

Industrial price list 04-22.1

Valid from 01.06.2022

High-speed doors

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	For V 3010	See from page 52
	For high-speed folding doors	See from page 66
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Explanations for product designations:

Letter = door type

F	For high-speed folding doors	SE	For SoftEdge and anti-crash
HS	For spiral and high-speed sectional doors	TR	For transparent curtain
L	For safety light grille	V	For doors with vertical travel
MS	For equipment protection		
R	For tubular drive		

Turbo spiral door HS 5040 TurboLux

Turbo spiral door with maximum transparency and counter weights

Door construction with non-contact roll-up technology, suitable for interior and exterior use, resistance to wind load in acc. with DIN EN 12424 class 2. Increase to wind class 4 optionally possible.

Door travel speed (max.)

Frequency converter control

Open: Max. 3.5 m/s
Close: Approx. 1.0 m/s

Door leaf

Impact-resistant polycarbonate sections, approx. 550 mm high, connected by aluminium profiles.

Construction

Side guides with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height 2500 mm). Optimum sealing of the door leaf to the side elements with an edge guard. Spiral bracket for non-contact rolling of the door leaf sections, precise guiding thanks to lateral twin rollers and low-wear rolling up.

Counterbalanced through counter weights.

Emergency opening and closing via emergency hand chain (standard chain length 2000 mm all-round).

Operator

Operator with spur gear level and electromagnetic brake, motor power 1.8 kW, connecting voltage 3 x 230 V, 50 Hz, protection category IP 54. Free choice of right or left arrangement of the operator on order.

Control

Control AK 500 FUE-1 in plastic control box, IP 65, 3-phase, 400 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
5000	14322	14578	14836	15094	15349	15607	15864	16121	16377	16634	16891	17148	17407
4750	14137	14382	14629	14872	15120	15368	15611	15857	16102	16349	16594	16840	17086
4500	13950	14185	14418	14654	14888	15121	15355	15590	15826	16060	16294	16530	16763
4250	13757	13980	14204	14427	14652	14872	15098	15321	15545	15768	15992	16214	16438
4000	13564	13775	13986	14200	14413	14626	14836	15047	15259	15472	15684	15897	16108
3750	13366	13568	13768	13968	14170	14369	14571	14772	14972	15175	15375	15576	15777
3500	13164	13355	13544	13735	13924	14113	14304	14493	14682	14870	15060	15250	15441
3250	12961	13140	13319	13497	13674	13852	14032	14210	14388	14567	14745	14923	15101
3000	12754	12921	13088	13256	13423	13591	13756	13924	14091	14258	14427	14593	14762
2750	12544	12700	12855	13013	13166	13323	13479	13635	13794	13949	14104	14258	14416
2500	12330	12474	12620	12764	12911	13055	13201	13343	13490	13632	13777	13922	14066
2250	12113	12247	12382	12516	12648	12782	12915	13050	13183	13315	13448	13582	13718
2000	11893	12019	12140	12261	12383	12506	12627	12749	12872	12995	13117	13240	13363
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
Clear width													

Shaft cover made of polycarbonate *													€
Clear width	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
	560	616	672	727	783	839	895	950	1006	1062	1118	1173	1229

* First Edition until the end of 2022 always with shaft cladding made of polycarbonate in transparent version at no surcharge.

Optional extras			€
Increase to wind class 4 through additional plastic strip in the area of the twin rollers	per m LDH		102
Foil coating of the individual sections			On request
Accessories for operators and controls			See from page 48
RAL colour coating to choose			See page 50

Turbo spiral door HS 5040 TurboLux S

Fastest spiral door with maximum transparency and springs

Door construction with non-contact roll-up technology, suitable for interior and exterior use, resistance to wind load in acc. with DIN EN 12424 class 2. Increase to wind class 4 optionally possible.

Door travel speed (max.)

Frequency converter control

Open: Faster than 4 m/s

Close: Approx. 1.0 m/s

Door leaf

Impact-resistant polycarbonate sections, approx. 550 mm high, connected by aluminium profiles

Construction

Side guides with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height 2500 mm). Optimum sealing of the door leaf to the side elements with an edge guard. Spiral bracket for non-contact rolling of the door leaf sections, precise guiding thanks to lateral twin rollers and low-wear rolling up.

Counterbalanced through counter weights.

Emergency opening and closing via emergency hand chain (standard chain length 2000 mm all-round). Additionally, emergency opening via emergency handle possible.

Operator

Operator with spur gear level and electromagnetic brake, integral catch safety device and digital limit switch. Motor power 1.8 kW, connecting voltage 3 × 230 V ***, 50 Hz, protection category IP 54. Free choice of right or left arrangement of the operator on order.

Control

Control BK 150 FUE-1 in plastic control box, IP 65, 1-phase, 230 V, size (W × H × D) 230 × 460 × 200 mm, frequency converter, electronic travel limit setting, "Open-Stop-Close" membrane push button, automatic timer and display. Connection cable with CEE plug, 3 volt-free contacts available.

	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
5000	14722	14978	15236	15494	15749	16007	16264	16521	16777	17034	17291	17548	17807
4750	14537	14782	15029	15272	15520	15768	16011	16257	16502	16749	16994	17240	17486
4500	14350	14585	14818	15054	15288	15521	15755	15990	16226	16460	16694	16930	17163
4250	14157	14380	14604	14827	15052	15272	15498	15721	15945	16168	16392	16614	16838
4000	13964	14175	14386	14600	14813	15026	15236	15447	15659	15872	16084	16297	16508
3750	13766	13968	14168	14368	14570	14769	14971	15172	15372	15575	15775	15976	16177
3500	13564	13755	13944	14135	14324	14513	14704	14893	15082	15270	15460	15650	15841
3250	13361	13540	13719	13897	14074	14252	14432	14610	14788	14967	15145	15323	15501
3000	13154	13321	13488	13656	13823	13991	14156	14324	14491	14658	14827	14993	15162
2750	12944	13100	13255	13413	13566	13723	13879	14035	14194	14349	14504	14658	14816
2500	12730	12874	13020	13164	13311	13455	13601	13743	13890	14032	14177	14322	14466
2250	12513	12647	12782	12916	13048	13182	13315	13450	13583	13715	13848	13982	14118
2000	12293	12419	12540	12661	12783	12906	13027	13149	13272	13395	13517	13640	13763
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
Clear width													

Shaft cover made of polycarbonate *													€
Clear width	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
	560	616	672	727	783	839	895	950	1006	1062	1118	1173	1229

* First Edition until the end of 2022 always with shaft cladding made of polycarbonate in transparent version at no surcharge.

Optional extras		€
Increase to wind class 4 through additional plastic strip in the area of the twin rollers	per m LDH	102
Foil coating of the individual sections		On request
Accessories for operators and controls		See from page 48
RAL colour coating to choose		See page 50

Spiral door HS 7030 PU 42

42 mm insulated with non-contact roll-up technology

RC 2



Door construction with non-contact roll-up technology, suitable for interior and exterior use, resistance to wind load in acc. with DIN EN 12424.

LDB doors ≤ 5000 mm class 5,
LDB doors > 5000 mm and ≤ 6000 mm class 4,
LDB doors > 6000 mm class 2.

Door travel speed (max.)

Frequency converter control

Open: Door width ≤ 6.5 m max. 1.5–2.5 m/s

Door width > 6.5 m max. 1.5–2.5 m/s

Close: Approx. 0.5 m/s

Door leaf

42-mm-thick PU-foamed door sections with thermal break, opposite side profiled Micrograin, fitting side Stucco-textured RAL 9006 (White aluminium). Section height 250 mm, thermal insulation value $U_p = 1.04 \text{ W/(m}^2 \text{ K)}$, seal between the individual profiles and side element seal. In case of external fitting, the hinges are visible from the outside. We additionally recommend the use of a gearbox heater (see page 49).

Construction

Side guides made of canted, galvanized material with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height 2500 mm). Spiral bracket for non-contact rolling of the door leaf sections, precise guiding thanks to plastic side rollers and chain guide.

Counterbalance up to 5000 × 5000 mm with a maximum of 5 glazing rows, weight compensation via counter weights. Doors larger than 5000 × 5000 mm are balanced by tension springs.

Emergency opening and closing via an emergency hand chain (standard chain length 10000 mm, all-round), floor and side seals.

Clear height	Clear width												
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
6500	20530	20959	21390	21833	22261	22693	23126	23557	23990	24427	24860	25291	25722
6250	20299	20716	21131	21554	21972	22389	22806	23222	23640	24062	24480	24896	25313
6000	20067	20469	20874	21279	21680	22082	22486	22889	23292	23696	24099	24502	24906
5750	19839	20226	20616	21002	21391	21779	22171	22555	22944	23333	23718	24108	24495
5500	19605	19978	20353	20722	21096	21468	21844	22216	22587	22962	23336	23711	24083
5250	19367	19725	20082	20443	20799	21157	21516	21875	22231	22587	22948	23305	23662
5000	19124	19466	19810	20154	20496	20839	21183	21526	21868	22211	22555	22897	23243
4750	18877	19205	19534	19858	20190	20520	20845	21173	21501	21832	22157	22486	22815
4500	18628	18941	19253	19567	19879	20191	20503	20818	21132	21445	21757	22072	22383
4250	18369	18667	18967	19265	19565	19858	20161	20458	20756	21055	21354	21650	21950
4000	18112	18393	18676	18960	19245	19530	19810	20093	20375	20660	20942	21227	21510
3750	17847	18117	18383	18651	18920	19187	19458	19726	19992	20263	20530	20798	21066
3500	17577	17833	18084	18341	18593	18844	19099	19352	19605	19856	20110	20363	20618
3250	17306	17546	17784	18023	18260	18496	18736	18975	19212	19451	19689	19926	20165
3000	17031	17253	17477	17700	17923	18148	18368	18593	18816	19038	19264	19486	19712
2750	16750	16959	17166	17376	17581	17790	17998	18207	18418	18626	18833	19038	19250
2500	16464	16657	16851	17044	17239	17432	17627	17817	18012	18203	18396	18589	18783
2250	16174	16353	16533	16712	16889	17067	17246	17425	17604	17779	17957	18136	18317
2000	15880	16049	16210	16372	16535	16699	16861	17023	17188	17352	17515	17679	17842

Duratec glazing												Per section €	
2 ×	155	175	193	211	228	249	268	285	304	321	342	359	376

Shaft cover, 2-sided

► Only for doors with LDH ≥ 2500 mm

3°	1152	1187	1225	1259	1294	1513	1550	1583	1619	1654	1689	1723	1759
10°	1561	1608	1654	1704	1749	1997	2047	2093	2140	2188	2237	2284	2332

Shaft cover, 3-sided

► Required for doors with LDH < 2500 mm!

3°	1387	1436	1485	1531	1579	1891	1941	1987	2034	2083	2133	2179	2227
10°	1793	1853	1913	1976	2034	2376	2437	2497	2557	2619	2677	2737	2799

Optional extras

Single-skinned section with stainless steel expanded mesh (54% ventilation cross-section)	per m LDB	108
ThermoFrame – frame support with thermal break		€
Plastic angle profiles (3 ×) black, 84 × 22.5 mm with lip seal and lintel seal with 2 lip seals	per m LDH	102

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch and emergency opening via emergency hand chain, motor power 1.5 kW, connecting voltage 400 V, 50 Hz, protection category IP 54, operator side on right or left.

Control

Control AK 500 FUE-1 in plastic control box, IP 65, 3-phase, 400 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

Glazing (optional)

Double glazing in aluminium extrusion profiles E6/C0, Duratec 26 mm thick, 160 mm glass height with intermediate spacers and glazing beads.

		5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000
		5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000
Clear height	6500	26156	26585	27020	27454	27888	28322						
	6250	25734	26147	26565	26986	27404	27824						
	6000	25307	25709	26113	26516	26921	27324						
	5750	24883	25271	25661	26048	26437	26823						
	5500	24454	24826	25201	25573	25948	26319						
	5250	24020	24378	24739	25096	25455	25813						
	5000	23584	23925	24271	24613	24959	25302	27153	27496	27839	28181	28524	28867
	4750	23141	23472	23799	24126	24454	24783	26620	26947	27277	27604	27932	28261
	4500	22698	23010	23323	23638	23951	24265	26089	26402	26714	27028	27342	27656
	4250	22249	22545	22844	23140	23440	23738	25542	25839	26136	26433	26728	27025
	4000	21792	22076	22359	22642	22927	23209	25000	25282	25563	25846	26127	26409
	3750	21334	21602	21869	22139	22405	22672	24450	24717	24984	25251	25518	25786
	3500	20872	21125	21378	21631	21884	22138	23903	24158	24414	24668	24924	25178
	3250	20403	20642	20879	21119	21357	21594	23339	23577	23813	24050	24287	24523
	3000	19932	20157	20377	20602	20827	21049	22779	22999	23221	23441	23661	23884
	2750	19458	19666	19875	20082	20290	20498	22217	22425	22633	22842	23050	23259
	2500	18978	19171	19366	19556	19751	19945	21646	21840	22032	22225	22417	22611
	2250	18492	18669	18850	19028	19208	19383	21068	21245	21420	21595	21771	21948
	2000	18003	18170	18332	18493	18658	18822	20496	20659	20822	20985	21148	21312
		5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000
		Clear width											

Duratec glazing						Per section €							
2 x	398	414	433	451	470	488	507	527	546	565	583	602	

Shaft cover, 2-sided													
► Only for doors with LDH ≥ 2500 mm													
3°	1795	1828	1865	1900	1935	1971	2006	2042	2078	2113	2150	2185	
10°	2379	2429	2473	2521	2568	2619	2666	2714	2761	2808	2856	2904	
Shaft cover, 3-sided													
► Required for doors with LDH < 2500 mm!													
3°	2277	2326	2371	2419	2469	2517	2563	2614	2661	2708	2758	2805	
10°	2860	2919	2980	3043	3100	3163	3224	3287	3347	3410	3471	3533	

Acoustic-rated solutions up to -31 dB	See page 16
Further controls and emergency openings	See from page 44
Accessories for operators and controls	See from page 48
RAL colour coating to choose	See page 50

Notice:

Painting of the sections is only possible up to a clear width of 6800 mm

Spiral door HS 7030 PU 42

42 mm insulated with non-contact roll-up technology



Maximum glazing / ventilation grille

		≤ 4000	> 4000 ≤ 5000	> 5000 ≤ 6500	> 6500
Clear height	6500	23	21	5	
	6250	22	20	5	
	6000	21	19	5	
	5750	20	18	5	
	5500	19	17	5	
	5250	18	16	5	
	5000	17	15	5	5
	4750	16	14	5	5
	4500	15	13	5	5
	4250	14	12	5	5
	4000	13	11	5	5
	3750	12	10	5	5
	3500	11	9	5	5
	3250	10	8	5	5
	3000	9	7	5	5
	2750	8	6	4	4
	2500	7	5	3	3
	2250	6	4	2	5
	2000	5	3	1	1
		≤ 4000	> 4000 ≤ 5000	> 5000 ≤ 6500	> 6500
Clear width					

Profiles * 1 each 2 each 3 each

* Closed profiles on top and bottom

Notes and sketches

Spiral door HS 5012 PU 42 S

42 mm insulated with non-contact roll-up technology and narrow side elements



Door construction with non-contact roll-up technology, suitable for interior and exterior use, resistance to wind load in acc. with DIN EN 12424 class 5.

Door travel speed (max.)

Frequency converter control

Open: Max. 1.2 m/s

Close: Approx. 0.5 m/s

Door leaf

42-mm-thick PU-foamed door sections with thermal break, opposite side profiled Micrograin, fitting side Stucco-textured RAL 9006 (White aluminium). Section height 250 mm, thermal insulation value $U_p = 1.04 \text{ W/(m}^2 \text{ K)}$, seal between the individual profiles and side element seal. In case of external fitting, the hinges are visible from the outside. We additionally recommend the use of a gearbox heater (see page 49).

Construction

Side guides made of canted, galvanized material with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height 2500 mm). Spiral bracket for non-contact rolling of the door leaf sections, precise guiding thanks to plastic side rollers and chain guide. Emergency opening and closing via an emergency hand chain (standard chain length 10000 mm, all-round), floor and side seals.

		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear height	5000	17594	17909	18226	18543	18854	19172	19489	19805	20118	20434	20750	21066	21385	
	4750	17366	17668	17972	18272	18576	18879	19178	19477	19779	20085	20386	20688	20988	
	4500	17137	17426	17714	18000	18289	18577	18864	19153	19442	19729	20016	20307	20592	
	4250	16901	17174	17449	17724	17999	18272	18548	18819	19097	19371	19644	19919	20193	
	4000	16663	16923	17180	17444	17706	17967	18226	18486	18745	19006	19268	19530	19792	
	3750	16421	16667	16912	17160	17407	17652	17902	18148	18393	18641	18887	19135	19381	
	3500	16171	16407	16639	16873	17104	17338	17571	17804	18037	18269	18503	18735	18969	
	3250	15921	16142	16360	16582	16801	17017	17237	17457	17677	17895	18114	18332	18551	
	3000	15668	15874	16081	16285	16490	16696	16900	17104	17310	17516	17723	17927	18134	
	2750	15412	15603	15793	15984	16175	16369	16559	16751	16945	17136	17326	17516	17712	
	2500	15147	15322	15504	15683	15860	16038	16216	16393	16570	16746	16925	17102	17282	
	2250	14880	15046	15210	15374	15536	15702	15866	16030	16196	16357	16521	16687	16851	
	2000	14610	14764	14913	15061	15212	15364	15512	15661	15813	15963	16116	16266	16415	
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear width															

Duratec glazing													Per section €
2 x	155	176	194	212	229	250	269	285	304	322	343	359	376

Shaft cover, 2-sided

► Only for doors with LDH ≥ 2500 mm

3°	1152	1187	1225	1259	1294	1513	1550	1583	1619	1654	1689	1723	1759
10°	1561	1608	1654	1704	1749	1997	2047	2093	2140	2188	2237	2284	2332

Shaft cover, 3-sided

► Required for doors with LDH < 2500 mm!

3°	1387	1436	1485	1532	1580	1892	1942	1988	2035	2084	2134	2179	2227
10°	1794	1854	1913	1976	2035	2377	2437	2498	2558	2619	2678	2738	2799

Optional extras		€
Single-skinned section with stainless steel expanded mesh (54% ventilation cross-section)		per m LDB 108
ThermoFrame – frame support with thermal break		€
Plastic angle profiles (3 x) black, 84 x 22.5 mm with lip seal and lintel seal with 2 lip seals		per m LDH 102

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch and emergency opening via emergency hand chain, motor power 1.5 kW or 4.5 kW, connecting voltage 400 V, 50 Hz/75 Hz, protection category IP 54, operator side on right or left.

Control

Control AK 500 FUE-1 in plastic control box, IP 65, 3-phase, 400 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

Glazing (optional)

Double glazing in aluminium extrusion profiles E6/C0, Duratec 26 mm thick, 160 mm glass height with intermediate spacers and glazing beads.

Maximum glazing / ventilation grille

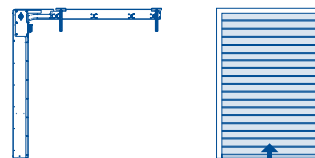
		≤ 4000	> 4000 ≤ 5000
Clear height	5000	17	5
	4750	16	5
	4500	15	5
	4250	14	12
	4000	13	11
	3750	12	10
	3500	11	9
	3250	10	8
	3000	9	7
	2750	8	6
	2500	7	5
	2250	6	4
	2000	5	3
		≤ 4000	> 4000 ≤ 5000
		Clear width	
Profiles *		1 each	2 each

* Closed profiles on top and bottom

Further controls and emergency openings	See from page 44
Accessories for operators and controls	See from page 48
RAL colour coating to choose	See page 50

High-speed sectional door HS 5015 PU N 42

42 mm insulated with normal track application



Door construction suitable for interior and exterior use, resistance to wind load in acc. with DIN EN 12424 class 5.

Door travel speed (max.)

Frequency converter control

Open: Max. 1.5–2.5 m/s

Close: Approx. 0.5 m/s

Door leaf

42-mm-thick PU-foamed door sections with thermal break, opposite side profiled Micrograin, fitting side Stucco-textured RAL 9006 (White aluminium).

Section height 250 mm, thermal insulation value $U_D = 1.04 \text{ W/(m}^2 \text{ K)}$, seal between the individual profiles and side element seal. For some door sizes the top section may be in an angled position when closed.

Construction

Side guides made of canted, galvanized material with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height 2500 mm). Precise guiding thanks to plastic side rollers and chain guide.

Counterbalance via **tension spring**. Emergency opening and closing via an emergency hand chain (standard chain length 10000 mm, all-round), floor and side seals.

Important:

- Lintel area 480 – 750 mm
- Ceiling connection required!

		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear height	6500	20530	20959	21390	21833	22261	22693	23126	23557	23990	24427	24860	25291	25722	
	6250	20299	20716	21130	21554	21971	22389	22806	23222	23640	24062	24480	24896	25313	
	6000	20067	20469	20874	21277	21680	22082	22486	22889	23292	23696	24098	24502	24906	
	5750	19839	20226	20616	21002	21391	21779	22168	22555	22944	23333	23718	24108	24495	
	5500	19605	19978	20353	20722	21096	21468	21844	22216	22587	22960	23336	23711	24083	
	5250	19367	19725	20082	20443	20799	21157	21516	21875	22231	22587	22948	23304	23662	
	5000	19124	19466	19810	20154	20496	20839	21183	21525	21868	22211	22555	22897	23243	
	4750	18877	19205	19534	19858	20189	20520	20845	21173	21501	21832	22157	22486	22815	
	4500	18628	18941	19253	19567	19879	20191	20503	20818	21132	21445	21757	22072	22383	
	4250	18369	18667	18967	19265	19565	19858	20161	20458	20756	21055	21354	21650	21950	
	4000	18111	18393	18676	18960	19245	19530	19810	20092	20375	20660	20942	21227	21510	
	3750	17847	18117	18383	18651	18920	19187	19458	19726	19991	20263	20530	20798	21066	
	3500	17577	17833	18084	18341	18593	18844	19099	19352	19605	19856	20110	20363	20618	
	3250	17306	17546	17784	18023	18259	18496	18736	18975	19212	19451	19689	19926	20165	
	3000	17031	17253	17477	17700	17923	18148	18368	18593	18816	19038	19264	19486	19712	
	2750	16750	16959	17166	17376	17581	17790	17998	18207	18418	18626	18833	19038	19248	
	2500	16464	16657	16851	17044	17239	17432	17627	17817	18011	18203	18396	18589	18783	
	2250	16174	16353	16533	16712	16889	17067	17246	17425	17604	17779	17957	18136	18317	
	2000	15880	16049	16210	16372	16535	16699	16861	17022	17188	17352	17515	17679	17842	
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear width															

Duratec glazing													Per section €
2 x	155	176	194	212	229	250	269	285	304	322	343	359	376

Optional extras		
Track cover as trap guard for doors with LDH < 2500 mm made of sturdy door panels in RAL 9006	Per m ²	287
Single-skinned section with stainless steel expanded mesh (54% ventilation cross-section)	per m LDB	108
ThermoFrame – frame support with thermal break		
Plastic angle profiles (3 x) black, 84 x 22.5 mm with lip seal and lintel seal with 2 lip seals	per m LDH	102

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch and emergency opening via emergency hand chain, motor power 1.5 kW, connecting voltage 400 V, 50 Hz, protection category IP 54, operator side on right or left.

Control

Control AK 500 FUE-1 in plastic control box, IP 65, 3-phase, 400 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

Glazing (optional)

Double glazing in aluminium extrusion profiles E6 / C0, Duratec 26 mm thick, 160 mm glass height with intermediate spacers and glazing beads.

Maximum glazing / ventilation grille

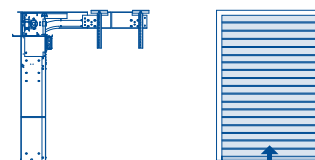
		≤ 4000	> 4000 ≤ 5000
Clear height	6500	23	21
	6250	22	20
	6000	21	19
	5750	20	18
	5500	19	17
	5250	18	16
	5000	17	15
	4750	16	14
	4500	15	13
	4250	14	12
	4000	13	11
	3750	12	10
	3500	11	9
	3250	10	8
	3000	9	7
	2750	8	6
	2500	7	5
	2250	6	4
	2000	5	3
		≤ 4000	> 4000 ≤ 5000
Clear width			
Profiles *		1 each	2 each

* Closed profiles on top and bottom

Acoustic-rated solutions up to -31 dB	See page 16
Further controls and emergency openings	See from page 44
Accessories for operators and controls	See from page 48
RAL colour coating to choose	See page 50

High-speed sectional door HS 5015 PU H 42

42 mm insulated with high-lift track application and counter weights



Door construction suitable for interior and exterior use, resistance to wind load in acc. with DIN EN 12424 class 5.

Door travel speed (max.)

Frequency converter control

Open: Max. 1.5–2.5 m/s

Close: Approx. 0.5 m/s

Door leaf

42-mm-thick PU-foamed door sections with thermal break, opposite side profiled Micrograin, fitting side Stucco-textured RAL 9006 (White aluminium).

Section height 250 mm, thermal insulation value $U_D = 1.04 \text{ W/(m}^2 \text{ K)}$, seal between the individual profiles and side element seal.

Construction

Side guides made of canted, galvanized material with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height 2500 mm). Precise guiding thanks to plastic side rollers, **counterbalance through counter weights**. Emergency opening and closing via an emergency hand chain (standard chain length 10000 mm, all-round), floor and side seals.

Important:

- Lintel area min. 750 mm, max. LDH–585 mm
- Ceiling connection required!

		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear height	6500	20530	20959	21390	21833	22261	22693	23126	23557	23990	24427	24860	25291	25722	
	6250	20299	20716	21130	21554	21971	22389	22806	23222	23640	24062	24480	24896	25313	
	6000	20067	20469	20874	21277	21680	22082	22486	22889	23292	23696	24098	24502	24906	
	5750	19839	20226	20616	21002	21391	21779	22168	22555	22944	23333	23718	24108	24495	
	5500	19605	19978	20353	20722	21096	21468	21844	22216	22587	22960	23336	23711	24083	
	5250	19367	19725	20082	20443	20799	21157	21516	21875	22231	22587	22948	23304	23662	
	5000	19124	19466	19810	20154	20496	20839	21183	21525	21868	22211	22555	22897	23243	
	4750	18877	19205	19534	19858	20189	20520	20845	21173	21501	21832	22157	22486	22815	
	4500	18628	18941	19253	19567	19879	20191	20503	20818	21132	21445	21757	22072	22383	
	4250	18369	18667	18967	19265	19565	19858	20161	20458	20756	21055	21354	21650	21950	
	4000	18111	18393	18676	18960	19245	19530	19810	20092	20375	20660	20942	21227	21510	
	3750	17847	18117	18383	18651	18920	19187	19458	19726	19991	20263	20530	20798	21066	
	3500	17577	17833	18084	18341	18593	18844	19099	19352	19605	19856	20110	20363	20618	
	3250	17306	17546	17784	18023	18259	18496	18736	18975	19212	19451	19689	19926	20165	
	3000	17031	17253	17477	17700	17923	18148	18368	18593	18816	19038	19264	19486	19712	
	2750	16750	16959	17166	17376	17581	17790	17998	18207	18418	18626	18833	19038	19248	
	2500	16464	16657	16851	17044	17239	17432	17627	17817	18011	18203	18396	18589	18783	
	2250	16174	16353	16533	16712	16889	17067	17246	17425	17604	17779	17957	18136	18317	
	2000	15880	16049	16210	16372	16535	16699	16861	17022	17188	17352	17515	17679	17842	
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear width															

Duratec glazing													Per section €	
2 x	155	176	194	212	229	250	269	285	304	322	343	359	376	

Optional extras		
Single-skinned section with stainless steel expanded mesh (54% ventilation cross-section)		per m LDB 108
ThermoFrame – frame support with thermal break		
Plastic angle profiles (3 x) black, 84 x 22.5 mm with lip seal and lintel seal with 2 lip seals		per m LDH 102

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch and emergency opening via emergency hand chain, motor power 1.5 kW, connecting voltage 400 V, 50 Hz, protection category IP 54, operator side on right or left.

Control

Control AK 500 FUE-1 in plastic control box, IP 65, 3-phase, 400 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

Glazing (optional)

Double glazing in aluminium extrusion profiles E6 / C0, Duratec 26 mm thick, 160 mm glass height with intermediate spacers and glazing beads.

Maximum glazing / ventilation grille

		≤ 4000	> 4000 ≤ 5000
Clear height	6500	23	21
	6250	22	20
	6000	21	19
	5750	20	18
	5500	19	17
	5250	18	16
	5000	17	15
	4750	16	14
	4500	15	13
	4250	14	12
	4000	13	11
	3750	12	10
	3500	11	9
	3250	10	8
	3000	9	7
	2750	8	6
	2500	7	5
	2250	6	4
	2000	5	3
		≤ 4000	> 4000 ≤ 5000
		Clear width	
Profiles *		1 each	2 each

* Closed profiles on top and bottom

Acoustic-rated solutions up to -31 dB	See page 16
Further controls and emergency openings	See from page 44
Accessories for operators and controls	See from page 48
RAL colour coating to choose	See page 50

High-speed sectional door HS 6015 PU V 42

42 mm insulated with vertical track application and counter weights



Door construction suitable for interior and exterior use, resistance to wind load in acc. with DIN EN 12424

LDB doors ≤ 5000 mm class 5,
LDB doors > 5000 mm and ≤ 6000 mm class 4,
LDB doors > 6000 mm class 2.

Door travel speed (max.)

Frequency converter control

Open: Max. 1.5–2.5 m/s

Close: Approx. 0.5 m/s

Door leaf

42-mm-thick PU-foamed door sections with thermal break, opposite side profiled Micrograin, fitting side Stucco-textured RAL 9006 (White aluminium).

Section height 250 mm, thermal insulation value $U_D = 1.04 \text{ W/(m}^2 \text{ K)}$, seal between the individual profiles and side element seal.

Construction

Side guides made of canted, galvanized material with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height 2500 mm). Precise guiding thanks to plastic side rollers, **counterbalance through counter weights**. Emergency opening and closing via an emergency hand chain (standard chain length 10000 mm, all-round), floor and side seals.

		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear height	6500	20530	20959	21390	21833	22261	22693	23126	23557	23990	24427	24860	25291	25722	
	6250	20299	20716	21131	21554	21972	22389	22806	23222	23640	24062	24480	24896	25313	
	6000	20067	20469	20874	21279	21680	22082	22486	22889	23292	23696	24099	24502	24906	
	5750	19839	20226	20616	21002	21391	21779	22171	22555	22944	23333	23718	24108	24495	
	5500	19605	19978	20353	20722	21096	21468	21844	22216	22587	22962	23336	23711	24083	
	5250	19367	19725	20082	20443	20799	21157	21516	21875	22231	22587	22948	23305	23662	
	5000	19124	19466	19810	20154	20496	20839	21183	21526	21868	22211	22555	22897	23243	
	4750	18877	19205	19534	19858	20190	20520	20845	21173	21501	21832	22157	22486	22815	
	4500	18628	18941	19253	19567	19879	20191	20503	20818	21132	21445	21757	22072	22383	
	4250	18369	18667	18967	19265	19565	19858	20161	20458	20756	21055	21354	21650	21950	
	4000	18112	18393	18676	18960	19245	19530	19810	20093	20375	20660	20942	21227	21510	
	3750	17847	18117	18383	18651	18920	19187	19458	19726	19992	20263	20530	20798	21066	
	3500	17577	17833	18084	18341	18593	18844	19099	19352	19605	19856	20110	20363	20618	
	3250	17306	17546	17784	18023	18260	18496	18736	18975	19212	19451	19689	19926	20165	
	3000	17031	17253	17477	17700	17923	18148	18368	18593	18816	19038	19264	19486	19712	
	2750	16750	16959	17166	17376	17581	17790	17998	18207	18418	18626	18833	19038	19250	
	2500	16464	16657	16851	17044	17239	17432	17627	17817	18012	18203	18396	18589	18783	
	2250	16174	16353	16533	16712	16889	17067	17246	17425	17604	17779	17957	18136	18317	
	2000	15880	16049	16210	16372	16535	16699	16861	17023	17188	17352	17515	17679	17842	
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear width															

Duratec glazing													Per section €	
2 ×	155	176	194	212	229	250	269	285	304	322	343	359	376	

Optional extras		
Single-skinned section with stainless steel expanded mesh (54% ventilation cross-section)	per m LDB	108
ThermoFrame – frame support with thermal break		€
Plastic angle profiles (3 ×) black, 84 × 22.5 mm with lip seal and lintel seal with 2 lip seals	per m LDH	102

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch and emergency opening via emergency hand chain, motor power 1.5 kW, connecting voltage 400 V, 50 Hz, protection category IP 54, operator side on right or left.

Control

Control AK 500 FUE-1 in plastic control box, IP 65, 3-phase, 400 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

Glazing (optional)

Double glazing in aluminium extrusion profiles E6 / C0, Duratec 26 mm thick, 160 mm glass height with intermediate spacers and glazing beads.

Clear height		5250	5500	5750	6000	6250	6500
6500		26156	26585	27020	27454	27888	28322
6250		25734	26147	26565	26986	27404	27824
6000		25307	25709	26113	26516	26921	27324
5750		24883	25271	25661	26048	26437	26823
5500		24454	24826	25201	25573	25948	26319
5250		24020	24378	24739	25096	25455	25813
5000		23584	23925	24271	24613	24959	25302
4750		23141	23472	23799	24126	24454	24783
4500		22698	23010	23323	23638	23951	24265
4250		22249	22545	22844	23140	23440	23738
4000		21792	22076	22359	22642	22927	23209
3750		21334	21602	21869	22139	22405	22672
3500		20872	21125	21378	21631	21884	22138
3250		20403	20642	20879	21119	21357	21594
3000		19932	20157	20377	20602	20827	21049
2750		19458	19666	19875	20082	20290	20498
2500		18978	19171	19366	19556	19751	19945
2250		18492	18669	18850	19028	19208	19383
2000		18003	18170	18332	18493	18658	18822
		5250	5500	5750	6000	6250	6500
		Clear width					

Duratec glazing		Per section €				
2 x	398	415	433	451	470	488

Maximum glazing / ventilation grille

Clear height		≤ 4000	> 4000 ≤ 5000	> 5000
6500		23	21	5
6250		22	20	5
6000		21	19	5
5750		20	18	5
5500		19	17	5
5250		18	16	5
5000		17	15	5
4750		16	14	5
4500		15	13	5
4250		14	12	5
4000		13	11	5
3750		12	10	5
3500		11	9	5
3250		10	8	5
3000		9	7	5
2750		8	6	4
2500		7	5	3
2250		6	4	2
2000		5	3	1
		≤ 4000	> 4000 ≤ 5000	> 5000
		Clear width		

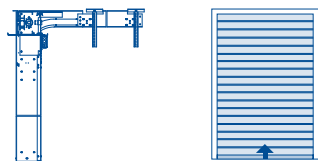
Profiles * 1 each 2 each 3 each

* Closed profiles on top and bottom

Acoustic-rated solutions up to -31 dB	See page 16
Further controls and emergency openings	See from page 44
Accessories for operators and controls	See from page 48
RAL colour coating to choose	See page 50

High-speed sectional door HS 5015 Acoustic H

Acoustic insulation with high-lift track application



Door construction suitable for interior and exterior use, resistance to wind load in acc. with DIN EN 12424 class 4.

Door travel speed (max.)

Frequency converter control

Open: Max. 1.5–2.5 m/s

Close: Approx. 0.5 m/s

Door leaf

42-mm-thick aluminium hollow sections, E6 / EV 1 anodised.

Door sections filled with 5PVC / 30PU foam.

Moulded section edge with edge seal.

Acoustic rating acc. to

DIN EN ISO 10140-2 $R_w = 31$ dB

Construction

Side guides made of canted, galvanized material with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height 2500 mm). Guide rails clad with 10 mm PU foam. Precise guiding thanks to plastic side rollers, **counterbalance through counter weights**. Emergency opening and closing via an emergency hand chain (standard chain length 10000 mm, all-round), floor and side seals.

Important: Ceiling connection required!

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch and emergency opening via emergency hand chain, motor power 1.5 kW, connecting voltage 400 V, 50 Hz, protection category IP 54, operator side on right or left.

Control

Control AK 500 FUE-1 in plastic control box, IP 65, 3-phase, 400 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear height	5000	23897	24738	25575	26417	27255	28098	28937	30467	31308	32144	32986	33827	34667	
	4750	23446	24247	25048	25848	26647	27450	28246	29739	30538	31337	32139	32939	33737	
	4500	22991	23753	24512	25272	26033	26793	27555	29006	29765	30525	31285	32049	32806	
	4250	22530	23250	23971	24694	25415	26135	26855	28267	28986	29709	30432	31151	31873	
	4000	22067	22745	23429	24109	24791	25473	26152	27520	28202	28888	29565	30248	30928	
	3750	21598	22241	22883	23521	24165	24806	25448	26778	27418	28060	28703	29341	29985	
	3500	21122	21729	22331	22931	23532	24135	24733	25339	26624	27228	27831	28431	29034	
	3250	20647	21208	21770	22333	22895	23456	24019	24581	25828	26393	26955	27518	28080	
	3000	20165	20689	21208	21735	22255	22778	23297	23820	25031	25555	26076	26598	27121	
	2750	19679	20163	20645	21125	21608	22092	22575	23058	23539	24024	25195	25676	26156	
	2500	19186	19631	20071	20516	20960	21402	21845	22289	22732	23173	24305	24747	25189	
	2250	18692	19097	19497	19904	20304	20708	21111	21516	21917	22319	22724	23816	24218	
	2000	18190	18554	18920	19281	19644	20012	20373	20737	21098	21464	21825	22877	23241	
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear width															

ThermoFrame – frame support with thermal break	€
Plastic angle profiles (3 x) black, 84 x 22.5 mm with lip seal and lintel seal with 2 lip seals	per m LDH 102
Further controls and emergency openings	See from page 44
Accessories for operators and controls	See from page 48
RAL colour coating to choose	See page 50

Spiral door HS 7030 Acoustic

Acoustic-rated with non-contact roll-up technology



Door construction suitable for interior and exterior use, resistance to wind load in acc. with DIN EN 12424 class 4.

Door travel speed (max.)

Frequency converter control

Open: Max. 1.5–2.5 m/s

Close: Approx. 0.5 m/s

Door leaf

42-mm-thick aluminium hollow sections, E6/ EV 1 anodised.

Door sections filled with 5PVC/30PU foam.

Moulded section edge with edge seal.

Acoustic rating acc. to

DIN EN ISO 10140-2 $R_w = 31$ dB

Construction

Side guides made of canted, galvanized material with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height 2500 mm). Guide rails clad with 10 mm PU foam. Spiral bracket for non-contact rolling of the door leaf sections.

Precise guiding thanks to plastic side rollers and chain guide, **counterbalance through tension springs**. Emergency opening and closing via an emergency hand chain (standard chain length 10000 mm, all-round), floor and side seals.

Operator

Direct drive operator with electromagnetic brake, integral catch safety device, digital limit switch, emergency opening and closing via emergency hand chain, motor power 1.5 kW, connecting voltage 400 V, 50 Hz, protection category IP 54, operator side on right or left.

Control

Control AK 500 FUE-1 in plastic control box, IP 65, 3-phase, 400 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

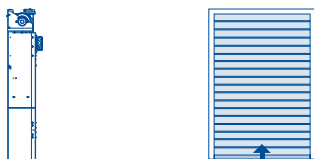
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear height	5000	23897	24738	25575	26417	27255	28098	28937	30467	31308	32144	32986	33827	34667	
	4750	23446	24247	25048	25848	26647	27450	28246	29739	30538	31337	32139	32939	33737	
	4500	22991	23753	24512	25272	26033	26793	27555	29006	29765	30525	31285	32049	32806	
	4250	22530	23250	23971	24694	25415	26135	26855	28267	28986	29709	30432	31151	31873	
	4000	22067	22745	23429	24109	24791	25473	26152	27520	28202	28888	29565	30248	30928	
	3750	21598	22241	22883	23521	24165	24806	25448	26778	27418	28060	28703	29341	29985	
	3500	21122	21729	22331	22931	23532	24135	24733	25339	26624	27228	27831	28431	29034	
	3250	20647	21208	21770	22333	22895	23456	24019	24581	25828	26393	26955	27518	28080	
	3000	20165	20689	21208	21735	22255	22778	23297	23820	25031	25555	26076	26598	27121	
	2750	19679	20163	20645	21125	21608	22092	22575	23058	23539	24024	24505	24987	25468	
	2500	19186	19631	20071	20516	20960	21402	21845	22289	22732	23173	23615	24057	24498	
	2250	18692	19097	19497	19904	20304	20708	21111	21516	21917	22319	22724	23128	23531	
	2000	18190	18554	18920	19281	19644	20012	20373	20737	21098	21464	21825	22187	22548	
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear width															

Shaft cover, 2-sided													
3°	1152	1187	1225	1259	1294	1513	1550	1583	1619	1654	1689	1723	1759
10°	1561	1608	1654	1704	1749	1997	2047	2093	2140	2188	2237	2284	2332
Shaft cover, 3-sided													
3°	1387	1436	1485	1532	1580	1892	1942	1988	2035	2084	2134	2179	2227
10°	1794	1854	1913	1976	2035	2377	2437	2498	2558	2619	2678	2738	2799

ThermoFrame – frame support with thermal break	€
Plastic angle profiles (3 x) black, 84 x 22.5 mm with lip seal and lintel seal with 2 lip seals	per m LDH 102
Further controls and emergency openings	See from page 44
Accessories for operators and controls	See from page 48
RAL colour coating to choose	See page 50

High-speed sectional door HS 6015 Acoustic V

Acoustic-rated with vertical track application



Door construction suitable for interior and exterior use, resistance to wind load in acc. with DIN EN 12424 class 4.

Door travel speed (max.)

Frequency converter control

Open: Max. 1.5–2.5 m/s

Close: Approx. 0.5 m/s

Door leaf

42-mm-thick aluminium hollow sections,

E6 / EV 1 anodised.

Door sections filled with 5PVC / 30PU foam.

Moulded section edge with edge seal.

Acoustic rating acc. to

DIN EN ISO 10140-2 $R_w = 31$ dB

Construction

Side guides made of canted, galvanized material with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height 2500 mm). Guide rails clad with 10 mm PU foam. Precise guiding thanks to plastic side rollers, **counterbalance through counter weights**. Emergency opening and closing via an emergency hand chain (standard chain length 10000 mm, all-round), floor and side seals.

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch and emergency opening via emergency hand chain, motor power 1.5 kW, connecting voltage 400 V, 50 Hz, protection category IP 54, operator side on right or left.

Control

Control AK 500 FUE-1 in plastic control box, IP 65, 3-phase, 400 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear height	5000	23897	24738	25575	26417	27255	28098	28937	30467	31308	32144	32986	33827	34667	
	4750	23446	24247	25048	25848	26647	27450	28246	29739	30538	31337	32139	32939	33737	
	4500	22991	23753	24512	25272	26033	26793	27555	29006	29765	30525	31285	32049	32806	
	4250	22530	23250	23971	24694	25415	26135	26855	28267	28986	29709	30432	31151	31873	
	4000	22067	22745	23429	24109	24791	25473	26152	27520	28202	28888	29565	30248	30928	
	3750	21598	22241	22883	23521	24165	24806	25448	26778	27418	28060	28703	29341	29985	
	3500	21122	21729	22331	22931	23532	24135	24733	25339	26624	27228	27831	28431	29034	
	3250	20647	21208	21770	22333	22895	23456	24019	24581	25828	26393	26955	27518	28080	
	3000	20165	20689	21208	21735	22255	22778	23297	23820	25031	25555	26076	26598	27121	
	2750	19679	20163	20645	21125	21608	22092	22575	23058	23539	24024	25195	25676	26156	
	2500	19186	19631	20071	20516	20960	21402	21845	22289	22732	23173	24305	24747	25189	
	2250	18692	19097	19497	19904	20304	20708	21111	21516	21917	22319	22724	23816	24218	
	2000	18190	18554	18920	19281	19644	20012	20373	20737	21098	21464	21825	22877	23241	
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear width															

ThermoFrame – frame support with thermal break

€

Plastic angle profiles (3 x) black, 84 x 22.5 mm with lip seal and lintel seal with 2 lip seals

per m LDH

102

Further controls and emergency openings

See from page 44

Accessories for operators and controls

See from page 48

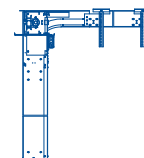
RAL colour coating to choose

See page 50

Notes and sketches

Iso Speed Cold H 100

100 mm insulated as a cold store and deep freeze door



Door construction suitable for interior and exterior use. Resistance to wind load in acc. with EN 12424 class 5.

Door travel speed (max.)

Frequency converter control

Open: Approx. 1.5 – 2.0 m/s

Close: Approx. 0.5 m/s

Door leaf

100-mm-thick PU-foamed door sections with thermal break, exterior and interior Stucco-textured RAL 9002 (Grey white). Thermal insulation value $U_p = 0.57 \text{ W/(m}^2\cdot\text{K)}$, seal between the individual profiles and side element seal.

The track application H can be used for the following temperatures:

Fitting side: > 0°C

Opposite side: max. -28°C

Fitting side: 0°C up to max. -28°C

Opposite side: 0°C up to max. -28°C

The temperature difference between the fitting and opposite side must not exceed 40°C.

For deviating temperatures please contact the factory.

For temperatures below zero the surcharge for the deep freeze version is required!

In cold store, floor heating is compulsory in the bottom seal area!

Construction

Standard with all-round ThermoFrame, high-lift (H) track application only outside the cold store area.

Side guides made of canted, galvanized material with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height 2500 mm). Precise guiding thanks to plastic side rollers, counterbalance through counter weights. Emergency opening and closing via an emergency hand chain (standard chain length 10000 mm, all-round), floor and side seals.

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch, emergency opening via emergency hand chain with counter weight, motor power 1.5 kW, connecting voltage 400 V, 50 Hz, protection category IP 54, operator side on right or left.

Control

Control AK 500 FUE-1 in plastic control box, IP 65, 3-phase, 400 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear height	5000	20854	21300	21741	22185	22626	23070	23516	23959	24403	24843	25292	25735	26176	
	4750	20550	20972	21399	21821	22244	22669	23093	23517	23939	24362	24787	25214	25632	
	4500	20246	20649	21051	21453	21858	22261	22664	23070	23475	23877	24281	24682	25085	
	4250	19931	20316	20698	21085	21466	21848	22233	22620	23003	23386	23771	24156	24539	
	4000	19617	19980	20342	20708	21072	21438	21796	22160	22527	22891	23254	23620	23980	
	3750	19295	19640	19983	20326	20672	21015	21361	21704	22045	22393	22736	23079	23424	
	3500	18970	19294	19620	19945	20267	20592	20915	21238	21561	21886	22211	22538	22858	
	3250	18640	18945	19251	19553	19856	20163	20465	20768	21074	21379	21681	21988	22291	
	3000	18307	18594	18877	19163	19444	19729	20013	20296	20578	20868	21150	21436	21718	
	2750	17972	18236	18497	18762	19026	19291	19554	19820	20085	20353	20616	20878	21143	
	2500	17628	17874	18117	18363	18603	18848	19096	19337	19582	19829	20071	20317	20560	
	2250	17282	17505	17730	17956	18179	18401	18629	18851	19076	19300	19529	19752	19978	
	2000	16930	17134	17340	17541	17747	17952	18157	18363	18566	18771	18977	19179	19384	
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear width															

Optional extras

Deep freeze version:

Side elements, all-round frame, bottom plate heating, steel control box and operator in heated version

2336

Required on-site:

Floor heating in the bottom seal area, **second** connecting lead for the heating

(5 x 2.5 mm², 16 A with characteristic C or K and residual current circuit breaker 3 x 25 A / 0.03 A)

Radar movement detector MWD-C (please state temperatures)

See page 48

Accessories for operators and controls

See from page 48

RAL colour coating to choose

See page 50

Iso Speed Cold V 100

100 mm insulated as a cold store and deep freeze door



Door construction suitable for interior and exterior use. Resistance to wind load in acc. with EN 12424 class 5.

Door travel speed (max.)

Frequency converter control

Open: Approx. 1.5 – 2.0 m/s

Close: Approx. 0.5 m/s

Door leaf

100-mm-thick PU-foamed door sections with thermal break, exterior and interior Stucco-textured RAL 9002 (Grey white), thermal insulation value $U_0 = 0.57 \text{ W/(m}^2 \text{ K)}$, seal between the individual profiles and side seal.

The track application V can be used for the following temperatures:

Fitting side: > 0°C

Opposite side: max. -28°C

Fitting side: 0°C up to max. -28°C

Opposite side: 0°C up to max. -28°C

The temperature difference between the fitting and opposite side must not exceed 40°C.

For deviating temperatures please contact the factory.

For temperatures below zero the surcharge for the deep freeze version is required!

In cold store, floor heating is compulsory in the bottom seal area!

Construction

Standard with all-round ThermoFrame, vertical (V) track application inside / outside the cold store area.

Side guides made of canted, galvanized material with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height 2500 mm). Precise guiding thanks to plastic side rollers, counterbalance through counter weights. Emergency opening and closing via an emergency hand chain (standard chain length 10000 mm, all-round), floor and side seals.

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch, emergency opening via emergency hand chain with counter weight, motor power 1.5 kW, connecting voltage 400 V, 50 Hz, protection category IP 54, operator side on right or left.

Control

Control AK 500 FUE-1 in plastic control box, IP 65, 3-phase, 400 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
Clear height	5000	23040	23477	23799	24164	24531	25295	25385	25754	26120	26486	26898	27269	27633
	4750	22372	22847	23197	23573	23924	24649	24727	25123	25475	25826	26182	26561	26999
	4500	21847	22286	22622	22955	23320	23656	23992	24450	24787	25161	25586	26007	26429
	4250	21326	21602	22044	22369	22688	23040	23442	23846	24248	24649	25050	25452	25853
	4000	20801	21084	21467	21845	22225	22609	22987	23367	23749	24128	24510	24892	25269
	3750	20365	20727	21087	21445	21805	22164	22527	22886	23245	23608	23966	24324	24682
	3500	20023	20365	20703	21042	21384	21720	22061	22399	22737	23078	23418	23757	24095
	3250	19680	19997	20316	20635	20951	21270	21590	21908	22225	22547	22861	23179	23500
	3000	19329	19625	19923	20220	20519	20816	21113	21410	21709	22008	22305	22602	22899
	2750	18976	19253	19529	19806	20082	20357	20632	20912	21189	21467	21743	22019	22295
	2500	18617	18872	19128	19383	19637	19894	20152	20407	20662	20918	21175	21432	21685
	2250	18250	18483	18722	18957	19188	19426	19660	19900	20133	20366	20604	20839	21075
	2000	17881	18095	18309	18524	18738	18954	19170	19383	19598	19810	20025	20242	20455
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
		Clear width												

Optional extras

Deep freeze version:

Side elements, all-round frame, bottom plate heating, steel control box and operator in heated version

2336

Required on site: floor heating in the bottom seal area, **second** connecting lead for the heating (5 x 2.5 mm², 16 A with characteristic C or K and residual current circuit breaker 3 x 25 A / 0.03 A)

Radar movement detector MWD-C (please state temperatures)

See page 48

Accessories for operators and controls

See from page 48

RAL colour coating to choose

See page 50

V 4015 Iso L

Insulated door for fresh logistics



Door construction suitable for interior use.
Resistance to wind load in acc. with EN 12424 class 0.

Door travel speed (max.)

Frequency converter control

Open: Approx. 1.5 m/s

Close: Approx. 0.5 m/s

Door leaf

Double insulating curtain, 20 mm thick, in Agate grey (RAL 7038), consisting of high-insulation PE foam material inserted into curtain pockets.
Optionally with 2-mm-thick vision field.

Curtain pockets made of textile-reinforced UPVC, 0.9 mm thick, welded horizontally with insulating infill in the groove. Aluminium bottom weather seal and aluminium door leaf stabilisation with thermal break. Thermal insulation value $U_p \leq 1.6 \text{ W/(m}^2\text{K)}$. This door type is suitable for a temperature range from 1°C to +40°C.

Construction

Side guides made of canted, galvanized material with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height approx. 2500 mm).
Shaft made of galvanized precision tube.
Roll-on mechanism for better lintel sealing.

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch, emergency opening via emergency crank handle. Motor power 1.1 kW, connecting voltage 230 V, 50 Hz, protection category IP 54, operator side on right or left.

Control

Control BK 150 FUE-1 in plastic control box, IP 65, 1-phase, 230 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

		2000	2250	2500	2750	3000	3250	3500	3750	4000
Clear height	4500	8767	8896	9029	9156	9286	9421	9548	9679	9811
	4250	8690	8819	8946	9071	9197	9329	9454	9584	9704
	4000	8619	8740	8867	8984	9110	9232	9356	9479	9604
	3750	8545	8667	8782	8901	9020	9143	9263	9377	9500
	3500	8468	8585	8698	8817	8931	9046	9163	9278	9396
	3250	8394	8506	8621	8730	8840	8954	9066	9181	9292
	3000	8319	8427	8537	8642	8755	8866	8971	9080	9189
	2750	8244	8350	8454	8558	8669	8770	8875	8978	9085
	2500	8172	8274	8373	8474	8574	8678	8780	8879	8978
	2250	8096	8192	8292	8389	8490	8585	8683	8781	8878
	2000	8026	8118	8211	8305	8400	8492	8585	8679	8776
		2000	2250	2500	2750	3000	3250	3500	3750	4000
Clear width										

Shaft cover including operator cover made of galvanized material									€ each
Chamfered, 5°	877	921	965	1009	1053	1097	1141	1184	1227

Shaft cover including operator cover in stainless steel, V2 A brushed									€ each
Chamfered, 5°	2249	2387	2525	2666	2801	2941	3080	3219	3353

Notice:

Side elements in stainless steel = basic door price 20% surcharge

Vision field	Surcharge per door
Vision field made of 2 mm transparent UPVC material, approx. 230 mm high (one vision field possible per door!)	335

Notice:

Condensation may form and the thermal insulation value $U_p \leq 1.6 \text{ W/(m}^2\text{K)}$ may decrease.

ThermoFrame – frame support with thermal break	Each
Plastic angle profiles (2 x) black, 84 x 22.5 mm with lip seal as well as lintel seal and 2 lip seals	per m LDH 70

Further controls and emergency openings	See from page 44
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Accessories for operators and controls	See from page 48
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RAL colour coating to choose	See page 50
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Notes and sketches

V 4020 SEL Alu-R

Internal door with SoftEdge, tubular drive, anti-crash and minimum fitting dimensions



Self-supporting door construction only for interior use, specially suitable for tight spaces in applications with little sideroom. Resistance to wind load in acc. with EN 12424 class 0. Optional with aluminium bottom seal profile for wind load in acc. with EN 12424 class 3 (see below).

Door travel speed (max.)

Frequency converter control

Open: Approx. 2.0 m/s

Close: Approx. 0.8 m/s

Door leaf

Curtain made of textile-reinforced UPVC, 1.5 mm thick, with 900 mm vision field made of transparent UPVC, 2 mm thick, from approx. 1300 mm above floor, optionally without vision field. Spring steel wind locks in the curtain pockets with side twin rollers.

This door type is suitable for application in a temperature range from +5°C to +40°C. For deviating temperatures please contact the factory!

Standard colours based on:

RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey.

SoftEdge rubber bottom profile with monitoring via a radio crash switch.

Construction

Self-supporting side guides made of aluminium with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height approx. 2500 mm), side element seal in H-PVC/TPE, tubular drive in galvanized shaft, shaft cover made of galvanized steel, coated in RAL 9006.

Operator

Tubular drive operator with electromagnetic brake and limit switch Multiturn. Emergency opening via 1/2 inch operator. Motor power 1.7 kW, connecting voltage 230 V, 50 Hz, protection category IP 54, operator side on right or left.

Control

Control BK 150 FUE-1 in plastic control box, IP 65, 1-phase, 230 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, automatic timer and display, connection cable with CEE plug (crash protection with manual start-up), 3 volt-free contacts available.

The standard equipment includes a galvanized steel straight shaft cover, two-part, painted in RAL 9006.

		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000
Clear height	4500	8524	8594	8663	8732	8801	8870	8939	9009	9078	9147	9216
	4250	8482	8550	8618	8686	8754	8822	8890	8958	9026	9094	9162
	4000	8439	8506	8573	8640	8707	8774	8841	8908	8975	9042	9109
	3750	8397	8463	8529	8594	8660	8726	8792	8858	8923	8989	9055
	3500	8354	8419	8484	8549	8613	8678	8743	8807	8872	8937	9001
	3250	8312	8376	8439	8503	8566	8630	8693	8757	8821	8884	8948
	3000	8269	8332	8394	8457	8519	8582	8644	8707	8769	8832	8894
	2750	8227	8288	8350	8411	8472	8534	8595	8656	8718	8779	8840
	2500	8184	8245	8305	8365	8425	8486	8546	8606	8666	8727	8787
	2250	8142	8201	8260	8319	8378	8438	8497	8556	8615	8674	8733
	2000	8099	8157	8215	8273	8331	8389	8447	8506	8564	8622	8680
	1750	8057	8114	8171	8228	8284	8341	8398	8455	8512	8569	8626
		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000
		Clear width										

Optional extras		€
External control panel integrated at 1300 mm from FFL on the side element (operator side)		269
Option: aluminium bottom seal profile for wind load in acc. with EN 12424 up to class 3.		€ per m door width 47
Insect protection section – light section as a black grille foil, ventilation cross-section approx. 20%		Surcharge per door 131
Further controls and emergency openings		See from page 44
Accessories for operators and controls		See from page 48
RAL colour coating to choose		See page 50

Notes and sketches

V 3010

Internal door with anti-crash

Self-supporting door construction, suitable for interior use, resistance to wind load in acc. with EN 12424 class 0.

Door travel speed (max.)

Frequency converter control

Open: Approx. 1.0 m/s

Close: Approx. 1.0 m/s

Door leaf

Curtain made of textile-reinforced UPVC, 1.0 mm thick, optionally with vision field, max. 3 vision fields per curtain (size: 600 mm),

This door type is suitable for application in a temperature range from +5°C to +40°C.

For deviating temperatures please contact the factory!

Standard colours based on:

RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey.

Galvanized shaft cover and UPVC operator cover as standard equipment.

Construction

Side guides made of black polyethylene; curtain automatically rebounds in the event of an impact. Self-supporting side guides made of canted, galvanized material with 2 photocells in the closing zone with automatic closing time control. Optionally at a surcharge: Side element and shaft cover in stainless steel or colour-coated.

Operator

Operator integrated in shaft cover, one-stage operator with belt function and corrosion-resistant stainless steel brake, IP 55, emergency opening via emergency crank, motor power 0.37 kW. Connecting voltage 400 V or 230 V.

Control

Integrated control AKE 370 M-I in the frame, IP 40, 3-phase, 400 V or 3-phase, 230 V Inversion relay control, mechanical end-of-travel position setting Open-Stop-Close membrane push button, main switch Emergency-off button 2 volt-free contacts available.

Optional:

Control AK E 370 M, in the plastic control box, IP 65, 3-phase, 400 V or 230 V, 3-phase, size (W x H x D) = 380 x 290 x 150 mm, Inversion relay control, mechanical end-of-travel position setting Open-Stop-Close membrane push button, main switch, emergency-off button, 2 volt-free contacts available.

Optional:

Control BK 370 M FUE-1, frequency converter control in plastic control box, IP 65, 1-phase, 230 V, size (W x H x D) = 400 x 400 x 170, "Open-Stop-Close" membrane push button at bottom, main switch, emergency-off button, mechanical travel limit setting Optional: BK-UPS emergency opening via UPS in separate plastic control box

		1000	1250	1500	1750	2000	2250	2500	2750	3000
		1000	1250	1500	1750	2000	2250	2500	2750	3000
Clear height	3000	5171	5205	5238	5269	5301	5336	5368	5400	5435
	2750	5128	5162	5193	5224	5256	5287	5318	5349	5339
	2500	5096	5126	5157	5187	5218	5248	5277	5308	5339
	2250	5063	5092	5120	5149	5179	5209	5238	5266	5296
	2000	5029	5057	5085	5067	5142	5169	5197	5225	5253
	1750	4986	5013	5039	5067	5094	5120	5147	5175	5201
Clear width		1000	1250	1500	1750	2000	2250	2500	2750	3000

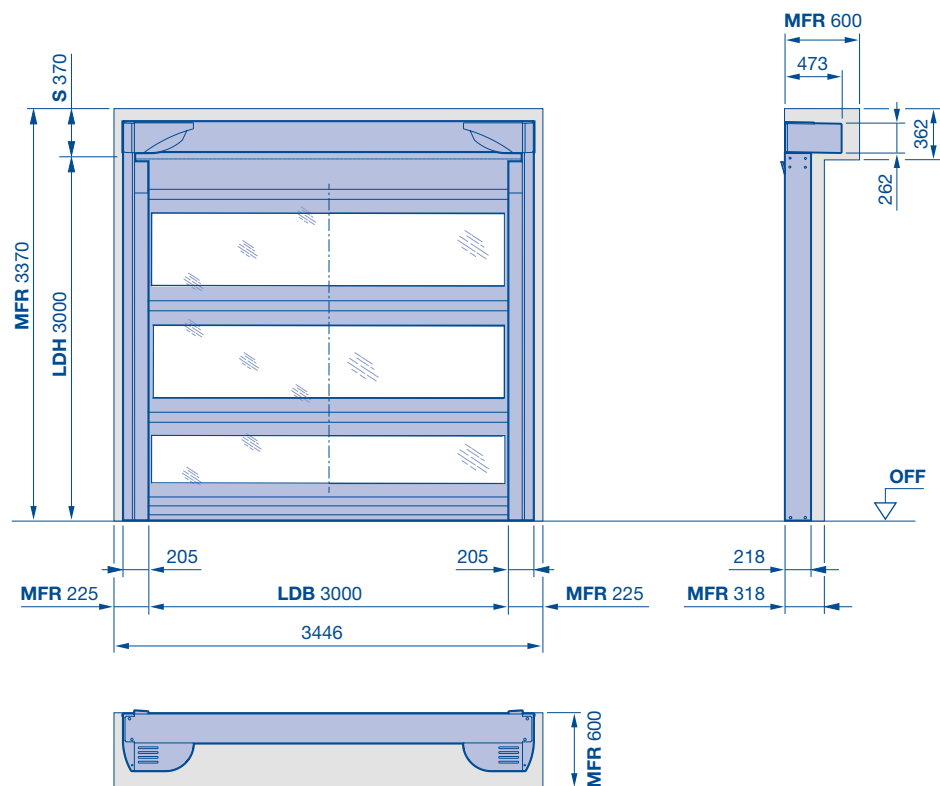
Notice:

Side elements and shaft cover in stainless steel = basic door price 20% surcharge

Colour coating (shaft cover and frame)	See page 52
Vision field	Surcharge per row
Visibility field made of 2 mm transparent UPVC material, approx. 600 mm high (max. three vision fields possible per door!)	266
Further controls, emergency openings and accessories for operators and controls	See from page 52

V 3010

Fitting clearances



BPA	Space required for fitting and dismantling the operator
LDB	Clear passage width
LDH	Clear passage height
MFR	Fitting clearance
OFF	Finished floor level

Notes and sketches

V 4008 SEL

Internal door with SoftEdge and anti-crash



Self-supporting door construction, suitable for interior use, resistance to wind load in acc. with EN 12424 class 0.

Door travel speed (max.)

Inversion relay control

Open: Approx. 0.8 m/s

Close: Approx. 0.8 m/s

Door leaf

Curtain made of textile-reinforced UPVC, 1.5 mm thick with curtain slides. With 900 mm vision field made of transparent UPVC, 2 mm thick, from approx. 1300 mm above floor, optionally without vision field.

This door type is suitable for application in a temperature range from +5°C to +40°C. For deviating temperatures please contact the factory!

Standard colours based on:

RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey.

SoftEdge rubber bottom profile with monitoring via a radio crash switch.

Construction

Self-supporting side guides made of canted, galvanized material with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height approx. 2500 mm) and edge guard.

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch, emergency opening via emergency crank handle. Motor power 0.37 kW, connecting voltage 400 V, 50 Hz, protection category IP 65, operator side on right or left.

Control

Control AK E (relay) in plastic control box, IP 54, 3-phase, 400 V, size (W × H × D) = 180 × 320 × 100 mm (without emergency-off button), inversion relay control, electronic travel limit setting, "Open-Stop-Close" membrane push button, automatic timer and display, connection cable with CEE plug (crash protection with manual initial start-up / automatic re-feed), 2 volt-free contacts available.

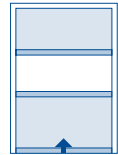
		2000	2250	2500	2750	3000	3250	3500	3750	4000
		2000	2250	2500	2750	3000	3250	3500	3750	4000
Clear height	4000	5669	5728	5784	5841	5896	5952	6009	6065	6410
	3750	5630	5687	5739	5794	5849	5905	5962	6015	6071
	3500	5348	5403	5460	5518	5574	5628	5685	5965	6020
	3250	5309	5361	5415	5471	5525	5578	5638	5916	5969
	3000	5266	5320	5375	5427	5481	5537	5590	5865	5917
	2750	5224	5278	5331	5387	5435	5486	5539	5817	5865
	2500	5185	5235	5284	5338	5390	5445	5490	5767	5817
	2250	5139	5194	5246	5289	5345	5397	5446	5715	5767
	2000	5101	5152	5201	5249	5297	5348	5398	5666	5713
		Clear width								

Shaft cover made of galvanized material									€ each
Straight	270	293	318	341	365	387	411	434	457

Operator covers		Each
Operator cover made of galvanized material	Straight	223
Accessories for operators and controls (compatible accessories are marked with *)		See from page 48
RAL colour coating to choose		See page 50

V 5015 SEL

Internal door with SoftEdge and anti-crash



Self-supporting door construction, suitable for interior use, resistance to wind load in acc. with EN 12424 class 0.

Door travel speed (max.)

Frequency converter control

Open: Approx. 1.5 m/s

Close: Approx. 0.8 m/s

Door leaf

Curtain made of textile-reinforced UPVC, 1.5 mm thick, divided into 2 or 3 sections by aluminium profiles. With 900 mm vision field made of transparent UPVC, 2 mm thick, from approx. 1300 mm above floor, optionally without vision field.

This door type is suitable for application in a temperature range from +5°C to +40°C. For deviating temperatures please contact the factory!

Standard colours based on:

RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey.

SoftEdge rubber bottom profile with monitoring via a radio crash switch.

Construction

Self-supporting side guides made of canted, galvanized material with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height approx. 2500 mm), side element seal in H-PVC/TPE. Shaft made of galvanized precision tube.

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch, emergency opening via emergency crank handle. Motor power 1.1 kW, connecting voltage 230 V, 50 Hz, protection category IP 54, operator side on right or left.

Control

Control BK 150 FUE-1 in plastic control box, IP 65, 1-phase, 230 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, automatic timer and display, connection cable with CEE plug, (crash protection with manual start-up / automatic re-feed) 3 volt-free contacts available.

		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
Clear height	5000	7630	7707	7788	7868	7945	8029	8112	8191	8270	8353	8440	8519	8600
	4750	7578	7652	7730	7810	7888	7969	8045	8126	8206	8285	8366	8446	8524
	4500	7521	7597	7676	7753	7828	7902	7980	8060	8135	8214	8296	8372	8450
	4250	7464	7542	7616	7691	7766	7843	7915	7992	8070	8147	8222	8301	8377
	4000	7411	7486	7557	7633	7704	7778	7853	7926	7998	8076	8152	8228	8303
	3750	7358	7433	7499	7571	7645	7715	7790	7862	7935	8006	8078	8155	8229
	3500	6989	7062	7137	7210	7284	7355	7430	7796	7866	7936	8008	8079	8155
	3250	6937	7005	7076	7151	7221	7291	7367	7730	7801	7865	7937	8008	8078
	3000	6881	6953	7024	7092	7163	7236	7306	7667	7731	7799	7865	7936	8005
	2750	6826	6898	6966	7038	7104	7172	7238	7601	7667	7726	7797	7863	7933
	2500	6776	6842	6904	6975	7042	7115	7175	7537	7601	7657	7724	7789	7857
	2250	6717	6787	6855	6913	6987	7050	7117	7469	7535	7587	7653	7717	7782
	2000	6666	6733	6796	6860	6921	6989	7053	7406	7467	7520	7581	7649	7708
Clear width		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000

Shaft cover made of galvanized material													€ each
Straight	270	293	318	341	365	387	411	434	457	482	504	529	553
Chamfered	283	307	332	357	382	407	432	456	482	505	531	556	582

Shaft covers in stainless steel, V2 A brushed													€ each
Straight	518	567	617	668	715	767	818	867	917	970	1021	1071	1120
Chamfered	559	613	668	723	778	832	884	942	994	1051	1104	1161	1212

Notice:

Side elements in stainless steel = basic door price 20% surcharge

Operator covers			Each
Operator cover made of galvanized material	Straight		223
	Chamfered		266
Operator cover in stainless steel, V2 A	Straight		416
	Chamfered		442
Optional extras			€
Insect protection section – light section as a black grille foil, ventilation cross section approx. 15%	Surcharge per section		131
Second insect protection section, approx. 900 mm high (possible from 3000 mm clear height)	Surcharge per section		131
Second transparent curtain section, approx. 900 mm high (available from 3000 mm clear height)	Surcharge per door		236
Further controls and emergency openings			See from page 44
Accessories for operators and controls			See from page 48
RAL colour coating to choose			See page 50

V 5030 SEL

Internal door with SoftEdge and anti-crash



Self-supporting door construction, suitable for interior use, resistance to wind load in acc. with EN 12424 class 0.

Optional with aluminium bottom seal profile for wind load in acc. with EN 12424 class 1 (see below).

Door travel speed (max.)

Frequency converter control

Open: Approx. 2.0 m/s

Close: Approx. 0.8 m/s

Door leaf

Curtain made of textile-reinforced UPVC, 1.5 mm thick, with 900 mm vision field made of transparent UPVC, 2 mm thick, from approx. 1300 mm above floor, optionally without vision field.

Spring steel wind locks in the curtain pockets with side twin rollers.

This door type is suitable for application in a temperature range from +5°C to +40°C. For deviating temperatures please contact the factory!

Standard colours based on:

RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey.

SoftEdge rubber bottom profile with monitoring via a radio crash switch.

Construction

Self-supporting side guides made of canted, galvanized material with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height approx. 2500 mm), side element seal in H-PVC / TPE. Shaft made of galvanized precision tube.

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch, emergency opening via emergency crank handle. Motor power 1.1 kW, connecting voltage 230 V, 50 Hz, protection category IP 54, operator side on right or left.

Control

Control BK 150 FUE-1 in plastic control box, IP 65, 1-phase, 230 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, automatic timer and display, connection cable with CEE plug, (crash protection with manual start-up / automatic re-feed) 3 volt-free contacts available.

		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear height	5000	8555	8636	8718	8798	8862	8946	9030	9113	9197	9284	9365	9453	9536	
	4750	8475	8552	8635	8715	8794	8854	8938	9021	9104	9184	9269	9351	9430	
	4500	8396	8474	8550	8630	8708	8786	8845	8927	9009	9088	9168	9247	9329	
	4250	8314	8394	8470	8546	8623	8696	8777	8834	8913	8988	9071	9146	9228	
	4000	8235	8309	8386	8462	8534	8608	8684	8759	8813	8890	8969	9044	9123	
	3750	8155	8231	8301	8374	8450	8521	8597	8671	8740	8796	8870	8943	9022	
	3500	7900	7972	8042	8116	8189	8258	8331	8574	8647	8695	8769	8845	8920	
	3250	7818	7890	7959	8030	8099	8171	8240	8483	8555	8600	8674	8744	8814	
	3000	7740	7810	7879	7947	8014	8082	8151	8395	8463	8501	8570	8642	8715	
	2750	7658	7727	7796	7863	7928	7995	8064	8303	8370	8401	8474	8543	8610	
	2500	7581	7643	7707	7775	7840	7903	7972	8212	8278	8303	8373	8442	8510	
	2250	7499	7561	7628	7693	7756	7817	7883	8122	8185	8209	8278	8338	8404	
	2000	7420	7484	7545	7606	7670	7731	7795	8030	8090	8108	8175	8238	8300	
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear width															

Shaft cover made of galvanized material													€ each
Straight	280	304	326	352	374	398	421	446	469	491	516	537	563
Chamfered	293	319	343	369	393	417	444	468	491	518	540	566	592

Shaft covers in stainless steel, V2 A brushed													€ each
Straight	597	652	707	764	818	875	932	989	1042	1099	1155	1211	1267
Chamfered	655	715	779	841	900	959	1025	1089	1145	1209	1273	1334	1391

Notice:

Side elements in stainless steel = basic door price 20% surcharge

Operator covers		Each
Operator cover made of galvanized material	Straight	223
	Chamfered	266
Operator cover in stainless steel, V2 A	Straight	416
	Chamfered	442
Optional extras		€
Option: aluminium bottom seal profile for wind load in acc. with EN 12424 up to class 1	per m LDB	47
Insect protection section – light section as a black grille foil, ventilation cross-section approx. 15%	Surcharge per door	131
Option: bottom replacement section with weather strip 600 mm high	Per unit	235

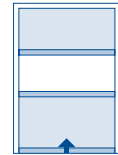
Further controls and emergency openings	See from page 44
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Accessories for operators and controls	See from page 48
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RAL colour coating to choose	See page 50
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V 6030 SEL

Internal and external door with SoftEdge and anti-crash



Self-supporting door construction, suitable for interior and exterior use.
Wind load acc. to DIN EN 12424 class 2

Door travel speed (max.)

Frequency converter control

Open: Approx. 2.0 m/s

Close: Approx. 0.8 m/s

Door leaf

Curtain made of textile-reinforced UPVC, 1.5 mm thick, with 900 mm vision field made of transparent UPVC, 2 mm thick, from approx. 1400 mm above floor, optionally without vision field. Spring steel wind locks in the curtain pockets with side twin rollers.

This door type is suitable for application in a temperature range from +5°C to +40°C. For deviating temperatures please contact the factory!

From a door opening of LDB 4000 mm x LDH 4000 mm, the use of curtain fixing is recommended.

Standard colours based on:

RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey.

SoftEdge rubber bottom profile with monitoring via a radio crash switch.

Construction

Self-supporting side guides made of canted, galvanized material with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height approx. 2500 mm), side element seal in H-PVC / TPE. Door leaf tension via tensioning system behind the removable cladding. Shaft made of galvanized precision tube.

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch, emergency opening via emergency crank handle. Motor power 1.1 kW, connecting voltage 230 V, 50 Hz, protection category IP 54, operator side on right or left.

Control

Control BK 150 FUE-1 in plastic control box, IP 65, 1-phase, 230 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, automatic timer and display, connection cable with CEE plug, (crash protection with manual start-up / automatic re-feed) 3 volt-free contacts available.

		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear height	6000	10463	10565	10667	10770	10869	10969	11074	11172	11274	11370	11475	11575	11675	
	5750	10367	10463	10564	10661	10763	10862	10961	11059	11157	11259	11356	11455	11554	
	5500	10267	10366	10459	10558	10657	10758	10852	10949	11045	11145	11243	11338	11439	
	5250	10166	10263	10361	10453	10553	10647	10744	10837	10934	11028	11126	11221	11317	
	5000	10069	10164	10255	10349	10447	10540	10632	10725	10820	10915	11011	11102	11199	
	4750	9969	10060	10158	10249	10337	10430	10523	10617	10706	10804	10894	10986	11079	
	4500	9868	9963	10054	10141	10233	10325	10415	10505	10597	10687	10776	10869	10960	
	4250	9770	9859	9944	10037	10126	10218	10306	10393	10486	10573	10660	10753	10842	
	4000	9673	9758	9847	9931	10019	10108	10194	10286	10373	10456	10546	10633	10718	
	3750	9573	9659	9744	9828	9916	10003	10085	10175	10257	10345	10429	10517	10601	
	3500	9470	9552	9639	9724	9808	9894	9978	10060	10143	10231	10315	10401	10486	
	3250	9373	9457	9536	9621	9701	9785	9866	9952	10034	10115	10198	10284	10364	
	3000	9273	9353	9435	9517	9596	9677	9758	9841	9923	10003	10082	10164	10244	
	2750	9173	9252	9334	9413	9491	9571	9646	9730	9807	9889	9968	10047	10125	
	2500	9073	9149	9227	9306	9381	9461	9537	9620	9696	9774	9853	9928	10007	
	2250	8976	9050	9123	9201	9277	9353	9428	9511	9586	9661	9736	9810	9888	
2000	8872	8950	9024	9100	9173	9247	9321	9392	9466	9542	9620	9695	9769		
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear width															

Shaft cover made of galvanized material													€ each
Straight	300	324	351	375	401	428	451	479	501	529	554	579	604
Chamfered	313	340	366	393	418	447	474	499	527	554	579	606	633
Shaft covers in stainless steel, V2 A brushed													€ each
Straight	621	678	732	789	842	899	957	1014	1054	1069	1124	1235	1291
Chamfered	663	723	781	841	897	955	1019	1074	1132	1192	1251	1313	1367

Notice: Side elements in stainless steel = basic door price + 20% surcharge

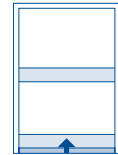
Operator covers		Each
Operator cover made of galvanized material	Straight	223
	Chamfered	266
Operator cover in stainless steel, V2 A	Straight	416
	Chamfered	442
Optional extras		€
Optional: aluminium bottom seal profile	per m LDB	47
Option: bottom replacement section with weather strip 600 mm high	per unit	235
Curtain fixing	Clear width ≤ 4500 mm	392
(curtain fixing not possible with cover)	Clear width > 4500 mm	781
Insect protection section – light section as a black grille foil, (ventilation cross section approx. 15%)	Surcharge per door	131

Further controls and emergency openings	See from page 44
Accessories for operators and controls	See from page 48
RAL colour coating to choose	See page 50

Notes and sketches

V 6020 TRL

Internal and external door with transparent curtain



Door construction suitable for interior and exterior use.
Max. wind resistance in acc. with DIN EN 12424, class 2.

Door travel speed (max.)

Frequency converter control

Open: Approx. 2.0 m/s

Close: Approx. 0.5 m/s

Door leaf

Curtain made of transparent UPVC, 4 mm thick, with spring steel wind locks in coloured curtain pockets, more than 80% translucent. Bottom seal profile made of aluminium with EPDM bottom seal.

A version made of fabric with or without transparent vision field is optionally available.
Over 25 m² the fabric version is used as standard, 2.4 mm thick, orange / red, blue or grey with 800 mm vision field from approx. 1450 mm above floor. This door type is suitable for application in a temperature range from +5°C to +40°C. For deviating temperatures please contact the factory!

Construction

Self-supporting side guides made of canted, galvanized material with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height approx. 2500 mm). Door leaf tension via tensioning system behind the folding cladding. Shaft made of galvanized precision tube.

		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
Clear height	7000	12955	14045	14232	14424	14622	14799	14998	15947	16134	16323	16517	16692	16881
	6750	12815	13905	14088	14271	14460	14631	14827	15003	15954	16134	16325	16497	16682
	6500	12676	13760	13938	14117	14301	14472	14657	14830	15778	15956	16134	16303	16484
	6250	12539	13620	13796	13971	14144	14314	14493	14663	14838	15773	15947	16119	16293
	6000	12408	12569	13656	13826	13992	14165	14332	14500	14668	15593	15762	15928	16102
	5750	12275	12433	13515	13676	13841	14009	14173	14335	14503	14665	15581	15749	15911
	5500	12145	12302	13373	13535	13695	13852	14015	14175	14333	14494	14655	15568	15728
	5250	12012	12167	13230	13389	13543	13699	13854	14011	14168	14320	14475	15384	15540
	5000	11885	12032	12175	13242	13395	13543	13696	13847	13995	14146	14298	14452	15353
	4750	11751	11898	12047	13099	13242	13391	13537	13680	13830	13978	14125	14263	14412
	4500	11615	11761	11902	12539	13092	13235	13380	13517	13662	13801	13942	14089	14226
	4250	11488	11624	11761	11899	12946	13081	13218	13354	13491	13627	13766	13905	14038
	4000	11356	11488	11617	11753	11887	12925	13059	13192	13323	13455	13588	13721	13850
	3750	11225	11352	11478	11606	11737	12777	12899	13028	13154	13282	13408	13538	13665
	3500	11094	11215	11338	11462	11587	11708	12744	12861	12987	13109	13230	13354	13479
	3250	10961	11080	11199	11317	11436	11554	11672	12706	12821	12938	13057	13176	13288
	3000	10828	10944	11057	11172	11282	11402	11513	11625	12655	12761	12877	12992	13105
	2750	10700	10809	10918	11024	11134	11244	11353	11462	11571	12593	12697	12808	12919
2500	10566	10673	10775	10882	10984	11092	11195	11295	11406	11508	12528	12636	12732	
2250	10438	10534	10634	10735	10834	10934	11036	11134	11237	11336	11436	12448	12549	
2000	10304	10402	10495	10589	10687	10779	10877	10969	11069	11162	11257	11353	12362	
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
Clear width														

Shaft cover made of galvanized material													€ each
Straight	401	436	474	509	543	578	614	650	685	720	757	792	828
Chamfered	413	450	487	526	562	599	636	671	709	745	783	819	858

Shaft covers in stainless steel, V2 A brushed													€ each
Straight	761	838	913	989	1062	1139	1215	1289	1365	1440	1515	1588	1666
Chamfered	780	858	936	1011	1090	1168	1244	1321	1400	1477	1553	1631	1709

Operator covers		Each
Operator cover made of galvanized material	Straight	239
	Chamfered	282
Operator cover in stainless steel, V2 A	Straight	444
	Chamfered	470

Notice:

Side elements in stainless steel = basic door price 25% surcharge

Further controls and emergency openings	See from page 44
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Accessories for operators and controls	See from page 48
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V 6020 TRL

Internal and external door with transparent curtain



Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch, emergency opening via emergency crank handle, motor power 1.1 – 2.2 kW, connecting voltage 230 V / 400 V, 50 Hz, protection category IP 54, operator side on right or left.

Controls

Both controls:
Electronic travel limit setting, Open-Stop-Close membrane push button.

- For doors ≤ 95 kg:
- Control BK 150 FUE-1 in plastic control box, IP 65, 1-phase, 230 V, size (W × H × D) = 230 × 460 × 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, automatic timer and display. Connection cable with CEE plug, 3 volt-free contacts available.

- For doors > 95 kg:
Control AK 500 FUE-1 in plastic control box, IP 65, 3-phase, 400 V, size (W × H × D) = 230 × 460 × 200 mm, frequency converter, electronic travel limit setting, "Open-Stop-Close" membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

		5250	5500	5750	6000
Clear height	7000	17052	17249	17433	17630
	6750	16855	17040	17218	17411
	6500	16657	16837	17017	17196
	6250	16462	16638	16811	16988
	6000	16269	16442	16607	16779
	5750	16078	16243	16405	16570
	5500	15889	16048	16209	16367
	5250	15694	15852	16006	16161
	5000	15504	15655	15808	15957
	4750	15312	15460	15604	15751
	4500	15121	15263	15404	15547
	4250	14177	15064	15206	15337
	4000	13986	14115	14249	15134
	3750	13794	13919	14048	14177
	3500	13599	13725	13848	13972
	3250	13408	13528	13650	13766
	3000	13219	13332	13445	13560
	2750	13028	13137	13243	13354
	2500	12834	12940	13043	13146
	2250	12649	12744	12844	12946
	2000	12456	12554	12648	12744
		5250	5500	5750	6000
		Clear width			

Door versions:

 = BK 150 FUE-1

 = AK 500 FUE-1

Shaft cover made of galvanized material € per unit				
Straight	863	899	936	970
Chamfered	894	932	968	1004

Shaft covers in stainless steel, V2 A brushed € per unit				
Straight	1743	1818	1893	1969
Chamfered	1787	1864	1941	2017

Operator covers		Each
Operator cover made of galvanized material	Straight	239
	Chamfered	282
Operator cover in stainless steel, V2 A	Straight	444
	Chamfered	470

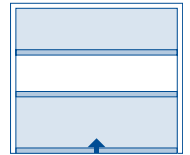
Notice:

Side elements in stainless steel = basic door price 25% surcharge

Further controls and emergency openings	See from page 44
Accessories for operators and controls	See from page 48

V 10008

External door for especially large openings



Door construction for exterior use.
Wind load acc. to DIN EN 12424
LDB doors ≤ 5000 mm class 4

LDB doors > 5000 mm and ≤ 6000 mm class 3
LDB doors > 6000 mm class 2.

Door travel speed (max.)

Open: Door width < 6 m approx. 1.5 m/s
Door width > 6 m approx. 0.8 m/s
Close: Approx. 0.4 m/s

Door leaf

Curtain made of textile-reinforced UPVC, 1.5 mm thick, anti-static, with 900 mm vision field made of transparent UPVC, 2 mm thick, from approx. 1500 mm above floor, optionally without vision field, quiet rolling thanks to wind lock in door curtain. Tensioning system for door leaf tension.

This door type is suitable for application in a temperature range from +5°C to +40°C. For deviating temperatures please contact the factory! Standard colours, based on: RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey.
Heavy aluminium bottom part with double closing edge safety device. Emergency opening via emergency hand chain.

Construction

Side guides made of canted, galvanized material. Control of driveway via 2 photocells (300 and 600 mm high). Shaft made of galvanized precision tube.

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch, emergency opening via emergency hand chain, motor power 2.2 – 3.0 kW, connecting voltage 400 V, 50 Hz, protection category IP 54, operator side on right or left.

Control

Control AK 500 FUE-1 in plastic control box, IP 65, 3-phase, 400 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

		5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	
Clear height	6250	20278	20433	20584	20742	20894	21545	21704	21863	22025	22185	26186	26440	26688	
	6000	20100	20253	20404	20557	20709	21355	21515	21669	21830	21989	25993	26239	26486	
	5750	19924	20070	20220	20372	20521	21165	21320	21480	21634	21792	25791	26041	26287	
	5500	19741	19891	20036	20188	20334	20976	21133	21287	21442	21595	25595	25838	26082	
	5250	19567	19712	19856	20004	20150	20792	20945	21095	21246	21400	25397	25637	25884	
	5000	19387	19531	19673	19817	19962	20600	20753	20902	21054	21205	25199	25438	25678	
		5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	
Clear width															

Steel cladding for operator bearing and shaft made of galvanized material

2-sided	2337	2416	2495	2569	2646	2726	2803	2879	2956	3031	3113	3189	3267
3-sided	3443	3560	3680	3798	3914	4035	4151	4272	4388	4505	4628	4743	4861

		8250	8500	8750	9000	9250	9500	9750	10000
Clear height	6250	26939	27190	27439	27688	27939	28192	28441	28688
	6000	26736	26982	27233	27482	27728	27980	28227	28475
	5750	26530	26777	27025	27274	27517	27764	28012	28256
	5500	26329	26575	26816	27061	27307	27552	27797	28041
	5250	26123	26369	26607	26852	27094	27337	27579	27824
	5000	25920	26161	26401	26645	26883	27124	27366	27604
		8250	8500	8750	9000	9250	9500	9750	10000
Clear width									

Steel cladding for operator bearing and shaft made of galvanized material

2-sided	3344	3424	3502	3579	3656	3737	3811	3887
3-sided	4980	5099	5217	5333	5451	5574	5689	5733

Further controls and emergency openings	See from page 44
Accessories for operators and controls	See from page 48
RAL colour coating to choose	See page 50

Notes and sketches

V 2515 Food L

Internal door for wet areas in the food industry



Self-supporting door construction, suitable for interior use. Resistance to wind load in acc. with EN 12424 class 0.

Door travel speed (max.)

Frequency converter control

Open: Approx. 1.2 m/s

Close: Approx. 0.5 m/s

Door leaf

Curtain made of textile-reinforced UPVC, 1.5 mm thick, with 900 mm vision field made of transparent UPVC, 2 mm thick, from approx. 1300 mm above floor, optionally without vision field. Spring steel wind locks in the curtain pockets. This door type is suitable for application in a temperature range from +5°C to +40°C. For deviating temperatures please contact the factory! Standard colours, based on: RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey.

SoftEdge rubber bottom profile with monitoring via a radio crash switch.

Construction

Entire door construction made of stainless steel. Chamfered stainless steel operator and shaft cover as standard equipment.

Easy-to-clean side guides thanks to open design with edge guard and water run-off in the floor area. Side guides with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height approx. 2500 mm).

Operator

Direct drive operator with V2 A hollow shaft, electromagnetic brake, integral catch safety device, digital limit switch, motor power 0.75 kW, connecting voltage 230 V, 50 Hz, protection category IP 65, operator side on right or left. Emergency opening only via UPS.

Control

Control BS 150 FUE-1 in stainless steel control box, IP 65, 1-phase, 230 V, size (W x H x D) = 300 x 500 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close push button, main switch, emergency-off button, automatic timer and display, 3 volt-free contacts available.

	Clear height		
	2000	2250	2500
4000	11805	11998	12204
3750	11691	11883	12085
3500	11575	11764	11963
3250	11460	11649	11841
3000	10959	11145	11333
2750	10843	11027	11213
2500	10727	10913	11096
2250	10615	10798	10977
2000	10500	10682	10861
	Clear width		
	2000	2250	2500

Optional extras

Emergency opening via UPS in stainless steel control box

1542

Chamfered control box cover in stainless steel (art. no. 4980343)

265

Accessories for operators and controls

See from page 48

RAL colour coating to choose

See page 50

Internal door for supermarkets



Self-supporting door construction, only suitable for inside. Specifically designed for supermarkets. Resistance to wind load in acc. with EN 12424 class 0.

Door travel speed (max.)

Frequency converter control

Open: Approx. 1.2 m/s

Close: Approx. 0.5 m/s

Door leaf

Curtain made of textile-reinforced UPVC, 1.5 mm thick, with curtain slides, optionally with vision field made of 750 mm high transparent UPVC, 2 mm thick, from approx. 1300 mm above floor.

This door type is suitable for application in a temperature range from +5°C to +40°C. For deviating temperatures please contact the factory! Standard colours based on:

RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey.

Flexible bottom seal profile without closing edge safety device

Construction

Self-supporting side guides made of canted, galvanized material. Control of driveway via light grille (monitoring height 350 mm, length 510 mm). Shaft made of plastic. Emergency opening via operating current brake and counter weights in case of power failure.

Operator

Direct drive operator with operating current brake, integral catch safety device, digital limit switch, emergency opening via counter weights, motor power 0.37 kW, connecting voltage 230 V, 50 Hz, protection category IP 54, operator side on right or left.

Control

Control BK 500 FUE-1 in plastic control box, IP 65, 1-phase, 230 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

Galvanized operator and shaft cover as standard equipment.

		1500	1750	2000	2250	2500
Clear height	2500	6224	6267	6310	6354	6396
	2250	6216	6254	6298	6333	6376
	2000	6200	6241	6276	6319	6357
	1750	6185	6223	6261	6302	6335
		1500	1750	2000	2250	2500
		Clear width				

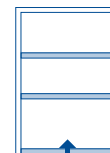
Notice:

Side elements in stainless steel = basic door price 20% surcharge

Optional extras			€
Colour coating, guide and cladding in accordance with the RAL colour chart	Per door		553
Crash protection, UPVC, blue (art. no. 158994)	Each pair		251
Further controls and emergency openings			See from page 46
Accessories for operators and controls			See from page 48
RAL colour coating to choose			See page 50

V 3015 Clean

Internal door for clean rooms with transparent curtain



Self-supporting door construction, suitable for interior use

Door travel speed (max.)

Frequency converter control

Open: Approx. 1.5 m/s

Close: Approx. 0.5 m/s

Door leaf

Curtain made of transparent UPVC, 4.0 mm thick with spring steel wind locks in coloured curtain pockets with side twin rollers. Curtain pockets in standard colours RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue or RAL 7038 Agate grey freely selectable on order.

This door type is suitable for application in a temperature range from +5°C to +40°C. For deviating temperatures please contact the factory!

Construction

Self-supporting side guides made of canted stainless steel. Closing edge safety device, photocell. Shaft made of galvanized precision tube.

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch, emergency opening via emergency crank handle. Motor power 1.1 kW, connecting voltage 230 V, 50 Hz, protection category IP 54, operator side on right or left.

Control

Control BS 150 FUE-1 in stainless steel control box, IP 65, 1-phase, 230 V, size (W × H × D) = 300 × 500 × 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close push button, main switch, emergency-off button, automatic timer and display, 3 volt-free contacts available.

As standard with chamfered shaft and operator cover with 5° slope in stainless steel

		2000	2250	2500
Clear height	3000	13193	13454	13716
	2750	13029	13285	13541
	2500	12866	13115	13369
	2250	12699	12947	13192
	2000	12534	12780	13017
		2000	2250	2500
		Clear width		

Optional extras

Chamfered control box cover in stainless steel (art. no. 4980343)

€ 265

Further controls and emergency openings

See from page 46

Accessories for operators and controls

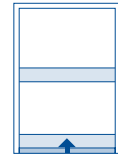
See from page 48

RAL colour coating to choose

See page 50

V 5030 MSL

Internal door for protecting people and equipment



Self-supporting door construction, suitable for interior use, resistance to wind load in acc. with EN 12424 class 1.

Door travel speed (max.)

Frequency converter control

Open: Approx. 1.5 m/s

Close: Approx. 0.8 m/s

Door leaf

Curtain made of transparent UPVC, 4.0 mm thick with spring steel wind locks in coloured curtain pockets with side twin rollers. Curtain pockets in standard colours RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue or RAL 7038 Agate grey freely selectable on order.

Optional with textile-reinforced material 2.4 mm thick, orange / red, blue or grey with vision field, from approx. 1450 mm above floor. Aluminium bottom profile. This door type is suitable for

application in a temperature range from +5°C to +40°C. For deviating temperatures please contact the factory!

Construction

Self-supporting side guides made of canted, galvanized material with integrated, self-monitoring safety light grille in the closing zone (max. monitoring height approx. 2500 mm), side EPDM seal. Shaft made of galvanized precision tube. Query of the door position via cat. 4 safety sensor (Schmersal CSS-14-24-S-D-M-ST) in the guide, on one side. Other sensors on request.

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch, emergency opening via emergency crank handle. Motor power 1.1 kW, connecting voltage 230 V, 50 Hz, protection category IP 54, operator side on right or left.

Controls

- For doors ≤ 95 kg:
Control BK 150 FUE-1 in plastic control box, IP 65, 1-phase, 230 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.
- For doors > 95 kg:
Control AK 500 FUE-1 in plastic control box, IP 65, 3-phase, 400 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

		2000	2250	2500	2750	3000	3250	3500	3750	4000
		2000	2250	2500	2750	3000	3250	3500	3750	4000
Clear height	4000	8967	9112	9260	9403	9547	12102	12247	12394	12708
	3750	8870	9012	9149	9292	9432	11862	12128	12267	12407
	3500	8605	8742	8879	9016	9149	9286	11712	12139	12272
	3250	8509	8639	8771	8903	9036	9167	9299	11887	12142
	3000	8410	8538	8669	8793	8924	9047	9176	9466	11886
	2750	8314	8436	8558	8683	8803	8929	9051	9341	9462
	2500	8214	8336	8453	8571	8690	8808	8928	9213	9333
	2250	8119	8233	8347	8462	8574	8690	8802	9084	9196
	2000	8018	8131	8240	8349	8459	8570	8679	8954	9065
Clear width										

Door versions:

-  = BK 150 FUE-1
-  = AK 500 FUE-1

Shaft cover made of galvanized material									€ each
Straight	300	324	351	375	401	428	451	479	501
Chamfered	313	340	366	393	418	447	474	499	527

Shaft covers in stainless steel, V2 A brushed									€ each
Straight	597	652	707	764	818	875	932	989	1042
Chamfered	626	685	743	805	860	917	980	1037	1094

Notice:

Side elements in stainless steel = basic door price 20% surcharge

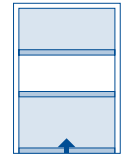
Safety sensors and optional extras		€ per door
Price reduction for the omission of safety sensors	Price reduction	451
Safety sensor CSS-14-34-S-D-M-ST (cat.4)		No surcharge
Safety sensor NBB20-L2-A2-V1		No surcharge
Safety switch PSEN cs1.19 1blk (cat. 4)		129
Safety sensor CES-A-C5H-01 (cat. 4)		393
Safety switch Sident /IV40fq50n20-11Sh1C (cat. 4)		589
Safety sensor for querying the top end-of-travel position safety sensor NBB20-L2-A2-V1		528
Side element extension to 1500 mm	Per m	155
Installation frame		On request
Operator covers		Each
Operator cover made of galvanized material	Straight	223
	Chamfered	266
Operator cover in stainless steel, V2 A	Straight	416
	Chamfered	442

Further controls and emergency openings	See from page 46
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Accessories for operators and controls	See from page 48
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V 3009 conveyor

Internal door for conveyor systems



Self-supporting door construction, only suitable for interior use. Resistance to wind load in acc. with EN 12424 class 0.

Door travel speed (max.)

Relay control unit

Open: Approx. 0.8 m/s

Close: Approx. 0.8 m/s

Frequency converter control

Open: Approx. 1.2 m/s

Close: Approx. 0.8 m/s

Construction

Self-supporting side guides made of canted, galvanized material. Photocell for control of driveway on the side guides. Shaft made of galvanized precision tube.

Door leaf

Curtain made of non-transparent, textile-reinforced UPVC, 1.5 mm thick, divided into 2 or 3 sections by 2 aluminium profiles. With 750 mm vision field made of transparent UPVC, 2 mm thick, from approx. 1300 mm above floor, optionally without vision field. This door type is suitable for application in a temperature range from +5°C to +40°C.

Standard colours, based on: RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey.

Aluminium bottom seal profile with EPDM bottom seal and integral, self-monitoring closing edge safety device.

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch, emergency opening via emergency crank handle, motor power 0.37–0.45 kW, connecting voltage 400 V, 50 Hz, protection category IP 54, operator side on right or left.

Control

Control AK E in plastic control box, IP 54, 3-phase, 400 V, size (W × H × D) = 180 × 320 × 100 mm, inversion relay, electronic travel limit setting (without emergency-off button), Open-Stop-Close membrane push button, emergency-off button, automatic timer and display, connection cable with CEE plug, 2 volt-free contacts available.

For personnel traffic, only in conjunction with control BK 150 FUE-1!

		2000	2250	2500	2750	3000	3250	3500
Clear height	3500	6043	6100	6159	6215	6268	6329	6382
	3250	5947	6000	6056	6112	6165	6221	6274
	3000 *	5848	5901	5955	6005	6062	6115	6169
	2750	5748	5800	5854	5907	5956	6007	6062
	2500	5651	5704	5753	5803	5854	5906	5955
	2250	5553	5603	5651	5703	5748	5797	5848
	2000	5457	5504	5551	5598	5643	5690	5738
		2000	2250	2500	2750	3000	3250	3500
		Clear width						

* From a door height of > 3000 mm the use of a cover is no longer possible.

Shaft cover made of galvanized material							€ each
Straight	261	284	307	331	355	378	403
Chamfered	274	300	323	348	373	398	422

Shaft covers in stainless steel, V2 A brushed							€ each
Straight	486	535	585	635	684	735	781
Chamfered	515	567	621	674	727	780	834

Notice:

Side elements in stainless steel = basic door price 20% surcharge

Operator covers		Each
Operator cover made of galvanized material	Straight	223
	Chamfered	266
Operator cover in stainless steel, V2 A	Straight	416
	Chamfered	442

Accessories for operators and controls See from page 48

RAL colour coating to choose See page 50

V 6030 Atex

Internal door for potentially explosive areas

Self-supporting door construction, suitable for interior use. Resistance to wind load in acc. with EN 12424 class 0.

Door travel speed (max.)

Frequency converter control

Open: Approx. 1.5 m/s

Close: Approx. 0.5 m/s

Construction

Self-supporting side guides made of canted, galvanized material. EX safety contact strip. EX photocell as safety equipment. Operator in EX version.

Shaft made of galvanized precision tube.

Certified as follows according to the current Atex directive 2014/34/EU:

- Ex II 2G Ex h IIB T4 Gb for the gas zone and
- Ex II 2D Ex h IIIB T125°C Db for the dust zone.

Door leaf

Fabric curtain, 1.5 mm thick, anti-static, with 900 mm transparent vision field, 2.0 mm thick, from approx. 1300 mm above floor, optionally without vision field. Spring steel wind locks in the curtain pockets with side twin rollers. This door type is suitable for application in a temperature range from +5°C to +40°C.

Standard colours, based on: RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey.

Bottom seal profile made of aluminium with EPDM bottom seal and integrated Ex Gelbau contact bar.

Operator

Direct drive operator in EX version with integral catch safety device, cam limit switch. Motor power 1.1 kW, IP 65, operator side right or left.

Control

Frequency converter control BS 150 FUE 1-phase, 230 V, steel control box IP 65, size (W × H × D) = 600 × 600 × 200 mm, main switch, integral automatic timer, mechanical limit switch.

Control box must be fitted outside the EX area!

► **Please consult your regional sales office before every order. A technical inspection is always carried out by the factory before a quotation is written.**

		2000	2250	2500	2750	3000	3250	3500	3750	4000
		2000	2250	2500	2750	3000	3250	3500	3750	4000
Clear height	4000	33240	33339	33439	33533	33623	33718	33809	33913	34013
	3750	33176	33268	33366	33454	33543	33638	33729	33826	33922
	3500	33147	33198	33289	33376	33463	33556	33646	33736	33825
	3250	33043	33126	33215	33304	33384	33475	33562	33645	33729
	3000	32977	33055	33139	33226	33313	33393	33475	33556	33638
	2750	32903	32975	33041	33134	33232	33327	33429	33489	33553
	2500	32837	32891	32942	33044	33147	33263	33382	33424	33463
	2250	32768	32828	32894	32980	33067	33159	33246	33306	33366
	2000	32699	32772	32842	32917	32985	33049	33110	33191	33263
Clear width										

Shaft cover made of galvanized material									€ each
Straight	300	324	351	375	401	428	451	479	501
Chamfered	313	340	366	393	418	447	474	499	526

Shaft covers in stainless steel, V2 A brushed									€ each
Straight	597	652	707	764	818	875	932	989	1042
Chamfered	626	685	743	805	860	917	980	1037	1093

Notice:

Door version in stainless steel = basic door price + 10% surcharge

Optional extras				€
Cable longer than 6 m (extension to 10 m, 15 m, 20 m)				Per m 63
Opening device:	Pull switch with 4 m cable	Art. no.: 159 765	Each	117
	Intrinsically safe connecting lead	Art. no.: 158 569	Per m	8
	EX Open-Close push button	Art. no.: 158 877	Each	700
	EX flashing warning light	Art. no.: 306 301	Each	2040
	EX photocell	Art. no.: 159 047	Each	2192
	Surface-mounted EX Open-Stop push button with housing	Art. no.: 159 046	Each	1010
Operator covers				Each
Operator cover made of galvanized material				Straight 223
				Chamfered 266
Operator cover in stainless steel, V2 A				Straight 416
				Chamfered 415
RAL colour coating to choose				See page 50

Overview of controls and emergency openings

Turbo spiral doors, spiral doors, high-speed sectional doors, Iso Speed Cold

		HS 5040 TurboLux	HS 5040 TurboLux S	HS 7030 PU 42	HS 5012 PU 42 S	
Frequency converter control						
BK 150 FUE-1 Frequency converter control in a plastic control box, 1-phase, 230 V, IP 65	Optional / standard			Optional		
	Max. opening speed	3.5 m/s		1.0 m/s		
	Max. closing speed	1.0 m/s		0.5 m/s		
	Restriction			Max. 9 m ² door size, depending on dimensions, on request only		
	Article no.	4991937		4991937		
	Surcharge	No surcharge		No surcharge		
Lockable main switch for BK 150 FUE-1	Article no.	4991939		4991939		
	Surcharge	125 €		125 €		
Lockable main switch + emergency-off button for BK 150 FUE-1 *	Article no.	4991939 + 157299		4991939 + 157299		
	Surcharge	247 €		247 €		
AK 500 FUE-1 Frequency converter control in a plastic control box, 3-phase, 400 V, IP 65	Optional / standard		Standard	Standard	Standard	
	Max. opening speed		Faster than 4 m/s	2.5 / 1.2 m/s	1.2 m/s	
	Max. closing speed		1.0 m/s	0.5 m/s	0.5 m/s	
	Restriction					
	Article no.			4991970	4991970	
	Surcharge					
Extension PCB For control BK 150 FUE-1 / AK 500 FUE-1	Optional / standard	Optional	Optional	Optional	Optional	
	1-relay Article no.	4981286	4981286	4981286	4981286	
	1-relay Surcharge	200 €	200 €	200 €	200 €	
	6-relay Article no.	4981638	4981638	4981638	4981638	
	6-relay Surcharge	758 €	758 €	758 €	758 €	
Emergency opening						
Emergency crank handle	Optional / standard					
BS 150 FUE-1 UPS Emergency opening via UPS in a steel control box, 1-phase, 230 V, IP 65	Optional / standard		Optional	Optional		
	Max. opening speed		Faster than 4 m/s	1.0 m/s		
	Max. closing speed		1.0 m/s	0.8 m/s		
	Restriction			Max. 9 m ² door size, depending on dimensions, on request only		
	Article no.			4991936		
	Surcharge		1542 €	1542 €		
BK-UPS Emergency opening via UPS in a separate plastic control box, 1-phase, 230 V, IP 30	Optional / standard		Optional	Optional		
	Max. opening speed		Faster than 4 m/s	1.0 m/s		
	Max. closing speed		1.0 m/s	0.8 m/s		
	Restriction			Max. 9 m ² door size, depending on dimensions, on request only		
	Article no.			4991935		
	Surcharge		1233 €	1233 €		
Emergency opening with counter weights / springs and pull cord	Optional / standard					
	Surcharge					
Emergency opening with counter weights / springs and operating current brake	Optional / standard					
	Article no.					
	Surcharge					
Emergency hand chain	Optional / standard	Standard	Standard	Standard	Standard	
	Article no.					
	Surcharge					
Secured release	Optional / standard		Standard			
	Article no.					
	Surcharge					

* Emergency-off button only selectable in combination with main switch

E = expandable

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Overview of controls and emergency openings

Flexible high-speed doors for normal and special applications

		V 4020 SEL Alu-R	V 4008 SEL	V 5015 SEL	V 5030 SEL	V 6030 SEL	
Frequency converter control							
BK 150 FUE-1 Frequency converter control in a plastic control box, 1-phase, 230 V, IP 65	Optional / standard	Standard		Standard	Standard	Standard	
	Max. opening speed	1.5 m/s		1.5 m/s	2.0 m/s	2.0 m/s	
	Max. closing speed	0.8 m/s		0.8 m/s	0.8 m/s	0.8 m/s	
	Restriction						
	Article no.	4991937		4991937	4991937	4991937	
	Surcharge						
Lockable main switch for BK 150 FUE-1	Article no.	4991939		4991939	4991939	4991939	
	Surcharge	125 €		125 €	125 €	125 €	
Lockable main switch + emergency-off button for BK 150 FUE-1 *	Article no.	4991939 + 157299		4991939 + 157299	4991939 + 157299	4991939 + 157299	
	Surcharge	247 €		247 €	247 €	247 €	
AK 500 FUE-1 Frequency converter control in a plastic control box, 3-phase, 400 V IP 65	Optional / standard				Optional	Optional	
	Max. opening speed				3.0 m/s	3.0 m/s	
	Max. closing speed				0.8 m/s	0.8 m/s	
	Restriction						
	Article no.				4982137	4982137	
	Surcharge				1636 €	1636 €	
Extension PCB For control BK 150 FUE-1 / AK 500 FUE-1	Optional / standard	Optional		Optional	Optional	Optional	
	1-relay	Article no.	4981286	4981286	4981286	4981286	
		Surcharge	200 €	200 €	200 €	200 €	
	6-relay	Article no.	4981638	4981638	4981638	4981638	
		Surcharge	758 €	758 €	758 €	758 €	
Relay control unit							
AK E Inversion relay control in plastic control box, 3-phase, 400 V	Optional / standard		Standard				
	Max. opening speed		0.8 m/s				
	Max. closing speed		0.8 m/s				
	Article no.		4982067				
	Price						
E WU Extension PCB	Optional / standard						
	Article no.						
	Surcharge						
Emergency opening							
Emergency crank handle	Optional / standard		Standard	Standard	Standard	Standard	
BS 150 FUE-1 UPS Emergency opening via UPS in a steel control box, 1-phase, 230 V, IP 65	Optional / standard	Optional		Optional	Optional	Optional	
	Max. opening speed	1.5 m/s		1.5 m/s	2.0 m/s	2.0 m/s	
	Max. closing speed	0.8 m/s		0.8 m/s	0.8 m/s	0.8 m/s	
	Restriction						
	Article no.	4991936		4991936	4991936	4991936	
	Surcharge	1542 €		1542 €	1542 €	1542 €	
BK-UPS Emergency opening via UPS in a separate plastic control box, 1-phase, 230 V, IP 30	Optional / standard	Optional		Optional	Optional	Optional	
	Max. opening speed	1.5 m/s		1.5 m/s	2.0 m/s	2.0 m/s	
	Max. closing speed	0.8 m/s		0.8 m/s	0.8 m/s	0.8 m/s	
	Restriction						
	Article no.	4991935		4991935	4991935	4991935	
	Surcharge	1233 €		1233 €	1233 €	1233 €	
Emergency opening with counter weights/springs and pull cord	Optional / standard						
	Surcharge						
Emergency opening with counter weights/springs and operating current brake	Optional / standard						
	Article no.						
	Surcharge						
Emergency hand chain	Optional / standard			Optional	Optional	Optional	
	Article no.			159169	159169	159169	
	Surcharge			416 €	416 €	416 €	

* Emergency-off button only selectable in combination with main switch

Legend: A = 400 V
B = 230 V

K = plastic control box
S = steel control box

E = expandable

V 6020 TRL	V 10008	V 5030 MSL	V 4015 ISO L	V 2515 Food L	V 2012	V 3015 Clean	V 3009	V 6030 AteX
Standard		Standard	Standard	Standard	Standard	Standard	Optional	Standard
2.0 m/s		1.5 m/s	1.5 m/s	1.2 m/s	1.2 m/s	1.5 m/s	1.2 m/s	1.5 m/s
0.5 m/s		0.8 m/s	0.5 m/s	0.5 m/s	0.8 m/s	0.5 m/s	0.5 m/s	0.8 m/s
See size range on page 34		See size range on page 41		In stainless steel control box	With emergency-off button and main switch	In stainless steel control box		In steel control box
4991937		4991937	4991937	4991967	4991963	4991967	4991937	4991966
							910 €	
4991939		4991939	4991939	4991939	4991939	4991939	4991939	
125 €		125 €	125 €	Standard	Standard	Standard	125 €	Standard
4991939 + 157299		4991939 + 157299	4991939 + 157299	4991939 + 157299	4991939 + 157299	4991939 + 157299	4991939 + 157299	
247 €		247 €	247 €	Standard	Standard	Standard	247 €	Standard
Standard	Standard	Standard						
2.0 m/s	1.5 m/s	1.5 m/s						
0.5 m/s	0.4 m/s	0.8 m/s						
See size range on page 31	See size range on page 36	See size range on page 41						
4991970	4991970	4991970						
Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
4981286	4981286	4981286	4981286	4981286	4981286	4981286	4981286	4981286
200 €	200 €	200 €	200 €	200 €	200 €	200 €	200 €	200 €
4981638	4981638	4981638	4981638	4981638	4981638	4981638	4981638	4981638
758 €	758 €	758 €	758 €	758 €	758 €	758 €	758 €	758 €
							Standard AKE light	
							0.8 m/s	
							0.8 m/s	
							157 240	
							–	
							Optional	
							157417	
							409 €	
Standard		Standard	Standard			Standard	Standard	Standard
Optional		Optional	Optional	Optional		Optional		Optional
2.0 m/s		1.5 m/s	1.5 m/s	1.2 m/s		1.5 m/s		1.5 m/s
0.5 m/s		0.8 m/s	0.5 m/s	0.5 m/s		0.5 m/s		0.8 m/s
See size range on page 34				Stainless steel		Stainless steel		
4991936		4991936	4991936	4991936		4991936		4991936
1542 €		1542 €	1542 €	1542 €		1542 €		1542 €
Optional		Optional	Optional					Optional
2.0 m/s		1.5 m/s	1.5 m/s					1.5 m/s
0.8 m/s		0.8 m/s	0.8 m/s					0.8 m/s
4991935		4991935	4991935					
1233 €		1233 €	1233 €					
					Standard			
Optional	Standard	Optional	Optional					
159169		159169	159169					
416 €		416 €	416 €					

Notice:

V 2515 Food L – always in a stainless steel control box

Accessories for operators and controls

For flexible high-speed doors, spiral doors and high-speed sectional doors

Important:

The articles listed below are not identical to comparable articles in other Hörmann industrial price lists.
Other optional extras on request.

Buttons / switches		€
4982350	Surface-mounted push button	68
4982349	Surface-mounted Open / Emergency-off / Close push button	118
4982402	Mushroom button	125
4982563	Key switch APB 1-1 R with PHC, function Open-Close push-to-lock	121
4982564	Key switch surface-mounted, one-sided on/off push-to-lock contact with Open-Close push button	187
4982436	Key switch APB 1-2 with PHC, function Open-Close	144
4982565	Key switch UPB 1-2 T with PHC, function Open-Close	127
4982419	Radar button Magic Switch Chroma	215
4982566	Radar button HTR 1-24, 24 V	161
Pull switch		€
4982567	Pull switch with 15 m snap cable with 4 m cord, Ø 8 mm *	117
4982560	Pull switch with cable D8 L4000	140
4982568	Radio receiver pull switch (required 1 x per door system) *	273
4982569	Radio pull switch without battery with 4 m cable, Ø 8 mm *	204
4982339	Galvanized steel cantilever arm, 0.9 m	162
4982570	Galvanized steel cantilever arm, length adjustable up to 1.5 m	225
4982338	Galvanized steel cantilever arm, length adjustable up to 3 m	334
4982337	Stainless steel cantilever arm, length adjustable up to 3 m	501
4982571	Swivelling cantilever arm 3 m	471
Radio		€
4982572	HS 4 BS hand transmitter, 4-button hand transmitter, impulse, incl. battery, with chrome-plated zinc diecast caps, black (textured surface)	73
4982573	HSI 6 BS industrial hand transmitter for controlling up to 6 receivers	114
4982574	Hand transmitter HSI 15 BS	164
4982575	Hand transmitter holder incl. visor clip for BiSecur hand transmitters HS 1 BS and HS 4 BS	8,50
4982576	Hand transmitter holder for HSI 6 BS	8,50
4982577	Radio receiver HER 1, 868.3 MHz, 1 command (external)	141
4982578	Circuit board for receiver HET-E2 868-BS	160
Laser		€
4982579	Scanprotect, max. fitting height 6000 mm with 5 m connecting cable *	947
4982430	Scanprotect, max. fitting height 6000 mm with 10 m connecting cable *	947
Radar		€
4982580	Radar movement detector Comfort (interior functions: radar and presence; exterior functions: radar) Fitting height 3.5–6.0 m	594
4982581	Radar / movement detector Comfort Mini Fitting height 2.0–3.5 m	447
4982582	Multi remote control opening device	97
4982583	Radar movement detector MWD C with 5 m connecting cable	486
4982416	Radar movement detector MWD C with 10 m connecting cable	486
Holder for Scanprotect and radar		€
4982364	Holder for opening device, galvanized steel, 4 mm	95
Induction loop		€
4982434	Loop wire with connecting lead, 100 m	176
4982372	Induction detector TST SUVEK, 1-channel induction detector	663
4982373	Induction detector TST SUVEK, 2-channel induction detector	774
Photocell / light grille		€
4982425	Photocell with reflector, as a safety device *	411
4982394	Photocell WS/WE 27-2 F 450, heatable, complete with support bracket and reflector *	1212
4982584	Light grille ILG, 510 mm high, with 10 m cable *	652
4982392	Light grille ELG, 1490 mm high, crossed, beam distance 60 mm, cables 1 x 10 m and 1 x 15 m *	1355
4982391	Light grille, 2150 mm high, crossed, beam distance 60 mm, cables 1 x 10 m and 1 x 15 m *	1669

* Accessories **not** compatible with V 4008 SEL

Accessories for operators and controls

For flexible high-speed doors, spiral doors and high-speed sectional doors

Important:

The articles listed below are not identical to comparable articles in other Hörmann industrial price lists.
Other optional extras on request.

Lights		€
4982275	Software for optical signal transmitter (deviating programming)	146
4982585	Traffic light housing LED 230 V AC red / green	208
4982586	Traffic light housing LED 230 V AC red	124
4982587	Traffic light housing LED 230 V AC green	124
4982341	Orange flashing warning light 230 V AC	169
4982342	Red flashing warning light 230 V AC	169
4982428	Rotating warning light 230 V AC, red	438
4982427	Rotating warning light 230 V AC, yellow	438

Important:

The articles listed below are not identical to comparable articles in other Hörmann industrial price lists.
Other optional extras on request.

Special controls		€
4982561	Intermediate stop – with selection switch on the control box *	Each 303
4982562	Intermediate stop via person recognition * (Programming only! Opening device must be ordered separately)	Each 285
4982360	Lock controller * between two Hörmann high-speed doors	Per door 597
4982459	Interdependent locking * between two doors	Per door 534
4982441	Summer / winter switching (only in combination with lock controller)	Each 316
4982411	Cross traffic function *	On request
4982368	Main switch, 4-pin, 25 A H 225 in connecting lead	Each 155
4982588	External control element, including connection circuit board and surface-mounted frame, cable length 6.5 m *	Each 269
4982361	Gearbox heater integrated into the operator *	Surcharge 340
4982589	Selection switch on the control box for special programming (on request) *	Each 303
4982590	Key switch on the control box for special programming (on request) *	Each 322

Cable		€
4982383	Motor / control cable extension per metre	38

The V 4008 SEL and the V 2012 have a cable length of 3 m as standard; all other doors include a 6 m cable as standard.
Extensions to 10 m and 15 m are possible. An extension to 20 m has to be requested.

4982591	Snap cable 15 m	35
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Smart Control		€
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Web-based solution for remote support of high-speed doors via the Smart Control 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.

Annual net usage fees for SmartControl (no discount available)		
The mobile connection required for SmartControl is made using the Deutsche Telekom mobile network in the 2G and 3G mobile radio standard. Other mobile radio standards / networks or other mobile radio network operators cannot be used for SmartControl. The use of the required mobile radio connection requires that a contract is concluded for the provision of the mobile radio connection between the owner / operator and us, which is separate from the purchase of the SmartControl modules. In this respect, we merely provide the Deutsche Telekom service for use and accept no liability, in particular for disruptions or failures caused by the services of Deutsche Telekom. The minimum contract term is 5 years and the annual usage fee is charged annually in advance.		
4982592		74
	Circuit board for all 1-phase frequency converter controls	264
	Circuit board for all 3-phase frequency converter controls	Including
4982276	Antenna adhesive foot for signal amplification	35
4982593	Antenna magnetic foot for signal amplification	34
4982278	Antenna fitting bracket for signal amplification	93

* Accessories **not** compatible with V 4008 SEL and only for frequency converter controls

*2 Cable compatible with V 4008 SEL + V 2012

Optional extras

For flexible high-speed doors, spiral high-speed doors and high-speed sectional doors

Stainless steel / steel control boxes				€
4982594	Steel control box with lockable main switch for control BS 150 FUE-1 / AS 500 FUE-1, IP 65			500
4982595	Stainless steel control box with lockable main switch for control BS 150 FUE-1 / AS 500 FUE-1 / BS 150 FUE-1-USV, IP 65			743
Crash protection				€
4982420	Impact absorber profile, ø 159, 700 mm high		Each	486
4982596	Crash protection, pair, cylindrical, Ø 133 mm, 150 mm high		Each pair	105
4982347	Crash protection, UPVC, blue		Each pair	251
Combination frame				€
4982386	Combination frame for high-speed door – sectional door / rolling shutter, max. 300–550 mm (only in conjunction with door type V 6030 SEL without cladding)	Up to LDB ≤ 3000 mm and LDH ≤ 3000 mm		1370
		Up to LDB ≤ 4000 mm and LDH ≤ 4000 mm		1718
		Up to LDB ≤ 5000 mm and LDH ≤ 5000 mm		2069
		Up to LDB ≤ 5000 mm and LDH ≤ 6000 mm		2592
	If the combination frame is deeper than 400 mm and the door larger than 4000 × 4000 mm, gusset plates must be included in the calculation! If the combination frame is equal to and deeper than 500 mm, gusset plates must be included in the calculation!			Per m LDH × 215
Colour coating				€
4982355	Shaft and operator cover in RAL to choose; exceptions: HS and Iso Speed Cold doors		Per door	418
4982597	Barrel and operator cover in standard colours (RAL 5010 Gentian blue, RAL 7016 Anthracite grey, RAL 7024 Graphite grey, RAL 9002 Grey white and RAL 9010 Pure white)		Per door	222
4982598	For V 10008, HS 7030 PU 42 and HS 5012 PU 42 S: Shaft and operator cover in RAL to choose		Per door	675
4982599	For V 10008, HS 7030 PU 42 and HS 5012 PU 42 S: Barrel and operator cover in standard colours (RAL 5010 Gentian blue, RAL 7016 Anthracite grey, RAL 7024 Graphite grey, RAL 9002 Grey white and RAL 9010 Pure white)		Per door	502
4982354	Side elements in RAL to choose; exceptions: HS and Iso Speed Cold doors		Per door	619
4982600	Side elements in standard colours (RAL 5010 Gentian blue, RAL 7016 Anthracite grey, RAL 7024 Graphite grey, RAL 9002 Grey white and RAL 9010 Pure white)		Per door	380
4982601	For V 10008, Iso Speed Cold 100 and HS doors: Side elements in RAL to choose		Per door	785
4982602	For V 10008, Iso Speed Cold 100 and HS doors: Side elements in standard colours (RAL 5010 Gentian blue, RAL 7016 Anthracite grey, RAL 7024 Graphite grey, RAL 9002 Grey white and RAL 9010 Pure white)		Per door	661
4982603	Door sections colour-coated on both sides for HS doors Painting of the door sections for the HS 7030 PU 42 is only possible up to a clear width of 6800 mm.		Per m²	260
4982604	Door section coated on both sides for high-speed doors in standard colours (RAL 5010 Gentian blue, RAL 7016 Anthracite grey, RAL 7024 Graphite grey, RAL 9002 Grey white and RAL 9010 Pure white)		Per m²	217
4982605	Door sections colour-coated on both sides for Iso Speed Cold 100 doors		Per m²	260
4982606	Door section coated on both sides for Iso Speed Cold 100 in standard colours (RAL 5010 Gentian blue, RAL 7016 Anthracite grey, RAL 7024 Graphite grey, RAL 9002 Grey white and RAL 9010 Pure white)		Per m²	217
4982607	Door sections colour-coated in pearl-effect colours on both sides		+50% surcharge on price for colour coating on both sides	
4982608	Window profile		Per m²	260
4982609	Window profile in standard colours (RAL 5010 Gentian blue, RAL 7016 Anthracite grey, RAL 7024 Graphite grey, RAL 9002 Grey white and RAL 9010 Pure white)		Per m²	217
The following RAL colours are not available: 3007, 4006, 4007, 5004, 7021, 8022, 9004, 9005, 9011, 9017 and 9021. Fluorescent colours are also not available Dark colours should not be used for doors that are exposed to the sun, as possible section deflection may limit the door's function. Damages to the door resulting from this do not constitute a reason for complaint.				

Optional extras

For flexible high-speed doors, spiral high-speed doors and high-speed sectional doors

Special curtains for flexible internal doors				€
4982610	Curtain imprint, entire surface	Special curtain	Per m²	91
4982611	Curtain imprint with numbers, letters, logos, images, etc.	Size: printed image maximum 1000 × 1000 mm, curtain colour: standard curtain colours 1.5 mm (RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey)	Each	387
4982612	Curtain imprint with logo / lettering larger than 1000 × 1000 mm on request Logo: according to specifications Curtain: spring steel in curtain pockets Size: complete curtain Imprint: visible on the fitting side or opposite side Artwork Size: 1:10 or larger Resolution: 150dpi or higher Format for images: jpg, tif, pdf..... Format for fonts: transformed into maps (vectorised) Please ensure that the image is adapted to the clear door size: Opening dimensions LDB × LDH Visible area: LDH – 100 mm Printing area: approx. LDB + 110 × LDH + 100 mm Ambient conditions and mechanical abrasion may lead to changes in the printed image. This wear does not constitute grounds for a complaint.			
	Curtains in preferred colour (RAL 6024, RAL 7012, RAL 7016, RAL 7022, RAL 7024), curtain thickness: 1.5 mm; also possible for external doors.		Per door	89
	Curtains in special colours in RAL to choose, curtain thickness 0.9 mm, only for internal doors without tensioning mechanism		Per door	447
Box sections (galvanized steel, warehouse goods only)				€
4982424	6 m box sections 3 × 80 × 60 mm		Each	218
4982421	6 m box sections 3 × 120 × 60 mm		Each	273
4982613	6 m box sections 3 × 120 × 80 mm		Each	371
4982422	6 m box sections 3 × 160 × 80 mm		Each	409
4982423	6 m box sections 3 × 200 × 80 mm		Each	569
* Accessories compatible with V 4008 SEL				

Optional extras

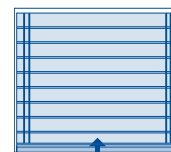
For V 3010

Colour coating (shaft cover and frame)			€
4842222	Standard colours: RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey		433
4842223	Optional colours: RAL 1015 Light ivory, RAL 5015 Sky blue, RAL 6026 Opal green, RAL 7016 Anthracite grey, RAL 9005 Jet black, RAL 9010 Pure white		767
Curtain imprint for flexible internal doors			€
	Curtain imprint (numbers, letters, logos, images etc.)		
	Curtain colour: to choose Size: printed image maximum 800 × 800 mm		
4842008	Artwork Size: 1:10 or larger Resolution: 150 dpi or higher Format for images: jpg, tif, pdf..... Format for fonts: transformed into maps (vectorised) Ambient conditions and mechanical abrasion may lead to changes in the printed image. This wear does not constitute grounds for a complaint.		511
4842224	Curtain imprint over the entire surface (printed on RAL 9005 Jet black)		1099
Curtain			
	5 standard colours: RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey.		
4842003	Curtains in optional colours: RAL 1015 Light ivory, RAL 5015 Sky blue, RAL 6026 Opal green, RAL 7016 Anthracite grey, RAL 9005 Jet black, RAL 9010 Pure white		302
Control			
4842225	AKE 370 M-I	Standard	
4842226	AKE 370 M (IP 65)	Optional	433
4842230	BK 370 M FUE-1 (IP 65)	Optional	1235
Cable (optional: longer cable sets available)			
Notice: The standard length for a cable is 6.5 m			
AKE 370 M			
4842307	Cable set AKE	10 m	130
4842308	Cable set AKE	15 m	193
BK 370 M FUE-1			
4842303	Cable set FU	10 m	130
4842310	Cable set FU	15 m	193
Buttons / switches			
4842017	2-way push button	Each	147
4842018	3-way push button	Each	164
4842019	Mushroom button	Each	70
4842020	Pull switch with cable	Each	107
4842021	Loop wire	Each	309
4842022	4-button hand transmitter	Each	107
4842023	Radio receiver	Each	190
4842024	Radar sensor	Each	490
4842025	Rotating warning light 230 V AC	Each	150
Emergency opening (only available with BK 370 M FUE-1)			
4842231	BK-UPS emergency opening via UPS in separate plastic control box, 1-phase, 230 V, Size (W × H × D) of plastic control box: 500 × 400 × 200 mm Size (W × H × D) of UPS housing: 400 × 300 × 180 mm		1219

Notes and sketches

F 4010 Cold

Insulated folding internal door as a cold store and deep freeze door



Door construction suitable for interior use.
Resistance to wind load in acc. with EN 12424 class 0.

Door travel speed (max.)

Inversion relay control

Open: Approx. 1.0 m/s

Close: Approx. 1.0 m/s

Door leaf

Insulated curtain made of textile-reinforced UPVC, 1.0 mm thick, without vision fields, even spacing. Insulation consisting of highly insulating 12 mm triple insulation material inserted in overlapping curtain pockets.

Silicone-coated, reinforced traction belts allow the curtain to unfold vertically. Lateral curtain sealing using a UPVC seal.

Standard colours, based on:

RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey.

Flexible bottom weather seal and door leaf stabilisation made of fibre glass composite material.

Thermal insulation value $U_p \leq 2.7 \text{ W/(m}^2\text{K)}$.
This door type is suitable for a temperature range from +15°C to -30°C.

For deviating temperatures please contact the factory.

Construction

Lateral flexible guide belts made of polyester material for easy re-insertion of the curtain in case of a crash.

Colour-coated side elements in standard colours, equipped with heated cords. Travel path monitoring via 4 photocells (max. monitoring height approx. 450 mm). Safety catch using patented safety belt system.

Shaft made of galvanized precision tube.

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch, emergency opening via emergency crank handle, motor power 1.8 W.

Connecting voltage 400 V or 230 V.

50 Hz, protection category IP 65, operator side on right or left.

Control

Control AK E in plastic control box, IP 54, 3-phase, 400 V,
Size (W x H x D) = 180 x 320 x 100 mm,
inversion relay control,
Electronic travel limit setting,
Open-Stop-Close membrane push button,
Emergency-off button,
Automatic timer and display,
connection cable with CEE plug,
2 volt-free contacts available.

Optional:

Control AK 500 FUE-1 in plastic control box, IP 65, 3-phase, 400 V,
Size (W x H x D) = 230 x 460 x 200 mm,
Frequency converter,
Electronic travel limit setting,
Open-Stop-Close membrane push button,
Main switch, emergency-off button,
Automatic timer and display,
connection cable with CEE plug,
3 volt-free contacts available.

Optional:

Control AK E-750 M in plastic control box, IP 65, 3-phase, 400 V or 3-phase, 230 V
Size (W x H x D) = 355 x 400 x 200 mm,
inversion relay control,
Electronic travel limit setting,
Open-Stop-Close membrane push button,
Emergency-off button,
Automatic timer and display,
connection cable with CEE plug,
2 volt-free contacts available.

Notice:

The accessories for F8005 / F14005 operators and controls apply for this control, see page 68.

		2250	2500	2750	3000	3250	3500	3750	4000
Clear height	5500	17086	17244	17529	17807	18096	18375	18628	18913
	5250	16881	17036	17288	17536	17792	18040	18271	18523
	5000	16575	16780	16993	17206	17425	17637	17842	18057
	4750	16071	16254	16436	16619	16802	16984	17630	18150
	4500	15780	15647	16004	16226	16529	16634	17369	17685
	4250	15752	15506	15794	16048	16334	16431	17090	17359
	4000	15104	15369	15624	15883	16136	16228	16813	17061
	3750	14983	15238	15480	15728	15968	16046	16559	16801
	3500	14347	14579	14806	15037	15266	15485	15729	15950
	3250	13931	14150	14368	14588	14803	15022	15710	15929
	3000	13421	13630	13833	14038	14244	14450	14658	14856
	2750	13246	13443	13643	13833	14030	14226	14643	14844
2500	12711	13218	13408	13584	13771	13952	14135	14345	
2250	12541	13040	13210	13387	13554	13720	14115	14325	
		2250	2500	2750	3000	3250	3500	3750	4000
		Clear width							

Notice:

Side elements, motor cover and shaft cover in stainless steel = basic door price + 20% surcharge

Other curtain colours

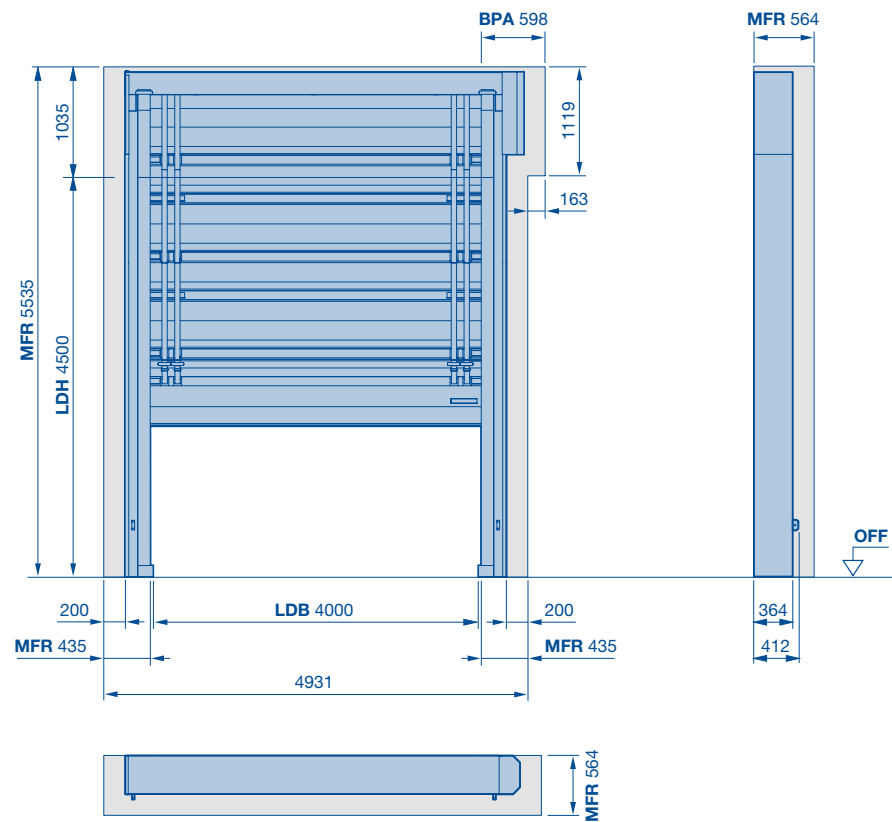
See from page 68

Accessories for operators and controls

See from page 66

F 4010 Cold

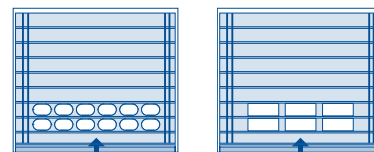
Fitting clearances



- BPA Space required for fitting and dismantling the operator
- LDB Clear passage width
- LDH Clear passage height
- MFR Fitting clearance
- OFF Finished floor level

F 6010

Folding internal and external door



Self-supporting door construction, suitable for interior and exterior use.
Resistance to wind load in acc. with EN 12424 class 3 with steel wind reinforcement laths as standard. Optionally up to class 4.

Door travel speed (max.)

Inversion relay control or frequency converter control

Open: Approx. 1.0 m/s
Close: Approx. 1.0 m/s

Door leaf

Curtain made of textile-reinforced UPVC, 1.0 mm thick, optionally with square (700 x 280 mm) or oval vision fields (370 x 280 mm).
Low-noise winding due to steel wind reinforcement laths in door curtain.

This door type is suitable for application in a temperature range from -5°C to +40°C. For deviating temperatures please contact the factory!
Standard colours, based on:
RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey.

Construction

Lateral flexible guide belts made of polyester material for easy re-insertion of the curtain in case of a crash. Safety light grille integrated in the side elements in the closing zone (max. monitoring height approx. 2500 mm).
Bottom door closure made of UPVC material with inserted wind reinforcement laths, steel round profiles and door leaf stabilisation made of steel round profiles.
Shaft made of galvanized precision tube.

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch, emergency opening via emergency crank handle, motor power 1.8 W.
Connecting voltage 400 V or 230 V, 50 Hz, protection category IP 65, operator side on right or left.

Control

Standard:

Control AK E in plastic control box, IP 54, 3-phase, 400 V, size (W x H x D) = 180 x 320 x 100 mm, inversion relay, electronic travel limit setting, Open-Stop-Close membrane push button, emergency-off button, automatic timer and display, connection cable with CEE plug, 2 volt-free contacts available.

Optional:

Control AK 500 FUE-1 in plastic control box, IP 54, 3-phase, 400 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

Optional:

Control AK E 2500 M-I
Integrated in the frame, IP 20, 3-phase, 400 V or 3-phase, 230 V, inversion relay control, electronic travel limit setting, Open-Stop-Close membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

Notice:

The accessories for F8005 / F14005 operators and controls apply for this control, see page 68.

		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
Clear height	6000	9533	9638	9853	10028	10196	10376	10544	10680	10851	11029	11203	11374	11551	11726	11897	12073	12248
	5750	9431	9530	9729	9892	10047	10215	10370	10501	10662	10823	10983	11146	11306	11467	11624	11786	11947
	5500	9326	9426	9607	9754	9897	10051	10194	10317	10466	10614	10764	10910	11057	11204	11355	11503	11649
	5250	9225	9321	9484	9617	9750	9887	10019	10138	10273	10407	10543	10676	10813	10947	11082	11217	11352
	5000	9121	9217	9357	9479	9599	9724	9845	9957	10079	10202	10324	10443	10565	10688	10809	10932	11052
	4750	9019	9111	9233	9342	9448	9559	9668	9775	9888	9996	10103	10213	10320	10428	10537	10646	10755
	4500	8914	9004	9110	9204	9300	9396	9492	9597	9691	9786	9885	9978	10072	10171	10264	10360	10457
	4250	8816	8903	9003	9096	9194	9284	9381	9484	9570	9676	9767	9858	9950	10043	10134	10226	10319
	4000	8712	8798	8901	8988	9085	9173	9267	9370	9451	9557	9644	9736	9829	9920	10012	10104	10199
	3750	8622	8709	8808	8892	8984	9074	9163	9262	9345	9443	9534	9623	9714	9802	9896	9984	10075
	3500	8064	8168	8289	8399	8508	8621	8727	9153	9241	9334	9423	9510	9599	9686	9776	9862	9952
	3250	7709	7806	7914	8018	8130	8236	8345	9045	9129	9223	9311	9394	9481	9567	9653	9739	9822
	3000	7588	7683	7787	7889	7994	8089	8192	8944	9031	9121	9203	9327	9413	9500	9585	9668	9750
	2750	7486	7571	7671	7772	7867	7966	8064	8844	8923	9011	9091	9209	9290	9380	9468	9560	9654
	2500	7333	7417	7512	7606	7699	7793	7884	8743	8820	8906	8985	9100	9180	9262	9341	9422	9503
	2250	7224	7308	7409	7491	7580	7673	7754	8635	8712	8797	8870	8952	9032	9110	9189	9270	9350
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
		Clear width																

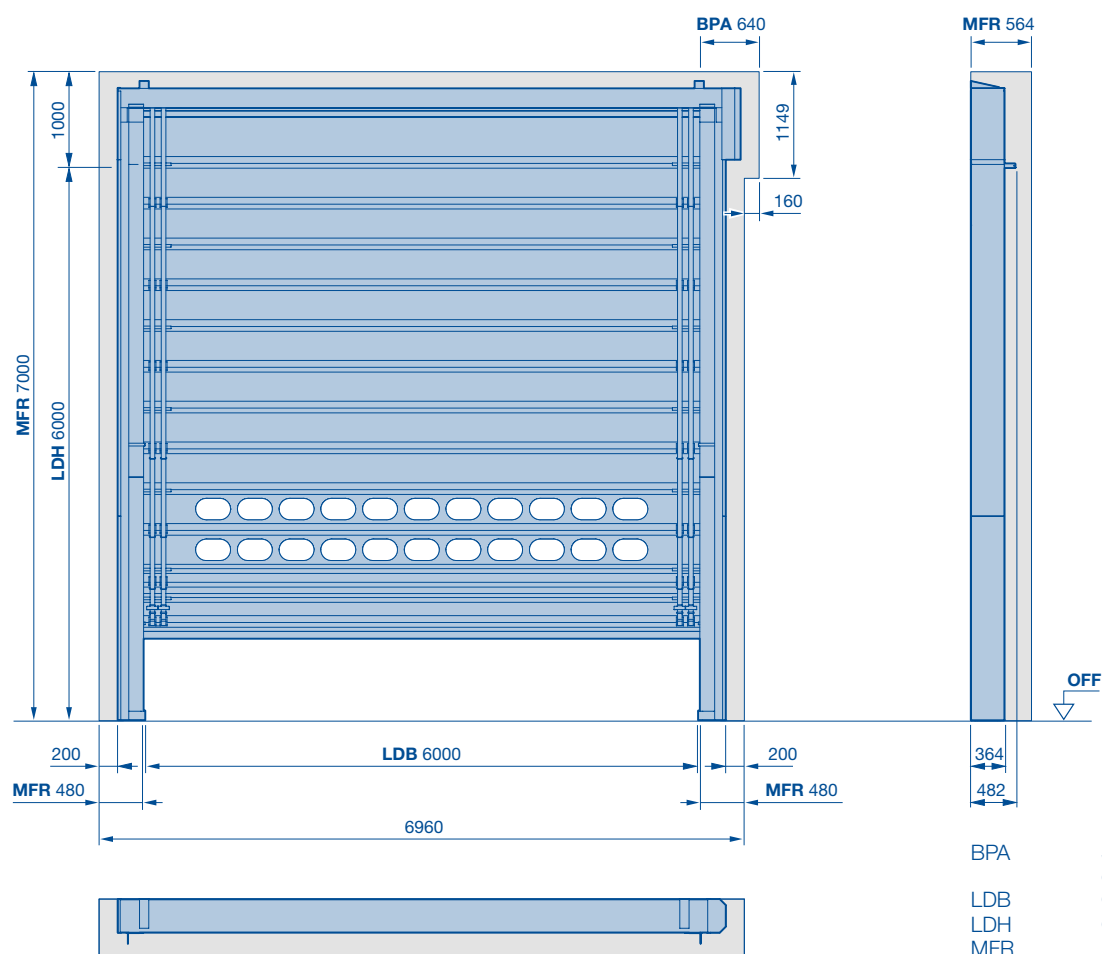
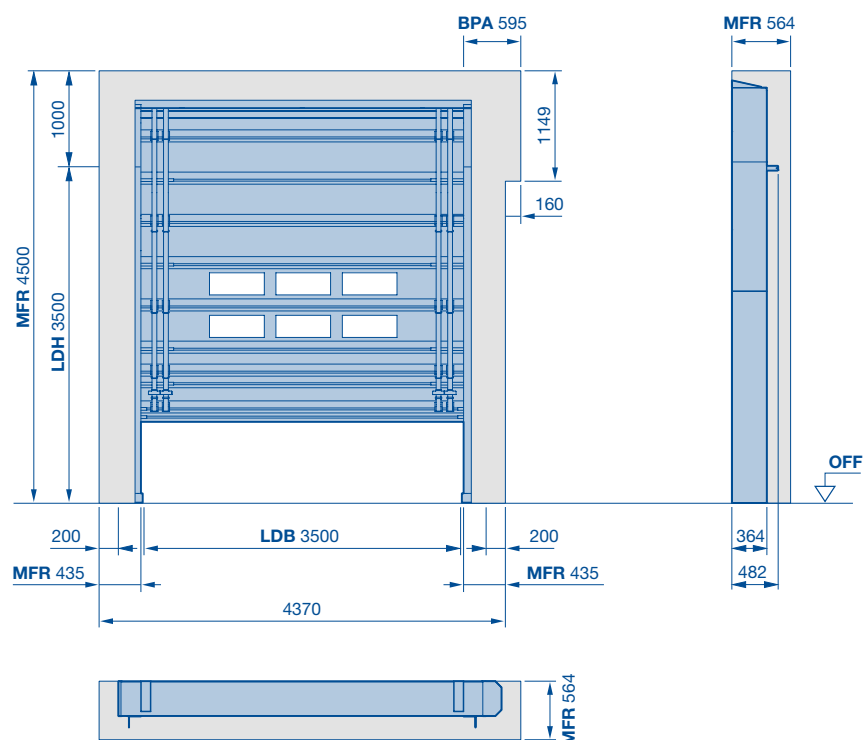
Notice:

Side elements, motor cover and shaft cover in stainless steel = basic door price + 20% surcharge

Other curtain colours		See from page 68
Optional extras		€
Light section with rectangular windows up to 4000 mm clear door width	Per row	229
Light section with rectangular windows from 4000 mm, up to 6000 mm clear door width	Per row	309
Light section with oval windows up to 4000 mm clear door width	Per row	251
Light section with oval windows from 4000 mm, up to 6000 mm clear door width	Per row	332
Accessories for operators and controls		See from page 66

F 6010

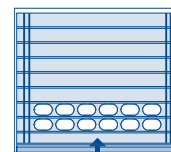
Fitting clearances



BPA	Space required for fitting and dismantling the operator
LDB	Clear passage width
LDH	Clear passage height
MFR	Fitting clearance
OFF	Finished floor level

F 6010 Iso

Folding internal and external door with triple insulation material



Self-supporting door construction, suitable for interior and exterior use.
Resistance to wind load in acc. with EN 12424 class 3 with steel wind reinforcement laths as standard. Optionally up to class 4.

Door travel speed (max.)

Inversion relay control or frequency converter control

Open: Approx. 1.0 m/s
Close: Approx. 1.0 m/s

Door leaf

Curtain made of textile-reinforced UPVC, 1.0 mm thick, optionally with oval vision fields (370 x 280 mm), even spacing. **Insulation consisting of highly insulating 12 mm triple insulation material inserted in curtain pockets.**

Low-noise winding due to steel wind reinforcement laths in door curtain.

This door type is suitable for a temperature range from -5°C to +40°C, optionally: from -30 to +40°C. For deviating temperatures please contact the factory!

Standard colours, based on:

RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey.

Attention!

**F 6010 ISO is not a cold door.
The frames are not heated.**

Construction

Lateral flexible guide belts made of polyester material for easy re-insertion of the curtain in case of a crash. Safety light grille integrated in the side elements in the closing zone (max. monitoring height approx. 2500 mm).

Bottom door closure made of UPVC material with inserted wind reinforcement laths, steel round profiles and door leaf stabilisation made of steel round profiles.

Shaft made of galvanized precision tube.

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch, emergency opening via emergency crank handle, motor power 1.8 W.

Connecting voltage 400 V or 230 V, 50 Hz, protection category IP 65, operator side on right or left.

Control

Standard:

Control AK E in plastic control box, IP 54, 3-phase, 400 V, size (W x H x D) = 180 x 320 x 100 mm, inversion relay, electronic travel limit setting, Open-Stop-Close membrane push button, emergency-off button, automatic timer and display, connection cable with CEE plug, 2 volt-free contacts available.

Optional:

Control AK E 500 FUE-1 in plastic control box, IP 54, 3-phase, 400 V, size (W x H x D) = 230 x 460 x 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

Optional:

Control AK E 2500 M-I
Integrated in the frame, IP 20, 3-phase, 400 V or 3-phase, 230 V, inversion relay control, electronic travel limit setting, Open-Stop-Close membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free contacts available.

Notice:

The accessories for F8005 / F14005 operators and controls apply for this control, see page 68.

		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
Clear height	6000	11606	11708	11998	12246	12485	12737	12979	13187	13432	13680	13926	14171	14419	14666	14913	15159	15407
	5750	11451	11553	11825	12058	12285	12525	12753	12957	13189	13423	13657	13892	14124	14360	14590	14823	15056
	5500	11267	11366	11618	11838	12055	12281	12497	12693	12914	13132	13356	13574	13795	14016	14238	14458	14676
	5250	11086	11180	11416	11622	11828	12036	12241	12433	12642	12848	13057	13262	13471	13676	13886	14093	14300
	5000	10926	11022	11233	11427	11621	11818	12011	12194	12390	12585	12779	12971	13167	13362	13556	13752	13944
	4750	10748	10838	11033	11214	11395	11577	11758	11938	12122	12304	12484	12666	12846	13027	13209	13389	13570
	4500	10591	10678	10856	11025	11192	11360	11530	11706	11874	12040	12211	12379	12546	12715	12883	13049	13219
	4250	10426	10514	10687	10851	11025	11185	11353	11531	11689	11868	12031	12194	12360	12525	12687	12853	13017
	4000	10243	10327	10503	10663	10831	10993	11159	11333	11489	11666	11826	11990	12157	12318	12483	12650	12814
	3750	10097	10181	10351	10511	10675	10837	10999	11169	11325	11496	11658	11758	11984	12147	12311	12473	12636
	3500	9474	9577	9771	9952	10137	10322	10498	10698	11158	11324	11485	11707	11807	11966	12129	12287	12449
	3250	9056	9153	9334	9510	9694	9873	10054	10273	10983	11151	11310	11464	11624	11784	11941	12102	12258
	3000	8871	8965	9143	9318	9494	9664	9838	10065	10821	10986	11139	11335	11495	11653	11810	11966	12122
	2750	8707	8792	8963	9139	9305	9477	9648	10501	10653	10809	10963	11154	11309	11467	11631	11795	11962
	2500	8496	8580	8749	8914	9080	9246	9411	10343	10492	10650	10800	10989	11140	11295	11446	11602	11754
	2250	8325	8409	8580	8737	8898	9064	9217	10172	10320	10478	10625	10778	10930	11079	11233	11384	11537
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
		Clear width																

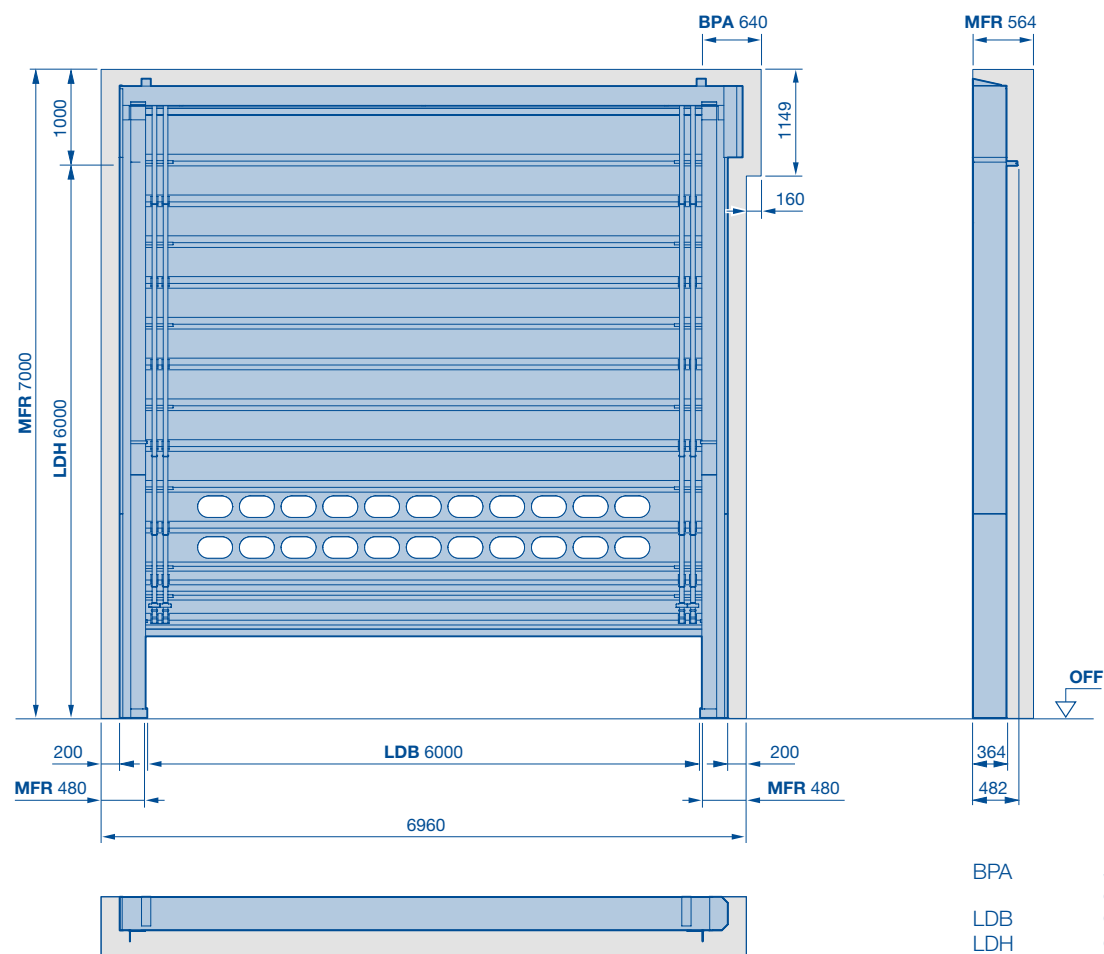
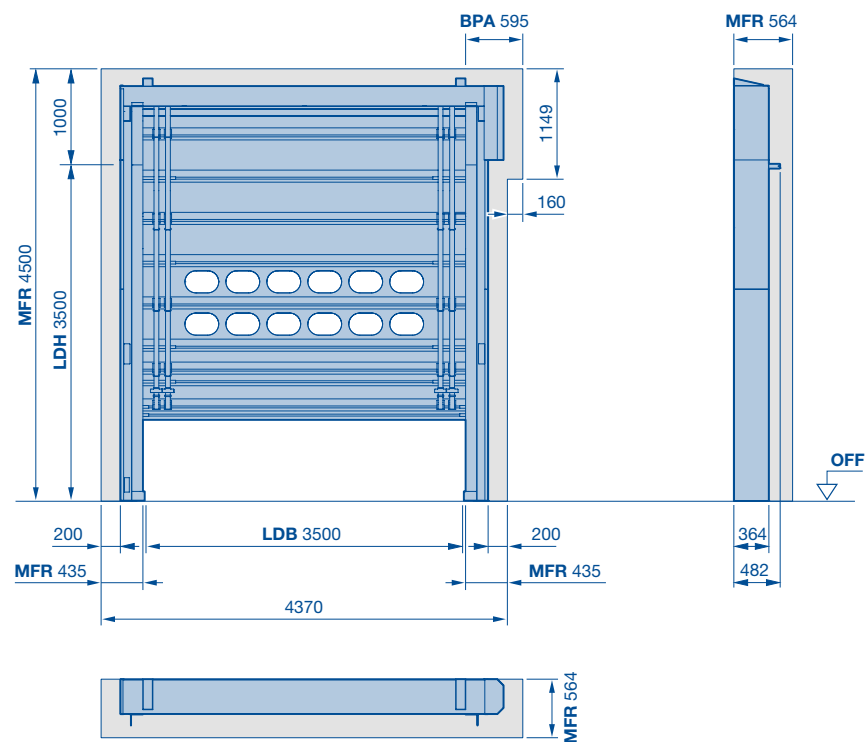
Notice:

Side elements, motor cover and shaft cover in stainless steel = basic door price + 20% surcharge

Other curtain colours		See from page 68
Optional extras		€
Light section with oval windows up to 4000 mm clear door width	Per row	526
Light section with oval windows from 4000 mm, up to 6000 mm clear door width	Per row	675
Accessories for operators and controls		See from page 66

F 6010 Iso

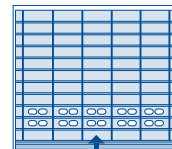
Fitting clearances



- BPA Space required for fitting and dismantling the operator
- LDB Clear passage width
- LDH Clear passage height
- MFR Fitting clearance
- OFF Finished floor level

F 8005

Folding internal and external door for especially large openings



Non-self-supporting door construction, for interior and exterior use.

Resistance to wind load in acc. with EN 12424, class 2–3 depending on the door size with steel wind reinforcement laths as standard. Optionally up to class 4: For details please contact your Hörmann sales consultant.

Door travel speed (max.)

Inversion relay control

Open: Approx. 0.5 m/s
Close: Approx. 0.5 m/s

Door leaf

Curtain made of textile-reinforced UPVC, 1.0 mm thick, optionally with oval vision fields (370 × 280 mm). Vision field made of transparent UPVC. Wind reinforcement with steel wind reinforcement laths inserted into curtain pockets.

Low-noise winding due to wind lock in door curtain.

This door type is suitable for application in a temperature range from –5°C to +40°C. For deviating temperatures please contact the factory!

Standard colours, based on:

RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey.

Construction

Non-self-supporting door construction with statically required fixing points fitted to the building structure. Flexible lateral guide belts in the frame made of polyester material. Travel path monitoring via 4 photocells (max. monitoring height approx. 450 mm). Safety catch via electromagnetic brake. Shaft made of galvanized precision tube.

Operator

2 operator motors with electromagnetic brake, electromechanical limit switch, motor output 2.2 kW/unit or 3 kW/unit depending on door size. Connecting voltage 400 V or 230 V, 50 Hz, protection category IP 55, front installation.

Control

AKE 700 M in plastic control box, IP 65, 3-phase, 400 V or 230 V according to customer requirements, size (W × H × D) = 400 × 500 × 200 mm, inversion relay, "Open-Stop-Close" membrane push button, emergency-off button, automatic timer and display, 2 volt-free contacts available.

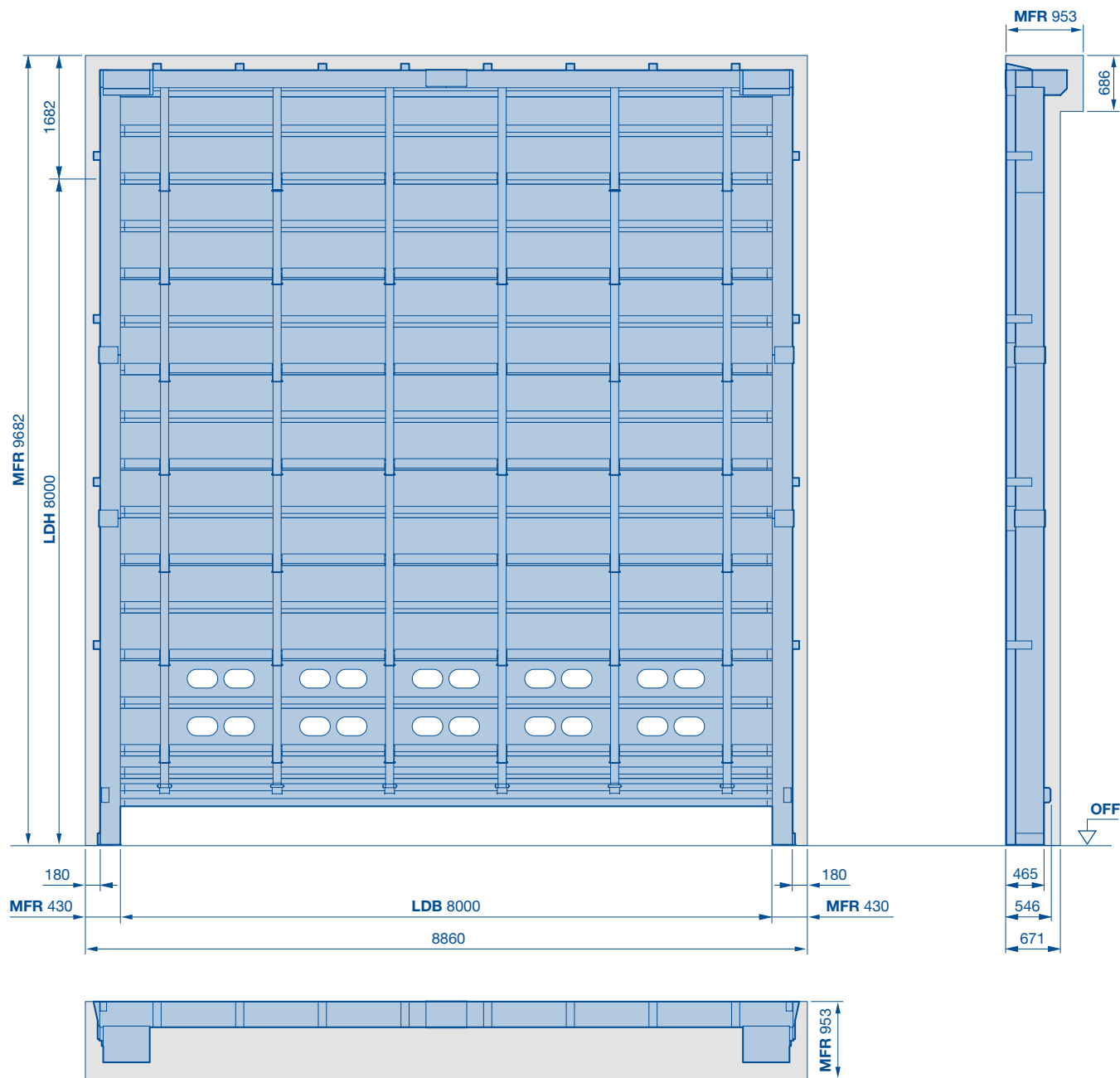
	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000
10000	23266	24358	25120	26828	27305	28336	29416				
9500	22616	23659	24464	26143	26583	27437	28706				
9000	21968	22957	23806	25458	25861	26738	27993	28407			
8500	21318	22257	23129	24736	25139	26035	27272	27893	28072		
8000	20687	21582	22085	23603	24015	24887	26066	26810	27212	27489	27854
7500	19889	20925	21466	22944	23374	24251	25405	26175	26606	27081	27243
7000	19277	20287	20848	22302	22759	23633	24769	25559	26004	26209	26300
6500	19021	19677	20265	21686	22176	23044	24146	24959	25205	25457	25496
6000	See F 6010 on page 56							22595	24061	24282	24497
5500								22128	22895	23232	23864
5000								21681	22381	22763	23200
4500								21255	21890	22112	22585
4000								20848	21469	21729	21989
3500								20690	21303	21556	21768
3000								20548	21154	21406	21534

Wind class 2	
Wind class 3	Not available
Wind class 4	On request

Optional extras			€
Light section with oval windows up to 4000 mm clear door width	Per row		252
Light section with oval windows from 4000 mm, up to 6000 mm clear door width	Per row		332
Light section with oval windows from 6000 mm, up to 8000 mm clear door width	Per row		424
Accessories for operators and controls			See from page 66

F 8005

Fitting clearances

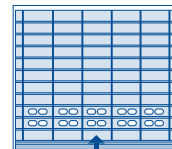


BPA
LDB
LDH
MFR
OFF

Space required for fitting and dismantling the operator
Clear passage width
Clear passage height
Fitting clearance
Finished floor level

F 14005

Folding internal and external door for especially large openings



Non-self-supporting door construction, for interior and exterior use.

Resistance to wind load in acc. with EN 12424, class 4–2 depending on the door size with steel wind reinforcement laths as standard. For details please contact your Hörmann sales consultant.

Door travel speed (max.)

Inversion relay control

Door leaf

Curtain made of textile-reinforced UPVC, 1.0 mm thick, optionally with oval vision fields (370 × 280 mm). Vision field made of transparent UPVC. Wind reinforcement with steel wind reinforcement laths inserted into curtain pockets.

Low-noise winding due to wind lock in door curtain.

This door type is suitable for application in a temperature range from –5°C to +40°C. For deviating temperatures please contact the factory! Standard colours, based on: RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey.

Open: Approx. 0.5 m/s
Close: Approx. 0.5 m/s

		3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500
Clear height	10000												
	9500												
	9000												
	8500				52342	53791	52282	53041	53474	55698	56180		
	8000	See F 8005 on page 58							53040	55259	55736	56963	
	7500								51932	54128	54583	55789	
	7000								49721	51894	52325	53508	53940
	6500	See F 6010 on page 56							48614	50763	51172	52331	52741
	6000								44073	46195	46579	47711	48095
	5500								42715	44814	45175	46285	46646
	5000								42477	44572	44929	46034	46390
	4500								41244	43319	43652	44732	45064
	4000								40138	42188	42499	43555	43866
	3500								39789	41820	42126	43179	43484
	3000								38670	40690	40971	42005	42288
		3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500
		Clear width											

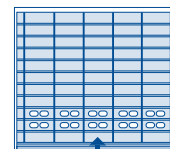
Wind class 2	
Wind class 3	Not available
Wind class 4	On request

All other sizes on request. Maximum door size: 70 m² (maximum LDB 14000 mm, max. LDH 10000 mm)

Optional extras		€
Light section with oval windows up to 4000 mm clear door width	Per row	252
Light section with oval windows from 4000 mm, up to 6000 mm clear door width	Per row	332
Light section with oval windows from 6000 mm, up to 8000 mm clear door width	Per row	424
Accessories for operators and controls		See from page 66

F 14005

Folding external door for especially large openings



Construction

Non-self-supporting door construction with statically required fixing points fitted to the building structure. Flexible lateral guide belts in the frame made of polyester material. Travel path monitoring via closing edge safety device (max. monitoring height approx. 450 mm). Safety catch via electromagnetic brake. Shaft made of galvanized precision tube.

Operator

2 operator motors with electromagnetic brake, electromechanical limit switch, motor output 2.2 kW/unit or 3 kW/unit depending on door size. Connecting voltage 400 V or 230 V, 50 Hz, protection category IP 55, front installation.

Control

AKE 700 M in plastic control box, IP 65, 3-phase, 400 V or 230 V according to customer requirements, size (W x H x D) = 400 x 500 x 200 mm, inversion relay, "Open-Stop-Close" membrane push button, emergency-off button, automatic timer and display, 2 volt-free contacts available.

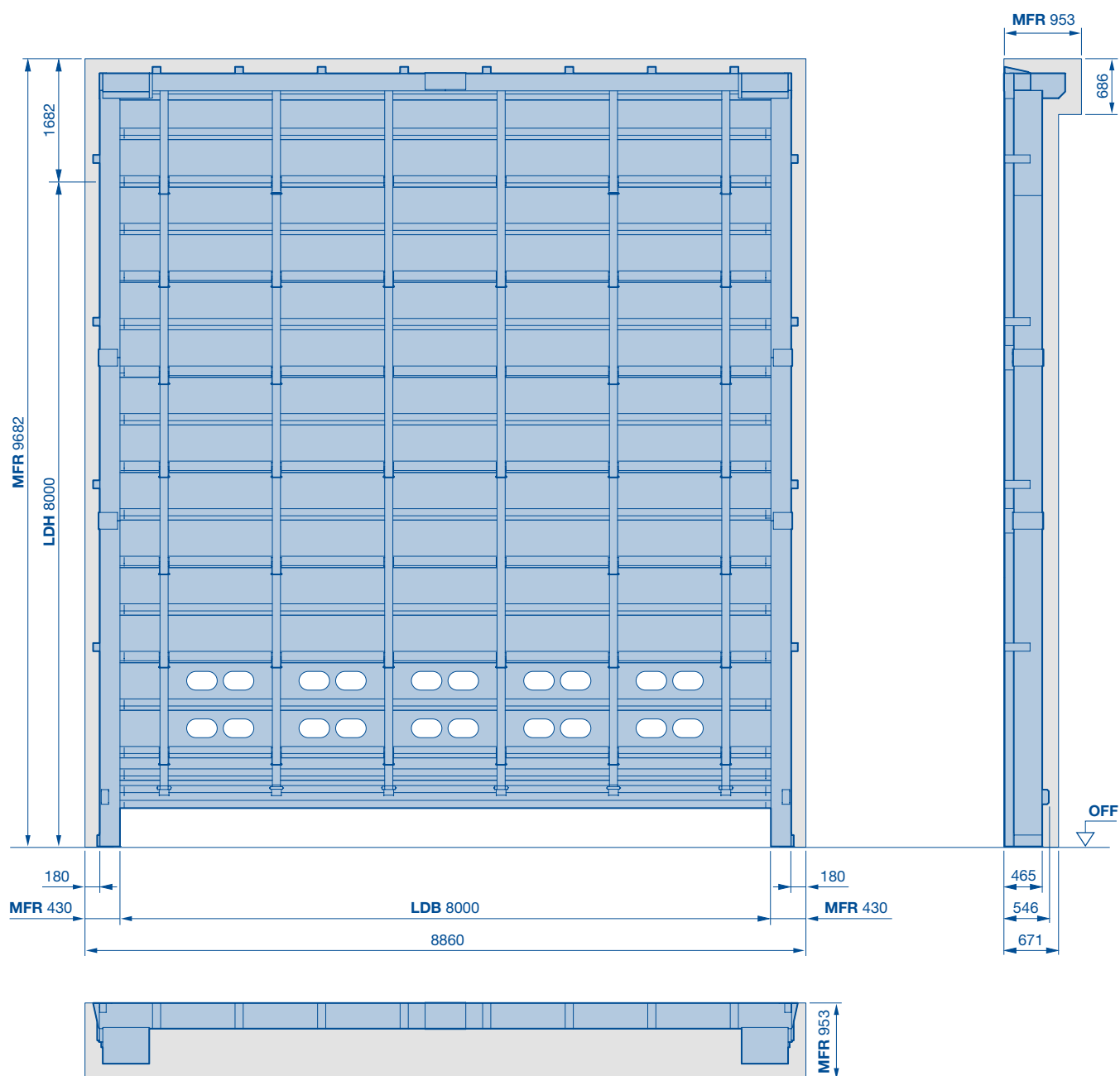
	9000	9500	10000	10500	11000	11500	12000	12500	13000	13500	14000	
												10000
												9500
												9000
												8500
												8000
												7500
												7000
												6500
	53151											6000
	48478	48863	49452									5500
	47006	47367	47914	48157								5000
	46744	47102	47645	48001	48356	48711	49068					4500
	45397	45731	46235	46568	46900	47233	47566	49190	49522			4000
	44177	44487	44948	45260	45570	45880	46189	47790	48099	48559	48869	3500
	43790	44095	44553	44857	45164	45468	45774	47368	47675	48128	48433	3000
	42567	42849	43268	43550	43833	44115	44397	45968	46250	46683	46966	
	9000	9500	10000	10500	11000	11500	12000	12500	13000	13500	14000	
	Clear width											

Wind class 2	
Wind class 3	Not available
Wind class 4	On request

Optional extras		€
Light section with oval windows up to 8000 mm, up to 10000 mm clear door width	Per row	503
Light section with oval windows up to 10000 mm, up to 12000 mm clear door width	Per row	600
Light section with oval windows up to 12000 mm, up to 14000 mm clear door width	Per row	700
Accessories for operators and controls		See from page 66

F 14005

Fitting clearances



BPA	Space required for fitting and dismantling the operator
LDB	Clear passage width
LDH	Clear passage height
MFR	Fitting clearance
OFF	Finished floor level

Notes and sketches

Accessories for operators and controls for doors F 4010 Cold, F 6010 and F 6010 Iso

Important:

The articles listed below are not identical to comparable articles in other Hörmann industrial price lists.
Other optional extras on request.

Buttons/switches		€
159763	Surface-mounted push button	67
159749	Surface-mounted Open / Emergency-off / Close push button	117
159764	Mushroom button	124
306287	Key switch surface-mounted with profile half cylinder, function 0/1 push-to-lock	120
306293	Key switch surface-mounted, one-sided on/off push-to-lock contact with Open-Close push button	186
159078	Key switch surface-mounted with profile half cylinder, function Open-Close	143
306284	Key switch recessed with profile half cylinder, function Open-Close	126
4991302	Magic Switch radar button	168
437393	Radar button HTR 1-230, 24 V	172
Pull switch		€
159765	Pull switch with plastic cable 4 m with eye and hook, transparent	139
158996	Galvanized steel cantilever arm, 0.9 m	160
306431	Galvanized steel cantilever arm, length adjustable up to 1.5 m	225
159681	Galvanized steel cantilever arm, length adjustable up to 3 m	332
159055	Stainless steel cantilever arm, length adjustable up to 3 m	500
4991716	Swivelling cantilever arm 3 m	470
Radio		€
4511801	HSI 6 BS industrial hand transmitter for controlling up to 6 receivers	114
437383	Hand transmitter holder for hand transmitter HSI 6 BS	8,40
4511724	HS 4 BS hand transmitter, 4-button hand transmitter, impulse, incl. battery, with chrome-plated zinc diecast caps, black (textured surface)	74
436698	Hand transmitter holder incl. visor clip for BiSecur hand transmitters HS 1 BS and HS 4 BS	8,40
4980115	Radio antenna for signal amplification, 868.3 MHz	110
436724	Radio receiver HER 1, 868.3 MHz, 1 command (external)	141
4511819	Circuit board for receiver HET-E2 868-BS	160
4511774	HSI 15 868-BS, vers.: SW-Eu	164
437384	Hand transmitter holder for HSI 15	11,80
Radar		€
4990602	Radar movement detector Comfort (interior functions: radar and presence; exterior functions: radar) Fitting height 3.5 – 6.0 m	593
4991303	Radar / movement detector Comfort Mini Fitting height 2.0 – 3.5 m	446
306428	Remote control Comfort	97
159027	Radar movement detector MWD	445
Radar holder		€
159059	Holder for opening device, galvanized steel, 4 mm	94
Induction loop		€
159069	Loop wire with connecting lead, 100 m	175
157295	Induction detector TST SUVEK, 1-channel induction detector	662
157296	Induction detector TST SUVEK, 2-channel induction detector	772
Lights		€
159778	Software for optical signal transmitter (deviating programming)	145
637537	Traffic light housing LED 230 V AC red/green	215
637534	Traffic light housing LED 230 V AC red	123
637535	Traffic light housing LED 230 V AC green	123
159066	Orange flashing warning light 230 V AC	168
159782	Red flashing warning light 230 V AC	168
159783	Rotating warning light 230 V AC, red	437
159067	Rotating warning light 230 V AC, yellow	437

Accessories for operators and controls for doors F 4010 Cold, F 6010, F 6010 Iso

Important:

The articles listed below are not identical to comparable articles in other Hörmann industrial price lists.
Other optional extras on request.

Special controls			€
159970	Lock controller between two Hörmann high-speed doors	Per door	595
159048	Interdependent locking between two doors	Per door	534
159072	Main switch, 4-pin, 25 A H 225 in the connecting lead (only relay control)	Each	154
Cable extension for relay control units for F 4010 Cold, F 6010 and F 6010 Iso			€
4842026	Motor / control cable extension to 10 m	Each	129
4842027	Motor / control cable extension to 15 m	Each	289
Cable extension for frequency converter controls for F 4010 Cold, F 6010 and F 6010 Iso			€
4842028	Motor / control cable extension to 10 m		129
4842029	Motor / control cable extension to 15 m		289
4842030	Motor / control cable extension to 20 m		447
SmartControl (only for F 4010 Cold, F 6010 as well as F 6010 Iso and only for frequency converter control)			€
Web-based solution for remote support of high-speed doors via the Smart Control 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.			
5 years of data flat rate		F 6010 / F 6010 Iso	Including
		All other doors	1060
Expected costs after 5 years		Per year	213
4981200	Antenna adhesive foot for signal amplification		34
4981201	Antenna magnetic foot for signal amplification		33
4981202	Antenna fitting bracket for signal amplification		92

Accessories for operators and controls for doors F 4010 Cold, F 6010, F 6010 Iso and F 14005

Colour coating				€
	Standard colours for painted frames RAL 1018 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey		No surcharge	
4842004	Optional colours for painted frames RAL 1015 Light ivory, RAL 5015 Sky blue, RAL 6026 Opal green, RAL 7016 Anthracite grey, RAL 9005 Jet black, RAL 9010 Pure white	Per door		310
Dark colours should not be used for doors that are exposed to the sun, as possible section deflection may limit the door's function. Damages to the door resulting from this do not constitute a reason for complaint.				
Special curtains for flexible high-speed doors				€
	Curtain imprint	Basic price per door		544
	According to specification (numbers, letters, logos, images, etc.) Curtain colour: to choose Size: printed image maximum 800 x 800 mm Artwork Size: 1:10 or larger Resolution: 150 dpi or higher Format for images: jpg, tif, pdf, Format for fonts: transformed into maps (vectorised) Ambient conditions and mechanical abrasion may lead to changes in the printed image. This wear does not constitute grounds for a complaint.			
4842008				
4842003	Curtains in optional colours: RAL 1015 Light ivory, RAL 5015 Sky blue, RAL 6026 Opal green, RAL 7016 Anthracite grey, RAL 9005 Jet black, RAL 9010 Pure white	Per door		322
Motor and connection options F 6010 and F 6010 Iso				€
4842039	Frequency converter control option: Control AK 500 FUE-1 as well as motor S3-1-1.5-85-17-40 DES NHK	Each		2490
4842234	Integrated control option: Control AKE 2500 M-I as well as motor S3-2.5-3300-1-24-M	Surcharge		1455
Motor and connection options F 6010 Iso (heating system option)				
4842057	Heating system option for the motor with control AK 500 FUE-1: Motor S3-1-1.5-85-17-40 DES NHK *	Surcharge for motor		215
4842058	Heating system option for the motor with control AKE: Motor S3-1.8-90-30-40-DES NHKK *	Surcharge for motor		215
Motor and connection options F 4010 Cold				€
4842311	Control AK 500 FUE-1 as well as motor S3-1-1.5-85-17-40-DES NHK	Each		2633
4842233	Control AK E 750 M (IP 65) as well as motor S3-1.1-3000-1-24-M	Each		1642
Additional optional extras for F 14005, F 8005 and the controls AK E-750 M and AK E 2500 M-I				€
4842017	2-way push button	Each		157
4842018	3-way push button	Each		175
4842019	Mushroom button	Each		75
4842020	Pull switch with cable	Each		114
4842021	Loop wire	Each		329
4842022	4-button hand transmitter	Each		114
4842023	Radio receiver	Each		202
4842024	Radar sensor	Each		522
4842025	Rotating warning light 230 V AC	Each		160

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.

