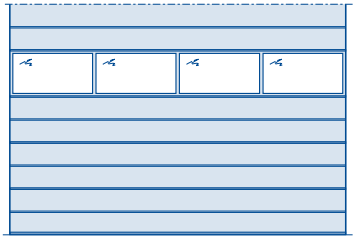
					No. of door sections	Height of door sections	Spacing
10754	**11078**	**11450**	**11739**	5000	10	500	250
10637	**10938**	**11316**	**11626**	4875	9	550	275
10507	**10814**	**11176**	**11535**	4750	9	531	265
10380	**10705**	**11038**	**11398**	4625	9	520	260
9968	**10243**	**10576**	**10871**	4500	9	500	250
9850	**10131**	**10471**	**10757**	4375	8	550	275
9315	**9610**	**9910**	**10179**	4250	8	531	265
9205	**9476**	**9766**	**10051**	4125	8	520	260
8770	**9012**	**9305**	**9564**	4000	8	500	250
8647	**8896**	**9186**	**9420**	3875	7	562	281
8518	**8788**	**9056**	**9298**	3750	7	550	275
8411	**8649**	**8921**	**9180**	3625	7	520	260
7673	**7879**	**8135**	**8357**	3500	7	500	250
7541	**7779**	**8018**	**8250**	3375	6	562	281
7422	**7639**	**7883**	**8108**	3250	6	550	275
7317	**7531**	**7772**	**7971**	3125	6	531	265
6886	**7069**	**7291**	**7489**	3000	6	500	250
6603	**6791**	**6987**	**7169**	2875	6	500 *	250
6491	**6664**	**6858**	**7041**	2750	5	550	275
6361	**6535**	**6730**	**6907**	2625	5	550 *	275
5854	**6031**	**6192**	**6343**	2500	5	500	250
5724	**5892**	**6055**	**6210**	2375	5	475	237
5614	**5756**	**5923**	**6082**	2250	4	562	281
5614	**5756**	**5923**	**6082**	2205	4	550	275
5488	**5627**	**5800**	**5948**	2125	4	531	265
5488	**5627**	**5800**	**5948**	2080	4	520	260
5044	**5192**	**5349**	**5475**	2000	4	500	250
5044	**5192**	**5349**	**5475**	1955	4	488	244
4942	**5080**	**5209**	**5345**	1875	4	468	234
6250	6500	6750	7000				
Width							

Rail width 52 mm
5
5
10

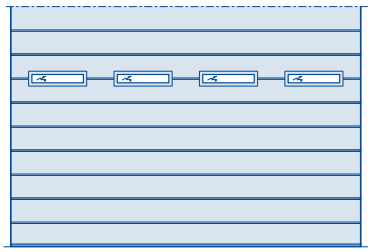
See accessories on page 15



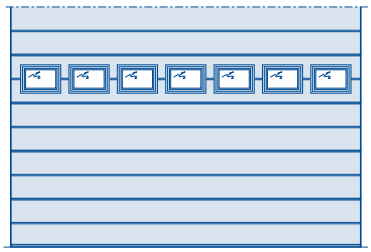
Basic model



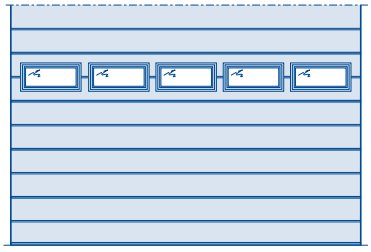
Version with glazing frame



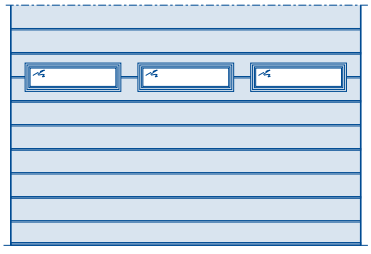
Version with compound glazing type D
Glazing dimensions (W × H): 680 × 210
Clear view (W × H): 602 × 132



Version with panel glazing type S
Glazing dimensions (W × H): 395 × 270
Clear view (W × H): 327 × 202



Version with panel glazing type M
Glazing dimensions (W × H): 620 × 270
Clear view (W × H): 552 × 202



Version with panel glazing type L
Glazing dimensions (W × H): 1004 × 270
Clear view (W × H): 936 × 202

* Deviating door section height may be required for intermediate heights.

The figures are only for visualisation. Please refer to page 15 of this price list or to the technical manual for the exact number and arrangement of glazings.

Sectional door SPU F42 Plus – M-ribbed

Double-skinned steel section door, door sections 468 to 562 mm high, top door section adjusted, depth 42 mm

Glazing frames, compound glazings, intermediate heights and ventilation grilles

Glazing frame (Not possible with version RC 2!)						
Glazing frame height up to max. door section height acc. to the door design			**Glazing frame made of standard profile** Rail 52 mm		**Thermo glazing frame made of a profile with thermal break** Rail 52 mm	
Version with:	U_g in W/(m²·K)		**Article no.**	**€ per m²**	**Article no.**	**€ per m²**
Clear synthetic single pane (FK) [1]	3 mm		3091773	**265**	–	**–**
Synthetic single pane, crystal structure (KR) [1]	3 mm		3091774	**265**	–	**–**
Clear synthetic double pane (S2)	26 mm	[U_g = 2.6]	3091091	**265**	3091095	**394**
Synthetic double pane, crystal structure (U2)	26 mm	[U_g = 2.6]	3094594	**265**	3094595	**394**
Synthetic double pane, grey tinted (A2)	26 mm	[U_g = 2.6]	3091782	**299**	3091788	**441**
Synthetic double pane, white tinted (opal) (M2)	26 mm	[U_g = 2.6]	3091784	**299**	3091790	**441**
Clear synthetic triple pane (S 3)	26 mm	[U_g = 1.9]	3091776	**355**	3091769	**469**
Synthetic triple pane, crystal structure (U3)	26 mm	[U_g = 1.9]	3094597	**355**	3094598	**469**
Synthetic triple pane, grey tinted (A 3)	26 mm	[U_g = 1.9]	3091785	**399**	3091791	**515**
Synthetic triple pane, white tinted (opal) (M3)	26 mm	[U_g = 1.9]	3091787	**399**	3091793	**515**
Clear polycarbonate single pane (P)	6 mm		3091775	**384**	–	**–**
Clear polycarbonate double pane (C2)	26 mm	[U_g = 2.7]	3091093	**384**	3091097	**510**
Single pane made of laminated safety glass (VG) [3]	6 mm		3091777	**657**	–	**–**
Double pane made of single-pane safety glass (E2) [3]	26 mm	[U_g = 2.6]	3091778	**1006**	3091770	**1137**
Climatic double pane made of single-pane safety glass (G2) [3]	26 mm	[U_g = 1.1]	3091779	**1140**	3091771	**1265**
Multiple-moulded pane (S)	16 mm	[U_g = 1.9]	3091090	**265**	3091768	**394**
Stainless steel expanded mesh (SE) [1], ventilation cross-section 54 % (colour coating not possible)	5 mm		3091094	**310**	–	**–**
Perforated steel sheet made of stainless steel (LB) [1], 8 mm perforation, ventilation cross-section 40 % (colour coating not possible)	1.5 mm		3091780	**432**	–	**–**
Prepared for on-site infill (BS) [2] (anodised glazing bead required)			3091781	**265**	3091772	**394**

Compound glazings (Not possible with version RC 2!)	**Article no.**		**€**
Type D: plastic frame with clear synthetic double pane, 16 mm, black	3090415	Each	**107**
Type D: plastic frame with clear synthetic double pane, 16 mm	3090416	Each	**107**
Type D: plastic frame with synthetic double pane, crystal structure, 16 mm, black	3094714	Each	**107**
Type D: plastic frame with synthetic double pane, crystal structure, 16 mm	3094715	Each	**107**

Intermediate heights	**No surcharge**

Ventilation grilles	**Article no.**		**€**
Black plastic ventilation grille, ventilation cross-section 40 cm² per grille	3092450	Each	**35**
Sliding cover for ventilation grille	3092451	Each	**50**

Surface coating	From page 38

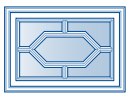
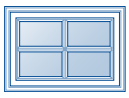
Accessories	From page 40

1) Max. field width 1230 mm, additional field may be required!
2) On request
3) Only for door width up to 6000 mm; on request

Sectional door SPU F42 Plus – M-ribbed

Double-skinned steel section door, door sections 468 to 562 mm high, top door section adjusted, depth 42 mm

Panel glazings

Panel glazing type S (Not possible with version RC 2!)			Article no.		€
	S 0	With clear synthetic double pane, 22 mm	3090423	Each	107
		With synthetic double pane, crystal structure, 22 mm	3094716	Each	107
	S 1	With clear synthetic double pane, 22 mm	3090425	Each	132
		With synthetic double pane, crystal structure, 22 mm	3094717	Each	132
	S 2	With clear synthetic double pane, 22 mm	3090427	Each	132
		With synthetic double pane, crystal structure, 22 mm	3094718	Each	132
(consists of 4 glazings)	S 10	With clear synthetic double pane, 22 mm	3090429	Per set	540
		With synthetic double pane, crystal structure, 22 mm	3094719	Per set	540
(consists of 5 glazings)	S 20	With clear synthetic double pane, 22 mm	3090431	Per set	675
		With synthetic double pane, crystal structure, 22 mm	3094720	Per set	675
(consists of 6 glazings)	S 30	With clear synthetic double pane, 22 mm	3090433	Per set	810
		With synthetic double pane, crystal structure, 22 mm	3094721	Per set	810
(consists of 7 glazings)	S 40	With clear synthetic double pane, 22 mm	3090435	Per set	945
		With synthetic double pane, crystal structure, 22 mm	3094722	Per set	945
(consists of 8 glazings)	S 50	With clear synthetic double pane, 22 mm	3090437	Per set	1080
		With synthetic double pane, crystal structure, 22 mm	3094723	Per set	1080
(consists of 8 glazings)	S 60	With clear synthetic double pane, 22 mm	3090439	Per set	1080
		With synthetic double pane, crystal structure, 22 mm	3094724	Per set	1080

Max. no. of glazings per door section: Door width: Up to 1750 mm 2 units Up to 3500 mm 5 units Up to 5500 mm 8 units Up to 7000 mm 11 units
Up to 2125 mm 3 units Up to 4000 mm 6 units Up to 6250 mm 9 units
Up to 2750 mm 4 units Up to 4750 mm 7 units Up to 6750 mm 10 units

Notice: Does not apply to doors with wicket door!

Panel glazing type M (Not possible with version RC 2!)			Article no.		€
	M 0	With clear synthetic double pane, 22 mm	3090441	Each	130
		With synthetic double pane, crystal structure, 22 mm	3094725	Each	130

Max. no. of glazings per door section: Door width: Up to 1520 mm 1 unit Up to 3690 mm 4 units Up to 5870 mm 7 units
Up to 2250 mm 2 units Up to 4420 mm 5 units Up to 6600 mm 8 units
Up to 2970 mm 3 units Up to 5150 mm 6 units Up to 7000 mm 9 units

Notice: Does not apply to doors with wicket door!

Panel glazing type L (Not possible with version RC 2! / Not for doors with wicket door!)			Article no.		€
	L 0	With clear synthetic double pane, 22 mm	3090445	Each	169
		With synthetic double pane, crystal structure, 22 mm	3094726	Each	169

Max. no. of glazings per door section: Door width: Up to 2240 mm 1 unit Up to 4490 mm 3 units Up to 6720 mm 5 units
Up to 3400 mm 2 units Up to 5610 mm 4 units Up to 7000 mm 6 units

Surface coating for glazing frames Page 38 – 39

Sectional door SPU F42 Plus door sections with finger trap protection

Double-skinned steel section door, door sections 468 to 562 mm high, top door section adjusted, depth 42 mm

L-ribbed – Woodgrain-embossed

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 4 – 7.

For a product description, see pages 2 and 3.

Doors with a grid height over 5000 mm on request.

Grid height	Width From 1200 1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500
5000	4958	4396	4403	4655	4913	5172	5488	5767	6071	6273	6525	6776	7051	7291	8114	8419
4875	4913	4348	4358	4608	4862	5116	5424	5699	6001	6204	6452	6698	6983	7203	8053	8349
4750	4863	4304	4309	4554	4806	5055	5362	5633	5912	6128	6373	6630	6896	7146	7965	8252
4625	4817	4252	4257	4505	4747	4993	5299	5599	5844	6086	6315	6551	6813	7059	7915	8169
4500	4681	4119	4127	4358	4587	4822	5091	5380	5660	5842	6072	6307	6556	6775	7539	7828
4375	4636	4070	4081	4307	4541	4768	5057	5311	5589	5770	6001	6226	6490	6687	7481	7739
4250	4448	3886	3891	4108	4332	4553	4859	5078	5300	5513	5733	5946	6183	6399	7076	7366
4125	4399	3831	3842	4059	4279	4493	4797	5030	5229	5465	5661	5870	6108	6314	7045	7272
4000	4174	3615	3618	3841	4026	4252	4518	4734	4944	5148	5357	5546	5775	5961	6664	6940
3875	4143	3578	3587	3788	3996	4191	4474	4669	4879	5078	5275	5472	5692	5878	6597	6858
3750	4091	3529	3534	3735	3939	4134	4410	4606	4805	5004	5201	5397	5606	5799	6509	6771
3625	4049	3488	3494	3679	3886	4081	4345	4562	4742	4950	5132	5312	5531	5714	6474	6677
3500	3790	3220	3229	3402	3599	3749	3967	4120	4316	4509	4690	4841	5113	5284	5834	6027
3375	3738	3170	3180	3354	3541	3698	3905	4055	4250	4437	4617	4762	5029	5198	5737	5926
3250	3692	3126	3133	3303	3479	3641	3842	3988	4183	4367	4541	4682	4945	5114	5650	5834
3125	3516	2954	2961	3121	3290	3581	3784	3918	4141	4310	4449	4601	4869	5025	5574	5737
3000	3358	2799	2806	2932	3116	3405	3599	3733	3908	4081	4242	4370	4610	4769	5254	5402
2875	3253	2693	2701	2856	2996	3294	3454	3605	3750	3906	4064	4194	4445	4584	5033	5192
2750	3207	2650	2655	2808	2939	3231	3393	3546	3681	3831	3988	4110	4358	4505	4943	5099
2625	3176	2616	2621	2765	2903	3172	3333	3481	3629	3779	3904	4033	4280	4417	4869	5029
2500	3062	2501	2506	2630	2774	3015	3136	3293	3414	3551	3689	3801	4024	4151	4554	4678
2375	3018	2454	2462	2598	2713	2944	3088	3224	3343	3476	3615	3719	3946	4067	4459	4601
2250	2969	2404	2414	2546	2655	2888	3025	3162	3270	3402	3534	3635	3864	3992	4371	4507
2205	2969	2404	2414	2546	2655	2888	3025	3162	3270	3402	3534	3635	3864	3992	4371	4507
2125	2932	2365	2375	2501	2624	2833	2969	3085	3220	3345	3448	3559	3784	3896	4297	4433
2080	2932	2365	2375	2501	2624	2833	2969	3085	3220	3345	3448	3559	3784	3896	4297	4433
2000	2799	2231	2239	2350	2457	2673	2770	2888	3005	3119	3239	3331	3528	3638	3995	4090
1955	2799	2231	2239	2350	2457	2673	2770	2888	3005	3119	3239	3331	3528	3638	3995	4090
1875	2751	2187	2194	2315	2406	2606	2728	2839	2938	3046	3159	3249	3463	3550	3893	3995

Width

	Rail width 52 mm			
Number of fields per glazing frame	On request	2	3	4
Number of compound glazings type D per door section	On request	2	3	4
Number of ventilation grilles per door section	2	4	6	8
Number of panel glazings	See accessories on page 23			

Glazing frame Page 22

Compound glazings type D Page 22

Intermediate heights Page 22

Ventilation grilles Page 22

Panel glazings Page 23

Design elements for L-ribbed Woodgrain version Page 24

Surface coating From page 38

Accessories From page 40

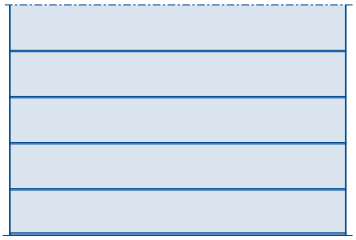
SPU F42 Plus
L-ribbed – Woodgrain

Wicket doors from page 26.

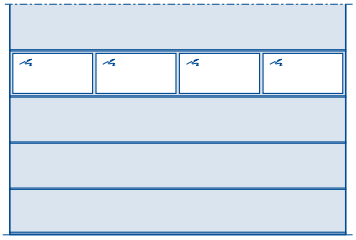
							No. of door sections	Height of door sections
	8740	**9014**	**9794**	**10077**	**10415**	**10664**	5000	10	500
	8644	**8928**	**9693**	**9961**	**10303**	**10576**	4875	9	550
	8574	**8863**	**9586**	**9858**	**10184**	**10511**	4750	9	531
	8481	**8763**	**9482**	**9772**	**10071**	**10395**	4625	9	520
	8124	**8369**	**9098**	**9339**	**9641**	**9898**	4500	9	500
	8024	**8294**	**8999**	**9251**	**9557**	**9807**	4375	8	550
	7642	**7875**	**8495**	**8757**	**9024**	**9265**	4250	8	531
	7554	**7776**	**8404**	**8644**	**8905**	**9160**	4125	8	520
	7207	**7422**	**7998**	**8211**	**8475**	**8703**	4000	8	500
	7108	**7318**	**7894**	**8114**	**8379**	**8586**	3875	7	562
	7026	**7220**	**7785**	**8029**	**8267**	**8485**	3750	7	550
	6937	**7137**	**7703**	**7915**	**8158**	**8389**	3625	7	520
	6225	**6423**	**6996**	**7178**	**7408**	**7604**	3500	7	500
	6144	**6323**	**6885**	**7098**	**7315**	**7520**	3375	6	562
	6063	**6228**	**6785**	**6984**	**7199**	**7400**	3250	6	550
	5958	**6124**	**6700**	**6896**	**7110**	**7286**	3125	6	531
	5602	**5775**	**6301**	**6462**	**6661**	**6837**	3000	6	500
	5385	**5549**	**6038**	**6206**	**6385**	**6547**	2875	6	479
	5297	**5445**	**5949**	**6107**	**6279**	**6436**	2750	5	550
	5218	**5345**	**5840**	**5998**	**6177**	**6327**	2625	5	525
	4854	**4995**	**5363**	**5522**	**5662**	**5800**	2500	5	500
	4777	**4918**	**5256**	**5405**	**5548**	**5693**	2375	5	475
	4676	**4804**	**5168**	**5295**	**5443**	**5583**	2250	4	562
	4676	**4804**	**5168**	**5295**	**5443**	**5583**	2205	4	550
	4604	**4706**	**5058**	**5187**	**5343**	**5474**	2125	4	531
	4604	**4706**	**5058**	**5187**	**5343**	**5474**	2080	4	520
	4237	**4361**	**4646**	**4782**	**4920**	**5035**	2000	4	500
	4237	**4361**	**4646**	**4782**	**4920**	**5035**	1955	4	488
	4141	**4261**	**4562**	**4690**	**4804**	**4923**	1875	4	468
	5750	6000	6250	6500	6750	7000			
	Width								

Rail width 52 mm
5
5
10

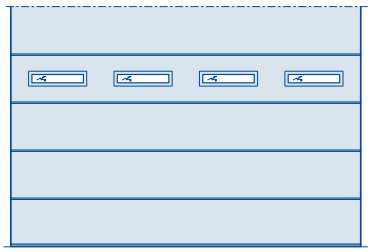
See accessories on page 23



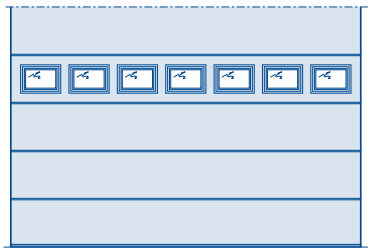
Basic model



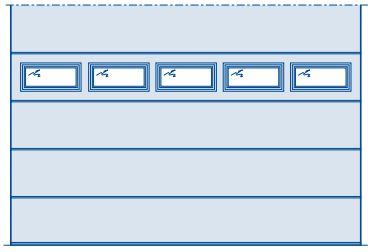
Version with glazing frame



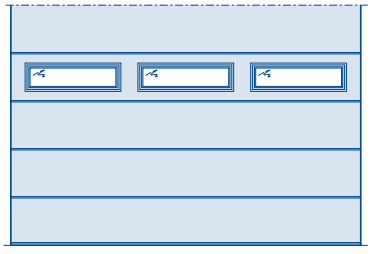
Version with compound glazing type D
Glazing dimensions (W × H): 680 × 210
Clear view (W × H): 602 × 132



Version with panel glazing type S
Glazing dimensions (W × H): 395 × 270
Clear view (W × H): 327 × 202



Version with panel glazing type M
Glazing dimensions (W × H): 620 × 270
Clear view (W × H): 552 × 202



Version with panel glazing type L
Glazing dimensions (W × H): 1004 × 270
Clear view (W × H): 936 × 202

The figures are only for visualisation. Please refer to page 23 of this price list or to the technical manual for the exact number and arrangement of glazings.

Sectional door SPU F42 Plus door sections with finger trap protection

Double-skinned steel section door, door sections 468 to 562 mm high, top door section adjusted, depth 42 mm

L-ribbed – Silkgrain

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 4 – 7.

For a product description, see pages 2 and 3.

Doors with a grid height over 5000 mm on request.

Grid height	Width From 1200 1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500
5000	5795	5221	5259	5576	5897	6221	6608	6957	7331	7588	7909	8222	8567	8866	9832	10210
4875	5733	5161	5199	5518	5833	6147	6525	6869	7241	7504	7812	8124	8472	8752	9737	10109
4750	5679	5102	5139	5445	5759	6070	6450	6782	7128	7404	7708	8032	8361	8673	9632	9982
4625	5620	5036	5076	5382	5686	5991	6365	6732	7044	7345	7630	7928	8253	8557	9556	9871
4500	5459	4883	4917	5209	5496	5790	6120	6475	6822	7054	7345	7638	7946	8221	9113	9465
4375	5407	4822	4857	5141	5433	5714	6075	6388	6727	6961	7246	7529	7856	8108	9033	9349
4250	5187	4601	4640	4912	5187	5464	5841	6112	6389	6659	6931	7199	7492	7766	8556	8912
4125	5128	4541	4574	4845	5119	5385	5758	6045	6300	6589	6837	7097	7392	7655	8505	8788
4000	4866	4283	4314	4591	4829	5107	5433	5702	5963	6222	6480	6723	7001	7240	8060	8396
3875	4830	4239	4272	4522	4782	5029	5372	5618	5879	6125	6377	6626	6894	7127	7968	8284
3750	4765	4177	4208	4456	4711	4954	5295	5535	5783	6032	6282	6523	6779	7027	7849	8164
3625	4716	4122	4152	4380	4641	4884	5209	5478	5699	5960	6189	6415	6685	6914	7796	8047
3500	4414	3816	3848	4065	4308	4500	4769	4965	5207	5450	5674	5867	6196	6412	7054	7294
3375	4348	3759	3785	4003	4237	4430	4687	4883	5119	5351	5576	5763	6086	6298	6928	7167
3250	4293	3700	3725	3933	4158	4364	4607	4791	5032	5261	5478	5657	5977	6189	6813	7043
3125	4091	3494	3522	3724	3933	4283	4533	4707	4976	5185	5362	5549	5878	6071	6715	6914
3000	3910	3309	3340	3505	3727	4073	4311	4483	4695	4912	5114	5277	5570	5763	6336	6516
2875	3788	3191	3215	3407	3583	3940	4143	4325	4509	4706	4901	5065	5363	5540	6067	6267
2750	3732	3131	3159	3344	3513	3861	4060	4251	4418	4608	4803	4955	5253	5438	5948	6144
2625	3691	3085	3112	3287	3465	3789	3980	4163	4348	4535	4689	4857	5152	5322	5851	6044
2500	3554	2947	2973	3132	3308	3596	3747	3941	4095	4264	4434	4577	4846	5004	5474	5629
2375	3503	2896	2918	3087	3231	3512	3686	3852	4000	4164	4337	4474	4744	4896	5355	5526
2250	3439	2828	2852	3020	3159	3432	3604	3774	3908	4071	4237	4365	4638	4793	5236	5405
2205	3439	2828	2852	3020	3159	3432	3604	3774	3908	4071	4237	4365	4638	4793	5236	5405
2125	3393	2781	2806	2958	3112	3359	3528	3675	3841	3996	4125	4265	4525	4670	5139	5304
2080	3393	2781	2806	2958	3112	3359	3528	3675	3841	3996	4125	4265	4525	4670	5139	5304
2000	3235	2621	2643	2777	2918	3170	3295	3435	3584	3724	3874	3991	4226	4364	4777	4896
1955	3235	2621	2643	2777	2918	3170	3295	3435	3584	3724	3874	3991	4226	4364	4777	4896
1875	3180	2568	2586	2733	2850	3088	3235	3372	3497	3630	3773	3886	4139	4249	4647	4771

Width

	Rail width 52 mm			
Number of fields per glazing frame	On request	2	3	4
Number of compound glazings type D per door section	On request	2	3	4
Number of ventilation grilles per door section	2	4	6	8
Number of panel glazings	See accessories on page 23			

Glazing frame Page 22

Compound glazings type D Page 22

Intermediate heights Page 22

Ventilation grilles Page 22

Panel glazings Page 23

Design elements for L-ribbed Silkgrain version Page 24

Surface coating From page 38

Accessories From page 40

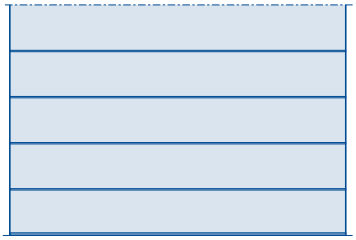
SPU F42 Plus
L-ribbed – Silkgrain

Wicket doors from page 26.

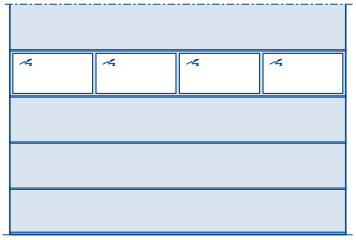
							No. of door sections	Height of door sections
	10599	**10938**	**11852**	**12208**	**12615**	**12934**	5000	10	500
	10473	**10826**	**11720**	**12055**	**12472**	**12807**	4875	9	550
	10376	**10732**	**11581**	**11915**	**12317**	**12714**	4750	9	531
	10250	**10599**	**11443**	**11799**	**12168**	**12562**	4625	9	520
	9834	**10135**	**10986**	**11289**	**11655**	**11980**	4500	9	500
	9700	**10032**	**10857**	**11170**	**11542**	**11856**	4375	8	550
	9256	**9543**	**10267**	**10591**	**10922**	**11217**	4250	8	531
	9132	**9412**	**10146**	**10443**	**10763**	**11080**	4125	8	520
	8723	**8990**	**9667**	**9932**	**10255**	**10538**	4000	8	500
	8595	**8855**	**9533**	**9805**	**10124**	**10383**	3875	7	562
	8483	**8726**	**9389**	**9687**	**9981**	**10246**	3750	7	550
	8363	**8612**	**9272**	**9536**	**9837**	**10119**	3625	7	520
	7540	**7785**	**8458**	**8684**	**8965**	**9210**	3500	7	500
	7434	**7656**	**8311**	**8575**	**8838**	**9094**	3375	6	562
	7319	**7529**	**8179**	**8421**	**8689**	**8936**	3250	6	550
	7184	**7395**	**8064**	**8304**	**8569**	**8787**	3125	6	531
	6764	**6975**	**7591**	**7791**	**8035**	**8253**	3000	6	500
	6503	**6709**	**7278**	**7488**	**7704**	**7903**	2875	6	500 *
	6382	**6568**	**7158**	**7351**	**7562**	**7759**	2750	5	550
	6274	**6435**	**7011**	**7205**	**7426**	**7617**	2625	5	550 *
	5847	**6026**	**6456**	**6650**	**6824**	**6998**	2500	5	500
	5741	**5917**	**6314**	**6497**	**6677**	**6851**	2375	5	475
	5609	**5767**	**6193**	**6348**	**6535**	**6707**	2250	4	562
	5609	**5767**	**6193**	**6348**	**6535**	**6707**	2205	4	550
	5510	**5636**	**6053**	**6209**	**6400**	**6562**	2125	4	531
	5510	**5636**	**6053**	**6209**	**6400**	**6562**	2080	4	520
	5079	**5229**	**5566**	**5727**	**5899**	**6039**	2000	4	500
	5079	**5229**	**5566**	**5727**	**5899**	**6039**	1955	4	488
	4950	**5099**	**5453**	**5606**	**5745**	**5894**	1875	4	468
	5750	6000	6250	6500	6750	7000			
	Width								

Rail width 52 mm
5
5
10

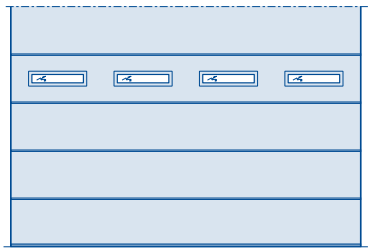
See accessories on page 23



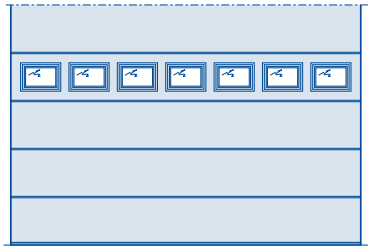
Basic model



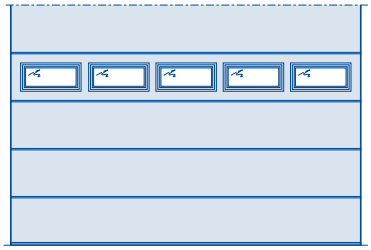
Version with glazing frame



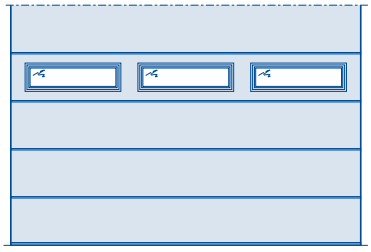
Version with compound glazing type D
Glazing dimensions (W × H): 680 × 210
Clear view (W × H): 602 × 132



Version with panel glazing type S
Glazing dimensions (W × H): 395 × 270
Clear view (W × H): 327 × 202



Version with panel glazing type M
Glazing dimensions (W × H): 620 × 270
Clear view (W × H): 552 × 202



Version with panel glazing type L
Glazing dimensions (W × H): 1004 × 270
Clear view (W × H): 936 × 202

* Deviating door section height may be required for intermediate heights.

The figures are only for visualisation. Please refer to page 23 of this price list or to the technical manual for the exact number and arrangement of glazings.

Sectional door SPU F42 Plus door sections with finger trap protection

Double-skinned steel section door, door sections 468 to 562 mm high, top door section adjusted, depth 42 mm

L-ribbed – Decograin

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 4 – 7.

For a product description, see pages 2 and 3.

Doors with a grid height over 5000 mm on request.

Grid height	Width From 1200 1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500
5000	5795	5221	5259	5576	5897	6221	6608	6957	7331	7588	7909	8222	8567	8866	9832	10210
4875	5733	5161	5199	5518	5833	6147	6525	6869	7241	7504	7812	8124	8472	8752	9737	10109
4750	5679	5102	5139	5445	5759	6070	6450	6782	7128	7404	7708	8032	8361	8673	9632	9982
4625	5620	5036	5076	5382	5686	5991	6365	6732	7044	7345	7630	7928	8253	8557	9556	9871
4500	5459	4883	4917	5209	5496	5790	6120	6475	6822	7054	7345	7638	7946	8221	9113	9465
4375	5407	4822	4857	5141	5433	5714	6075	6388	6727	6961	7246	7529	7856	8108	9033	9349
4250	5187	4601	4640	4912	5187	5464	5841	6112	6389	6659	6931	7199	7492	7766	8556	8912
4125	5128	4541	4574	4845	5119	5385	5758	6045	6300	6589	6837	7097	7392	7655	8505	8788
4000	4866	4283	4314	4591	4829	5107	5433	5702	5963	6222	6480	6723	7001	7240	8060	8396
3875	4830	4239	4272	4522	4782	5029	5372	5618	5879	6125	6377	6626	6894	7127	7968	8284
3750	4765	4177	4208	4456	4711	4954	5295	5535	5783	6032	6282	6523	6779	7027	7849	8164
3625	4716	4122	4152	4380	4641	4884	5209	5478	5699	5960	6189	6415	6685	6914	7796	8047
3500	4414	3816	3848	4065	4308	4500	4769	4965	5207	5450	5674	5867	6196	6412	7054	7294
3375	4348	3759	3785	4003	4237	4430	4687	4883	5119	5351	5576	5763	6086	6298	6928	7167
3250	4293	3700	3725	3933	4158	4364	4607	4791	5032	5261	5478	5657	5977	6189	6813	7043
3125	4091	3494	3522	3724	3933	4283	4533	4707	4976	5185	5362	5549	5878	6071	6715	6914
3000	3910	3309	3340	3505	3727	4073	4311	4483	4695	4912	5114	5277	5570	5763	6336	6516
2875	3788	3191	3215	3407	3583	3940	4143	4325	4509	4706	4901	5065	5363	5540	6067	6267
2750	3732	3131	3159	3344	3513	3861	4060	4251	4418	4608	4803	4955	5253	5438	5948	6144
2625	3691	3085	3112	3287	3465	3789	3980	4163	4348	4535	4689	4857	5152	5322	5851	6044
2500	3554	2947	2973	3132	3308	3596	3747	3941	4095	4264	4434	4577	4846	5004	5474	5629
2375	3503	2896	2918	3087	3231	3512	3686	3852	4000	4164	4337	4474	4744	4896	5355	5526
2250	3439	2828	2852	3020	3159	3432	3604	3774	3908	4071	4237	4365	4638	4793	5236	5405
2205	3439	2828	2852	3020	3159	3432	3604	3774	3908	4071	4237	4365	4638	4793	5236	5405
2125	3393	2781	2806	2958	3112	3359	3528	3675	3841	3996	4125	4265	4525	4670	5139	5304
2080	3393	2781	2806	2958	3112	3359	3528	3675	3841	3996	4125	4265	4525	4670	5139	5304
2000	3235	2621	2643	2777	2918	3170	3295	3435	3584	3724	3874	3991	4226	4364	4777	4896
1955	3235	2621	2643	2777	2918	3170	3295	3435	3584	3724	3874	3991	4226	4364	4777	4896
1875	3180	2568	2586	2733	2850	3088	3235	3372	3497	3630	3773	3886	4139	4249	4647	4771

Width

	Rail width 52 mm			
Number of fields per glazing frame	On request	2	3	4
Number of compound glazings type D per door section	On request	2	3	4
Number of ventilation grilles per door section	2	4	6	8
Number of panel glazings	See accessories on page 23			

Glazing frame Page 22

Compound glazings type D Page 22

Intermediate heights Page 22

Ventilation grilles Page 22

Panel glazings Page 23

Design elements for L-ribbed Decograin version Page 24

Surface coating From page 38

Accessories From page 40

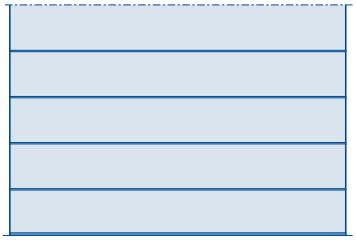
SPU F42 Plus
L-ribbed – Decograin

Wicket doors from page 26.

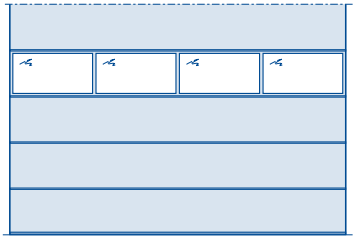
							No. of door sections	Height of door sections
	10599	**10938**	**11852**	**12208**	**12615**	**12934**	5000	10	500
	10473	**10826**	**11720**	**12055**	**12472**	**12807**	4875	9	550
	10376	**10732**	**11581**	**11915**	**12317**	**12714**	4750	9	531
	10250	**10599**	**11443**	**11799**	**12168**	**12562**	4625	9	520
	9834	**10135**	**10986**	**11289**	**11655**	**11980**	4500	9	500
	9700	**10032**	**10857**	**11170**	**11542**	**11856**	4375	8	550
	9256	**9543**	**10267**	**10591**	**10922**	**11217**	4250	8	531
	9132	**9412**	**10146**	**10443**	**10763**	**11080**	4125	8	520
	8723	**8990**	**9667**	**9932**	**10255**	**10538**	4000	8	500
	8595	**8855**	**9533**	**9805**	**10124**	**10383**	3875	7	562
	8483	**8726**	**9389**	**9687**	**9981**	**10246**	3750	7	550
	8363	**8612**	**9272**	**9536**	**9837**	**10119**	3625	7	520
	7540	**7785**	**8458**	**8684**	**8965**	**9210**	3500	7	500
	7434	**7656**	**8311**	**8575**	**8838**	**9094**	3375	6	562
	7319	**7529**	**8179**	**8421**	**8689**	**8936**	3250	6	550
	7184	**7395**	**8064**	**8304**	**8569**	**8787**	3125	6	531
	6764	**6975**	**7591**	**7791**	**8035**	**8253**	3000	6	500
	6503	**6709**	**7278**	**7488**	**7704**	**7903**	2875	6	500 *
	6382	**6568**	**7158**	**7351**	**7562**	**7759**	2750	5	550
	6274	**6435**	**7011**	**7205**	**7426**	**7617**	2625	5	550 *
	5847	**6026**	**6456**	**6650**	**6824**	**6998**	2500	5	500
	5741	**5917**	**6314**	**6497**	**6677**	**6851**	2375	5	475
	5609	**5767**	**6193**	**6348**	**6535**	**6707**	2250	4	562
	5609	**5767**	**6193**	**6348**	**6535**	**6707**	2205	4	550
	5510	**5636**	**6053**	**6209**	**6400**	**6562**	2125	4	531
	5510	**5636**	**6053**	**6209**	**6400**	**6562**	2080	4	520
	5079	**5229**	**5566**	**5727**	**5899**	**6039**	2000	4	500
	5079	**5229**	**5566**	**5727**	**5899**	**6039**	1955	4	488
	4950	**5099**	**5453**	**5606**	**5745**	**5894**	1875	4	468
	5750	6000	6250	6500	6750	7000			
	Width								

Rail width 52 mm
5
5
10

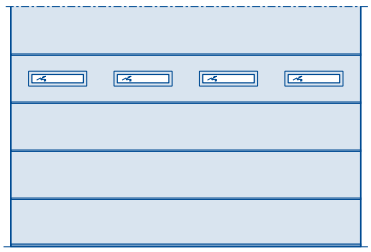
See accessories on page 23



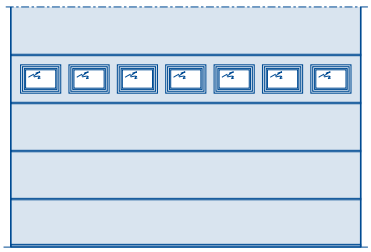
Basic model



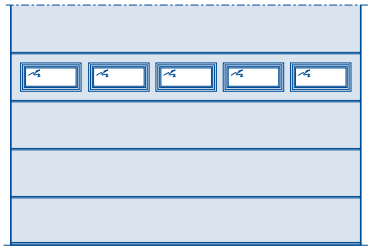
Version with glazing frame



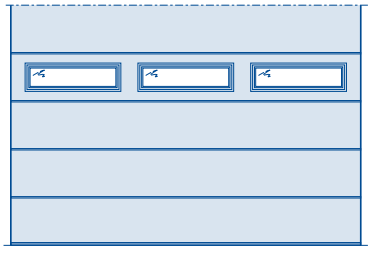
Version with compound glazing type D
Glazing dimensions (W × H): 680 × 210
Clear view (W × H): 602 × 132



Version with panel glazing type S
Glazing dimensions (W × H): 395 × 270
Clear view (W × H): 327 × 202



Version with panel glazing type M
Glazing dimensions (W × H): 620 × 270
Clear view (W × H): 552 × 202



Version with panel glazing type L
Glazing dimensions (W × H): 1004 × 270
Clear view (W × H): 936 × 202

* Deviating door section height may be required for intermediate heights.

The figures are only for visualisation. Please refer to page 23 of this price list or to the technical manual for the exact number and arrangement of glazings.

Sectional door SPU F42 Plus – L-ribbed

Double-skinned steel section door, door sections 468 to 562 mm high, top door section adjusted, depth 42 mm

Glazing frames, compound glazings, intermediate heights and ventilation grilles

Glazing frame (Not possible with version RC 2!)						
Glazing frame height up to max. door section height acc. to the door design			**Glazing frame made of standard profile** Rail 52 mm		**Thermo glazing frame made of a profile with thermal break** Rail 52 mm	
Version with:	U_g in W/(m²·K)		**Article no.**	**€ per m²**	**Article no.**	**€ per m²**
Clear synthetic single pane (FK) [1]	3 mm		3091773	**265**	–	**–**
Synthetic single pane, crystal structure (KR) [1]	3 mm		3091774	**265**	–	**–**
Clear synthetic double pane (S2)	26 mm	[U_g = 2.6]	3091091	**265**	3091095	**394**
Synthetic double pane, crystal structure (U2)	26 mm	[U_g = 2.6]	3094594	**265**	3094595	**394**
Synthetic double pane, grey tinted (A2)	26 mm	[U_g = 2.6]	3091782	**299**	3091788	**441**
Synthetic double pane, white tinted (opal) (M2)	26 mm	[U_g = 2.6]	3091784	**299**	3091790	**441**
Clear synthetic triple pane (S 3)	26 mm	[U_g = 1.9]	3091776	**355**	3091769	**469**
Synthetic triple pane, crystal structure (U3)	26 mm	[U_g = 1.9]	3094597	**355**	3094598	**469**
Synthetic triple pane, grey tinted (A 3)	26 mm	[U_g = 1.9]	3091785	**399**	3091791	**515**
Synthetic triple pane, white tinted (opal) (M3)	26 mm	[U_g = 1.9]	3091787	**399**	3091793	**515**
Clear polycarbonate single pane (P)	6 mm		3091775	**384**	–	**–**
Clear polycarbonate double pane (C2)	26 mm	[U_g = 2.7]	3091093	**384**	3091097	**510**
Single pane made of laminated safety glass (VG) [3]	6 mm		3091777	**657**	–	**–**
Double pane made of single-pane safety glass (E2) [3]	26 mm	[U_g = 2.6]	3091778	**1006**	3091770	**1137**
Climatic double pane made of single-pane safety glass (G2) [3]	26 mm	[U_g = 1.1]	3091779	**1140**	3091771	**1265**
Multiple-moulded pane (S)	16 mm	[U_g = 1.9]	3091090	**265**	3091768	**394**
Stainless steel expanded mesh (SE) [1], ventilation cross-section 54 % (colour coating not possible)	5 mm		3091094	**310**	–	**–**
Perforated steel sheet made of stainless steel (LB) [1], 8 mm perforation, ventilation cross-section 40 % (colour coating not possible)	1.5 mm		3091780	**432**	–	**–**
Prepared for on-site infill (BS) [2] (anodised glazing bead required)			3091781	**265**	3091772	**394**

Compound glazings (Not possible with version RC 2!)	**Article no.**		**€**
Type D: plastic frame with clear synthetic double pane, 16 mm, black	3090415	Each	**107**
Type D: plastic frame with clear synthetic double pane, 16 mm	3090416	Each	**107**
Type D: plastic frame with synthetic double pane, crystal structure, 16 mm, black	3094714	Each	**107**
Type D: plastic frame with synthetic double pane, crystal structure, 16 mm	3094715	Each	**107**

Intermediate heights	**No surcharge**

Ventilation grilles	**Article no.**		**€**
Black plastic ventilation grille, ventilation cross-section 40 cm² per grille	3092450	Each	**35**
Sliding cover for ventilation grille	3092451	Each	**50**

Surface coating	From page 38

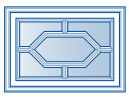
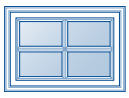
Accessories	From page 40

1) Max. field width 1230 mm, additional field may be required!
2) On request
3) Only for door width up to 6000 mm; on request

Sectional door SPU F42 Plus – L-ribbed

Double-skinned steel section door, door sections 468 to 562 mm high, top door section adjusted, depth 42 mm

Panel glazings

Panel glazing type S (Not possible with version RC 2!)			Article no.		€
	S 0	With clear synthetic double pane, 22 mm	3090423	Each	107
		With synthetic double pane, crystal structure, 22 mm	3094716	Each	107
	S 1	With clear synthetic double pane, 22 mm	3090425	Each	132
		With synthetic double pane, crystal structure, 22 mm	3094717	Each	132
	S 2	With clear synthetic double pane, 22 mm	3090427	Each	132
		With synthetic double pane, crystal structure, 22 mm	3094718	Each	132
(consists of 4 glazings)	S 10	With clear synthetic double pane, 22 mm	3090429	Per set	540
		With synthetic double pane, crystal structure, 22 mm	3094719	Per set	540
(consists of 5 glazings)	S 20	With clear synthetic double pane, 22 mm	3090431	Per set	675
		With synthetic double pane, crystal structure, 22 mm	3094720	Per set	675
(consists of 6 glazings)	S 30	With clear synthetic double pane, 22 mm	3090433	Per set	810
		With synthetic double pane, crystal structure, 22 mm	3094721	Per set	810
(consists of 7 glazings)	S 40	With clear synthetic double pane, 22 mm	3090435	Per set	945
		With synthetic double pane, crystal structure, 22 mm	3094722	Per set	945
(consists of 8 glazings)	S 50	With clear synthetic double pane, 22 mm	3090437	Per set	1080
		With synthetic double pane, crystal structure, 22 mm	3094723	Per set	1080
(consists of 8 glazings)	S 60	With clear synthetic double pane, 22 mm	3090439	Per set	1080
		With synthetic double pane, crystal structure, 22 mm	3094724	Per set	1080

Max. no. of glazings per door section: Door width: Up to 1750 mm 2 units Up to 3500 mm 5 units Up to 5500 mm 8 units Up to 7000 mm 11 units
Up to 2125 mm 3 units Up to 4000 mm 6 units Up to 6250 mm 9 units
Up to 2750 mm 4 units Up to 4750 mm 7 units Up to 6750 mm 10 units

Notice: Does not apply to doors with wicket door!

Panel glazing type M (Not possible with version RC 2!)			Article no.		€
	M 0	With clear synthetic double pane, 22 mm	3090441	Each	130
		With synthetic double pane, crystal structure, 22 mm	3094725	Each	130

Max. no. of glazings per door section: Door width: Up to 1520 mm 1 unit Up to 3690 mm 4 units Up to 5870 mm 7 units
Up to 2250 mm 2 units Up to 4420 mm 5 units Up to 6600 mm 8 units
Up to 2970 mm 3 units Up to 5150 mm 6 units Up to 7000 mm 9 units

Notice: Does not apply to doors with wicket door!

Panel glazing type L (Not possible with version RC 2! / Not for doors with wicket door!)			Article no.		€
	L 0	With clear synthetic double pane, 22 mm	3090445	Each	169
		With synthetic double pane, crystal structure, 22 mm	3094726	Each	169

Max. no. of glazings per door section: Door width: Up to 2240 mm 1 unit Up to 4490 mm 3 units Up to 6720 mm 5 units
Up to 3400 mm 2 units Up to 5610 mm 4 units Up to 7000 mm 6 units

Surface coating for glazing frames Page 38 – 39

Sectional door SPU F42 Plus – L-ribbed

Woodgrain, Silkgrain or Decograin
Double-skinned steel section door, door sections 468 to 562 mm high, top door section adjusted, depth 42 mm

Design elements

Styles with design elements				Article no.		€
	Style 450	Stainless steel plinth profile with square perforation	Up to door widths of 3000 mm	3090447	Per door	**481**
			Up to door widths of 6000 mm	3090448	Per door	**697**
			Door width over 6000 mm	3090449	Per door	**912**
	Style 451	With stainless steel frame		3090450	Per door [1]	**615**
		Also with stainless steel plinth profile as in style 450		Plus surcharge for style 450		
		Notice for stainless steel plinth profile: Only for door section height 531, 550 and 562 mm				
	Style 461	With stainless steel frame and clear synthetic double pane [2] [4]		3090451	Per door [1]	**1029**
		With stainless steel frame and synthetic double pane with crystal structure [2] [4]		3094740	Per door [1]	**1029**
		Also with stainless steel plinth profile as in style 450		Plus surcharge for style 450		
		Notice for stainless steel plinth profile: Only for door section height 531, 550 and 562 mm				
	Style 471	With stainless steel frame		3094728	Per door [1]	**615**
	Style 481	With stainless steel frame and clear synthetic double pane [2] [4]		3094729	Per door [1]	**1029**
		With stainless steel frame and synthetic double pane with crystal structure [2] [4]		3094730	Per door [1]	**1029**
	Style 452	With stainless steel frame with infill		3090453	Per door [1]	**779**
		Also with stainless steel plinth profile as in style 450		Plus surcharge for style 450		
		Notice for stainless steel plinth profile: Only for door section height 531, 550 and 562 mm				
	Style 462	With stainless steel frame with infill and clear synthetic double pane [2] [4]		3090454	Per door [1]	**1195**
		With stainless steel frame with infill and synthetic double pane with crystal structure [2] [4]		3094741	Per door [1]	**1195**
		Also with stainless steel plinth profile as in style 450		Plus surcharge for style 450		
		Notice for stainless steel plinth profile: Only for door section height 531, 550 and 562 mm				
	Style 454	With large stainless steel square		3090456	Per door [1]	**615**
		Also with stainless steel plinth profile as in style 450		Plus surcharge for style 450		
		Notice for stainless steel plinth profile: Only for door section height 531, 550 and 562 mm				
	Style 456	With small stainless steel squares		3090457	Per door [1]	**712**
		Also with stainless steel plinth profile as in style 450		Plus surcharge for style 450		
		Notice for stainless steel plinth profile: • Only for door section height 531, 550 and 562 mm • 2 squares only in the bottom section with plinth profile				
	Style 459	With stainless steel ring		3090460	Per door [1]	**1164**
	Style 469	With stainless steel ring and clear synthetic double pane [3] [4]		3090461	Per door [1]	**1750**
		With stainless steel ring and synthetic double pane with crystal structure [3] [4]		3094742	Per door [1]	**1750**

1) Price for door leaf with 4 door sections (each additional door section + 25 %)
2) Glazing with synthetic double pane, clear (DS) or crystal structure (DK), 41 mm, clear view 160 × 160 mm, overall dimension 240 × 240 mm
3) Glazing with synthetic double pane, clear (DS) or crystal structure (DK), 41 mm, clear view Ø 200 mm, overall dimension Ø 280 mm
4) Not possible with version RC 2!

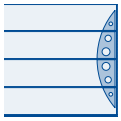
Arrangement of the design elements on the right as standard, other arrangement on request.

Glazing frames, ventilation grilles or wicket door on request!

Sectional door SPU F42 Plus – L-ribbed

Woodgrain, Silkgrain or Decograin
Double-skinned steel section door, door sections 468 to 562 mm high, top door section adjusted, depth 42 mm

Design elements

Styles with design elements			Article no.		€
	Style 457	With curved stainless steel frame	3090458	Per door [1]	**834**
		Notice: • For door section height 468, 488, 500, 520, 531, 550 and 562 mm: 4-part • For door section height 475 and 500 mm: 5-part			
	**Style 458**	With stainless steel hole arc	3090459	Per door [1]	**841**
		Notice: • For door section height 468, 488, 500, 520, 531, 550 and 562 mm: 4-part • For door section height 475 and 500 mm: 5-part			

1) Price for door leaf with 4 door sections (each additional door section + 25 %)

Arrangement of the design elements on the right as standard, other arrangement on request.

Glazing frames, ventilation grilles or wicket door on request!

Wicket doors

For sectional doors SPU F42 Plus

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 RC 2 version 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 (LDBS) 940 mm

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

Wicket door version	Door width	Door width for real glass in the wicket door area	Article no.		€
Wicket door with threshold rail	1750 – 4500 mm		678800	Per door	**1758**
	4510 – 5500 mm	1750 – 4500 mm	678801	Per door	**1902**
Wicket door with trip-free threshold	1750 – 5500 mm	1750 – 4500 mm	3065128	Per door	**1533**
	5510 – 7000 mm	4510 – 6000 mm	3065129	Per door	**3127**

Accessories for wicket doors

Versions (deviating from the standard)	Article no.		€
Surcharge for wicket door break-in resistance equipment **Notice:** Multiple-point locking for wicket doors required!	3097938	Per door	**313**
Wicket door without lock and without lever handle set **Notice:** Not possible with version RC 2!	3060371		**No surcharge / price reduction**
Wicket door without outside lever handle with double cylinder (The door can only be opened using a key from the outside)	3060517	Per door	**133**
Wicket door without outside lever handle with half cylinder (The door can only be operated from the inside)	3060518	Per door	**129**
Surcharge for the clear passage width of the wicket door according to specifications (Max. clear passage width = 1140 mm) **Notice:** Not available for doors with real glass infill in the wicket door area!	3060510	Per door	**426**
Wicket door with very short distance to outside door edge **Notices:** • Distance to the outside door edge: 455 mm with a depth of 42 mm. • Not possible for doors with real glass.	3060512	Per door	**539**
Surcharge for doors with wicket door with door widths of 1500 – 1740 mm **Notice:** The clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.	3060509	Per door	**1385**

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	**234**
	RC	3092522	Each	**234**
Anti-panic lock for profile cylinder with anti-panic spindle, for lever handle outside Function B: With the change-over function; the lever handle is switched to “idle” or “operation” after actuation, depending on the adjustment.	PC	3091225	Each	**310**
	RC	3095106	Each	**310**
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	**310**
	RC	3095107	Each	**310**
Anti-panic lock for fixed knob on outside, **self-locking** Function E: The door can only be opened using a key from the outside.	PC	3093758	Each	**490**
	RC	3093759	Each	**490**
Anti-panic lock for lever handle on outside, **self-locking** Function B: With the change-over function; the lever handle is switched to “idle” or “operation” after actuation, depending on the adjustment.	PC	3093760	Each	**573**
	RC	3093761	Each	**573**

Wicket doors

For sectional doors SPU F42 Plus

Accessories for wicket doors					
Lever handle set offset / flat			**Article no.**		**€**
Black plastic		PC	3092452	Each	**No surcharge**
		RC	3092453	Each	
Aluminium natural finish (F1)		PC	3092454	Each	**134**
		RC	3092455	Each	**134**
RAL 9016 TS 45		PC	3092458	Each	**162**
		RC	3092459	Each	**162**
Brown TS 45		PC	3092460	Each	**162**
		RC	3092461	Each	**162**
Brushed stainless steel		PC	3092462	Each	**178**
		RC	3092463	Each	**178**
Polished stainless steel		PC	3092464	Each	**204**
		RC	3092465	Each	**204**
Lever / knob handle sets offset / flat			**Article no.**		**€**
Black plastic		PC	3092466	Each	**75**
		RC	3092467	Each	**75**
Aluminium natural finish (F1)		PC	3092468	Each	**157**
		RC	3092469	Each	**157**
RAL 9016 TS 45		PC	3092472	Each	**194**
		RC	3092473	Each	**194**
Brown TS 45		PC	3092474	Each	**194**
		RC	3092475	Each	**194**
Brushed stainless steel		PC	3092476	Each	**208**
		RC	3092477	Each	**208**
Polished stainless steel		PC	3092478	Each	**233**
		RC	3092479	Each	**233**
Electric door strike with day and night setting			**Article no.**		**€**
• Wiring on-site! • Not possible in conjunction with radio activating kit!					
10 – 24 V, LH / RH hinged Only opens with an impulse, i.e. as long as the button is pressed.			3092513	Each	**118**
10 – 24 V, LH / RH hinged Remains open after an impulse until the door is actuated – subsequent locking by door strike (catch).			3092514	Each	**158**
Further accessories for wicket doors			**Article no.**		**€**
Slide rail door closer with hold-open device			3092540	Each	**No surcharge**
Integrated overhead door closer with hold-open device **Notices:** • Cannot be retrofitted! • Not available for doors with real glass infill in the wicket door area!			3090801	Each	**402**
Latch contact for closing control (VdS class C) **Notice:** Not possible in conjunction with radio activating kit!			3093964	Each	**159**
Block reed contact (magnetic contact) for Open / Close query (VdS class C) **Notice:** Not possible in conjunction with radio activating kit!			3092546	Each	**116**
Push bar for escape door (anti-panic lock required!) 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. **Notices:** • Not for track applications HU, RD, RS, RK, VU and WS! • Only PC version!	Black / green	PC	3100108	Each	**488**
	Stainless steel	PC	3100109	Each	**800**
Additional bolt lock Fitting not possible in the bottom wicket door section, without lever handle, with profile cylinder. (Not available for multiple-point locking!)			3060511	Each	**423**
Security rose escutcheon (surface finish matching lever handle sets and lever / knob handle sets)			3091228	Each	**249**

Wicket doors

For sectional doors SPU F42 Plus

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

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

Notes and sketches

Side door NT 60

Matching sectional doors SPU F42 Plus

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.

Infill

Side door for sectional doors SPU F42 Plus
Double-skinned steel sections, made of hot-galvanized sheet steel, PU-foamed, depth 42 mm.

M-ribbed: Exterior Woodgrain-embossed, Silkgrain or Decograin / interior Stucco-textured

L-ribbed: Exterior Woodgrain-embossed, Silkgrain or Decograin / interior Stucco-textured

Surface finish

Leaf frame and door frame:

Anodised with natural finish E6 / C0

Coating steel sections, Woodgrain or Silkgrain version:

Exterior: Polyester primer-coated with coil coating procedure, based on RAL 9016 Traffic white

Interior: Polyester primer-coated with coil coating procedure, based on RAL 9002 Grey white

Coating steel sections, Decograin version:

Exterior:
- Coated with timber design plastic film with embossed timber structure for authentic timber character.
  - Golden Oak: medium brown, golden yellow oak design
  - Dark Oak: walnut-coloured oak design
- Plastic film coating
  - Titan Metallic CH 703

Interior: Polyester primer-coated with coil coating procedure, based on RAL 9002 Grey white

All further steel parts manufactured from hot-galvanized steel.

For RAL colours, see “Surface coating” from page 38.

Performance characteristics in accordance with EN 14351-1

Side door NT 60	SPU F42 Plus
Resistance to wind load	3 C
Thermal resistance (U = W/(m²·K)) Door size 1250 × 2200	2,9
Further performance characteristics	npd *

* npd = no performance determined

Side door NT 60

Matching sectional doors SPU F42 Plus

Side door NT 60 (matching sectional doors SPU F42 Plus)			Article no.		€
For other matching side door designs, see dealer price list 01-21 Part A.					
Side door for sectional doors SPU F42 Plus	M-ribbed	Woodgrain	3093699	Each	**1816**
		Silkgrain	3093701	Each	**1878**
RAM min. 855 × 1865 mm		Decograin	3093703	Each	**1956**
RAM max. 1300 × 2525 mm	L-ribbed	Woodgrain	3094133	Each	**1997**
		Silkgrain	3093705	Each	**2071**
		Decograin	3093707	Each	**2147**

Side door NT 60

Matching sectional doors SPU F42 Plus

Optional extras

Alternative infills		U_g in W/(m²·K)	Article no.		€
Window section with clear synthetic single pane (FK)	3 mm		3097142	Each	**179**
Window section with synthetic single pane, crystal structure (KR)	3 mm		3097143	Each	**179**
Window section with clear synthetic double pane (S2)	26 mm	[U_g = 2.6]	3090473	Each	**179**
Window section with crystal structure synthetic double pane (U2)	26 mm	[U_g = 2.6]	3094596	Each	**179**
Synthetic double pane, grey tinted (A2)	26 mm	[U_g = 2.6]	3094736	Each	**203**
Synthetic double pane, white tinted (opal) (M2)	26 mm	[U_g = 2.6]	3094738	Each	**203**
Window section with clear synthetic triple pane (S 3)	26 mm	[U_g = 1.9]	3097144	Each	**241**
Window section with synthetic triple pane, crystal structure (U3)	26 mm	[U_g = 1.9]	3097145	Each	**241**
Window section with synthetic triple pane, grey tinted (A3)	26 mm	[U_g = 1.9]	3097146	Each	**269**
Window section with synthetic triple pane, white tinted (opal) (M3)	26 mm	[U_g = 1.9]	3097148	Each	**269**
Window section with clear polycarbonate single pane (P)	6 mm		3097149	Each	**258**
Window section with clear polycarbonate double pane (C2)	26 mm	[U_g = 2.7]	3090475	Each	**258**
Window section with single pane made of laminated safety glass (VG)	6 mm		3097150	Each	**441**
Window section with double pane made of single-pane safety glass (E2)	26 mm	[U_g = 2.6]	3097151	Each	**674**
Window section with climatic double pane made of single-pane safety glass (G2)	26 mm	[U_g = 1.1]	3097152	Each	**767**
Window section with multiple-moulded pane (S)	16 mm	[U_g = 1.9]	3090472	Each	**179**
Field with stainless steel expanded mesh (SE), ventilation cross-section 54 % (colour coating not possible)	5 mm		3090476	Each	**208**
Perforated steel sheet made of stainless steel (LB), 8 mm perforation, ventilation cross-section 40 % (colour coating not possible)	1.5 mm		3094739	Each	**292**
Prepared for on-site infill (BS) [1]			3097153	Each	**179**

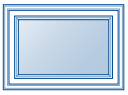
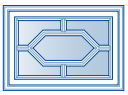
1) On request

Compound glazings	Article no.		€
Type D: plastic frame with clear synthetic double pane, 16 mm black	3090415	Each	**107**
Type D: plastic frame with clear synthetic double pane, 16 mm	3090416	Each	**107**
Type D: plastic frame with synthetic double pane, crystal structure, 16 mm black	3094714	Each	**107**
Type D: plastic frame with synthetic double pane, crystal structure, 16 mm	3094715	Each	**107**

Side door NT 60

Matching sectional doors SPU F42 Plus

Optional extras

Panel glazing type S			Article no.		€
	**S 0**	With clear synthetic double pane, 22 mm	3090423	Each	**107**
		With synthetic double pane, crystal structure, 22 mm	3094716	Each	**107**
	**S 1**	With clear synthetic double pane, 22 mm	3090425	Each	**132**
		With synthetic double pane, crystal structure, 22 mm	3094717	Each	**132**
	S 2	With clear synthetic double pane, 22 mm	3090427	Each	**132**
		With synthetic double pane, crystal structure, 22 mm	3094718	Each	**132**
	Sunrise	With clear synthetic double pane, 22 mm	3090525	Each	**135**
		With synthetic double pane, crystal structure, 22 mm	3094727	Each	**135**

Panel glazing type M			Article no.		€
	M 0	With clear synthetic double pane, 22 mm	3090441	Each	**130**
		With synthetic double pane, crystal structure, 22 mm	3094725	Each	**130**

Optional extras			Article no.		€
Fascia panel above the side door, depth 42 mm Panel height < 360 mm			3093730	Each	**297**
Aluminium fascia panel above the side door E6 / C0 with PU section infill Panel height ≥ 360 mm	M-ribbed	Woodgrain	3093719	Per m²	**529**
		Silkgrain	3093721	Per m²	**553**
		Decograin	3093723	Per m²	**588**
	L-ribbed	Woodgrain	3094136	Per m²	**563**
		Silkgrain	3093725	Per m²	**590**
		Decograin	3093727	Per m²	**619**
Extension profile for the side door frame on each side incl. fixing set Only for fitting in the reveal! Not possible with fascia panel!		25 mm	3095098	Per m	**42**
		50 mm	3093756	Per m	**47**

Additional panel height included in calculated overall frame height

Calculated dimension all-round on 3 sides

2 × overall frame height plus additional panel height, if any
\+ Overall frame width
\+ 4 × profile width

Fittings			Article no.		€
Lever handle sets offset / offset	Black plastic	PC	3092480	**No surcharge**	
		RC	3092481		
	Aluminium natural finish (F1)	PC	3092482	Each	**134**
		RC	3092483	Each	**134**
	RAL 9016 TS 45	PC	3092486	Each	**162**
		RC	3092487	Each	**162**
	Brown TS 45	PC	3092488	Each	**162**
		RC	3092489	Each	**162**
	Brushed stainless steel	PC	3092490	Each	**178**
		RC	3092491	Each	**178**
	Polished stainless steel	PC	3092492	Each	**204**
		RC	3092493	Each	**204**

Side door NT 60

Matching sectional doors SPU F42 Plus

Optional extras

Fittings			Article no.		€
Lever / knob handle sets offset / offset	Black plastic	PC	3092494	Each	**75**
		RC	3092495	Each	**75**
	Aluminium natural finish (F1)	PC	3092496	Each	**157**
		RC	3092497	Each	**157**
	RAL 9016 TS 45	PC	3092500	Each	**194**
		RC	3092501	Each	**194**
	Brown TS 45	PC	3092502	Each	**194**
		RC	3092503	Each	**194**
	Brushed stainless steel	PC	3092504	Each	**208**
		RC	3092505	Each	**208**
	Polished stainless steel	PC	3092506	Each	**233**
		RC	3092507	Each	**233**

Overhead door closers	Article no.		€
Overhead door closer with slide rail and hold-open device	3092542	Each	**311**

Electric door strike with day and night setting (wiring on-site)	Article no.		€
10 – 24 V, LH / RH hinged Only opens with an impulse, i.e. as long as the button is pressed.	3092513	Each	**118**
10 – 24 V, LH / RH hinged Remains open after an impulse until the door is actuated – subsequent re-locking (catch).	3092514	Each	**158**

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	**234**
	RC	3092522	Each	**234**
Anti-panic lock for profile cylinder with anti-panic spindle, for lever handle outside Function B: With the change-over function; the lever handle is switched to “idle” or “operation” after actuation, depending on the adjustment.	PC	3091225	Each	**310**
	RC	3095106	Each	**310**
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	**310**
	RC	3095107	Each	**310**
Anti-panic lock for fixed knob on outside, **self-locking** Function E: The door can only be opened using a key from the outside.	PC	3093758	Each	**490**
	RC	3093759	Each	**490**
Anti-panic lock for lever handle on outside, **self-locking** Function B: With the change-over function; the lever handle is switched to “idle” or “operation” after actuation, depending on the adjustment.	PC	3093760	Each	**573**
	RC	3093761	Each	**573**

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 33 are suitable.				
Self-locking anti-panic lock SVP 5000 no. 5729		3097119	Each	**785**
Self-locking anti-panic lock SVP 4000 no. 4729 with connection cable SVP-A 1100		3097120	Each	**1354**
Anti-panic lock SVP 2000 DCW no. 2729, self-locking motor lock with connection cable SVP-A 1100 (Lock control must be provided on-site)		3097123	Each	**2751**
Anti-panic lock SVP 6000, self-locking with split spindle and detachable outside lever handle, with connection cable SVP-A 1100	No. 6720, right outwards, left inwards	3097122	Each	**2098**
	No. 6729, left outwards, right inwards	3097121	Each	**2098**

Self-locking anti-panic locks 309X, 409X, 509X, 709X	Article no.		€
For anti-panic locks 309X, 409X and 509X, all the lever / knob handle sets listed on page 33 are suitable.			
Self-locking anti-panic lock 309X 302	3073922	Each	**876**
Self-locking anti-panic lock 409X 302 with connection cable Z09	3073923	Each	**1408**
Anti-panic lock 509X 302, self-locking motor lock with connection cable Z09 (Lock control must be provided on-site)	3073924	Each	**2835**
Self-locking anti-panic lock 709X 302 with lever control and connection cable Z09 (Current variant and anti-panic side adjustable)	3073925	Each	**2194**

Side door NT 60

Matching sectional doors SPU F42 Plus

Optional extras

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	**475**
	RC	3093763	Each	**475**
Multiple-point locking with anti-panic function E Function E: The door can only be opened using a key from the outside.	PC	3094311	Each	**815**
	RC	3094312	Each	**815**
Multiple-point locking with anti-panic function B Function B: With the change-over function; the lever handle is switched to “idle” or “operation” after actuation, depending on the adjustment.	PC	3094307	Each	**922**
	RC	3094308	Each	**922**
Multiple-point locking with anti-panic function D Function D: After being operated from the inside, the door can always be operated from the outside without using a key.	PC	3094309	Each	**922**
	RC	3094310	Each	**922**

Additional fixing sets for side door	Article no.		€
Fixing set for fitting to steel (not with extension profile)	3090341	Each	**28**
Fixing set for fitting to brickwork (not with extension profile)	3050992	Each	**28**
8 fixing angles, including bolts, washers and plugs (not with extension profile)	3092545	Each	**28**

Additional accessories for side doors		Article no.		€
Latch contact for closing control (VdS class C), wiring on-site		3093964	Each	**159**
Block reed contact (magnetic contact) for Open / Close query (VdS class C), wiring on-site		3092546	Each	**116**
Push bar for escape door, interior (anti-panic lock required) **Notice:** Only PC version! 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.	Black / green	3100106	Each	**423**
	Stainless steel	3100107	Each	**720**
Stainless steel push bar 38-2, brushed, 1000 mm, exterior (Additional lever handle set in brushed stainless steel required)		3091389	Per door	**570**
Surcharge for 3rd door hinge up to a door height of 2210 mm (standard for door heights above 2210 mm)		3091387	Per door	**215**

Side door without hole pattern	Article no.		€
Side door without lock and lever handle set	3060562		**No surcharge**
Side door without hole pattern for lever handle outside with double cylinder (The door can only be opened using a key from the outside)	3060563	Per door	**133**
Side door without hole pattern for lock and lever handle outside with half cylinder (The door can only be operated from the inside)	3060564	Per door	**125**

Surface coating	From page 38

Notes and sketches

Side door NT 60 RC 2

Matching sectional doors SPU F42 Plus

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

Side door for sectional doors SPU F42 Plus
Double-skinned steel sections, made of hot-galvanized sheet steel, PU-foamed, depth 42 mm.

M-ribbed: Exterior Woodgrain-embossed, Silkgrain or Decograin / interior Stucco-textured

L-ribbed: Exterior Woodgrain-embossed, Silkgrain or Decograin / interior Stucco-textured

Surface finish

Leaf frame and door frame:

Anodised with natural finish E6 / C0.

Coating steel sections, Woodgrain or Silkgrain version:

Exterior: Polyester primer-coated with coil coating procedure, based on RAL 9016 Traffic white

Interior: Polyester primer-coated with coil coating procedure, based on RAL 9002 Grey white

Coating steel sections, Decograin version:

Exterior:
- Coated with timber design plastic film with embossed timber structure for authentic timber character.
  - Golden Oak: medium brown, golden yellow oak design
  - Dark Oak: walnut-coloured oak design
- Plastic film coating
  - Titan Metallic CH 703

Interior: Polyester primer-coated with coil coating procedure, based on RAL 9002 Grey white

All further steel parts manufactured from hot-galvanized steel.

For RAL colours, see “Surface coating” from page 38.

Performance characteristics in accordance with EN 14351-1	
Side door NT 60	**SPU F42 Plus**
Resistance to wind load	3 C
Thermal resistance (U = W/(m²·K)) Door size 1250 × 2200	2,9
Break-in resistance equipment (DIN EN 1627)	RC 2
Further performance characteristics	npd *

* npd = no performance determined

Side door NT 60 RC 2

Matching sectional doors SPU F42 Plus

Side door NT 60 RC 2 (matching sectional doors SPU F42 Plus)			Article no.		€
Side door for sectional doors SPU F42 Plus	M-ribbed	Woodgrain	3095074	Each	**2900**
		Silkgrain	3095076	Each	**2962**
Size range		Decograin	3095077	Each	**3041**
RAM min. 855 × 1920 mm	L-ribbed	Woodgrain	3095078	Each	**3082**
RAM max. 1300 × 2525 mm		Silkgrain	3095080	Each	**3158**
		Decograin	3095082	Each	**3234**

Side door NT 60 RC 2

Matching sectional doors SPU F42 Plus

Optional extras

Alternative infills		U_g in W/(m²·K)	Article no.		€
Window section with real glass clear double pane P4A (W2)	26 mm	[U_g = 1.2]	3095085	Each	**648**

Optional extras			Article no.		€
Aluminium fascia panel above the side door E6 / C0 with PU section infill Panel height ≥ 360 mm	M-ribbed	Woodgrain	3095087	Per m²	**699**
		Silkgrain	3095089	Per m²	**723**
		Decograin	3095090	Per m²	**758**
	L-ribbed	Woodgrain	3095091	Per m²	**733**
		Silkgrain	3095093	Per m²	**761**
		Decograin	3095095	Per m²	**791**

Fittings			Article no.		€
Lever handle sets offset / offset	Black plastic	PC	3092480		**No surcharge**
		RC	3092481		
	Brushed stainless steel	PC	3092490	Each	**178**
		RC	3092491		
	Polished stainless steel	PC	3092492	Each	**204**
		RC	3092493		
Lever / knob handle sets offset / offset	Black plastic	PC	3092494	Each	**75**
		RC	3092495		
	Brushed stainless steel	PC	3092504	Each	**208**
		RC	3092505		
	Polished stainless steel	PC	3092506	Each	**233**
		RC	3092507		

Overhead door closers	Article no.		€
Overhead door closer with slide rail and hold-open device	3092542	Each	**311**

Electric door strike with day and night setting (wiring on-site)	Article no.		€
10 – 24 V, LH / RH hinged Only opens with an impulse, i.e. as long as the button is pressed.	3092513	Each	**118**
10 – 24 V, LH / RH hinged Remains open after an impulse until the door is actuated – subsequent re-locking (catch).	3092514	Each	**158**

Additional fixing sets for side door	Article no.		€
Fixing set for fitting to steel	3090341	Each	**28**
Fixing set for fitting to brickwork	3050992	Each	**28**
8 support brackets RC 2, including bolts, washers and plugs	3095122	Each	**34**

Additional accessories for side doors	Article no.		€
Latch contact for closing control (VdS class C), wiring on-site	3093964	Each	**159**
Block reed contact (magnetic contact) for Open / Close query (VdS class C), wiring on-site	3092546	Each	**116**
Stainless steel push bar 38-2, brushed, 1000 mm, exterior (Additional lever handle set in brushed stainless steel required)	3091389	Per door	**570**
Surcharge for 3rd door hinge up to a door height of 2210 mm (standard for door heights above 2210 mm)	3091387	Per door	**215**

Side door without hole pattern	Article no.		€
Side door without hole pattern for lever handle outside with double cylinder (The door can only be opened using a key from the outside)	3060563	Per door	**133**

Surface coating	From page 38

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 Plus • Side door infill SPU F42 Plus • PU panels • Fixed elements	Per m²
Wet coating on exterior, interior Grey white based on RAL 9002	
• Door sections SPU F42 Plus • Side door infill SPU F42 Plus [5] • Fascia panels • Fixed elements	Per m²
Wet coating on exterior and interior	
• Door sections as glazing frames (except for glazing beads)	Per m²
• Leaf frame and frame of side door NT 60 / NT 60 RC 2, incl. extension profile	Each
• Extension profiles of side door (only possible in frame colour)	Per m
• Wicket door frame profiles (polyester-primer coating only on **exterior** of the door)	Per door
• Glazing beads (fitting only with triangular seal)	Per field
• Glazing beads for side door or panel above the side door	Per door / panel
• Frame covering 55 mm (polyester-primer coating only on exterior)	Per m
• Frame covering 90 mm (polyester-primer coating only on exterior)	Per m
• Glazing frames type D, S0, S1, S2, M0 and L0 (polyester-primer coating only on exterior)	Each
• Glazing frames type S10 – S60 (polyester-primer coating only on exterior)	Per glazing

Anodised glazing beads		**€**
Version with anodised glazing beads	Per field	**49**
Side door / panel above the side door with anodised glazing beads (E6 / C0)	Per door / panel	**134**

Preferred colours (internal plant colour code in brackets)

1) Preferred colours:

- RAL 1015 – Light ivory
- RAL 6005 – Moss green *
- RAL 6009 – Fir green *
- RAL 7012 – Basalt grey
- RAL 7015 – Slate grey
- RAL 7016 – Anthracite grey *
- RAL 7030 – Stone grey
- RAL 7035 – Light grey
- RAL 7039 – Quartz grey
- RAL 7040 – Window grey
- RAL 8028 – Terra brown *
- RAL 9005 – Jet black *
- RAL 9006 – White aluminium
- RAL 9007 – Grey aluminium
- CH 703 Anthracite metallic (7268) *

2) Metallic colours:

- DB 701 Light grey (7168)
- DB 702 Grey (7111)
- DB 703 Dark grey (7128)

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)

Further colours on request.

Notices on surface coatings

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

5) Side door infills are manufactured matching the door.

* Please observe the notices in the blue box on the following page!

Surface coating

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

	RAL 9016	Preferred colours [1) 4)]	Matching Decograin	RAL to choose Based on RAL colour chart or Noir 2100 Sablé *	Metallic colours [2) 4)]	British Standard [3)]	Colours: according to the NCS colour chart (on request)
	No surcharge	–	–	–	–	–	–
	–	50	–	50	87	50	50
	71	71	71	71	118	71	71
	272	272	272	272	272	272	272
	24	24	24	24	24	24	24
	248	248	248	317	317	317	317
	68	68	68	68	68	68	68
	183	183	183	183	183	183	183
	No surcharge	14,60	14,60	27	27	27	27
	No surcharge	22	22	28	28	28	28
	No surcharge	31	31	51	51	51	51
	No surcharge	36	36	65	65	65	65

* Please observe the notices in the blue box at the bottom of this page!

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
- End caps of the door sections

RAL colours:

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

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.
- 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.
- For the listed colour shades, the sectional doors SPU F42 Plus with door width from 4510 to 5000 mm in combination with track applications NH, GD, GS, GK, H, HD, HS, HK, HA, HU, RD, RS, RK, V, VA, VS, VU and WS are fitted with door leaf reinforcement to reduce any possible 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
Colour Noir 2100 Sablé
Decograin decors Dark Oak and Titan Metallic CH 703

Accessories

For sectional doors SPU F42 Plus

Surcharges

Glazing frame	Article no.		€
Top door section as a glazing frame	3060526	Per m	**36**
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).			
– Standard version	3091107	Per field	**52**
– With thermal break	3091646	Per field	**71**
Decreased number of rails; width between the rails max. 1630 mm (1230 mm with FK, KR, SE and LB)	–		**No surcharge**
Bottom door section in a special height (not possible in version RC 2!)	**Article no.**		**€**
Special height through adapted bottom door section on request (cut straight or chamfered). • Not possible for doors with wicket door with trip-free threshold! • In combination with operator WA 300 or SupraMatic HT an additional photocell (e.g. EL 301 or EL 101) is required.	678019	Per m	**249**
Side cut-outs with chamfered bottom section (on request) (chamfered section can swing into the opening)	3060544	Per door	**661**
Door leaf reinforcements	**Article no.**		**€**
Door leaf reinforcement for increased wind load (Not suitable for doors with wicket door)	3054226	**On the basic table price**	**Per door + 8 %**

RC 2 – break-in resistance equipment 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
- Compound glazings
- Panel glazings
- Design styles 461, 462, 469, 481
- Door hardware with special corrosion protection
- Fascia panels
- Fixed elements
- Bottom door section in a special height (shortened, chamfered, notched)
- Track application NS and NK with angle C ≥ 50°
- Chain drive operators ITO 400 / ITO 500
- SupraMatic HT
- Light grille in the frame
- NET3, ASE

Surcharge for break-in resistance equipment RC 2, depth 42			3097450	Per door	**342**
Door lock			**Article no.**		**€**
Door lock (complete) for exterior and interior operation, rotary latch Matching the garage door lock Prepared for profile or round cylinder. **Notice:** For track applications HU, RD, RS, RK, VU and WS on request.	Black plastic	PC [1)3)]	3089854	Each	**61**
		RC [1)3)]	3089855	Each	**61**
	Cast aluminium RAL 9016	PC [1)3)]	3089860	Each	**170**
		RC [1)3)]	3089861	Each	**170**
	Brown cast aluminium	PC [1)3)]	3089862	Each	**170**
		RC [1)3)]	3089863	Each	**170**
	Brushed stainless steel	PC [1)3)]	3089864	Each	**170**
		RC [1)3)]	3089865	Each	**170**
	Polished stainless steel	PC [1)3)]	3089866	Each	**203**
		RC [1)3)]	3089867	Each	**203**
Shootbolt in addition to the door lock or with power-driven doors. [2)]			3098312	Each	**55**
Door lock for interior operation	Rotary latch [1)3)]		3055297		**No surcharge**
	Shootbolt [2)]		3055298		**No surcharge**
	Floor locking [1)3)]		3055299		**No surcharge**

1) Not possible with version RC 2!
2) An on-site padlock is required for the RC 2 version.
3) Not possible for track application L / LD with swivel mechanism!

Accessories

For sectional doors SPU F42 Plus

Surcharges

Fascia panels (Not possible with version RC 2! Not possible with spacer profile!)			Article no.		€
Single-skinned, Woodgrain-embossed steel fascia (without insulation) Traffic white based on RAL 9016, as fascia panel of 31 – 125 mm, only for track applications N and L.			3092511	Per m	**34**
Single-skinned, smooth steel fascia panel (without insulation) Traffic white based on RAL 9016, as fascia panel of 31 – 125 mm, only for track applications N and L.			3092512	Per m	**45**
PU-foamed fascia panel, exterior Woodgrain-embossed Interior Stucco-textured, exterior Traffic white based on RAL 9016, interior Grey white based on RAL 9002 As fascia panel from 100 mm	M-ribbed	Height ≤ 250 mm	3091546	Per m²	**383**
		Height > 250 mm	3091547	Per m²	**243**
	L-ribbed	Height ≤ 250 mm	3091548	Per m²	**383**
		Height > 250 mm	3091549	Per m²	**243**
PU-foamed fascia panel, exterior Silkgrain Interior Stucco-textured, exterior Traffic white based on RAL 9016, interior Grey white based on RAL 9002 As fascia panel from 100 mm	M-ribbed	Height ≤ 250 mm	3092932	Per m²	**405**
		Height > 250 mm	3092933	Per m²	**266**
	L-ribbed	Height ≤ 250 mm	3092934	Per m²	**405**
		Height > 250 mm	3092935	Per m²	**266**
PU-foamed fascia panel, exterior Decograin Interior Stucco-textured, exterior plastic film coating in timber design or Titan Metallic CH 703, interior Grey white based on RAL 9002; as fascia panel from 100 mm	M-ribbed	Height ≤ 250 mm	3091558	Per m²	**437**
		Height > 250 mm	3091559	Per m²	**299**
	L-ribbed	Height ≤ 250 mm	3091560	Per m²	**437**
		Height > 250 mm	3091561	Per m²	**299**

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.

Fixed elements (Not possible with version RC 2!)			Article no.		€
PU-foamed sections, exterior Woodgrain-embossed Interior Stucco-textured, exterior Traffic white based on RAL 9016, interior Grey white based on RAL 9002	M-ribbed	Width ≤ 500 mm	3092938	Per m²	**383**
		Width > 500 mm	3092939	Per m²	**243**
	L-ribbed	Width ≤ 500 mm	3094127	Per m²	**417**
		Width > 500 mm	3094128	Per m²	**276**
PU-foamed sections, exterior Silkgrain Interior Stucco-textured, exterior Traffic white based on RAL 9016, interior Grey white based on RAL 9002	M-ribbed	Width ≤ 500 mm	3092942	Per m²	**405**
		Width > 500 mm	3092943	Per m²	**266**
	L-ribbed	Width ≤ 500 mm	3092950	Per m²	**441**
		Width > 500 mm	3092951	Per m²	**302**
PU-foamed sections, exterior Decograin Interior Stucco-textured, exterior plastic film coating in timber design or Titan Metallic CH 703, interior Grey white based on RAL 9002	M-ribbed	Width ≤ 500 mm	3092946	Per m²	**437**
		Width > 500 mm	3092947	Per m²	**299**
	L-ribbed	Width ≤ 500 mm	3092954	Per m²	**489**
		Width > 500 mm	3092955	Per m²	**330**

Notices:
- 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 43)!
- Fixing possibilities for fixed elements must be checked and determined on-site.

Frame covering (Calculated dimension (profile length) = door height (RM) + 137.5 mm) Not possible with spacer profile!	Article no.		€
Angle sections 55 × 19.5 mm, 1 pair, Woodgrain-embossed surface finish, White based on RAL 9016	3089880	Per m	**31**
Angle sections 90 × 19.5 mm, 1 pair, Woodgrain-embossed surface finish, White based on RAL 9016	3089881	Per m	**38**
Angle sections 55 × 19.5 mm, 1 pair, Silkgrain surface finish, White based on RAL 9016	3089882	Per m	**33**
Angle sections 90 × 19.5 mm, 1 pair, Silkgrain surface finish, White based on RAL 9016	3089883	Per m	**46**
Angle sections 55 × 19.5 mm, 1 pair, Decograin surface finish	3090605	Per m	**47**
Angle sections 90 × 19.5 mm, 1 pair, Decograin surface finish	3090606	Per m	**61**
ThermoFrame – frame support with thermal break • Both of the following articles are always required. • Not possible in conjunction with single-skinned steel fascias	**Article no.**		**€**
ThermoFrame side seals black 84 × 22.5 mm with lip seal (A frame covering may be needed to match the colour)	3090299	Per m door height	**72**
ThermoFrame lintel seal black with 2 lip seals	3090300	Per m door width	**28**
Set 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.**		**€**
M-ribbed set to increase air tightness	3100270	Per m door height	**16**
L-ribbed set to increase air tightness	3100271	Per m door height	**7**

Accessories

For sectional doors SPU F42 Plus

Surcharges

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	**96**
Black lintel counterseal, with flat support rail		3098427	Per m door width	**48**
Torsion springs / torsion spring shaft		**Article no.**		**€**
Torsion springs for 50000 closing cycles (with track applications N, ND, NS, NK, NA, NH, GD, GS, GK, L and LD)		678814	**On the basic table price**	**Per door + 4 %**
Torsion springs for more than 50000 closing cycles (on request)	Up to 100000 closing cycles	677820	**On the basic table price**	**Per door + 8 %**
	Over 100000 closing cycles		**On the basic table price**	**Per door + 12 %**
Fitting version with double spring shaft		678823	Per door	**688**
Laterally displaced torsion spring (side space requirement 2500 mm)		678829	Per side	**426**
Surcharge for extending the torsion spring shaft (e.g. for fitting the operator in the neighbouring room)		3060525	Per door	**209**
Surcharge for torsion spring assembly for additional on-site weight		3060558		**On request**
Change to fixing height of torsion spring shaft for HU / VU (on request)		3098458	Per door	**121**
Manual door operation		**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 and HU		3092518	Each	**92**
– For track applications V and VU: Mandatory with manually operated doors!		3092519	Each	**92**
Hand pulley with link steel chain, door surface up to 20 m²				
– For track applications N, ND, NH, NS, H, HD, HS and HU		3092516	Each	**125**
– For track applications V and VU		3092517	Each	**125**
Chain hoist, range 1 (see technical manual) Except for track application VA		3055281	Each	**207**
Chain hoist, range 2 (see technical manual) Except for track application VA		3055282	Each	**207**
Chain tensioner for chain hoist link steel chain		3092520	Each	**135**
Pull rod for manual operation		3093921	Each	**61**
• In combination with operator WA 300, WA 400 or WA 500 FU a secured release is required! • Included in the scope of delivery for operator WA 400 M / WA 500 FU with centre fitting or manually operated doors with door heights > 3500 mm. • Not 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	**161**
Notices: • In combination with operator WA 300, WA 400 or WA 500 FU a secured release is required! • Note: Long spring buffers can result in losses in clear passage. • 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! • Fitting must be carried out opposite the operator side.				
Track suspension set		**Article no.**		**€**
Track suspension set 364 mm		3097015		**No surcharge**
Track suspension set 728 mm		3097016	Per door	**27**
Track suspension set 1040 mm		3097017	Per door	**44**
Track suspension set 1404 mm		3097018	Per door	**92**
Track suspension set 1768 mm		3097019	Per door	**149**
Track suspension set 2132 mm		3097020	Per door	**265**
Track suspension set 2435 mm		3097021	Per door	**302**

Accessories

For sectional doors SPU F42 Plus

Surcharges

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. • For the 1st door in the combination, the door / wall connection is required, and the door / door connection for all other doors. **Technical inspection required!**	**Article no.**		**€**
Diagonal strut set	3100111	Per door	**94**
Set 1 connection door / wall with diagonal strut	3100112	Per door	**33**
Set 2 connection door / door with diagonal strut	3100113	Per door	**16**

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	**240**

Horizontal tracks	**Article no.**		**€**
Extension of the horizontal tracks (on request)	3060547	Per door	**426**
Horizontal track with C-rail for reduced number of suspensions	3098428	Per door	**258**

Notice:
Article not possible:
- 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, V and VU

Box sections / angles			**Article no.**		**€**
Box section 40 / 60 / 2	Galvanized	Cut to length	3092523	Per m	**32**
		Uncut, 6980 mm long	3092524	Each	**111**
Box section 60 / 60 / 2	Galvanized	Cut to length	3046489	Per m	**47**
		Uncut, 8000 mm long	3093767	Each	**212**
Box section 120 / 60 / 2	Galvanized	Cut to length	3092526	Per m	**50**
		Uncut, 6980 mm long	3092527	Each	**234**
Box section 160 / 60 / 2	Galvanized	Cut to length	3092528	Per m	**68**
		Uncut, 6980 mm long	3092529	Each	**326**
Box section 200 / 60 / 2.5	Galvanized	Cut to length	3092530	Per m	**81**
		Uncut, 6980 mm long	3092531	Each	**398**
Angle 82.5 × 35.0 × 3.75	Galvanized	Cut to length	3046492	Per m	**32**
		Uncut, 5500 mm long	3096049	Each	**95**
Angle 55.0 × 29.0 × 3.75	Galvanized	Cut to length	3046493	Per m	**27**
		Uncut, 5500 mm long	3096050	Each	**73**
Angle 60.0 × 40.0 × 4.00	Aluminium	Cut to length	3062174	Per m	**35**
		Uncut, 6000 mm long	3092532	Each	**133**
Angle 30.0 × 30.0 × 3.00	Aluminium	Cut to length	3094559	Per m	**32**
		Uncut, 6000 mm long	3096051	Each	**118**
Frame bracket set (10 anchors left / 10 anchors right)			3092533	Per set	**34**

Screw-on brackets	**Article no.**		**€**
For fixing the frame so that the brickwork surrounding of the reveal is bridged			
– Screw-on bracket, 120 mm	3092534	Each	**24**
– Screw-on bracket, 170 mm	3092535	Each	**28**
Support bracket for a 120 mm box section	3096188	Each	**14,40**
Support bracket for a 160 mm box section	3096189	Each	**15,90**
Support bracket for a 200 mm box section	3096190	Each	**15,90**

Bolt set for fitting of fixed elements Up to 5000 mm height, one set is required for each side	**Article no.**		**€**
10 wood screws 8 × 60, plugs and self-tapping screws A 6.5 × 16	3094569	Per set	**13,30**
10 drilling screws B 8 × 30 and self-tapping screws A 6.5 × 16	3094570	Per set	**13,30**
10 self-tapping screws B 8 × 22 and self-tapping screws A 6.5 × 16	3094571	Per set	**13,30**
20 self-tapping screws A 6.5 × 16	3094572	Per set	**13,30**

Door hardware with special corrosion protection (Not possible with version RC 2!)		**Article no.**		**€**
Door hardware consisting of a combination of stainless steel hinges, roller holders, roller brackets and track rollers with stainless steel axle	Up to door widths of 4500 mm	3094560	Per m door height	**291**
	Door width 4510 – 6000 mm		Per m door height	**372**
	Door width 6010 – 7000 mm		Per m door height	**665**

Accessories

For sectional doors SPU F42 Plus

Surcharges

Set to cover the anti-lift kit 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.		**Article no.**		**€**
Set to cover the anti-lift kit		3100110	Per door	**27**
Other accessories		**Article no.**		**€**
Roller switch for querying the closing position of the shootbolt		3096823	Each	**93**
Bi-directional magnet switch to query a variable door position, e.g. for electric locking with air lock doors or loading ramps		3096824	Each	**151**
Set: spring buffers below the track (to reduce the distance back) **Notices:** Not possible with low headroom and vertical track application as well as fittings with low-mounted spring shaft.		3093765	Per door	**137**
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 Required number = number of door sections × 2	Galvanized	3097022	Each	**21**
	Stainless steel [1]	3097099	Each	**12,50**
1) Only possible for door hardware with special corrosion protection.				
Swing mechanism for track application L / LD to increase the clear passage **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.	Galvanized	3098424	Per door	**265**
	Stainless steel [1]	3098425	Per door	**454**
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	**402**
Packaging		**Article no.**		**€**
OSB pallets (corresponds to IPPC standard ISPM no. 15)		3074839	Per door	**214**
Transport packaging with chipboard		3092548	Per m door leaf pallet	**68**
Transport packaging with hollow chamber plate		3092547	Per door leaf pallet	**98**
Crate packaging		3051889		**On request**
Doors for use in potentially explosive atmospheres		**Article no.**		**€**
Atex version (on request)		3072489	Per door	**3561**
Reuse of operator		**Article no.**		**€**
Reuse of a HÖRMANN operator • Only WA 300, WA 400, ITO 400, WA 500 FU, ITO 500 FU • Technical inspection required!		3091386		**228**

Notes and sketches

Shaft operator WA 300 S4

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

Integrated control

Operator
- 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
- Max. 150 door cycles per day
- Max. 10 door cycles per hour

Control
- Integrated microprocessor control
- Adjustable power limit
- Connection cable with CEE plug IP 44 (splash-water protected)

Function
- Opening with impulse
- Closing with impulse
- Automatic timer (only in conjunction with option relay (HOR 1-300) or universal adapter print (UAP 1-300) and warning lights and photocell or VL 1-LE / VL 2-LE)
- Soft start and soft stop

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

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

Control elements			**Article no.**	**€**
Push button DTH-RM, Open-Stop-Close and miniature lock, omission of DTH-R	7)	Surcharge	637721	**26**
Push button DTH-I, Impulse-Stop-½ / Open incl. UAP1-300, omission of DTH-R	7)	Surcharge	637722	**90**
Push button DTH-IM, Impulse-Stop-½ / Open and miniature lock, incl. UAP1-300, omission of DTH-R	7)	Surcharge	637723	**114**
Push button control 300 U, in extension housing for flange-mounting to loading technology control 460 S / T, omission of mains lead and DTH-R (required for integrated lock HOR 1-300 for control 300 U art. no. 635377)	7) 8)	Surcharge	636293	**51**
Push button control 300 U, in extension housing with integrated main switch for all-pole switch-off, omission of mains lead and DTH-R	7) 8)	Surcharge	636294	**111**
Separate main switch, incl. connecting lead to the control, omission of mains lead with 230 V CEE plug	8)	Surcharge	637724	**122**
Mains lead 1.2 m with 230 V CEE plug, for separate main switch or for 300 U with main switch			635486	**17,80**

Closing edge safety devices / radio activating kit		**Article no.**	**€**
Closing edge safety device with optosensors, complete	Surcharge	637725	**136**
Closing edge safety device with VL 1-LE-300, complete **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	**136**
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	**277**
Radio activating kit extension set (omission of coiled cable) **Notice:** Only available in combination with 637725, 637726, 637727 or 637744.	Surcharge	636838	**247**
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	**82**
Double housing for closing edge safety device (SKS must be ordered separately); for use in extremely wet areas, protection category IP 66 (powerful jet-water protected)	Surcharge	637055	**593**
Limit switch for night lock (in conjunction with a closing edge safety device or AT3-300)		637016	**54**
Roller limit switch for night lock if fitting without door leaf branch boxes (SKS)		637063	**82**
Activating kit AT 3-300, for doors with wicket door and high threshold rail	Surcharge	637744	**147**

Photocells / light grilles			Article no.	€
Weather protective covers for photocells see page 85.				
One-way photocell EL 301 for floor fitting (for use in interiors and exteriors)	5)		436313	**118**
One-way photocell EL 51 for floor fitting (for use in interiors and exteriors)	6)		637023	**167**
One-way photocell EL 51 for fitting to top of industrial frames, sturdy bracket	6)		635340	**167**
One-way photocell EL 51 for fitting to bottom of industrial frames	6)		635341	**167**
One-way photocell EL 61, (for use in extremely wet areas, IP 67, powerful jet-water protected) Additional housing (article no. 637758) required!	6)		637222	**568**
Reflection photocell * RL 300, industrial floor fitting (for use in dry interiors)	5)		635022	**195**
Reflection photocell * RL 300, for fitting to top of industrial frames, sturdy bracket (for interior use in dry rooms)	5)		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 88

Air inlet control			Article no.	€
Air inlet control AC72 In industrial full housing with miniature lock, omission of DTH-R **Notice:** • Cannot be combined with control 360. • A 300 U or the WA 300 S4 prepared for 420 Si / Ti, omitted DTH-R must be ordered separately.	9)	Surcharge	4550801	**1140**
Air inlet control AC72 with PHC In full industrial housing with profile half cylinder, DTH-R omitted **Notice:** • Cannot be combined with control 360. • A 300 U or the WA 300 S4 prepared for 420 Si / Ti, omitted DTH-R must be ordered separately.	9)	Surcharge	4551228	**1209**
Cable monitoring UEB3 2K7 AE			635447	**83**
Combination warning light KSL; visual / acoustic			639350	**76**
Yellow LED traffic lights			436515	**32**
Yellow LED traffic lights, incl. piezo			436518	**37**
Power supply unit 24 V / 24 W to increase the charging current according to the requirements of DIN EN 12101-10 (can be integrated in 300 U)			4548491	**60**
Power supply unit connection accessories			636356	**21**

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

Additional accessories See pages 72 – 86

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 falling as a manually operated door.

1) Not in conjunction with one-way photocells
2) We recommend the emergency operation stated on page 42
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)
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

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
- 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
- Max. 150 door cycles per day
- Max. 10 door cycles per hour

Control
- Integrated microprocessor control in separate housing, with integrated Open-½ / 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

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

Shaft operator WA 300 S4				
Control	**Operator**	**Fastening options**	**Article no.**	**€**
External control 360 230 V 1-phase current (10 door cycles / hour)	WA 300 S4	For flange-mounting with chain wheel transmission	635369	**999**

Surcharges for emergency operation			**Article no.**	**€**
Secured release for operation from inside	2)	Surcharge	637729	**51**
Lockable release ASE on exterior, for operation from outside, incl. Bowden cable (only in combination with secured release, article no. 637729)	5)	Surcharge	637733	**165**

Control elements			**Article no.**	**€**
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug		Surcharge	637105	**70**
Lockable control with profile half cylinder		Surcharge	637100	**70**
Mains lead 1.2 m with 230 V CEE plug, for controls with main switch			635486	**17,80**

Closing edge safety devices / radio activating kit			**Article no.**	**€**
Closing edge safety device with optosensors, complete		Surcharge	637725	**136**
Closing edge safety device with VL 1-LE-300, complete **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	637726	**136**
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	637727	**277**
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	636938	**681**
Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door with trip-free threshold	7) 8) 9)	Surcharge	636867	**1848**
Radio activating kit extension set (omission of coiled cable) **Notice:** Only available in combination with 637725, 637726, 637727, 636938, 637744 or 637201.		Surcharge	636838	**247**
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	**82**
Double housing for closing edge safety device (SKS must be ordered separately); for use in extremely wet areas, protection category IP 66 (powerful jet-water protected)		Surcharge	637055	**593**
Limit switch for night lock (in conjunction with a closing edge safety device or AT3-300)			637016	**54**
Roller limit switch for night lock if fitting without door leaf branch boxes (SKS)			637063	**82**
Activating kit AT3-300, for doors with wicket door and high threshold rail		Surcharge	637744	**147**

Photocells / light grilles		Article no.	€
Weather protective covers for photocells see page 85.			
One-way photocell EL 301 for floor fitting (for use in interiors and exteriors)	4)	436313	**118**
One-way photocell EL 51 (for use in interiors and exteriors)	4)	637023	**167**
One-way photocell EL 51 for fitting to top of industrial frames, sturdy bracket	4)	635340	**167**
One-way photocell EL 51 for fitting to bottom of industrial frames	4)	635341	**167**
One-way photocell EL 61, (for use in extremely wet areas, IP 67, powerful jet-water protected)	4)	637222	**568**
Reflection photocell * RL 52 as a command unit (for use in dry interiors)		637084	**202**
Reflection photocell * RL 300, floor fitting (for use in dry interiors)		436710	**142**
Reflection photocell * RL 300, for fitting to top of industrial frames, sturdy bracket (for use in dry interiors)		436717	**195**

*** 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 88

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**
Multi-function circuit board with 2 relays (programmable)	637026	**107**
Circuit board for limit switch reporting with 2 relays (only in combination with multi-function circuit board, traffic control or central control)	637028	**58**
Circuit board for limit switch reporting with 2 relays and fuse (only in combination with multi-function circuit board, traffic control or central control)	637052	**76**
Circuit board for central control / smoke detector device	637243	**112**
Summer / winter operation activating kit with function report	637036	**404**
Extension housing for industrial door controls (semi-housing)	637014	**68**
Double housing for control for extremely wet areas, IP 66 (powerful jet-water protected)	637035	**450**

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)	Per m	637201	**128**
Pre-assembly of 8k2 end unit, left connection, 0.5 m connecting lead			637206	**196**
Pre-assembly of 8k2 end unit, right connection, 0.5 m connecting lead			637204	**196**
Pre-assembly of 8k2 end unit, left connection, 2.5 m connecting lead			637207	**196**
Pre-assembly of 8k2 end unit, right connection, 2.5 m connecting lead			637205	**196**
Activating kit for closing edge safety device 8K2 **Notice:** Required for safety contact strip 8K2.			638393	**160**

Additional accessories See pages 72 – 86

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 falling as a manually operated door.

1) Not in conjunction with one-way photocells
2) We recommend the emergency operation stated on page 42
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)

Shaft operator WA 400 / WA 400 M

Control A 445

Operator
- Ready-to-fit shaft operator with cable slack device
- Power input:
  – 3-phase current: 0.37 kW
  – 1-phase current: 0.30 kW
- Protection category IP 65 (jet-water protected)
- Electronic absolute encoder (AWG) for determining the door position

Control
- Microprocessor control in separate housing, with Open-Stop-Close membrane push button integrated in housing, miniature lock
- Adjustable power limit
- Protection category IP 65 (jet-water protected)
- Self-monitoring closing edge safety device (SKS) with optosensors
- Connection cable with CEE plug in protection category IP 44 (splash-water protected)
- Fitting of the control immediately next to the sectional door, plug-in door leaf sensors
- Dimensions (W × H): 195 × 310 mm

Function
- Opening with impulse
- Closing with impulse

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

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

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

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

Photocells / light grilles / radio activating kit			Article no.	€
Weather protective covers for photocells see page 85.				
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	**173**
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) 8) 10) 11)	Surcharge	636938	**681**
Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door with threshold rail	4) 5) 7) 8) 10) 11)	Surcharge	636867	**1848**
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	**247**
One-way photocell EL 51 (for use in interiors and exteriors)	9)		637023	**167**
One-way photocell EL 51 (for fitting to top of industrial frames), sturdy bracket	9)		635340	**167**
One-way photocell EL 51 (for fitting to bottom of industrial frames)	9)		635341	**167**
One-way photocell EL 61 for extremely wet areas, IP 67 (powerful jet-water protected)	9)		637222	**568**
Reflection photocell * RL 50 for door widths 500 – 8000 mm (for use in dry interiors)			637086	**195**
Reflection photocell * RL 50, for door widths from 500 – 8000 mm, for fitting to top of industrial frames, sturdy 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**

*** 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 88

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**

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

Additional accessories See pages 72 – 86

1) Use of WA 400 M only after technical inspection
2) We recommend the emergency operation stated on page 42
3) Exterior handle recommended
4) Not in conjunction with one-way photocells
5) Not suitable for use without optosensors (article no. 637139)
6) Not suitable for doors with wicket 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 in conjunction with light grille
10) 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)
11) Not in combination with safety contact strip 8k2

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 falling as a manually operated door.

Shaft operator WA 400 / WA 400 M

Control A 460

Operator
- Ready-to-fit shaft operator with cable slack device
- Power input:
  – 3-phase current: 0.37 kW
  – 1-phase current: 0.30 kW
- Protection category IP 65 (jet-water protected)
- Electronic absolute encoder (AWG) for determining the door position

Control
- Microprocessor control in separate housing with integrated Open-½ / Open-Stop-Close membrane push button, miniature lock
- Adjustable power limit
- Protection category IP 65 (jet-water protected)
- Self-monitoring closing edge safety device (SKS) with optosensors
- Connection cable with CEE plug in protection category IP 44 (splash-water protected)
- Fitting of the control immediately next to the sectional door, plug-in door leaf sensors
- Dimensions (W × H): 195 × 310 mm

Function
- Opening with impulse
- Closing 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)

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

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

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

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

Photocells / light grilles / radio activating kit			**Article no.**	**€**
Weather protective covers for photocells see page 85.				
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	**173**

Photocells / light grilles / radio activating kit			Article no.	€
Weather protective covers for photocells see page 85.				
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	**681**
Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door with threshold rail	4) 6) 7) 9)	Surcharge	636867	**1848**
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	**247**
One-way photocell EL 51 (for use in interiors and exteriors)	8)		637023	**167**
One-way photocell EL 51 (for fitting to top of industrial frames), sturdy bracket	8)		635340	**167**
One-way photocell EL 51 (for fitting to bottom of industrial frames)	8)		635341	**167**
One-way photocell EL 61 for extremely wet areas, IP 67 (powerful jet-water protected)	8)		637222	**568**
Reflection photocell * RL 50 for door widths 500 – 8000 mm (for use in dry interiors)			637086	**195**
Reflection photocell * RL 50, for door widths from 500 – 8000 mm, for fitting to top of industrial frames, sturdy 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**

*** 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 88

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 light MP 400 traffic control with 2 LED traffic lights and weekly timer ZSU 2, with extension housing	2-arm red / green (230 V / 50 Hz)	637533	**803**
	1-arm red / green (24 V DC)	638958	**803**

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

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**

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

Additional accessories See pages 72 – 86

1) Use of WA 400 M only after technical inspection
2) We recommend the emergency operation stated on page 42
3) Exterior handle recommended
4) Not in conjunction with one-way photocells
5) Not suitable for doors with wicket door with trip-free threshold
6) Not suitable for wash hall doors
7) Not in conjunction with VL 1-LE / VL 2-LE
8) Not in conjunction with light grille
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)

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 falling as a manually operated door.

Shaft operator WA 500 FU / WA 500 M-FU

Control 545 with soft start and soft stop

Operator
- Ready-to-fit shaft operator with frequency converter
- Power input:
  – 1-phase current: 0.72 kW
- Protection category IP 65 (jet-water protected)
- Electronic absolute encoder (AWG) for determining the door position
- Door travel speed up to 0.5 m/s
- Constant door travel speed, even with track applications H and V
- 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 × H): 195 × 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)

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	**1742**
	WA 500 FU	With chain box, with maintenance release	4514487	**1992**
	WA 500 M-FU	For centre mounting [1], not for track applications L / LD, with secured release	4514488	**2121**

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

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

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

Optional extras for shaft operator WA 500 FU with control 545			Article no.	€
Circuit board for limit switch reporting with 2 relays and fuse (only in combination with multi-function circuit board or central control)			637052	**76**
Circuit board for central control			637243	**112**
Activating kit for door leaf (SKS), max. assembly height 35 mm			637186	**415**

Photocells / light grilles / radio activating kit			Article no.	€
Weather protective covers for photocells see page 85.				
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	**173**
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	**681**
Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door with threshold rail	4) 6) 7) 9)	Surcharge	636867	**1848**
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	**247**
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 (bottom frame prepared at the factory for fitting) **Notice:** Not in conjunction with RC 2, VL-LE or HLG!			437922	**71**
Reflection photocell * RL 50, for door widths from 500 – 8000 mm, for fitting to top of industrial frames, sturdy 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**

*** 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 88

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 threshold rail!)			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 72 – 86

1) Use of WA 500 M only after technical inspection
2) We recommend the emergency operation stated on page 42
3) Exterior handle recommended
4) Not in conjunction with one-way photocells
5) Not suitable for doors with wicket door with trip-free threshold
6) Not suitable for wash hall doors
7) Not in conjunction with VL 1-LE / VL 2-LE
8) Not in conjunction with light grille
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)

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 falling as a manually operated door.

Shaft operator WA 500 FU / WA 500 M-FU

Control 560 with soft start and soft stop

Door travel speed
Up to 1 m/s

BlueControl
HÖRMANN

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

Control
- Microprocessor control in separate housing with integrated Open-½ / 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 × H): 195 × 310 mm

Function
- Soft open with impulse
- Soft close with impulse
- Any second opening height (½ / Open)
- 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)
- Prepared for traffic control (only in conjunction with activating kit for warning light and photocell / light grille or VL 1-LE / VL 2-LE)

Shaft operator WA 500 FU / WA 500 M-FU

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

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

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

Door travel speed up to 1 m/s	Article no.	€
Optional door travel speed up to 1 m/s Only possible in combination with article no. 4514505, WA 500 FU with chain box. **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.	4514083	–

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

Optional extras for shaft operator WA 500 FU with control 560	Article no.	€
Limit switch for night lock	637016	**54**
Multi-function circuit board with 2 relays (programmable)	637026	**107**
Circuit board for limit switch reporting with 2 relays (only in conjunction with a multi-function circuit board, traffic control or central control)	637028	**58**
Circuit board for limit switch reporting with 2 relays and fuse (only in combination with multi-function circuit board, traffic control or central control)	637052	**76**
Circuit board for central control	637243	**112**
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 85.				
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	**173**
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	**681**
Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door with threshold rail	4) 6) 7) 9)	Surcharge	636867	**1848**
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	**247**
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 (bottom frame prepared at the factory for fitting) **Notice:** Not in conjunction with RC 2, VL-LE or HLG!	8)		437922	**71**
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**

*** 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 88

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**

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

Safety contact strip 8k2 (not possible for doors with wicket door with threshold rail!)			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 72 – 86

1) Use of WA 500 M only after technical inspection
2) We recommend the emergency operation stated on page 42
3) Exterior handle recommended
4) Not in conjunction with one-way photocells
5) Not suitable for doors with wicket door with trip-free threshold
6) Not suitable for wash hall doors
7) Not in conjunction with VL 1-LE / VL 2-LE
8) Not in conjunction with light grille
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)

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 falling as a manually operated door.

Chain drive operator ITO 400

Control A 445

Operator
- 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: 0.37 kW
- Protection category IP 65 (jet-water protected)
- Electronic absolute encoder (AWG) for determining the door position
- Doors with wicket door on request

Control
- Microprocessor control in separate housing, with Open-Stop-Close membrane push button integrated in housing, miniature lock
- Adjustable power limit
- Protection category IP 65 (jet-water protected)
- Self-monitoring closing edge safety device (SKS) with optosensors
- Connection cable with CEE plug in protection category IP 44 (splash-water protected)
- Fitting of the control immediately next to the sectional door, plug-in door leaf sensors
- Dimensions (W × H): 195 × 310 mm

Function
- Opening with impulse
- Closing with impulse

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

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

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

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

Photocells / light grilles / radio activating kit			Article no.	€
Weather protective covers for photocells see page 85.				
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) 3) 6)		637108	–
Extension set for leading photocell VL 2-LE, incl. floor slides; mandatory for doors with wicket door with trip-free threshold	2) 6)	Surcharge	637107	**173**
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) 5) 7)	Surcharge	636938	**681**
Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door with threshold rail	1) 4) 5) 6) 7) 8)	Surcharge	636867	**1848**
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	**247**
One-way photocell EL 51 (for use in interiors and exteriors)	6)		637023	**167**
One-way photocell EL 51 (for fitting to top of industrial frames), sturdy bracket	6)		635340	**167**
One-way photocell EL 51 (for fitting to bottom of industrial frames)	6)		635341	**167**
One-way photocell EL 61 for extremely wet areas, IP 67 (powerful jet-water protected)	6)		637222	**568**
Reflection photocell * RL 50 for door widths 500 – 8000 mm (for use in dry interiors)			637086	**195**
Reflection photocell * RL 50, for door widths from 500 – 8000 mm, for fitting to top of industrial frames, sturdy 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**

*** 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 88

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)	2) 5) 6)	Per m	637201	**128**
Pre-assembly of 8k2 end unit, left connection, 0.5 m connecting lead			637206	**196**
Pre-assembly of 8k2 end unit, right connection, 0.5 m connecting lead			637204	**196**
Pre-assembly of 8k2 end unit, left connection, 2.5 m connecting lead			637207	**196**
Pre-assembly of 8k2 end unit, right connection, 2.5 m connecting lead			637205	**196**

Additional accessories See pages 72 – 86

1) Not in conjunction with one-way photocells
2) Not if closing edge safety device is omitted (article no. 637149)
3) Not suitable for doors with wicket door with trip-free threshold
4) Not suitable for wash hall doors
5) Not in conjunction with VL 1-LE / VL 2-LE
6) Not in conjunction with light grille
7) 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)
8) Not in combination with safety contact strip 8k2
9) Not suitable for doors with wicket door
10) Exterior handle recommended

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 falling as a manually operated door.

Chain drive operator ITO 400

Control A 460

Operator
- 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: 0.37 kW
- Protection category IP 65 (jet-water protected)
- Electronic absolute encoder (AWG) for determining the door position
- Doors with wicket door on request

Control
- Microprocessor control in separate housing with integrated Open-½ / Open-Stop-Close membrane push button, miniature lock
- Adjustable power limit
- Protection category IP 65 (jet-water protected)
- Self-monitoring closing edge safety device (SKS) with optosensors
- Connection cable with CEE plug in protection category IP 44 (splash-water protected)
- Fitting of the control immediately next to the sectional door, plug-in door leaf sensors
- Dimensions (W × H): 195 × 310 mm

Function
- Opening with impulse
- Closing 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)

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

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

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

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

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 falling as a manually operated door.

Photocells / light grilles / radio activating kit			Article no.	€
Weather protective covers for photocells see page 85.				
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	**173**
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	**681**
Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door with threshold rail	1) 3) 4) 5) 6)	Surcharge	636867	**1848**
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	**247**
One-way photocell EL 51 (for use in interiors and exteriors)	5)		637023	**167**
One-way photocell EL 51 (for fitting to top of industrial frames), sturdy bracket	5)		635340	**167**
One-way photocell EL 51 (for fitting to bottom of industrial frames)	5)		635341	**167**
One-way photocell EL 61 for extremely wet areas, IP 67 (powerful jet-water protected)	5)		637222	**568**
Reflection photocell * RL 50 for door widths 500 – 8000 mm (for use in dry interiors)			637086	**195**
Reflection photocell * RL 50, for door widths from 500 – 8000 mm, for fitting to top of industrial frames, sturdy 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**

*** 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 88

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 light MP 400 traffic control with 2 LED traffic lights and weekly timer ZSU 2, with extension housing	2-arm red / green (230 V / 50 Hz)	637533	**803**
	1-arm red / green (24 V DC)	638958	**803**

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

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 72 – 86

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

Chain drive operator ITO 500 FU

Control 545 with soft start and soft stop

Operator
- 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

Control
- 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

Function
- 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)

Chain drive operator ITO 500 FU with emergency release operated from inside				
			Normal and low headroom track application	
Control	**Track length (permanently defined)**	**Distance back for operator**	**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	3850 mm	4514492	**2382**
	Up to 3475 mm door height	4850 mm	4514493	**2523**
	Up to 4475 mm door height	5850 mm	4514494	**2665**

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

Optional extras for chain drive operator ITO 500 FU with control 545		Article no.	€
Emergency release from outside for ITO 500 – only in conjunction with door lock for exterior and interior operation		637050	**115**
Special track length (consider the basic price for the next largest door height)	Surcharge	637115	**220**
Adjustable suspension for 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 (article no. 4514028)		4514011	**27**
Wiring tool for CAT adapter box (can be reused several times)		4514028	**118**
Battery unit for control 545 / 560, incl. batteries For buffering the time and date of the control unit 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:** • Partial opening function is not possible in combination with control 545! • If the door width is wider than the fitting height, then another Widescan is required to secure the door.		4981575	**1121**
Widescan holder (galvanized steel)	Each	4982364	**95**
HCP-Hub 4 (required when more than 1 HCP bus participant is needed)		4510206	**83**
Operator with increased on-time ED+ (+5 cycles / hour)	Surcharge	637030	**215**
Double housing for closing edge safety device for extremely wet areas, protection category IP 66 (powerful jet-water protected)	Surcharge	637055	**593**
Double housing for control for extremely wet areas, protection category IP 66 (powerful jet-water protected)		637035	**450**
Extension housing for industrial door controls (semi-housing)		637014	**68**
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug	Surcharge	637105	**70**
Mains lead 1 m with CEE plug (230 V) for separate main switch		4514249	**50**
Lockable control with profile half cylinder	Surcharge	637100	**70**
Wicket door contact	Surcharge	637110	**82**
Limit switch for night lock		637016	**54**
Multi-function circuit board with 2 relays (programmable)		637026	**107**
Circuit board for limit switch reporting with 2 relays (only in conjunction with a multi-function circuit board, traffic control or central control)		637028	**58**
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 85.				
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	**173**
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	**681**
Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door with threshold rail	1) 3) 4) 5) 6)	Surcharge	636867	**1848**
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	**247**
One-way photocell EL 51 (for fitting to top of industrial frames), sturdy bracket	5)		635340	**167**
One-way photocell EL 51 (for fitting to bottom of industrial frames)	5)		635341	**167**
One-way photocell EL 61 for extremely wet areas, IP 67 (powerful jet-water protected)	5)		637222	**568**
One-way photocell EL 301 for floor fitting (Application areas: indoor and outdoor applications)	4)		436313	**118**
One-way photocell EL 401 (bottom frame prepared at the factory for fitting) **Notice:** Not in conjunction with RC 2, VL-LE or HLG!			437922	**71**
Reflection photocell * RL 50, for door widths from 500 – 8000 mm, for fitting to top of industrial frames, sturdy 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**

*** 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 88

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**

Further optional extras (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 72 – 86

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

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 falling as a manually operated door.

Chain drive operator ITO 500 FU

Control 560 with soft start and soft stop

Door travel speed
Up to 0.5 m/s

BlueControl
HÖRMANN

Operator
- 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

Control
- Microprocessor control in separate housing with integrated Open-½ / 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 × H): 195 × 310 mm

Function
- 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)

Chain drive operator ITO 500 FU with emergency release operated from inside

Control	Track length (permanently defined)	Distance back for operator	Normal and low headroom track application	
			Article no.	€
Control 560 230 V 1-phase current (with closing edge safety device, max. 25 door cycles / hour)	Up to 2475 mm door height	3850 mm	4514520	**2783**
	Up to 3475 mm door height	4850 mm	4514521	**2924**
	Up to 4475 mm door height	5850 mm	4514522	**3066**

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

Optional extras for chain drive operator ITO 500 FU with control 560		Article no.	€
Emergency release from outside for ITO 500 – only in conjunction with door lock for exterior and interior operation		637050	**115**
Special track length (consider the basic price for the next largest door height)	Surcharge	637115	**220**
Adjustable suspension for 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 (article no. 4514028)		4514011	**27**
Wiring tool for CAT adapter box (can be reused several times)		4514028	**118**
Battery unit for control 545 / 560, incl. batteries For buffering the time and date of the control unit if it is not supplied with mains voltage for more than 60 hours.		4514027	**21**
Widescan (intelligent command unit and to secure the door) **Notice:** • If the door width is wider than the fitting height, then another Widescan is required to secure the door.		4981575	**1121**
Widescan holder (galvanized steel)	Each	4982364	**95**
HCP-Hub 4 (required when more than 2 HCP bus participants are needed)		4510206	**83**
Operator with increased on-time ED+ (+5 cycles / hour)	Surcharge	637030	**215**
Double housing for closing edge safety device for extremely wet areas, protection category IP 66 (powerful jet-water protected)	Surcharge	637055	**593**
Double housing for control for extremely wet areas, protection category IP 66 (powerful jet-water protected)		637035	**450**
Extension housing for industrial door controls (semi-housing)		637014	**68**
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug	Surcharge	637105	**70**
Mains lead 1 m with CEE plug (230 V) for separate main switch		4514249	**50**
Lockable control with profile half cylinder	Surcharge	637100	**70**
Wicket door contact	Surcharge	637110	**82**
Limit switch for night lock		637016	**54**
Multi-function circuit board with 2 relays (programmable)		637026	**107**
Circuit board for limit switch reporting with 2 relays (only in conjunction with a multi-function circuit board, traffic control or central control)		637028	**58**
Circuit board for limit switch reporting with 2 relays and fuse (only in combination with multi-function circuit board, traffic control or central control)		637052	**76**
Circuit board for central control		637243	**112**

Photocells / light grilles / radio activating kit			Article no.	€
Weather protective covers for photocells see page 85.				
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	**173**
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	**681**
Extension set for double Hörmann light grille HLG as safety equipment for the main closing edge incl. radio activating kit (omission of coiled cable) for doors with wicket door with threshold rail	1) 3) 4) 5) 6)	Surcharge	636867	**1848**
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	**247**
One-way photocell EL 51 (for fitting to top of industrial frames), sturdy bracket	5)		635340	**167**
One-way photocell EL 51 (for fitting to bottom of industrial frames)	5)		635341	**167**
One-way photocell EL 61 for extremely wet areas, IP 67 (powerful jet-water protected)	5)		637222	**568**
One-way photocell EL 301 for floor fitting (Application areas: indoor and outdoor applications)	4)		436313	**118**
One-way photocell EL 401 (bottom frame prepared at the factory for fitting) **Notice:** Not in conjunction with RC 2, VL-LE or HLG!			437922	**71**
Reflection photocell * RL 50, for door widths from 500 – 8000 mm, for fitting to top of industrial frames, sturdy 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**

*** 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 88

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**

Further optional extras (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 72 – 86

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

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 falling as a manually operated door.

Operator SupraMatic HT for industrial sectional doors

Series 3

With integrated control

Operator
- Use in dry areas
- For track applications N and L
- Doors with wicket door on request
- ALR F42 Glazing doors and real glass available on request

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, opening speed max. 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!

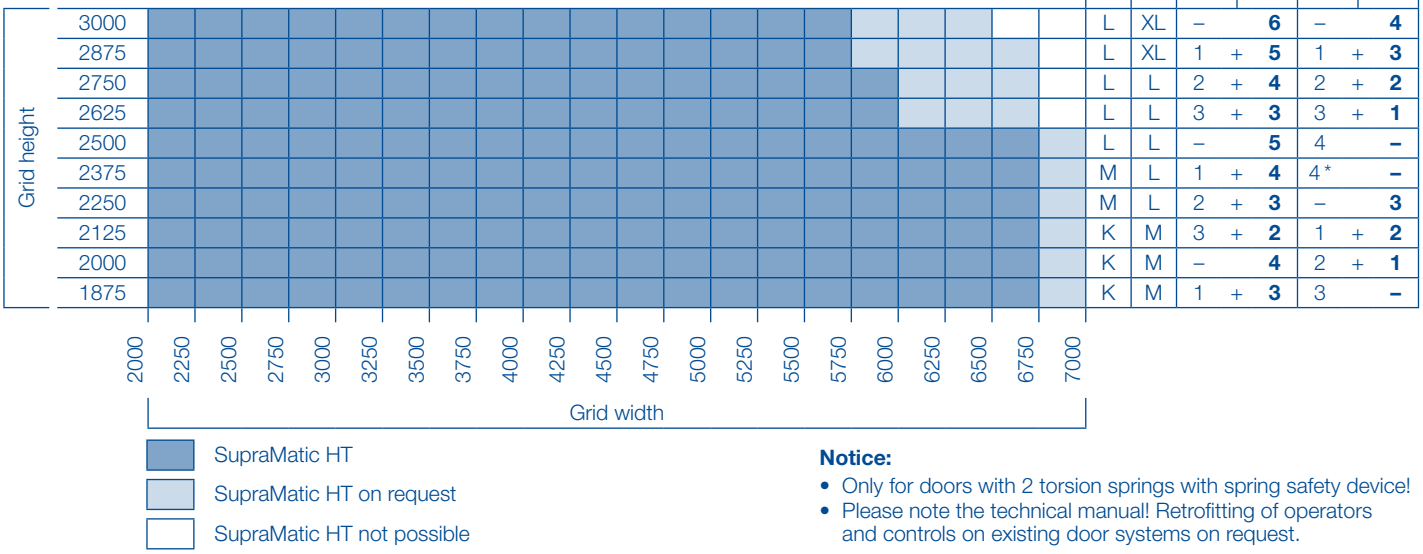
Housing
- Aluminium and plastic

Temperature range
- From –20 °C to +60 °C

Without radio remote control!
Accessories see from page 67.

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	**606**	435410	**151**	**757**
With medium track **M** FS 60	Sectional doors with track application N up to 2375 mm height Sectional doors with track application L up to 2125 mm height Total length 3450 mm, travel distance 2725 mm	4512301	**606**	435411	**186**	**792**
With long track **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	**606**	435412	**253**	**859**
With extra long track **XL** FS 60	Sectional doors with track application L up to 3000 mm height Total length 4375 mm, travel distance 3650 mm	4512301	**606**	439413	**310**	**916**



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 67

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	**136**
	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	**136**
	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	**277**
	Photocells		**Article no.**	**€**
	Weather protective covers for photocells see page 85.			
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	**82**
AT 2	Activating kit for door leaf for closing edge safety device and wicket door contact		436263	**103**
	Roller limit switch for night lock if fitting without door leaf branch boxes (SKS)		637063	**82**
ZT 2	Pull switch (impulse, stop, with pull cord length of approx. 3200 mm, protection category IP 65)		637510	**91**
DT 02	Push button, Impulse / Stop (Adapter print PSA, article no. 437131, required)		639891	**60**
ZSU 2	Digital daily and weekly timer, protection category IP 20		637501	**164**
	Housing ZSU 2, protection category IP 65		436276	**48**
PSA	Adapter print for connection of Stop button of DT 02		437131	**29**
HOR 1	To control a warning light, garage light, protection category IP 44		437997	**31**
UAP 1	Universal adapter print for choosing direction (Open / Stop / Close) via external control elements and / or partial opening functions. Additional volt-free contacts for Open / Close limit switch reporting as well as an option relay		436295	**78**
ZL 1	Connecting lead, 3 × 0.75 mm², length 1.5 m, with safety plug (for extension units)		436127	**9,50**
NET 2	Emergency release for sectional doors (handle set required)		437183	**37**
NET 3	Emergency release for double-skinned sectional doors without handle set, release via locking cylinder, drill hole Ø 13 mm, cable length 1.5 m		437149	**35**
NET 13	Emergency release sleeve for door leaf thickness > 42 mm, length 100 mm, drill hole Ø 13 mm **Notice:** Emergency release NET 3 (article no. 437149) must be ordered separately.		439782	**12,80**

*** 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 72 – 86

Overview of combination options for optical safety equipment See page 88

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

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, opening speed max. approx. 22 cm/s, protection category IP 20

Control
- Integrated microprocessor control in separate housing, with integrated Open-½ / 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!

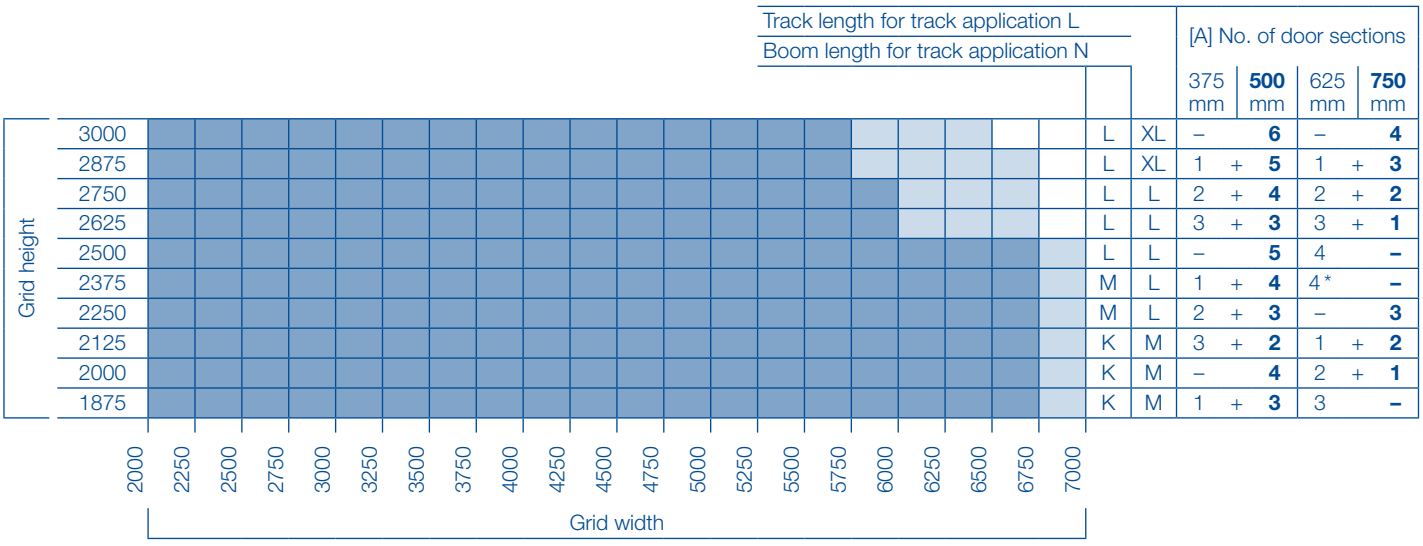
Housing
- Aluminium and plastic

Temperature range
- From –20 °C to 60 °C

Without radio remote control!
Accessories see page 69.

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	**856**	435410	**151**	**1007**
With medium track **M** FS 60	Sectional doors with track application N up to 2375 mm height Sectional doors with track application L up to 2125 mm height Total length 3450 mm, travel distance 2725 mm	636754	**856**	435411	**186**	**1042**
With long track **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	**856**	435412	**253**	**1109**
With extra long track **XL** FS 60	Sectional doors with track application L up to 3000 mm height Total length 4375 mm, travel distance 3650 mm	636754	**856**	439413	**310**	**1166**



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 * 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.

Control elements		Article no.	€
All-pole switch-off main switch in control housing, omission of mains lead with CEE plug	Surcharge	637105	**70**
Lockable control with profile half cylinder	Surcharge	637100	**70**
Mains lead 1.2 m with 230 V CEE plug, for controls with main switch		635486	**17,80**

Closing edge safety devices		Article no.	€
Closing edge safety device with optosensors, complete	Surcharge	637725	**136**
Closing edge safety device with VL 1-LE-300, complete **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	**136**
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	**277**
Wicket door contact (SKS or AT 3-300 required)	Surcharge	637110	**82**
Limit switch for night lock (in conjunction with a closing edge safety device or AT3-300)		637016	**54**
Roller limit switch for night lock if fitting without door leaf branch boxes (SKS)		637063	**82**
Activating kit AT3-300, for doors with wicket door and high threshold rail		637744	**147**

Photocells		Article no.	€
Weather protective covers for photocells see page 85.			
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 88

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**

1) Not in conjunction with light grille

Additional accessories See pages 72 – 86

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)	637014	**68**
Double housing for control for extremely wet areas, IP 66 (powerful jet-water protected)	637035	**450**
NET 2 emergency release for sectional doors (handle set required)	437183	**37**
NET 3 emergency release for double-skinned sectional doors without handle set, release via locking cylinder, drill hole Ø 13 mm, cable length 1.5 m	437149	**35**
NET 13 emergency release sleeve for door leaf thickness > 42 mm, length 100 mm, drill hole Ø 13 mm **Notice:** Emergency release NET 3 (article no. 437149) must be ordered separately.	439782	**12,80**

Additional accessories See pages 72 – 86

Notes and sketches

Operator accessories

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

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

Short designation		Description	Article no.	€ / each
		Receiver 868 MHz		
HE 3-MCX BS	BiSecur	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	BiSecur	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	BiSecur	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	BiSecur	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	BiSecur	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	BiSecur	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 × H × D): 135 × 30 × 32 mm	4511840	**116**
ESE MCX BS HCP	BiSecur	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 × H × D): 135 × 30 × 32 mm	4511842	**151**
ESEI BS	BiSecur	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	BiSecur	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 × H × D): 140 × 30 × 32 mm	4511841	**130**
HER 1 BS	BiSecur	1-channel relay receiver with status feedback (of the relay) via HS 5 HS 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	BiSecur	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	BiSecur	4-channel relay receiver with status feedback (of the relays) via HS 5 HS or optionally app (gateway required), with 4 volt-free relay outputs, frequency 868 MHz, IP 65, operating voltage 24 V DC / 230 – 240 V AC, without connecting lead	436726	**226**
HEU 2 BS	BiSecur	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	BiSecur	2-channel relay receiver with status feedback, for choosing direction (Open and Close) and limit switch reporting (can be connected to volt-free inputs on the HET) via HS 5 BS, or optionally app (gateway required), frequency 868 MHz, protection category IP 65, operating voltage: 24 V DC	436743	**110**
		Collective garage receiver 868 MHz		
SGE 1		Collective garage receiver for Hörmann door operators and operators of other makes or for easy and clear management of up to 1000 hand transmitter codings (e.g. in underground garages), with 2 volt-free relay outputs, incl. SD card, in separate housing, protection category IP 65, operating voltage 24 V DC, protected against incorrect polarity	637625	**313**
SGP 1		Hand transmitter programming device for SGE 1, for hand transmitter coding including PC software, hand transmitters can be programmed and read out.	637640	**273**
SGE 1 and SGP 1 set		Consisting of a collective garage receiver SGE 1 and hand transmitter programming device SGP 1	637641	**543**
		Pre-programming for hand transmitters For SGE 1, incl. SD card; hand transmitters can be pre-programmed as desired. **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 for controls A 445 and A 460
- 10 = Only in conjunction with a radio receiver

WA 300 With control		WA 400 / ITO 400 With control		WA 500 FU / ITO 500 FU With control		SupraMatic HT With control		General use ⭘
Integrated	External 360	A / B 445	A / B 460	545	560	Integrated	External 360	
•	•	•	•	•	•	•	•	
•	•	•	•	•	•	•	•	
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2	2 / 3	2	2 / 3	2 / 3	2 / 3	2 / 4	2 / 3	•
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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 400, WA 400 M, WA 500 FU, WA 500 M-FU, ITO 400, ITO 500 FU, SupraMatic HT and controls

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

Short designation		Description		Article no.	€/each
		868 MHz hand transmitters – only in conjunction with a receiver BiSecur hand transmitters are downward compatible with 868 MHz fixed code receivers			
HS 1 BS	BiSecur	1-button hand transmitter, impulse, incl. battery, with chrome-plated zinc die-cast caps	Black (textured surface)	4511720	**73**
HS 4 BS	BiSecur	4-button hand transmitter, impulse, incl. battery, with chrome-plated zinc die-cast caps	Black (textured surface)	4511724	**73**
HS 5 BS	BiSecur	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	BiSecur	1-button micro hand transmitter, impulse, incl. key ring and battery, with chrome-plated zinc die-cast caps	Black (textured surface)	4511728	**73**
HSE 4 BS	BiSecur	4-button micro hand transmitter, impulse, incl. key ring and battery, with chrome-plated zinc die-cast caps	Black (textured surface)	4511732	**73**
HSE 4 BS	BiSecur	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	BiSecur	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	BiSecur	2-channel radio transmitter module in housing		436786	**114**
		868 MHz industrial hand transmitters – only in conjunction with a receiver			
HSI BS	BiSecur	Industrial hand transmitter for controlling up to 1000 receivers		436789	**204**
		Wall holder for industrial hand transmitter HSI / HSI BS, including fixing material		637635	**15,50**
		Protective bag for industrial hand transmitter HSI / HSI BS, including clip		637636	**39**
		Copy cable with software, for coding industrial hand transmitters HSI / HSI BS or saving data on a PC		637637	**26**
		USB adapter on Com port		637634	**35**
		Connection cable for industrial hand transmitters HSI / HSI BS, for external voltage supply, for connecting to a forklift or another external power supply		637638	**8,5**
HSI 6 BS	BiSecur	Industrial hand transmitter for controlling up to 6 receivers		4511801	**114**
		Hand transmitter holder for HSI 6 BS, incl. fitting accessories for fitting to wall or box frame		437383	**8,5**
HSI 15 BS	BiSecur	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**

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

	WA 300 With control		WA 400 / ITO 400 With control		WA 500 FU / ITO 500 FU With control		SupraMatic HT With control		General use ⭘
	Integrated	External 360	A / B 445	A / B 460	545	560	Integrated	External 360	
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	•	•	•	•	•	•	•	•	•
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Operator accessories

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

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

Short designation	Description	Article no.	€ / each
	Cylinders with keys to pass for Hörmann key switches		
	Profile half cylinder 30.5 + 10 mm, lock plate lug 0°, fixed, 2 units with keys to pass	436120	**40**
	Profile half cylinder 30.5 + 10 mm, lock plate lug 0°, fixed, 3 units with keys to pass	436121	**52**
	Profile half cylinders with keys to pass in quantities larger than 3	On request	
	SmartControl		
SmartControl	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. **Notice:** Only possible in conjunction with article no. 639351!	4514094	**329**
	Annual usage fees for SmartControl per year The mobile connection required for SmartControl is made via the Deutsche Telekom mobile network using mobile radio standards 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 the conclusion of a contract 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	**69**
	KNX gateway		
KNX gateway	Gateway for controlling Hörmann operators and controls via the KNX building automation With 10 cm connecting lead with system plug, KNX bus line, protection category: only for dry rooms, temperature range: –20 °C to +60 °C, operating voltage: 24 V DC, housing: plastic, colour: Light grey RAL 7035, dimensions (W × H × D): 44 × 29 × 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 × H × D): 110 × 45 × 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 × H × D): 80 × 80 × 35 mm	4511829	**70**
	Hörmann GSM Control		
GSM Control	Opening of the system via telephone call, receipt of status or malfunction information via text message, no limits regarding the distance, easy parameterisation with the enclosed software or text message commands, up to 1000 authorised users (telephone numbers) can be stored, telephone calls are free of charge for the users, 100 – 240 V AC, 50 / 60 Hz, 2 volt-free normally open contacts (max. switching output 5 A), 4 digital inputs (freely configurable), temperature range –20 °C to +60 °C, protection category IP 65, transmission channel 4G / 3G / 2G / GSM, frequency range UMTS 900 / 1200 MHz, GSM / GPRS 900 / 1800 MHz	639782	**543**

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

	WA 300 With control		WA 400 / ITO 400 With control		WA 500 FU / ITO 500 FU With control		SupraMatic HT With control		General use ✪
	Integrated	External 360	A / B 445	A / B 460	545	560	Integrated	External 360	
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Operator accessories

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

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

Short designation	Description	Article no.	€ / each	
	WLAN internal push button			
IT-WLAN	• Gateway for the control of Hörmann controls via the Apple HomeKit • Integrated internal push button (impulse, partial opening), illuminated keypad, with 7 m connecting lead, 6-wire, protection category: only for dry rooms, temperature range: –20 °C to +60 °C; operating voltage: 24 V DC; colour: Pure white RAL 9010; dimensions (W × H × D): 80 × 80 × 35 mm • Management and setup via: – Apple Home App (free download from the App StoreSM) / Hörmann Cloud (cd. oermann.com) • Remote access and operation via: – HomePod, Apple TV 4K, Apple TV (3rd / 4th generation) – Amazon Alexa – Google Home / Google Assistant • Can be connected to SupraMatic HT series 3 • Simple operation of garage door operators by voice assistant (depending on voice assistant) and app	4511628	**129**	
	Homematic IP gateway			
Homematic IP gateway	• Gateway for the control of Hörmann operators via the Homematic IP Smart Home 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 × H × D): 51 × 47.5 × 16 mm • Management via Homematic IP app (iOS, Android) and Homematic WebUI • System requirements: – Homematic IP Access Point with operation 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**	
	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 × H × D): 36 × 41 × 8 mm • Management via Tydom app (iOS, Android) • System requirements: Tydom gateway 1.0 / 2.0, iOS devices from software version 9.0 or higher, Android devices from software version 5.0 or higher • Tydom app (free download from the App StoreSM or Google PlaySM) – Simple individual or automated operation of door operators via the Tydom gateway or via programmable scenarios – Simple creation and activation of scenarios – Control of several Tydom gateways	4510102	**126**	

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

	WA 300 With control		WA 400 / ITO 400 With control		WA 500 FU / ITO 500 FU With control		SupraMatic HT With control		General use ✪
	Integrated	External 360	A / B 445	A / B 460	545	560	Integrated	External 360	
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	•						•		
	•						•		

Operator accessories

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

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

Short designation		Description	Article no.	€ / each
		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 82): For 230 V AC, use connecting lead ZL 1; for 24 AC / DC and for providing impulse to operator, use connecting lead ASL.	4511631	**175**
CTR 3b-1		Code switch with 3 separate relay outputs, impulse to control two operators and / or outdoor lighting, illuminated keypad, 230 V AC or 24 V AC / DC, without connecting lead Power supply (for connecting leads, see page 82): For 230 V AC, use connecting lead ZL 1; for 24 AC / DC and for providing impulse to operator, use connecting lead ASL.	4511632	**201**
CTV 3-1		Code switch with keypad protected against vandalism, with 3 separate relay outputs, impulse to control two operators and / or outdoor lighting, 230 V AC or 24 V AC / DC, without connecting lead Power supply (for connecting leads, see page 82): For 230 V AC, use connecting lead ZL 1; for 24 AC / DC and for providing impulse to operator, use connecting lead ASL.	4511633	**240**
CTP 3-1		Code switch with capacitive, illuminated keypad, with 3 separate relay outputs, impulse to control two operators and / or outdoor lighting, 230 V AC or 24 V AC / DC, without connecting lead Power supply (for connecting leads, see page 82): For 230 V AC, use connecting lead ZL 1; for 24 AC / DC and for providing impulse to operator, use connecting lead ASL.	4511634	**240**
CTR 1d		Code switch with 1 relay output, impulse to control one operator, keypad protected by a hinged panel, 230 V AC or 24 V DC, without connecting lead Notice: Use a mains adapter (article no. 436109, page 82) 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	BiSecur	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	BiSecur	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	BiSecur	Radio finger-scan BiSecur, impulse for controlling 2 operators by means of fingerprint, up to 25 fingerprints can be taught in, cannot be deleted individually, hinged cover, activation by opening the cover or by pressing the “ON” button; protection category: IP 54, housing: plastic, painted White aluminium RAL 9006, incl. battery	4511870	**189**
FL 150		Finger-scan, impulse, to control door operators via fingerprint, 150 fingerprints can be taught in (can be individually deleted), connecting voltage 230 V	4511640	**514**

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

	WA 300 With control		WA 400 / ITO 400 With control		WA 500 FU / ITO 500 FU With control		SupraMatic HT With control		General use ⭘
	Integrated	External 360	A / B 445	A / B 460	545	560	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	•
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	• / 10	• / 10	• / 10	• / 10	• / 10	• / 10	• / 10	• / 10	•
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Operator accessories

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

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

Short designation	Description	Article no.	€ / each
	Key switch posts (cable extension may be required)		
STN 1	Key switch post to hold 1 command unit With screw base for fitting to the surface, Surface finish 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 finish 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 fitting to the surface, Surface finish 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 finish in White aluminium based on RAL 9006, Dimensions: height 1200 mm, tube 90 × 90 mm ***Command units / warning lights are not included in the scope of delivery.***	638978	**292**
STI 1	Key switch post without control (to hold max. 2 controls and an extension housing)	437083	**252**
STL 2	Key switch post set without command units for Hörmann light grille HLG-V 2600 mm (article no. 638458)	638904	**345**
	Cable extensions		
	Special length of system cable between frame box and control — Surcharge per m	637070	**4,30**
	Special length motor control (not B 460 FU) — Surcharge per m	637080	**14,70**
	Special length motor control (B 460 FU) — Surcharge per m	637085	**14,70**
	Connecting leads, 3-wire, 230 V		
ZL 1	1.5 m length, 3 × 0.75 mm² with safety plug Suitable for power supply to the following devices: TTR 1000-1, CTR 1b-1, CTR 3b-1, CTV3-1 and CTP 3-1.	436127	**9,50**
	Connecting leads, 6-wire, only 24 V (Suitable for impulse control of all buttons)		
ASL 2	2 m long, stripped on one end	436125	**8,50**
ASL 10	10 m long, stripped on one end	436126	**17,80**
ASL 50	50 m roll	436065	**54**
	Coiled cable Special solutions for sectional doors (e.g. alarm contact or electric strike for wicket door etc.)		
	Coiled cable 7 × 0.25 mm², up to 6 m	637527	**76**
	Coiled cable 9 × 0.25 mm², up to 6 m	4545155	**96**
	Mains adapter		
	Mains adapter with 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-½ / Open	637715	**60**
DTH-IM	Push button Impulse-Stop-½ / 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 / ½ Open	639886	**103**
DTN A 30	Push button, Open / Stop / Close, can be switched off with emergency-off switch	639887	**107**
DTP 02	Push button Impulse / Stop, lockable (profile half cylinder article no. 436122 required)	637044	**202**
DTP 03	Push button Open / Stop / Close, lockable (profile half cylinder article no. 436122 required)	637045	**273**
DTN 10	Emergency-off switch	639888	**80**
DTG 01	Foot and mushroom button, opening device, protection category IP 67, press and hold	639890	**142**

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

WA 300 With control		WA 400 / ITO 400 With control		WA 500 FU / ITO 500 FU With control		SupraMatic HT With control		General use ✪
Integrated	External 360	A / B 445	A / B 460	545	560	Integrated	External 360	
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•/7	•		•	•	•	•/5	•	•
•/7	•		•	•	•	•/5	•	•
•/7	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•/5	•	•
•/7	•		•	•	•	•/5	•	•
•	•	•	•	•	•	•/5	•	•
•/7	•	•	•	•	•	•/5	•	•
•	•	•	•	•	•	•/5	•	•
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•	•	•	•	•	•	•	•	•

Operator accessories

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

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

Short designation	Description	Article no.	€ / each
	Pull switch / cantilever arm		
ZT 2	Pull switch, impulse, with pull cord length of approx. 3200 mm, protection category IP 65	637510	**91**
	Cantilever arm, extension adjustable from approx. 1600 mm to 3000 mm, without pull switch	637003	**235**
	Optional extras for photocells		
	Weather protective cover for reflection photocells RL 30, RL 50, RL 52, RL 100 and RL 300, as well as one-way photocells EL 31, EL 51, EL 101, EL 301 or angular reflector (up to 8000 mm) **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 × and art. no. 437076 is required 1 ×.	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**
TL40S rd	LED traffic light, red (230 V / 50 Hz), multi-function or travel limit circuit board required!	637534	**124**
TL40S gn	LED traffic light, green (230 V / 50 Hz), multi-function or travel limit circuit board required!	637535	**124**
TL40S ye	LED traffic light, yellow (230 V / 50 Hz), multi-function or travel limit circuit board required!	637536	**112**
TL40S rd / gn	LED traffic light, red / green (230 V / 50 Hz), multi-function or traffic control circuit board required!	637537	**208**
TL40S rd / ye / gn	LED traffic light, red / yellow / green (24 V DC), 1-arm Multi-function or traffic control circuit board required!	637896	**195**
LED-WLR	Warning light tube for fixing to the door as an additional warning during door travel, yellow light colour, operating voltage 24 V DC, protected against incorrect polarity, max. 1.8 W, protection category IP 44 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 BiSecur	Light flash control with BiSecur radio transmitter 868 MHz (radio receiver required)	436787	**444**
RBM 2 E	Radar movement detector for Open door function, not a safety device	637484	**446**
	Infrared remote control (for radar movement detector RBM 2 E)	637485	**138**
	Roller limit switch for status query of the shootbolt in the frame, without coiled cable, not VdS-approved!	637063	**82**
	Magnet switch VDS-class C Monitoring contact, door closed, e.g. for alarm systems	637675	**89**
	Alarm horn, IP 33, connecting voltage 230 V AC, multi-function or travel limit circuit board required!	637197	**125**
	Fitting struts for control and extension housing (frame fitting)	637696	**30**

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	WA 300 With control		WA 400 / ITO 400 With control		WA 500 FU / ITO 500 FU With control		SupraMatic HT With control		General use ✪
	Integrated	External 360	A / B 445	A / B 460	545	560	Integrated	External 360	
	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•
	•		•	•	•	•			
	•								
	•						•		
		•	•	•	•	•		•	•
		•	•	•	•	•		•	•
	•/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	•/9	•/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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Operator accessories

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

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

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

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

	WA 300 With control		WA 400 / ITO 400 With control		WA 500 FU / ITO 500 FU With control		SupraMatic HT With control		General use ✪
	Integrated	External 360	A / B 445	A / B 460	545	560	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

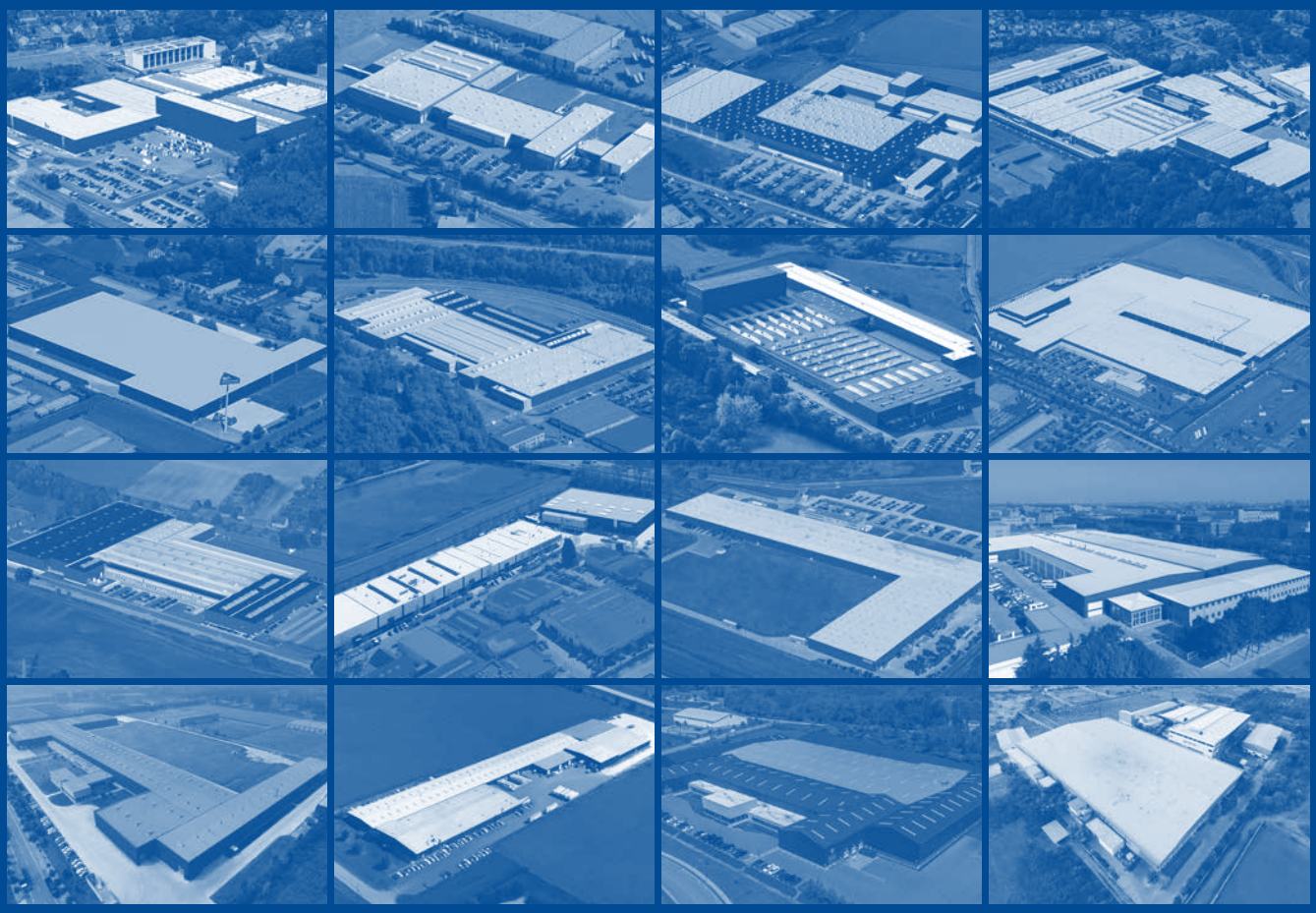
Notices:

- 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.

Article no.	Articles	637108 / 637726	637107 / 637727	635340	635341	637023	637222	436313	437922	637086	637084	436710	436717	636938	636867
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 (integrated in the bottom of the frame)	○	○	●	○	○	○	○	–	●	●	●	●	○	○
637086	Reflection photocell RL 50 for door widths 500 – 8000 mm	●	●	●	●	○	●	○	●	–	●	○	●	●	○
637084	Reflection photocell RL 52 as a command unit	●	●	●	●	●	●	●	●	●	–	●	●	●	●
436710	Reflection photocell RL 300, 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 surface (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 threshold rail	○	○	○	○	○	○	○	○	○	●	○	○	○	–

Brand quality for residential and commercial construction

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



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