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High-speed doors Double-action doors

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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 with counter weights.

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

Shaft cover made of polycarbonate sections (standard)

Operator

Operator with spur gear level and electromagnetic brake, protection category IP 54. Free choice of right or left operator arrangement 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	15284	15210	15526	15841	16153	16468	16783	17097	17410	17724	18039	18353	18669
4750	14712	15014	15319	15619	15924	16229	16530	16833	17135	17439	17742	18045	18348
4500	14525	14817	15108	15401	15692	15982	16274	16566	16859	17150	17442	17735	18025
4250	14332	14612	14894	15174	15456	15733	16017	16297	16578	16858	17140	17419	17700
4000	14139	14407	14676	14947	15217	15487	15755	16023	16292	16562	16832	17102	17370
3750	13941	14200	14458	14715	14974	15230	15490	15748	16005	16265	16523	16781	17039
3500	13739	13987	14234	14482	14728	14974	15223	15469	15715	15960	16208	16455	16703
3250	13536	13772	14009	14244	14478	14713	14951	15186	15421	15657	15893	16128	16363
3000	13329	13553	13778	14003	14227	14452	14675	14900	15124	15348	15575	15798	16024
2750	13119	13332	13545	13760	13970	14184	14398	14611	14827	15039	15252	15463	15678
2500	12905	13106	13310	13511	13715	13916	14120	14319	14523	14722	14925	15127	15328
2250	12688	12879	13072	13263	13452	13643	13834	14026	14216	14405	14596	14787	14980
2000	12468	12651	12830	13008	13187	13367	13546	13725	13905	14085	14265	14445	14625
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
Clear width													

Optional extras	€
Increase to wind class 4 through additional plastic strip in the area of the twin rollers	per m LDH 105
Foil coating of the individual sections	150
Accessories for operators and controls	See from page 50
RAL colour coating to choose	See page 52

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.

Counterbalance with springs. Emergency opening and closing via emergency hand chain (standard chain length 2000 mm all-round). Additional automatic emergency opening via secured release.

Shaft cover made of polycarbonate sections (standard).

Operator

Operator with spur gear level and electromagnetic brake, integral catch safety device and digital limit switch. Protection category IP 54 Free choice of right or left operator arrangement 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	15694	16014	16337	16659	16978	17300	17622	17943	18263	18584	18906	19227	19550
4750	15504	15813	16125	16431	16743	17055	17362	17672	17981	18291	18600	18910	19220
4500	15312	15611	15908	16207	16505	16801	17099	17398	17697	17994	18293	18592	18888
4250	15114	15400	15688	15974	16262	16545	16835	17121	17409	17695	17983	18268	18555
4000	14916	15190	15464	15741	16017	16293	16566	16840	17115	17391	17666	17942	18216
3750	14713	14977	15241	15503	15767	16029	16294	16558	16820	17086	17349	17612	17876
3500	14505	14758	15010	15264	15515	15766	16020	16271	16522	16772	17025	17278	17531
3250	14297	14538	14779	15019	15258	15498	15741	15980	16220	16461	16702	16942	17182
3000	14084	14313	14542	14772	15000	15230	15457	15687	15915	16144	16375	16603	16833
2750	13868	14086	14303	14522	14736	14955	15173	15390	15610	15826	16044	16259	16478
2500	13649	13854	14062	14266	14474	14679	14887	15090	15298	15501	15708	15914	16119
2250	13426	13620	13817	14012	14204	14399	14594	14789	14983	15175	15370	15565	15761
2000	13200	13386	13569	13750	13932	14115	14298	14480	14663	14847	15030	15213	15397
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
Clear width													

Optional extras		€
Increase to wind class 4 through additional plastic strip in the area of the twin rollers	per m LDH	105
Foil coating of the individual sections		150
Accessories for operators and controls	See from page 50	
RAL colour coating to choose	See page 52	

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, doors with LDB ≤ 5000 mm class 5, doors with LDB > 5000 mm and ≤ 6000 mm class 4, doors with LDB > 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. 1.2 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 $U_D = 1.04 \text{ W/(m}^2\text{K)}$, 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 51).

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	21084	21525	21968	22422	22862	23306	23750	24193	24638	25087	25531	25974	26416
6250	20847	21275	21702	22136	22565	22994	23422	23849	24278	24712	25141	25568	25996
6000	20609	21022	21438	21854	22265	22678	23093	23507	23921	24336	24750	25164	25578
5750	20375	20772	21173	21569	21969	22367	22770	23164	23563	23963	24358	24759	25156
5500	20134	20517	20903	21281	21666	22048	22434	22816	23197	23582	23966	24351	24733
5250	19890	20258	20624	20995	21361	21728	22097	22466	22831	23197	23568	23934	24301
5000	19640	19992	20345	20698	21049	21402	21755	22107	22458	22811	23164	23515	23871
4750	19387	19724	20061	20394	20735	21074	21408	21745	22082	22421	22755	23093	23431
4500	19131	19452	19773	20095	20416	20736	21057	21380	21703	22024	22344	22668	22987
4250	18865	19171	19479	19785	20093	20394	20705	21010	21316	21623	21931	22235	22543
4000	18601	18890	19180	19472	19765	20057	20345	20636	20925	21218	21507	21800	22091
3750	18329	18606	18879	19155	19431	19705	19983	20259	20532	20810	21084	21360	21635
3500	18052	18314	18572	18836	19095	19353	19615	19875	20134	20392	20653	20913	21175
3250	17773	18020	18264	18510	18753	18995	19242	19487	19731	19976	20221	20464	20709
3000	17491	17719	17949	18178	18407	18638	18864	19095	19324	19552	19784	20012	20244
2750	17202	17417	17629	17845	18056	18270	18484	18699	18915	19129	19341	19552	19770
2500	16909	17107	17306	17504	17704	17903	18103	18298	18498	18694	18893	19091	19290
2250	16611	16795	16979	17163	17345	17528	17712	17895	18079	18259	18442	18626	18812
2000	16309	16482	16648	16814	16981	17150	17316	17483	17652	17821	17988	18156	18324

Duratec glazing												Per section €	
Double	159	180	198	217	234	256	275	293	312	330	351	369	386

Shaft cover – 2-sided

► Only for doors with LDH ≥ 2500 mm

3°	1183	1219	1258	1293	1329	1554	1592	1626	1663	1699	1735	1770	1806
10°	1603	1651	1699	1750	1796	2051	2102	2150	2198	2247	2297	2346	2395

Shaft cover – 3-sided

► Required for doors with LDH < 2500 mm!

3°	1424	1474	1525	1573	1622	1943	1994	2041	2089	2139	2191	2238	2287
10°	1842	1903	1964	2029	2089	2440	2503	2565	2626	2690	2750	2811	2874

Optional extras

Single-skinned section with stainless steel expanded mesh (54 % ventilation cross-section)	per m LDB	111
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	105

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch and emergency opening via emergency hand chain, 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 × 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.

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
Clear height	6500	26862	27303	27750	28195	28641	29087						
	6250	26429	26853	27282	27715	28144	28575						
	6000	25990	26403	26818	27232	27648	28062						
	5750	25555	25953	26354	26751	27151	27547						
	5500	25114	25496	25881	26263	26649	27030						
	5250	24669	25036	25407	25774	26142	26510						
	5000	24221	24571	24926	25278	25633	25985	27886	28238	28591	28942	29294	29646
	4750	23766	24106	24442	24777	25114	25452	27339	27675	28013	28349	28686	29024
	4500	23311	23631	23953	24276	24598	24920	26793	27115	27435	27758	28080	28403
	4250	22850	23154	23461	23765	24073	24379	26232	26537	26842	27147	27450	27755
	4000	22380	22672	22963	23253	23546	23836	25675	25965	26253	26544	26832	27122
	3750	21910	22185	22459	22737	23010	23284	25110	25384	25659	25933	26207	26482
	3500	21436	21695	21955	22215	22475	22736	24548	24810	25073	25334	25597	25858
	3250	20954	21199	21443	21689	21934	22177	23969	24214	24456	24699	24943	25185
	3000	20470	20701	20927	21158	21389	21617	23394	23620	23848	24074	24300	24529
Clear width	2750	19983	20197	20412	20624	20838	21051	22817	23030	23244	23459	23672	23887
	2500	19490	19689	19889	20084	20284	20484	22230	22430	22627	22825	23022	23221
	2250	18991	19173	19359	19542	19727	19906	21637	21819	21998	22178	22359	22541
	2000	18489	18661	18827	18992	19162	19330	21049	21217	21384	21552	21719	21887
		5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000

Duratec glazing						Per section €							
Double	409	425	445	463	483	501	521	541	561	580	599	618	

Shaft cover – 2-sided												
► Only for doors with LDH ≥ 2500 mm												
3°	1843	1877	1915	1951	1987	2024	2060	2097	2134	2170	2208	2244
10°	2443	2495	2540	2589	2637	2690	2738	2787	2836	2884	2933	2982
Shaft cover – 3-sided												
► Required for doors with LDH < 2500 mm!												
3°	2338	2389	2435	2484	2535	2585	2633	2684	2733	2781	2833	2881
10°	2937	2998	3060	3125	3184	3248	3311	3375	3438	3502	3565	3628

Acoustic-rated solutions up to -31 dB See page 16

Further controls and emergency openings See from page 46

Accessories for operators and controls See from page 50

RAL colour coating to choose See page 52

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 $U_D = 1.04 \text{ W/(m}^2\text{K)}$, 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 51).

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	18069	18393	18718	19044	19363	19690	20015	20340	20661	20986	21310	21635	21962	
	4750	17835	18145	18457	18765	19078	19389	19696	20003	20313	20627	20936	21247	21555	
	4500	17600	17897	18192	18486	18783	19079	19373	19670	19967	20262	20556	20855	21148	
	4250	17357	17638	17920	18203	18485	18765	19049	19327	19613	19894	20174	20457	20738	
	4000	17113	17380	17644	17915	18184	18452	18718	18985	19251	19519	19788	20057	20326	
	3750	16864	17117	17369	17623	17877	18129	18385	18638	18890	19144	19397	19652	19904	
	3500	16608	16850	17088	17329	17566	17806	18045	18285	18524	18762	19003	19241	19481	
	3250	16351	16578	16802	17030	17255	17476	17702	17928	18154	18378	18603	18827	19052	
	3000	16091	16303	16515	16725	16935	17147	17356	17566	17777	17989	18202	18411	18624	
	2750	15828	16024	16219	16416	16612	16811	17006	17203	17403	17599	17794	17989	18190	
	2500	15556	15736	15923	16106	16288	16471	16654	16836	17017	17198	17382	17564	17749	
	2250	15282	15452	15621	15789	15955	16126	16294	16463	16633	16799	16967	17138	17306	
	2000	15004	15163	15316	15468	15623	15779	15931	16084	16240	16394	16551	16705	16858	
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear width															

Duratec glazing													Per section €
Double	159	181	199	218	235	257	276	293	312	331	352	369	386

Shaft cover – 2-sided

► Only for doors with LDH ≥ 2500 mm

3°	1183	1219	1258	1293	1329	1554	1592	1626	1663	1699	1735	1770	1806
10°	1603	1651	1699	1750	1796	2051	2102	2150	2198	2247	2297	2346	2395

Shaft cover – 3-sided

► Required for doors with LDH < 2500 mm!

3°	1424	1475	1525	1573	1623	1943	1994	2042	2090	2140	2192	2238	2287
10°	1842	1904	1965	2029	2090	2441	2503	2565	2627	2690	2750	2812	2875

Optional extras			€
Single-skinned section with stainless steel expanded mesh (54 % ventilation cross-section)			per m LDB 111
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 105

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch and emergency opening via emergency hand chain, 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

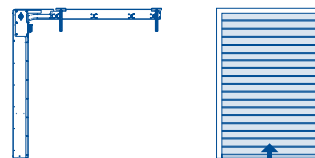
		≤ 4000	> 4000 ≤ 5000
Clear height	5000	17	5
	4750	16	5
	4500	15	5
	4250	14	12
	4000	13	11
	3750	12	10
	3500	11	9
	3250	10	8
	3000	9	7
	2750	8	6
	2500	7	5
	2250	6	4
	2000	5	3
		≤ 4000	> 4000 ≤ 5000
		Clear width	
Profiles *		1 each	2 each

* Closed profiles on top and bottom

Further controls and emergency openings	See from page 46
Accessories for operators and controls	See from page 50
RAL colour coating to choose	See page 52

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	21084	21525	21975	22425	22863	23313	23751	24201	24640	25090	25539	25978	26416	
	6250	20847	21275	21705	22143	22570	22998	23425	23852	24280	24719	25146	25573	26001	
	6000	20609	21022	21446	21862	22266	22683	23099	23515	23931	24336	24752	25169	25585	
	5750	20375	20772	21176	21570	21975	22368	22773	23166	23572	23965	24358	24763	25157	
	5500	20134	20517	20907	21289	21671	22053	22436	22818	23200	23583	23976	24358	24740	
	5250	19890	20258	20625	20996	21367	21739	22098	22470	22840	23200	23572	23942	24302	
	5000	19640	19992	20355	20703	21052	21412	21761	22109	22458	22818	23166	23515	23875	
	4750	19387	19724	20062	20400	20737	21075	21412	21750	22087	22425	22761	23099	23436	
	4500	19131	19452	19782	20096	20423	20737	21064	21389	21705	22031	22345	22672	22998	
	4250	18865	19171	19489	19792	20096	20400	20715	21019	21323	21626	21941	22245	22548	
	4000	18600	18890	19185	19478	19771	20062	20355	20637	20928	21221	21514	21806	22098	
	3750	18329	18606	18882	19163	19433	19714	19984	20265	20535	20816	21086	21367	21637	
	3500	18052	18314	18578	18837	19096	19354	19624	19883	20142	20400	20659	20917	21176	
	3250	17773	18020	18274	18511	18758	19006	19242	19489	19737	19984	20221	20467	20715	
	3000	17491	17719	17949	18185	18410	18646	18871	19096	19332	19557	19792	20017	20253	
	2750	17202	17417	17634	17847	18061	18274	18488	18702	18915	19129	19343	19557	19771	
	2500	16909	17107	17308	17510	17713	17904	18106	18308	18499	18702	18893	19096	19298	
	2250	16611	16795	16981	17172	17352	17533	17713	17904	18083	18263	18443	18635	18815	
	2000	16309	16482	16655	16824	16981	17150	17318	17488	17656	17825	17993	18162	18331	
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear width															

Duratec glazing												Per section €	
Double	159	181	199	218	235	257	276	293	312	331	352	369	386

Optional extras		
Track cover as trap guard for doors with LDH < 2500 mm made of sturdy door panels in RAL 9006	Per m ²	295
Single-skinned section with stainless steel expanded mesh (54 % ventilation cross-section)	per m LDB	111
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	105

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch and emergency opening via emergency hand chain, 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 × 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.

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

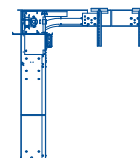
		≤ 4000	> 4000 ≤ 5000
Clear height	6500	23	21
	6250	22	20
	6000	21	19
	5750	20	18
	5500	19	17
	5250	18	16
	5000	17	15
	4750	16	14
	4500	15	13
	4250	14	12
	4000	13	11
	3750	12	10
	3500	11	9
	3250	10	8
	3000	9	7
	2750	8	6
	2500	7	5
	2250	6	4
	2000	5	3
		≤ 4000	> 4000 ≤ 5000
		Clear width	
Profiles *		1 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 46
Accessories for operators and controls	See from page 50
RAL colour coating to choose	See page 52

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	21084	21525	21968	22422	22862	23306	23750	24193	24638	25087	25531	25974	26416	
	6250	20847	21275	21701	22136	22564	22994	23422	23849	24278	24712	25141	25568	25996	
	6000	20609	21022	21438	21851	22265	22678	23093	23507	23921	24336	24749	25164	25578	
	5750	20375	20772	21173	21569	21969	22367	22767	23164	23563	23963	24358	24759	25156	
	5500	20134	20517	20903	21281	21666	22048	22434	22816	23197	23580	23966	24351	24733	
	5250	19890	20258	20624	20995	21361	21728	22097	22466	22831	23197	23568	23933	24301	
	5000	19640	19992	20345	20698	21049	21402	21755	22106	22458	22811	23164	23515	23871	
	4750	19387	19724	20061	20394	20734	21074	21408	21745	22082	22421	22755	23093	23431	
	4500	19131	19452	19773	20095	20416	20736	21057	21380	21703	22024	22344	22668	22987	
	4250	18865	19171	19479	19785	20093	20394	20705	21010	21316	21623	21931	22235	22543	
	4000	18600	18890	19180	19472	19765	20057	20345	20634	20925	21218	21507	21800	22091	
	3750	18329	18606	18879	19155	19431	19705	19983	20259	20531	20810	21084	21360	21635	
	3500	18052	18314	18572	18836	19095	19353	19615	19875	20134	20392	20653	20913	21175	
	3250	17773	18020	18264	18510	18752	18995	19242	19487	19731	19976	20221	20464	20709	
	3000	17491	17719	17949	18178	18407	18638	18864	19095	19324	19552	19784	20012	20244	
	2750	17202	17417	17629	17845	18056	18270	18484	18699	18915	19129	19341	19552	19768	
	2500	16909	17107	17306	17504	17704	17903	18103	18298	18497	18694	18893	19091	19290	
	2250	16611	16795	16979	17163	17345	17528	17712	17895	18079	18259	18442	18626	18812	
	2000	16309	16482	16648	16814	16981	17150	17316	17482	17652	17821	17988	18156	18324	
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear width															

Duratec glazing													Per section €
Double	159	181	199	218	235	257	276	293	312	331	352	369	386

Optional extras		
Single-skinned section with stainless steel expanded mesh (54 % ventilation cross-section)		per m LDB 111
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 105

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch and emergency opening via emergency hand chain, 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 46
Accessories for operators and controls	See from page 50
RAL colour coating to choose	See page 52

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, door with LDB ≤ 5000 mm class 5, door with LDB > 5000 mm and ≤ 6000 mm class 4, door with LDB > 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	21084	21525	21968	22422	22862	23306	23750	24193	24638	25087	25531	25974	26416	
	6250	20847	21275	21702	22136	22565	22994	23422	23849	24278	24712	25141	25568	25996	
	6000	20609	21022	21438	21854	22265	22678	23093	23507	23921	24336	24750	25164	25578	
	5750	20375	20772	21173	21569	21969	22367	22770	23164	23563	23963	24358	24759	25156	
	5500	20134	20517	20903	21281	21666	22048	22434	22816	23197	23582	23966	24351	24733	
	5250	19890	20258	20624	20995	21361	21728	22097	22466	22831	23197	23568	23934	24301	
	5000	19640	19992	20345	20698	21049	21402	21755	22107	22458	22811	23164	23515	23871	
	4750	19387	19724	20061	20394	20735	21074	21408	21745	22082	22421	22755	23093	23431	
	4500	19131	19452	19773	20095	20416	20736	21057	21380	21703	22024	22344	22668	22987	
	4250	18865	19171	19479	19785	20093	20394	20705	21010	21316	21623	21931	22235	22543	
	4000	18601	18890	19180	19472	19765	20057	20345	20636	20925	21218	21507	21800	22091	
	3750	18329	18606	18879	19155	19431	19705	19983	20259	20532	20810	21084	21360	21635	
	3500	18052	18314	18572	18836	19095	19353	19615	19875	20134	20392	20653	20913	21175	
	3250	17773	18020	18264	18510	18753	18995	19242	19487	19731	19976	20221	20464	20709	
	3000	17491	17719	17949	18178	18407	18638	18864	19095	19324	19552	19784	20012	20244	
	2750	17202	17417	17629	17845	18056	18270	18484	18699	18915	19129	19341	19552	19770	
	2500	16909	17107	17306	17504	17704	17903	18103	18298	18498	18694	18893	19091	19290	
	2250	16611	16795	16979	17163	17345	17528	17712	17895	18079	18259	18442	18626	18812	
2000	16309	16482	16648	16814	16981	17150	17316	17483	17652	17821	17988	18156	18324		
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear width															

Duratec glazing													Per section €
Double	159	181	199	218	235	257	276	293	312	331	352	369	386

Optional extras		
Single-skinned section with stainless steel expanded mesh (54 % ventilation cross-section)	per m LDB	111
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	105

Operator

Direct drive operator with electromagnetic brake and integral catch safety device, digital limit switch and emergency opening via emergency hand chain, 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 × 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.

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
Clear height	6500	26862	27303	27750	28195	28641	29087
	6250	26429	26853	27282	27715	28144	28575
	6000	25990	26403	26818	27232	27648	28062
	5750	25555	25953	26354	26751	27151	27547
	5500	25114	25496	25881	26263	26649	27030
	5250	24669	25036	25407	25774	26142	26510
	5000	24221	24571	24926	25278	25633	25985
	4750	23766	24106	24442	24777	25114	25452
	4500	23311	23631	23953	24276	24598	24920
	4250	22850	23154	23461	23765	24073	24379
	4000	22380	22672	22963	23253	23546	23836
	3750	21910	22185	22459	22737	23010	23284
	3500	21436	21695	21955	22215	22475	22736
	3250	20954	21199	21443	21689	21934	22177
	3000	20470	20701	20927	21158	21389	21617
	2750	19983	20197	20412	20624	20838	21051
	2500	19490	19689	19889	20084	20284	20484
	2250	18991	19173	19359	19542	19727	19906
	2000	18489	18661	18827	18992	19162	19330
		5250	5500	5750	6000	6250	6500
		Clear width					

Duratec glazing			Per section €			
Double	409	426	445	463	483	501

Maximum glazing / ventilation grille

		≤ 4000	> 4000 ≤ 5000	> 5000
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
	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		

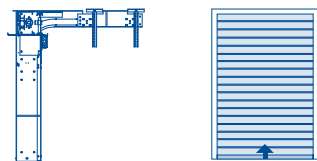
Profiles * 1 each 2 each 3 each

* Closed profiles on top and bottom

Acoustic-rated solutions up to -31 dB	See page 16
Further controls and emergency openings	See from page 46
Accessories for operators and controls	See from page 50
RAL colour coating to choose	See page 52

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, protection category IP 54, operator side on right or left.

Control

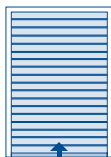
Control AK 500 FUE-1 in plastic control box, IP 65, 3-phase, 400 V, size (W × H × D) = 230 × 460 × 200 mm, frequency converter, electronic travel limit setting, Open-Stop-Close membrane push button, main switch, emergency-off button, automatic timer and display, connection cable with CEE plug, 3 volt-free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

		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
Clear height	5000	24542	25406	26266	27130	27991	28857	29718	31290	32153	33012	33877	34740	35603
	4750	24079	24902	25724	26546	27366	28191	29009	30542	31363	32183	33007	33828	34648
	4500	23612	24394	25174	25954	26736	27516	28299	29789	30569	31349	32130	32914	33692
	4250	23138	23878	24618	25361	26101	26841	27580	29030	29769	30511	31254	31992	32734
	4000	22663	23359	24062	24760	25460	26161	26858	28263	28963	29668	30363	31065	31763
	3750	22181	22842	23501	24156	24817	25476	26135	27501	28158	28818	29478	30133	30795
	3500	21692	22316	22934	23550	24167	24787	25401	26023	27343	27963	28582	29199	29818
	3250	21204	21781	22358	22936	23513	24089	24668	25245	26525	27106	27683	28261	28838
	3000	20709	21248	21781	22322	22856	23393	23926	24463	25707	26245	26780	27316	27853
	2750	20210	20707	21202	21695	22191	22688	23185	23681	24175	24673	25175	25675	26175
	2500	19704	20161	20613	21070	21526	21980	22435	22891	23346	23799	24254	24709	25164
Clear width	2250	19197	19613	20023	20441	20852	21267	21681	22097	22509	22922	23338	23754	24170
	2000	18681	19055	19431	19802	20174	20552	20923	21297	21668	22044	22414	22789	23164

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 105
Further controls and emergency openings	See from page 46
Accessories for operators and controls	See from page 50
RAL colour coating to choose	See page 52

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 and integral catch safety device, digital limit switch and emergency opening and closing via emergency hand chain, 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 × 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.

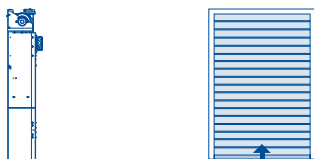
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear height	5000	24542	25406	26266	27130	27991	28857	29718	31290	32153	33012	33877	34740	35603	
	4750	24079	24902	25724	26546	27366	28191	29009	30542	31363	32183	33007	33828	34648	
	4500	23612	24394	25174	25954	26736	27516	28299	29789	30569	31349	32130	32914	33692	
	4250	23138	23878	24618	25361	26101	26841	27580	29030	29769	30511	31254	31992	32734	
	4000	22663	23359	24062	24760	25460	26161	26858	28263	28963	29668	30363	31065	31763	
	3750	22181	22842	23501	24156	24817	25476	26135	27501	28158	28818	29478	30133	30795	
	3500	21692	22316	22934	23550	24167	24787	25401	26023	27343	27963	28582	29199	29818	
	3250	21204	21781	22358	22936	23513	24089	24668	25245	26525	27106	27683	28261	28838	
	3000	20709	21248	21781	22322	22856	23393	23926	24463	25707	26245	26780	27316	27853	
	2750	20210	20707	21202	21695	22191	22688	23185	23681	24175	24673	25175	25675	26175	
	2500	19704	20161	20613	21070	21526	21980	22435	22891	23346	23799	24261	24715	25169	
	2250	19197	19613	20023	20441	20852	21267	21681	22097	22509	22922	23338	23751	24164	
	2000	18681	19055	19431	19802	20174	20552	20923	21297	21668	22044	22414	22785	23156	
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear width															

Shaft cover – 2-sided													
3°	1183	1219	1258	1293	1329	1554	1592	1626	1663	1699	1735	1770	1806
10°	1603	1651	1699	1750	1796	2051	2102	2150	2198	2247	2297	2346	2395
Shaft cover – 3-sided													
3°	1424	1475	1525	1573	1623	1943	1994	2042	2090	2140	2192	2238	2287
10°	1842	1904	1965	2029	2090	2441	2503	2565	2627	2690	2750	2812	2875

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	105
Further controls and emergency openings		See from page 46
Accessories for operators and controls		See from page 50
RAL colour coating to choose		See page 52

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, 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 × 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.

		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear height	5000	24542	25406	26266	27130	27991	28857	29718	31290	32153	33012	33877	34740	35603	
	4750	24079	24902	25724	26546	27366	28191	29009	30542	31363	32183	33007	33828	34648	
	4500	23612	24394	25174	25954	26736	27516	28299	29789	30569	31349	32130	32914	33692	
	4250	23138	23878	24618	25361	26101	26841	27580	29030	29769	30511	31254	31992	32734	
	4000	22663	23359	24062	24760	25460	26161	26858	28263	28963	29668	30363	31065	31763	
	3750	22181	22842	23501	24156	24817	25476	26135	27501	28158	28818	29478	30133	30795	
	3500	21692	22316	22934	23550	24167	24787	25401	26023	27343	27963	28582	29199	29818	
	3250	21204	21781	22358	22936	23513	24089	24668	25245	26525	27106	27683	28261	28838	
	3000	20709	21248	21781	22322	22856	23393	23926	24463	25707	26245	26780	27316	27853	
	2750	20210	20707	21202	21695	22191	22688	23185	23681	24175	24673	25175	25675	26175	
	2500	19704	20161	20613	21070	21526	21980	22435	22891	23346	23799	24251	24709	25169	
	2250	19197	19613	20023	20441	20852	21267	21681	22097	22509	22922	23338	23754	24172	
	2000	18681	19055	19431	19802	20174	20552	20923	21297	21668	22044	22414	22789	23169	
		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 × 22.5 mm with lip seal and lintel seal with 2 lip seals

per m LDH

105

Further controls and emergency openings

See from page 46

Accessories for operators and controls

See from page 50

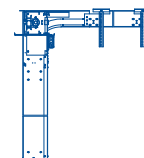
RAL colour coating to choose

See page 52

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 $U_D = 0.57 \text{ W/(m}^2\cdot\text{K)}$, 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 -28 °C max.

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 and emergency opening via emergency hand chain with counter weight, 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	21417	21875	22328	22784	23237	23693	24151	24606	25062	25514	25975	26430	26883	
	4750	21105	21538	21977	22410	22845	23281	23717	24152	24585	25020	25456	25895	26324	
	4500	20793	21207	21619	22032	22448	22862	23276	23693	24109	24522	24937	25348	25762	
	4250	20469	20865	21257	21654	22046	22438	22833	23231	23624	24017	24413	24808	25202	
	4000	20147	20519	20891	21267	21641	22017	22384	22758	23135	23509	23882	24258	24627	
	3750	19816	20170	20523	20875	21230	21582	21938	22290	22640	22998	23350	23702	24056	
	3500	19482	19815	20150	20484	20814	21148	21480	21811	22143	22477	22811	23147	23475	
	3250	19143	19457	19771	20081	20392	20707	21018	21329	21643	21956	22266	22582	22893	
	3000	18801	19096	19387	19680	19969	20262	20553	20844	21134	21431	21721	22015	22304	
	2750	18457	18728	18996	19269	19540	19812	20082	20355	20627	20903	21173	21442	21714	
	2500	18104	18357	18606	18859	19105	19357	19612	19859	20111	20364	20613	20866	21115	
	2250	17749	17978	18209	18441	18670	18898	19132	19360	19591	19821	20056	20285	20517	
	2000	17387	17597	17808	18015	18226	18437	18647	18859	19067	19278	19489	19697	19907	
		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

2399

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 and residual current circuit breaker 3 x 25 A / 0.03 A)

Radar movement detector MWD-C (please state temperatures)

See page 50

Accessories for operators and controls

See from page 50

RAL colour coating to choose

See page 52

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 $U_D = 0.57 \text{ W/(m}^2\text{K)}$, 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 and emergency opening via emergency hand chain with counter weight, 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
5000	23662	24111	24442	24816	25193	25978	26070	26449	26825	27201	27624	28005	28379
4750	22976	23464	23823	24209	24570	25315	25395	25801	26163	26523	26889	27278	27728
4500	22437	22888	23233	23575	23950	24295	24640	25110	25456	25840	26277	26709	27143
4250	21902	22185	22639	22973	23301	23662	24075	24490	24903	25315	25726	26139	26551
4000	21363	21653	22047	22435	22825	23219	23608	23998	24390	24779	25172	25564	25951
3750	20915	21287	21656	22024	22394	22762	23135	23504	23873	24245	24613	24981	25348
3500	20564	20915	21262	21610	21961	22306	22657	23004	23351	23701	24050	24398	24746
3250	20211	20537	20865	21192	21517	21844	22173	22500	22825	23156	23478	23805	24135
3000	19851	20155	20461	20766	21073	21378	21683	21988	22295	22602	22907	23212	23517
2750	19488	19773	20056	20341	20624	20907	21189	21477	21761	22047	22330	22614	22897
2500	19120	19382	19644	19906	20167	20431	20696	20958	21220	21483	21747	22011	22270
2250	18743	18982	19227	19469	19706	19951	20191	20437	20677	20916	21160	21402	21644
2000	18364	18584	18803	19024	19244	19466	19688	19906	20127	20345	20566	20789	21007
	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

2399

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 U and residual current circuit breaker 3 x 25 A / 0.03 A)

Radar movement detector MWD-C (please state temperatures)

See page 50

Accessories for operators and controls

See from page 50

RAL colour coating to choose

See page 52

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 $U_p \leq 1.6 \text{ W/(m}^2\cdot\text{K)}$. 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. 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	9004	9136	9273	9403	9537	9675	9806	9940	10076
	4250	8925	9057	9188	9316	9445	9581	9709	9843	9966
	4000	8852	8976	9106	9227	9356	9481	9609	9735	9863
	3750	8776	8901	9019	9141	9264	9390	9513	9630	9757
	3500	8697	8817	8933	9055	9172	9290	9410	9529	9650
	3250	8621	8736	8854	8966	9079	9196	9311	9429	9543
	3000	8544	8655	8767	8875	8991	9105	9213	9325	9437
	2750	8467	8575	8682	8789	8903	9007	9115	9220	9330
	2500	8393	8497	8599	8703	8805	8912	9017	9119	9220
	2250	8315	8413	8516	8616	8719	8817	8917	9018	9118
	2000	8243	8337	8433	8529	8627	8721	8817	8913	9013
		2000	2250	2500	2750	3000	3250	3500	3750	4000
Clear width										

Shaft cover including operator cover made of galvanized material									€ each
Chamfered, 5°	901	946	991	1036	1081	1127	1172	1216	1260

Shaft cover including operator cover in stainless steel, V2 A brushed									€ each
Chamfered, 5°	2310	2451	2593	2738	2877	3020	3163	3306	3444

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!)	344

Notice:

Condensation may form and the thermal insulation value $U_p \leq 1.6 \text{ W/(m}^2\cdot\text{K)}$ 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 72

Further controls and emergency openings	See from page 46
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Accessories for operators and controls	See from page 50
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RAL colour coating to choose	See page 52
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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. Optionally 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. 2.2 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. 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	8755	8826	8897	8968	9039	9110	9181	9252	9323	9394	9465
	4250	8711	8781	8851	8921	8990	9060	9130	9200	9270	9340	9410
	4000	8667	8736	8805	8874	8942	9011	9080	9148	9217	9286	9355
	3750	8624	8691	8759	8826	8894	8962	9029	9097	9164	9232	9300
	3500	8580	8646	8713	8779	8846	8912	8979	9045	9112	9178	9244
	3250	8536	8602	8667	8732	8798	8863	8928	8993	9059	9124	9189
	3000	8493	8557	8621	8685	8749	8813	8878	8942	9006	9070	9134
	2750	8449	8512	8575	8638	8701	8764	8827	8890	8953	9016	9079
	2500	8405	8467	8529	8591	8653	8715	8777	8838	8900	8962	9024
	2250	8362	8422	8483	8544	8605	8665	8726	8787	8848	8908	8969
Clear width	2000	8318	8378	8437	8497	8556	8616	8676	8735	8795	8854	8914
	1750	8274	8333	8391	8450	8508	8567	8625	8683	8742	8800	8859

Optional extras		€
Clean equipment: Shaft cover with inspection hole, additional horizontal lip seal in the cover and aluminium bottom part	Surcharge per door	369
External control panel integrated at 1300 mm from FFL on the side element (operator side)		259
Aluminium bottom seal profile for wind load in acc. with EN 12424 up to class 3.	€ per m door width	48
Insect protection section – light section as a black grille foil, ventilation cross-section approx. 20 %	Surcharge per door	135
Further controls and emergency openings		See from page 46
Accessories for operators and controls		See from page 50
RAL colour coating to choose		See page 52

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	5601	5636	5669	5701	5734	5770	5803	5836	5872
	2750	5556	5591	5623	5655	5688	5720	5752	5783	5817
	2500	5524	5554	5586	5617	5649	5680	5709	5741	5773
	2250	5490	5519	5548	5578	5609	5640	5669	5698	5729
	2000	5455	5484	5512	5542	5571	5599	5627	5656	5685
	1750	5411	5438	5465	5494	5522	5548	5576	5605	5631
Clear width		1000	1250	1500	1750	2000	2250	2500	2750	3000

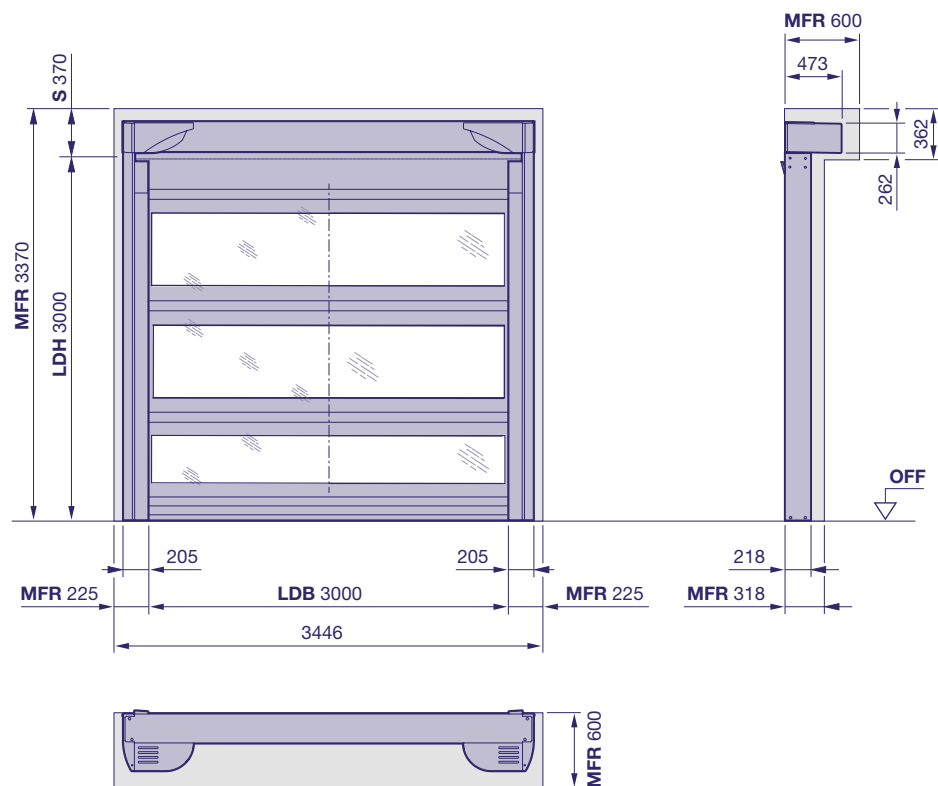
Notice:

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

Colour coating (shaft cover and frame)	See page 54
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 54

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. 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 x H x D) = 180 x 320 x 100 mm (with 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.

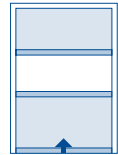
		2000	2250	2500	2750	3000	3250	3500	3750	4000
		2000	2250	2500	2750	3000	3250	3500	3750	4000
Clear height	4000	5822	5883	5940	5999	6055	6113	6174	6231	6590
	3750	5782	5841	5894	5950	6007	6064	6129	6186	6242
	3500	5492	5549	5607	5667	5724	5780	5848	6129	6186
	3250	5452	5506	5561	5619	5674	5729	5792	6084	6140
	3000	5408	5464	5520	5574	5629	5686	5747	6028	6084
	2750	5365	5421	5475	5532	5582	5634	5691	5983	6028
	2500	5325	5376	5427	5482	5536	5592	5645	5927	5983
	2250	5278	5334	5388	5432	5489	5543	5601	5870	5927
	2000	5239	5291	5341	5391	5440	5492	5545	5826	5870
		Clear width								

Shaft cover made of galvanized material										€ each
Straight	277	301	327	350	375	397	422	446	469	

Operator covers		Each
Operator cover made of galvanized material	Straight	229
Accessories for operators and controls (compatible accessories are marked with *)		See from page 50
RAL colour coating to choose		See page 52

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. 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	7836	7915	7998	8080	8160	8246	8331	8412	8493	8579	8668	8749	8832
	4750	7783	7859	7939	8021	8101	8184	8262	8345	8428	8509	8592	8674	8754
	4500	7724	7802	7883	7962	8039	8115	8195	8278	8355	8436	8520	8598	8678
	4250	7666	7746	7822	7899	7976	8055	8129	8208	8288	8367	8444	8525	8603
	4000	7611	7688	7761	7839	7912	7988	8065	8140	8214	8294	8372	8450	8527
	3750	7557	7634	7701	7775	7851	7923	8000	8074	8149	8222	8296	8375	8451
	3500	7178	7253	7330	7405	7481	7554	7631	8006	8078	8150	8224	8297	8375
	3250	7124	7194	7267	7344	7416	7488	7566	7939	8012	8077	8151	8224	8296
	3000	7067	7141	7214	7283	7356	7431	7503	7874	7940	8010	8077	8150	8221
	2750	7010	7084	7154	7228	7296	7366	7433	7806	7874	7935	8008	8075	8147
	2500	6959	7027	7090	7163	7232	7307	7369	7740	7806	7864	7933	7999	8069
	2250	6898	6970	7040	7100	7176	7240	7309	7671	7738	7792	7860	7925	7992
	2000	6846	6915	6979	7045	7108	7178	7243	7606	7669	7723	7786	7856	7916

Shaft cover made of galvanized material													€ each
Straight	277	301	327	350	375	397	422	446	469	495	518	543	568
Chamfered	291	315	341	367	392	418	444	468	495	519	545	571	598

Shaft covers in stainless steel, V2 A brushed													€ each
Straight	532	582	634	686	734	788	840	890	942	996	1049	1100	1150
Chamfered	574	630	686	743	799	854	908	967	1021	1079	1134	1192	1245

Notice:

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

Operator covers		Each
Operator cover made of galvanized material	Straight	229
	Chamfered	273
Operator cover in stainless steel, V2 A	Straight	427
	Chamfered	454
Optional extras		€
Insect protection section – light section as a green grille foil, ventilation cross section approx. 15 %	Surcharge per section	135
Second insect protection section, approx. 900 mm high (possible from 3000 mm clear height)	Surcharge per section	135
Second transparent curtain section, approx. 900 mm high (available from 3000 mm clear height)	Surcharge per door	242
Further controls and emergency openings		See from page 46
Accessories for operators and controls		See from page 50
RAL colour coating to choose		See page 52

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.

Optionally 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. 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	8786	8869	8953	9036	9101	9188	9274	9359	9445	9535	9618	9708	9793	
	4750	8704	8783	8868	8950	9031	9093	9179	9265	9350	9432	9519	9603	9685	
	4500	8623	8703	8781	8863	8943	9023	9084	9168	9252	9333	9416	9497	9581	
	4250	8538	8621	8699	8777	8856	8931	9014	9073	9154	9231	9316	9393	9477	
	4000	8457	8533	8612	8690	8764	8840	8918	8995	9051	9130	9211	9288	9369	
	3750	8375	8453	8525	8600	8678	8751	8829	8905	8976	9033	9109	9184	9266	
	3500	8113	8187	8259	8335	8410	8481	8556	8805	8880	8930	9006	9084	9161	
	3250	8029	8103	8174	8247	8318	8392	8462	8712	8786	8832	8908	8980	9052	
	3000	7949	8021	8092	8162	8230	8300	8371	8622	8692	8731	8801	8875	8950	
	2750	7865	7936	8006	8075	8142	8211	8282	8527	8596	8628	8703	8774	8842	
	2500	7786	7849	7915	7985	8052	8116	8187	8434	8502	8527	8599	8670	8740	
	2250	7701	7765	7834	7901	7965	8028	8096	8341	8406	8431	8502	8563	8631	
2000	7620	7686	7749	7811	7877	7940	8005	8247	8308	8327	8396	8460	8524		
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	
Clear width															

Shaft cover made of galvanized material													€ each
Straight	288	312	335	362	384	409	432	458	482	504	530	551	578
Chamfered	301	328	352	379	404	428	456	481	504	532	555	581	608

Shaft covers in stainless steel, V2 A brushed													€ each
Straight	613	670	726	785	840	899	957	1016	1070	1129	1186	1244	1301
Chamfered	673	734	800	864	924	985	1053	1118	1176	1242	1307	1370	1429

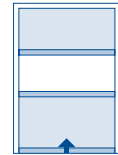
Notice:

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

Operator covers		Each
Operator cover made of galvanized material	Straight	229
	Chamfered	273
Operator cover in stainless steel, V2 A	Straight	427
	Chamfered	454
Optional extras		€
Aluminium bottom seal profile for wind load in acc. with EN 12424 up to class 1.	per m LDB	48
Insect protection section – light section as a green grille foil, ventilation cross section approx. 15 %	Surcharge per door	135
Option: bottom replacement section with weather strip 300 mm high	per unit	241
Further controls and emergency openings		See from page 46
Accessories for operators and controls		See from page 50
RAL colour coating to choose		See page 52

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. 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	10746	10850	10955	11061	11162	11265	11373	11474	11578	11677	11785	11888	11990
	5750	10647	10746	10849	10949	11054	11155	11257	11358	11458	11563	11663	11764	11866
	5500	10544	10646	10741	10843	10945	11048	11145	11245	11343	11446	11547	11644	11748
	5250	10440	10540	10641	10735	10838	10934	11034	11130	11229	11326	11426	11524	11623
	5000	10341	10438	10532	10628	10729	10825	10919	11015	11112	11210	11308	11402	11501
	4750	10238	10332	10432	10526	10616	10712	10807	10904	10995	11096	11188	11283	11378
	4500	10134	10232	10325	10415	10509	10604	10696	10789	10883	10976	11067	11162	11256
	4250	10034	10125	10212	10308	10399	10494	10584	10674	10769	10858	10948	11043	11135
	4000	9934	10021	10113	10199	10290	10381	10469	10564	10653	10738	10831	10920	11007
	3750	9831	9920	10007	10093	10184	10273	10357	10450	10534	10624	10711	10801	10887
	3500	9726	9810	9899	9987	10073	10161	10247	10332	10417	10507	10594	10682	10769
	3250	9626	9712	9793	9881	9963	10049	10132	10221	10305	10388	10473	10562	10644
Clear width	3000	9523	9606	9690	9774	9855	9938	10021	10107	10191	10273	10354	10438	10521
	2750	9421	9502	9586	9667	9747	9829	9906	9993	10072	10156	10237	10318	10398
	2500	9318	9396	9476	9557	9634	9716	9794	9880	9958	10038	10119	10196	10277
	2250	9218	9294	9369	9449	9527	9606	9683	9768	9845	9922	9999	10075	10155
	2000	9112	9192	9268	9346	9421	9497	9573	9646	9722	9800	9880	9957	10033
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000

Shaft cover made of galvanized material													€ each
Straight	308	333	360	385	412	440	463	492	515	543	569	595	620
Chamfered	321	349	376	404	429	459	487	512	541	569	595	622	650
Shaft covers in stainless steel, V2 A brushed													€ each
Straight	638	696	752	810	865	923	983	1041	1082	1098	1154	1268	1326
Chamfered	681	743	802	864	921	981	1047	1103	1163	1224	1285	1348	1404

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

Operator covers		Each
Operator cover made of galvanized material	Straight	229
	Chamfered	273
Operator cover in stainless steel, V2 A	Straight	427
	Chamfered	454
Optional extras		€
Aluminium bottom seal profile	per m LDB	48
Option: bottom replacement section with weather strip 300 mm high	per unit	241
Curtain fixing	Clear width ≤ 4500 mm	403
(curtain fixing not possible with cover)	Clear width > 4500 mm	802
Insect protection section – light section as a green grille foil, (ventilation cross section approx. 15 %)	Surcharge per door	135

Further controls and emergency openings See from page 46

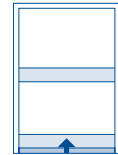
Accessories for operators and controls See from page 50

RAL colour coating to choose See page 52

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

Different opening speeds for different sizes:

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	13305	14424	14616	14813	15017	15199	15403	16378	16570	16764	16963	17143	17337
	6750	13161	14280	14468	14656	14850	15026	15227	15408	16385	16570	16766	16942	17132
	6500	13018	14132	14314	14498	14687	14863	15053	15230	16204	16387	16570	16743	16929
	6250	12878	13988	14168	14348	14526	14700	14884	15059	15239	16199	16378	16554	16733
	6000	12743	12908	14025	14199	14370	14547	14719	14892	15064	16014	16188	16358	16537
	5750	12606	12769	13880	14045	14215	14387	14556	14722	14895	15061	16002	16174	16341
	5500	12473	12634	13734	13900	14065	14226	14393	14558	14720	14885	15051	15988	16153
	5250	12336	12496	13587	13751	13909	14069	14228	14389	14551	14707	14866	15799	15960
	5000	12206	12357	12504	13600	13757	13909	14066	14221	14373	14528	14684	14842	15768
	4750	12068	12219	12372	13453	13600	13753	13902	14049	14203	14355	14506	14648	14801
	4500	11929	12079	12223	12878	13445	13592	13741	13882	14031	14174	14318	14469	14610
	4250	11798	11938	12079	12220	13296	13434	13575	13715	13855	13995	14138	14280	14417
	4000	11663	11798	11931	12070	12208	13274	13412	13548	13683	13818	13955	14091	14224
	3750	11528	11659	11788	11919	12054	13122	13247	13380	13509	13641	13770	13904	14034
	3500	11394	11518	11644	11771	11900	12024	13088	13208	13338	13463	13587	13715	13843
	3250	11257	11379	11501	11623	11745	11866	11987	13049	13167	13287	13410	13532	13647
	3000	11120	11239	11356	11474	11587	11710	11824	11939	12997	13106	13225	13343	13459
	2750	10989	11101	11213	11322	11435	11548	11660	11771	11883	12933	13040	13154	13268
	2500	10851	10961	11066	11176	11281	11391	11497	11600	11714	11819	12866	12977	13076
	2250	10720	10818	10921	11025	11127	11229	11334	11435	11540	11642	11745	12784	12888
	2000	10582	10683	10778	10875	10976	11070	11171	11265	11368	11463	11561	11660	12696
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
Clear width														

Shaft cover made of galvanized material													€ each
Straight	412	448	487	523	558	594	631	668	703	739	777	813	850
Chamfered	424	462	500	540	577	615	653	689	728	765	804	841	881

Shaft covers in stainless steel, V2 A brushed													€ each
Straight	782	861	938	1016	1091	1170	1248	1324	1402	1479	1556	1631	1711
Chamfered	801	881	961	1038	1119	1200	1278	1357	1438	1517	1595	1675	1755

Operator covers													Each
Operator cover made of galvanized material	Straight												245
	Chamfered												290
Operator cover in stainless steel, V2 A	Straight												456
	Chamfered												483

Notice:

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

Further controls and emergency openings See from page 46

Accessories for operators and controls See from page 50

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, 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 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.

		5250	5500	5750	6000
Clear height	7000	17512	17715	17904	18106
	6750	17310	17500	17683	17881
	6500	17107	17292	17476	17660
	6250	16906	17087	17265	17447
	6000	16708	16886	17055	17232
	5750	16512	16682	16848	17017
	5500	16318	16481	16647	16809
	5250	16118	16280	16438	16597
	5000	15923	16078	16235	16388
	4750	15725	15877	16025	16176
	4500	15529	15675	15820	15967
	4250	14560	15471	15617	15751
	4000	14364	14496	14634	15543
	3750	14166	14295	14427	14560
	3500	13966	14096	14222	14349
	3250	13770	13893	14019	14138
	3000	13576	13692	13808	13926
	2750	13380	13492	13601	13715
	2500	13181	13289	13395	13501
	2250	12991	13088	13191	13296
	2000	12792	12893	12989	13088
		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	886	923	961	996
Chamfered	918	957	994	1031

Shaft covers in stainless steel, V2 A brushed € per unit

Straight	1790	1867	1944	2022
Chamfered	1835	1914	1993	2071

Operator covers		Each
Operator cover made of galvanized material	Straight	245
	Chamfered	290
Operator cover in stainless steel, V2 A	Straight	456
	Chamfered	483

Notice:

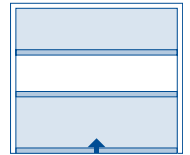
Side elements in stainless steel = basic door price + 25 % surcharge

Further controls and emergency openings See from page 46

Accessories for operators and controls See from page 50

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, 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 × 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.

		5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000
Clear height	6250	20826	20985	21140	21302	21458	22127	22290	22453	22620	22784	26893	27154	27409
	6000	20643	20800	20955	21112	21268	21932	22096	22254	22419	22583	26695	26947	27201
	5750	20462	20612	20766	20922	21075	21736	21896	22060	22218	22380	26487	26744	26997
	5500	20274	20428	20577	20733	20883	21542	21704	21862	22021	22178	26286	26536	26786
	5250	20095	20244	20392	20544	20694	21353	21511	21665	21820	21978	26083	26329	26583
	5000	19910	20058	20204	20352	20501	21156	21313	21466	21622	21778	25879	26125	26371
		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	2400	2481	2562	2638	2717	2800	2879	2957	3036	3113	3197	3275	3355
3-sided	3536	3656	3779	3901	4020	4144	4263	4387	4506	4627	4753	4871	4992

		8250	8500	8750	9000	9250	9500	9750	10000
Clear height	6250	27666	27924	28180	28436	28693	28953	29209	29463
	6000	27458	27711	27968	28224	28477	28735	28989	29244
	5750	27246	27500	27755	28010	28260	28514	28768	29019
	5500	27040	27293	27540	27792	28044	28296	28548	28798
	5250	26828	27081	27325	27577	27826	28075	28324	28575
	5000	26620	26867	27114	27364	27609	27856	28105	28349
		8250	8500	8750	9000	9250	9500	9750	10000

Clear width

Steel cladding for operator bearing and shaft made of galvanized material

2-sided	3434	3516	3597	3676	3755	3838	3914	3992
3-sided	5114	5237	5358	5477	5598	5724	5843	5888

Further controls and emergency openings

See from page 46

Accessories for operators and controls

See from page 50

RAL colour coating to choose

See page 52

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

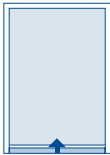
Direct drive operator with V2 A hollow shaft, electromagnetic brake, integral catch safety device, digital limit switch, protection category IP 65, operator side on right or left. Emergency opening only via UPS.

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	Clear width		
	2000	2250	2500
4000	12124	12322	12534
3750	12007	12204	12411
3500	11888	12082	12286
3250	11769	11964	12161
3000	11255	11446	11639
2750	11136	11325	11516
2500	11017	11208	11396
2250	10902	11090	11273
2000	10784	10970	11154

Optional extras		€
Emergency opening via UPS in stainless steel control box		1584
Chamfered control box cover in stainless steel (art. no. 4980343)		272
Accessories for operators and controls		See from page 50
RAL colour coating to choose		See page 52



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, 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 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.

Clear height	2500	2250	2000	1750	
	6392	6384	6367	6352	
	6436	6423	6410	6391	
	6480	6468	6445	6430	
	6526	6504	6490	6472	
	6569	6548	6529	6506	
	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		568
Crash protection, UPVC, blue (art. no. 158994)	Each pair		258
Further controls and emergency openings			See from page 48
Accessories for operators and controls			See from page 50
RAL colour coating to choose			See page 52

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. 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	13549	13817	14086
	2750	13381	13644	13907
	2500	13213	13469	13730
	2250	13042	13297	13548
	2000	12872	13125	13368
		2000	2250	2500
		Clear width		

Optional extras

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

€ 272

Further controls and emergency openings

See from page 48

Accessories for operators and controls

See from page 50

RAL colour coating to choose

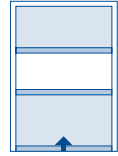
See page 52

Notes and sketches

V 4020 Protect

Internal door with tubular drive and certified pendulum impact test

For protecting people and machines



Self-supporting door construction with tubular drive, suitable for interior use, resistance to wind load in acc. with EN 12424 class 3.

Pendulum impact test in acc. with EN 150804 and EN 953.

Door travel speed (max.)

Frequency converter control

Open: Approx. 2.2 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 use in a temperature range from +5 °C to +40 °C.

For deviating temperatures,

please contact the factory!

Standard colours based on:

RAL 1081 Zinc yellow, RAL 2004 Pure orange, RAL 3002 Carmine red, RAL 5010 Gentian blue, RAL 7038 Agate grey.

Aluminium bottom profile.

Construction

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

Query of the door position via safety sensor cat. 4 (Schmersal rss-36-d-r-st) in the guide, one-sided. Other sensors on request.

Operator

Tubular drive operator with electromagnetic brake and limit switch Multiturn: emergency opening via ½ inch operator.

Protection category IP54, free choice of right or left arrangement of the operator on order.

Control

Control BK 150 FUE-1 in plastic control box, IP 6, 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.

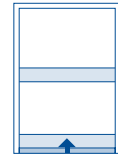
The standard equipment includes a galvanized steel straight shaft cover, two-part, painted in RAL 9006.

		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000
Clear height	4500	8885	8958	9030	9102	9174	9246	9318	9391	9463	9535	9607
	4250	8842	8913	8983	9054	9125	9196	9267	9338	9409	9480	9551
	4000	8797	8867	8937	9006	9076	9146	9216	9286	9356	9425	9495
	3750	8753	8822	8891	8958	9027	9096	9165	9234	9301	9370	9439
	3500	8708	8776	8844	8912	8978	9046	9114	9180	9248	9316	9383
	3250	8664	8731	8797	8864	8929	8996	9062	9128	9195	9261	9327
	3000	8620	8685	8750	8816	8880	8946	9011	9076	9141	9207	9271
	2750	8576	8639	8704	8768	8831	8896	8959	9023	9088	9151	9215
	2500	8531	8595	8657	8720	8782	8846	8908	8971	9033	9097	9160
	2250	8487	8549	8610	8672	8733	8796	8857	8919	8980	9042	9103
	2000	8442	8503	8563	8624	8684	8745	8805	8867	8927	8988	9048
	1750	8399	8458	8517	8577	8635	8695	8754	8814	8873	8932	8992
		1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000
		Clear width										

Safety sensors and optional extras	€ per door
Safety sensor Schmersal RSS260-D-ST	No surcharge
Safety sensor Schmersal BNS180-11Z	No surcharge
Safety switch Pilz PSN 8-0.15 m CS3	196
Safety sensor Euchner CES-AP-CL2-AH-SB	455
Safety sensor Pepperl+Fuchs NBN10-F33-E2-M	80
Safety sensor for querying the top end-of-travel position Pepperl+Fuchs NBN10-F33-E2-M	331
Side element extension	On request
Installation frame	On request
External control panel integrated at 1300 mm from FFL on the side element (operator side)	259
Further controls and emergency openings	See from page 48
Accessories for operators and controls	See from page 50

V 5030 MSL

Internal door for protecting people and machines



Self-supporting door construction, suitable for interior use, resistance to wind load in acc. with EN 12424 class 1 with certified pendulum impact test in acc. with EN 150704 and EN 953.

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.

Optionally 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. 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 × 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.

		2000	2250	2500	2750	3000	3250	3500	3750	4000
Clear height	4000	9209	9358	9510	9657	9805	12429	12578	12729	13051
	3750	9109	9255	9396	9543	9687	12182	12455	12598	12742
	3500	8837	8978	9119	9259	9396	9537	12028	12467	12603
	3250	8739	8872	9008	9143	9280	9415	9550	12208	12470
	3000	8637	8769	8903	9030	9165	9291	9424	9722	12207
	2750	8538	8664	8789	8917	9041	9170	9295	9593	9717
	2500	8436	8561	8681	8802	8925	9046	9169	9462	9585
	2250	8338	8455	8572	8690	8805	8925	9040	9329	9444
	2000	8234	8351	8462	8574	8687	8801	8913	9196	9310
		2000	2250	2500	2750	3000	3250	3500	3750	4000
Clear width										

Door versions:

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

Shaft cover made of galvanized material									€ each
Straight	308	333	360	385	412	440	463	492	515
Chamfered	321	349	376	404	429	459	487	512	541

Shaft covers in stainless steel, V2 A brushed									€ each
Straight	613	670	726	785	840	899	957	1016	1070
Chamfered	643	703	763	827	883	942	1006	1065	1124

Notice:

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

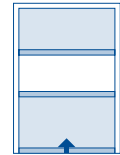
Safety sensors and optional extras		€ per door
Price reduction for the omission of safety sensors	Price reduction	463
Safety sensor CSS-14-34-S-D-M-ST (cat.4)		No surcharge
Safety sensor NBB20-L2-A2-V1		No surcharge
Safety switch PSEN cs1.19 1blk (cat. 4)		132
Safety sensor CES-A-C5H-01 (cat. 4)		404
Safety switch Sident /IV40fq50n20-11Sh1C (cat. 4)		605
Safety sensor for querying the top end-of-travel position safety sensor NBB20-L2-A2-V1		542
Side element extension to 1500 mm	Per m	159
Installation frame		On request
Operator covers		Each
Operator cover made of galvanized material	Straight	229
	Chamfered	273
Operator cover in stainless steel, V2 A	Straight	427
	Chamfered	454

Further controls and emergency openings	See from page 48
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Accessories for operators and controls	See from page 50
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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, 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 x H x D) = 180 x 320 x 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!

Clear height	3500	6206	6265	6325	6383	6437	6500	6554
	3250	6108	6162	6220	6277	6331	6389	6443
	3000 *	6006	6060	6116	6167	6226	6280	6336
	2750	5903	5957	6012	6066	6117	6169	6226
	2500	5804	5858	5908	5960	6012	6065	6116
	2250	5703	5754	5804	5857	5903	5954	6006
	2000	5604	5653	5701	5749	5795	5844	5893
		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	268	292	315	340	365	388	414
Chamfered	281	308	332	357	383	409	433

Shaft covers in stainless steel, V2 A brushed							€ each
Straight	499	549	601	652	702	755	802
Chamfered	529	582	638	692	747	801	857

Notice:

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

Operator covers		Each
Operator cover made of galvanized material	Straight	229
	Chamfered	273
Operator cover in stainless steel, V2 A	Straight	427
	Chamfered	454
Accessories for operators and controls		See from page 50
RAL colour coating to choose		See page 52

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. IP 65, operator side on 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
Clear height	4000	34137	34240	34343	34439	34532	34629	34723	34830	34931
	3750	34073	34167	34267	34358	34450	34547	34641	34739	34839
	3500	34042	34095	34189	34277	34368	34463	34555	34647	34738
	3250	33935	34020	34112	34204	34286	34380	34468	34553	34641
	3000	33868	33947	34035	34123	34213	34296	34380	34463	34547
	2750	33791	33865	33933	34029	34130	34228	34333	34394	34459
	2500	33724	33779	33831	33936	34042	34161	34284	34326	34368
	2250	33653	33715	33782	33871	33960	34054	34145	34205	34267
	2000	33582	33658	33730	33806	33876	33942	34004	34087	34161
		2000	2250	2500	2750	3000	3250	3500	3750	4000
Clear width										

Shaft cover made of galvanized material									€ each
Straight	308	333	360	385	412	440	463	492	515
Chamfered	321	349	376	404	429	459	487	512	541

Shaft covers in stainless steel, V2 A brushed									€ each
Straight	613	670	726	785	840	899	957	1016	1070
Chamfered	643	703	763	827	883	942	1006	1065	1124

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 65
Opening device:	Pull switch with 4 m cable	Art. no.: 159 765	Each	120
	Intrinsically safe connecting lead	Art. no.: 158 569	Per m	8
	EX Open-Close push button	Art. no.: 158 877	Each	719
	EX flashing warning light	Art. no.: 306 301	Each	2095
	EX photocell	Art. no.: 159 047	Each	2251
	Surface-mounted EX Open-Stop push button with housing	Art. no.: 159 046	Each	1037
Operator covers				Each
Operator cover made of galvanized material				Straight 229
				Chamfered 273
Operator cover in stainless steel, V2 A				Straight 427
				Chamfered 426
RAL colour coating to choose				See page 52

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 cabinet, 1-phase, 230 V, IP 65	Optional / standard		Standard	Optional		
	Max. opening speed		Faster than 4 m/s	1.0 m/s		
	Max. closing speed		1.0 m/s	0.5 m/s		
	Restriction			Max. 9 m² 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		128 €	128 €		
Lockable main switch + emergency-off button for BK 150 FUE-1 *	Article no.		4991939 + 4982399	4991939 + 4982399		
	Surcharge		254 €	254 €		
AK 500 FUE-1 Frequency converter control in a plastic cabinet, 3-phase, 400 V, IP 65	Optional / standard	Standard		Standard	Standard	
	Max. opening speed	3.5 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	4991970	
	Surcharge					
Extension PCB For control BK 150 FUE-1 / AK 500 FUE-1	Optional / standard	Optional	Optional	Optional	Optional	
	1-relay	Article no.	4982404	4982404	4982404	
		Surcharge	205 €	205 €	205 €	
	6-relay	Article no.	4982405	4982405	4982405	
		Surcharge	778 €	778 €	778 €	
Emergency opening						
Emergency crank handle	Optional / standard					
BS 150 FUE-1 UPS Emergency opening via UPS in a steel cabinet, 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 m² door size, depending on dimensions, on request only		
	Article no.		4991936	4991936		
	Surcharge		1584 €	1584 €		
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 m² door size, depending on dimensions, on request only		
	Article no.		4991935	4991935		
	Surcharge		1266 €	1266 €		
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.					
Emergency hand chain All-round 2 m	Optional / standard	Standard	Standard	Standard	Standard	
	Article no.					
Secured release	Optional / standard		Standard			
	Article no.					
	Surcharge					
	Surcharge					

* 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

	HS 5015 PU N 42	HS 5015 PU H 42	HS 6015 PU V 42	HS 5015 Acoustic H HS 6015 Acoustic V HS 7030 Acoustic	Iso Speed Cold 100 H	Iso Speed Cold 100 V
	Optional	Optional	Optional			
	1.0 m/s	1.0 m/s	1.0 m/s			
	0.5 m/s	0.5 m/s	0.5 m/s			
	Max. 9 m ² door size, depending on dimensions, on request only		Max. 9 m ² door size, depending on dimensions, on request only			
	4991937	4991937	4991937			
	No surcharge	No surcharge	No surcharge			
	4991939	4991939	4991939			
	128 €	128 €	128 €			
	4991939 + 4982399	4991939 + 4982399	4991939 + 4982399			
	254 €	254 €	254 €			
	Standard	Standard	Standard	Standard	Standard	Standard
	2.5 m/s	2.5 m/s	2.5 m/s	2.5 m/s	2.0 m/s	2.0 m/s
	0.5 m/s	0.5 m/s	0.5 m/s	0.5 m/s	0.4 m/s	0.4 m/s
	4991970	4991970	4991970	4991970	4991970	4991970
	Optional	Optional	Optional	Optional	Optional	Optional
	4982404	4982404	4982404	4982404	4982404	4982404
	205 €	205 €	205 €	205 €	205 €	205 €
	4982405	4982405	4982405	4982405	4982405	4982405
	778 €	778 €	778 €	778 €	778 €	778 €
	Optional		Optional			
	1.0 m/s		1.0 m/s			
	0.8 m/s		0.8 m/s			
	Max. 9 m ² door size, depending on dimensions, on request only		Max. 9 m ² door size, depending on dimensions, on request only			
	4991936		4991936			
	1584 €		1584 €			
	Max. 9 m ² door size, depending on dimensions, on request only		Max. 9 m ² door size, depending on dimensions, on request only			
	4991935		4991935			
	1266 €		1266 €			
	Standard	Standard	Standard	Standard	Standard	Standard

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	V 6020 TRL	
Frequency converter control								
BK 150 FUE-1 Frequency converter control in a plastic cabinet, 1-phase, 230 V, IP 65	Optional / standard	Standard		Standard	Standard	Standard	Standard	
	Max. opening speed	2.2 m/s		1.5 m/s	2.0 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	0.5 m/s	
	Restriction						See size range on page 34	
	Article no.	4991937		4991937	4991937	4991937	4991937	
	Surcharge							
Lockable main switch for BK 150 FUE-1	Article no.	4991939		4991939	4991939	4991939	4991939	
	Surcharge	128 €		128 €	128 €	128 €	128 €	
Lockable main switch + emergency-off button for BK 150 FUE-1 *	Article no.	4991939 + 4982399		4991939 + 4982399	4991939 + 4982399	4991939 + 4982399	4991939 + 4982399	
	Surcharge	254 €		254 €	254 €	254 €	254 €	
AK 500 FUE-1 Frequency converter control in a plastic cabinet, 3-phase, 400 V IP 65	Optional / standard				Optional	Optional	Standard	
	Max. opening speed				3.0 m/s	3.0 m/s	2.0 m/s	
	Max. closing speed				0.8 m/s	0.8 m/s	0.5 m/s	
	Restriction						See size range on page 31	
	Article no.				4991970	4991970	4991970	
	Surcharge				1907 €	1907 €		
Extension PCB For control BK 150 FUE-1 / AK 500 FUE-1	Optional / standard	Optional		Optional	Optional	Optional	Optional	
	1-relay Article no.	4982404		4982404	4982404	4982404	4982404	
	Surcharge	205 €		205 €	205 €	205 €	205 €	
	6-relay Article no.	4982405		4982405	4982405	4982405	4982405	
	Surcharge	778 €		778 €	778 €	778 €	778 €	
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 1/2 inch operator	Optional / standard		Standard	Standard	Standard	Standard	Standard	
BS 150 FUE-1 UPS Emergency opening via UPS in a steel cabinet, 1-phase, 230 V, IP 65	Optional / standard	Optional		Optional	Optional	Optional	Optional	
	Max. opening speed	1.5 m/s		1.5 m/s	2.0 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	0.5 m/s	
	Restriction						See size range on page 34	
	Article no.	4991936		4991936	4991936	4991936	4991936	
	Surcharge	1584 €		1584 €	1584 €	1584 €	1584 €	
BK-UPS Emergency opening via UPS in a separate plastic control box, 1-phase, 230 V, IP 30	Optional / standard	Optional		Optional	Optional	Optional	Optional	
	Max. opening speed	1.5 m/s		1.5 m/s	2.0 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	0.8 m/s	
	Restriction							
	Article no.	4991935		4991935	4991935	4991935	4991935	
	Surcharge	1266 €		1266 €	1266 €	1266 €	1266 €	
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.							
Emergency hand chain	Optional / standard			Optional	Optional	Optional	Optional	
	Article no.			159169	159169	159169	159169	
	Surcharge			427 €	427 €	427 €	427 €	

* 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 10008	V 4020 Protect	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
		2.2 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
		0.8 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 43		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
								935 €	
		4991939	4991939	4991939	4991939	4991939	4991939	4991939	
		128 €	128 €	128 €	Standard	Standard	Standard	128 €	Standard
		4991939 + 4982399	4991939 + 4982399	4991939 + 4982399	4991939 + 4982399	4991939 + 4982399	4991939 + 4982399	4991939 + 4982399	
		254 €	254 €	254 €	Standard	Standard	Standard	254 €	Standard
	Standard		Standard						
	1.5 m/s		1.5 m/s						
	0.4 m/s		0.8 m/s						
			See size range on page 43						
	4991970		4991970						
			1907 €						
	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	4982404	4982404	4982404	4982404	4982404	4982404	4982404	4982404	4982404
	205 €	205 €	205 €	205 €	205 €	205 €	205 €	205 €	205 €
	4982405	4982405	4982405	4982405	4982405	4982405	4982405	4982405	4982405
	778 €	778 €	778 €	778 €	778 €	778 €	778 €	778 €	778 €
								Standard AKE light	
								0.8 m/s	
								0.8 m/s	
								157 240	
								–	
								Optional	
								157417	
								448 €	
			Standard	Standard			Standard	Standard	Standard
		Standard							
		Optional	Optional	Optional	Optional		Optional		Optional
		1.5 m/s	1.5 m/s	1.5 m/s	1.2 m/s		1.5 m/s		1.5 m/s
		0.8 m/s	0.8 m/s	0.5 m/s	0.5 m/s		0.5 m/s		0.8 m/s
					Stainless steel		Stainless steel		
		4991936	4991936	4991936	4991936		4991936		4991936
		1584 €	1584 €	1584 €	1584 €		1584 €		1584 €
		Optional	Optional	Optional					Optional
		1.5 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					
		1266 €	1266 €	1266 €					
						Standard			
	Standard	Optional	Optional	Optional					
		159169	159169	159169					
		427 €	427 €	427 €					

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	70
4982349	Surface-mounted Open / Emergency-off / Close push button	121
4982402	Mushroom button	128
4982563	Key switch APB 1-1 R with PHZ, function Open-Close push-to-lock	124
4982564	Key switch AP, one-sided on / off push-to-lock contact with Open-Close push button	192
4982436	Key switch APB 1-2 with PHC, function Open-Close	148
4982565	Key switch UPB 1-2 T with PHC, function Open-Close	130
4982419	Radar button Magic Switch Chroma	221
4982566	Radar button HTR 1-24, 24 V	161
Pull switch		€
4982567	Pull switch with 15 m snap cable and 4 m cord, Ø 8 mm	144
4982560	Pull switch with cable D8 L4000*	120
4982339	Galvanized steel cantilever arm, 0.9 m	166
4982570	Galvanized steel cantilever arm, length adjustable up to 1.5 m	231
4982338	Galvanized steel cantilever arm, length adjustable up to 3 m	343
4982337	Stainless steel cantilever arm, length adjustable up to 3 m	515
4982571	Swivelling cantilever arm 3 m	484
Radio opening device		
4982568	Radio receiver, without battery, opening device (required 1 x per door system)	280
4982569	Radio pull switch without battery with 4 m cable, Ø 8 mm	210
4982841	Radio mushroom button in housing	159
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, BS, 868.3 MHz, 1 command (external)	141
4982578	Circuit board for receiver HET-E2 868-BS	160
Laser		€
4982579	Scanprotect, max. fitting height 8000 mm with 5 m connecting cable*	973
4982430	Scanprotect, max. fitting height 8000 mm with 10 m connecting cable*	973
Detection field Scanprotect: detection field depth: fitting height x 1.2 and detection field width. Fitting height x 1		
Radar		€
4982580	Radar movement detector Comfort (interior functions: radar and presence; exterior functions: radar) Fitting height 3.5 – 6.0 m	610
4982581	Radar / movement detector Comfort Mini Fitting height 2.0 – 3.5 m	459
4982582	Multi remote control opening device	100
4982583	Radar movement detector MWD C with 5 m connecting cable*	499
4982416	Radar movement detector MWD C with 10 m connecting cable*	499
Holder for Scanprotect and radar		€
4982364	Holder for opening device, galvanized steel, 4 mm	98
Induction loop		€
4982434	Loop wire with connecting lead, 100 m	181
4982372	Induction detector TST SUVEK, 1-channel induction detector	681
4982373	Induction detector TST SUVEK, 2-channel induction detector	795
Photocell / light grille		€
4982425	Photocell with reflector, as a safety device *	422
4982394	Photocell WS / WE 27-2 F 450, heatable, complete with support bracket and reflector *	1245
4982584	Light grille ILG, 510 mm high, with 10 m cable *	670
4982392	Light grille ELG, 1490 mm high, crossed, beam distance 60 mm, cables 1 x 10 m and 1 x 15 m *	1392
4982391	Light grille, 2150 mm high, crossed, beam distance 60 mm, cables 1 x 10 m and 1 x 15 m *	1714

* 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)	150
4981720	LED light strip is illuminated in red, green, blue, 2000 mm long, IP 67	586
4982585	Traffic light housing LED 230 V AC red / green*	214
4982586	Traffic light housing LED 230 V AC red*	127
4982587	Traffic light housing LED 230 V AC green*	127
4982341	Orange flashing warning light 230 V AC*	174
4982342	Red flashing warning light 230 V AC*	174
4982428	Rotating warning light 230 V AC, red*	450
4982427	Rotating warning light 230 V AC, yellow*	450

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 311
4982562	Intermediate stop via person recognition * (Programming only! Opening device must be ordered separately)	Each 293
4982360	Lock controller * between two Hörmann high-speed doors	Per door 613
4982459	Interdependent locking * between two doors	Per door 548
4982441	Summer / winter switching (only in combination with lock controller)	Each 325
4982411	Cross traffic function *	On request
4982368	Main switch, 4-pin, 25 A H 225 in connecting lead	Each 159
4991662	External control element, including connection circuit board and surface-mounted frame, cable length 6.5 m *	Each 259
4982361	Gearbox heater integrated into the operator *	Surcharge 349
4982589	Selection switch on the control box for special programming (on request) *	Each 311
4982590	Key switch on the control box for special programming (on request) *	Each 331
4980358	Plain text display LED in 5 languages (German, English, Spanish and French)	160

Cable

4982383	Motor / control cable extension per metre	39
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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.

4991960	Snap cable 15 m	33
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Smart 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.

Annual net usage fees for SmartControl (no discount available)		
639351	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.	
	Circuit boards for all frequency converter controls	271
4982276	Antenna adhesive foot for signal amplification	36
4982593	Antenna magnetic foot for signal amplification	35
4982278	Antenna fitting bracket for signal amplification	94

* 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		514
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		763
Crash protection			€
4982420	Impact absorber profile, Ø 159, 700 mm high	Each	499
4982596	Crash protection, pair, cylindrical, Ø 133 mm, 150 mm high	Each pair	108
4982347	Crash protection, UPVC, blue	Each pair	258
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	1407
		Up to LDB ≤ 4000 mm and LDH ≤ 4000 mm	1764
		Up to LDB ≤ 5000 mm and LDH ≤ 5000 mm	2125
		Up to LDB ≤ 5000 mm and LDH ≤ 6000 mm	2662
	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 ×	221
Colour coating			€
4982355	Shaft and operator cover in RAL to choose; exceptions: HS and Iso Speed Cold doors	Per door	429
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	228
4982598	For V 10008, HS 7030 PU 42 and HS 5012 PU 42 S: Shaft and operator cover in RAL to choose	Per door	693
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	516
4982354	Side elements in RAL to choose; exceptions: HS and Iso Speed Cold doors	Per door	636
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	390
4982601	For V 10008, Iso Speed Cold 100 and HS doors: Side elements in RAL to choose	Per door	806
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	679
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	267
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	223
4982605	Door sections colour-coated on both sides for Iso Speed Cold 100 doors	Per m²	267
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	223
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	267
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	223

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	93
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	397
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	91
	Curtains in special colours in RAL to choose, curtain thickness 0.9 mm, only for internal doors without tensioning mechanism		Per door	459
Box sections (galvanized steel, warehouse goods only)				€
4982424	6 m box sections 3 × 80 × 60 mm		Each	228
4982421	6 m box sections 3 × 120 × 60 mm		Each	282
4982613	6 m box sections 3 × 120 × 80 mm		Each	384
4982422	6 m box sections 3 × 160 × 80 mm		Each	420
4982423	6 m box sections 3 × 200 × 80 mm		Each	588
* Accessories compatible with V 4008 SEL				

Optional extras

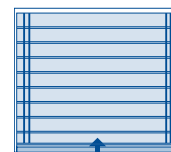
For V 3010

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		445
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		788
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.		559
4842224	Curtain imprint over the entire surface (printed on RAL 9005 Jet black)		1029
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		331
Control			
4842225	AKE 370 M-I	Standard	
4842226	AKE 370 M (IP 65)	Optional	445
4842230	BK 370 M FUE-1 (IP 65)	Optional	1268
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	134
4842308	Cable set AKE	15 m	198
BK 370 M FUE-1			
4842303	Cable set FU	10 m	134
4842310	Cable set FU	15 m	198
Buttons / switches			
4842017	2-way push button	Each	161
4842018	3-way push button	Each	180
4842019	Mushroom button	Each	77
4842020	Pull switch with cable	Each	117
4842021	Loop wire	Each	338
4842022	4-button hand transmitter	Each	117
4842023	Radio receiver	Each	207
4842024	Radar sensor	Each	536
4842025	Rotating warning light 230 V AC	Each	164
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		1252

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 kW.

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 70.

		Clear width							
		2250	2500	2750	3000	3250	3500	3750	4000
Clear height	5500	17837	18000	18292	18578	18875	19161	19421	19714
	5250	17627	17786	18045	18299	18562	18817	19054	19313
	5000	17313	17523	17742	17961	18185	18403	18614	18930
	4750	16795	16983	17170	17358	17546	17733	18396	18835
	4500	16496	16359	16726	16954	17265	17373	18128	18452
	4250	16467	16215	16510	16771	17065	17165	17841	18118
	4000	15802	16074	16336	16602	16862	16956	17557	17812
	3750	15678	15939	16188	16443	16689	16769	17296	17545
	3500	15024	15263	15496	15733	15968	16193	16444	16671
	3250	14597	14822	15046	15272	15493	15718	16424	16649
	3000	14073	14288	14496	14707	14919	15130	15344	15547
	2750	13894	14096	14301	14496	14699	14900	15328	15535
	2500	13344	13865	14060	14241	14433	14619	14807	15022
	2250	13170	13682	13857	14038	14210	14380	14786	15002
		2250	2500	2750	3000	3250	3500	3750	4000

Notice:

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

Other curtain colours

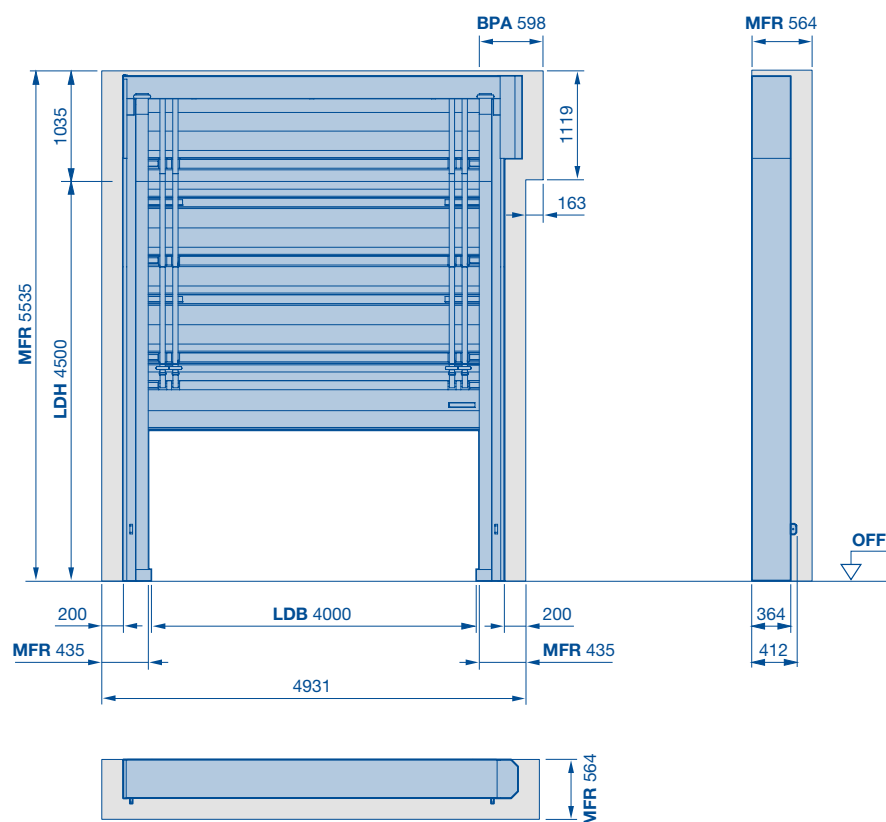
See from page 70

Accessories for operators and controls

See from page 68

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 × 280 mm) or oval vision fields (370 × 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 kW.

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 × H × D) = 180 × 320 × 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 × 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.

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 70.

		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
Clear height	6000	10080	10188	10409	10589	10761	10946	11119	11258	11434	11617	11795	11971	12153	12333	12508	12689	12869
	5750	9976	10077	10282	10449	10608	10781	10940	11075	11240	11405	11570	11737	11901	12067	12228	12394	12560
	5500	9868	9971	10156	10307	10454	10612	10759	10886	11039	11191	11345	11495	11646	11797	11952	12104	12254
	5250	9764	9863	10030	10167	10303	10444	10580	10702	10840	10978	11118	11254	11395	11533	11671	11810	11949
	5000	9657	9756	9900	10025	10148	10277	10401	10516	10641	10767	10893	11015	11140	11267	11391	11517	11640
	4750	9553	9647	9772	9884	9993	10107	10219	10329	10445	10556	10666	10779	10889	11000	11111	11223	11335
	4500	9445	9537	9646	9743	9841	9940	10038	10146	10243	10340	10442	10537	10634	10736	10831	10930	11029
	4250	9344	9433	9536	9632	9732	9825	9924	10030	10118	10227	10321	10414	10509	10604	10698	10792	10888
	4000	9237	9326	9431	9521	9620	9711	9807	9913	9996	10105	10194	10289	10384	10478	10572	10667	10764
	3750	9145	9234	9336	9422	9517	9609	9700	9802	9887	9988	10081	10173	10266	10357	10453	10544	10637
	3500	8572	8679	8803	8916	9028	9144	9253	9369	9481	9596	9707	9817	9927	10036	10144	10251	10357
	3250	8207	8307	8418	8524	8640	8748	8860	8979	9095	9211	9327	9442	9557	9671	9785	9898	10011
	3000	8083	8180	8287	8392	8500	8597	8703	8811	8918	9025	9132	9239	9346	9452	9558	9664	9770
	2750	7978	8065	8168	8272	8369	8471	8572	8673	8774	8875	8976	9077	9178	9279	9380	9481	9582
	2500	7821	7907	8005	8101	8197	8293	8387	8487	8587	8687	8787	8887	8987	9087	9187	9287	9387
	2250	7709	7795	7899	7983	8075	8170	8253	8351	8448	8545	8642	8739	8836	8933	9030	9127	9224
		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

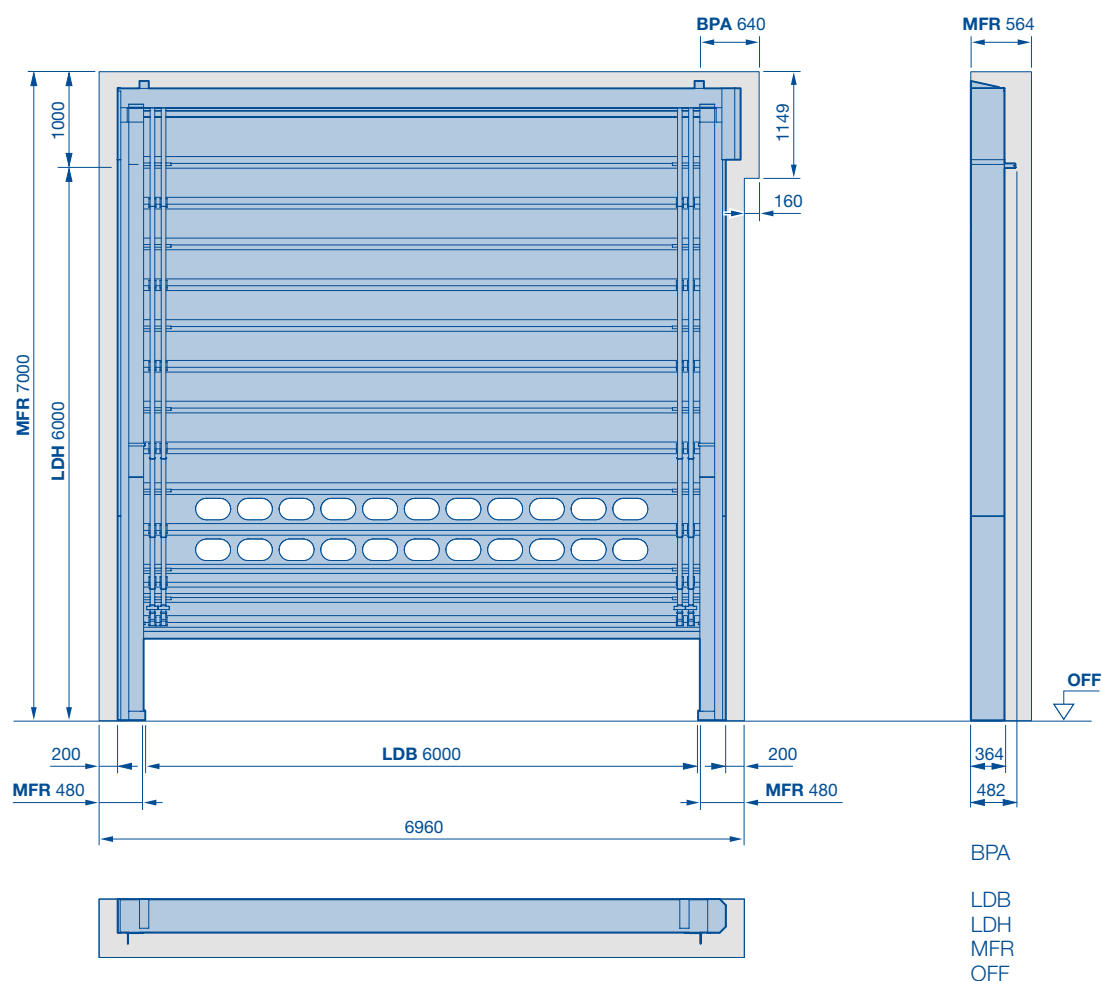
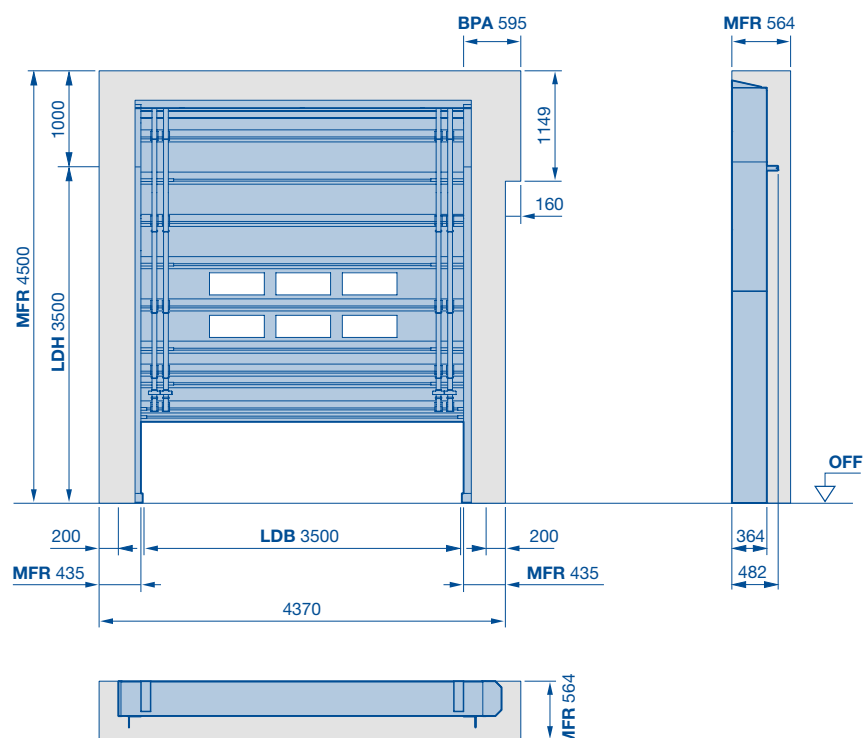
Other curtain colours See from page 70

Optional extras		€
Light section with rectangular windows up to 4000 mm clear door width	Per row	235
Light section with rectangular windows from 4000 mm, up to 6000 mm clear door width	Per row	317
Light section with oval windows up to 4000 mm clear door width	Per row	258
Light section with oval windows from 4000 mm, up to 6000 mm clear door width	Per row	341

Accessories for operators and controls See from page 68

F 6010

Fitting clearances

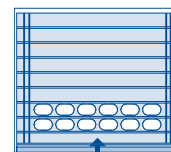


BPA
 LDB
 LDH
 MFR
 OFF

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

F 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 × 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 kW.

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 × H × D) = 180 × 320 × 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 × 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.

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 70.

		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
Clear height	6000	12209	12314	12612	12867	13112	13371	13619	13833	14085	14339	14592	14844	15098	15352	15606	15858	16113
	5750	12050	12155	12434	12674	12907	13153	13387	13597	13835	14075	14316	14557	14795	15038	15274	15513	15753
	5500	11861	11963	12222	12448	12670	12903	13124	13326	13553	13777	14007	14230	14457	14684	14912	15138	15362
	5250	11675	11772	12014	12226	12437	12651	12862	13059	13273	13485	13700	13910	14125	14335	14551	14764	14976
	5000	11511	11610	11826	12026	12225	12427	12625	12813	13015	13215	13414	13611	13813	14013	14212	14413	14610
	4750	11328	11421	11621	11807	11993	12180	12365	12550	12739	12926	13111	13298	13483	13669	13856	14041	14226
	4500	11167	11256	11439	11613	11784	11957	12131	12312	12485	12655	12831	13003	13175	13348	13521	13691	13866
	4250	10998	11088	11266	11434	11613	11777	11950	12132	12295	12478	12646	12813	12984	13153	13320	13490	13658
	4000	10810	10896	11077	11241	11413	11580	11750	11929	12089	12271	12435	12604	12775	12941	13110	13282	13450
	3750	10660	10746	10920	11085	11253	11420	11586	11761	11921	12096	12263	12365	12598	12765	12933	13100	13267
	3500	10020	10126	10325	10511	10701	10891	11071	11585	11749	11920	12085	12313	12416	12579	12746	12909	13075
	3250	9591	9690	9876	10057	10246	10430	10615	11409	11570	11742	11905	12064	12228	12392	12553	12719	12879
	3000	9401	9497	9680	9860	10040	10215	10394	11243	11403	11573	11730	11931	12095	12258	12419	12579	12739
	2750	9232	9319	9495	9676	9846	10023	10198	11075	11231	11391	11549	11745	11904	12067	12235	12403	12575
	2500	9015	9102	9275	9445	9615	9786	9955	10912	11065	11228	11382	11576	11731	11890	12045	12205	12361
	2250	8840	8926	9102	9263	9428	9599	9756	10737	10889	11051	11202	11359	11515	11668	11826	11981	12138
		2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
		Clear width																

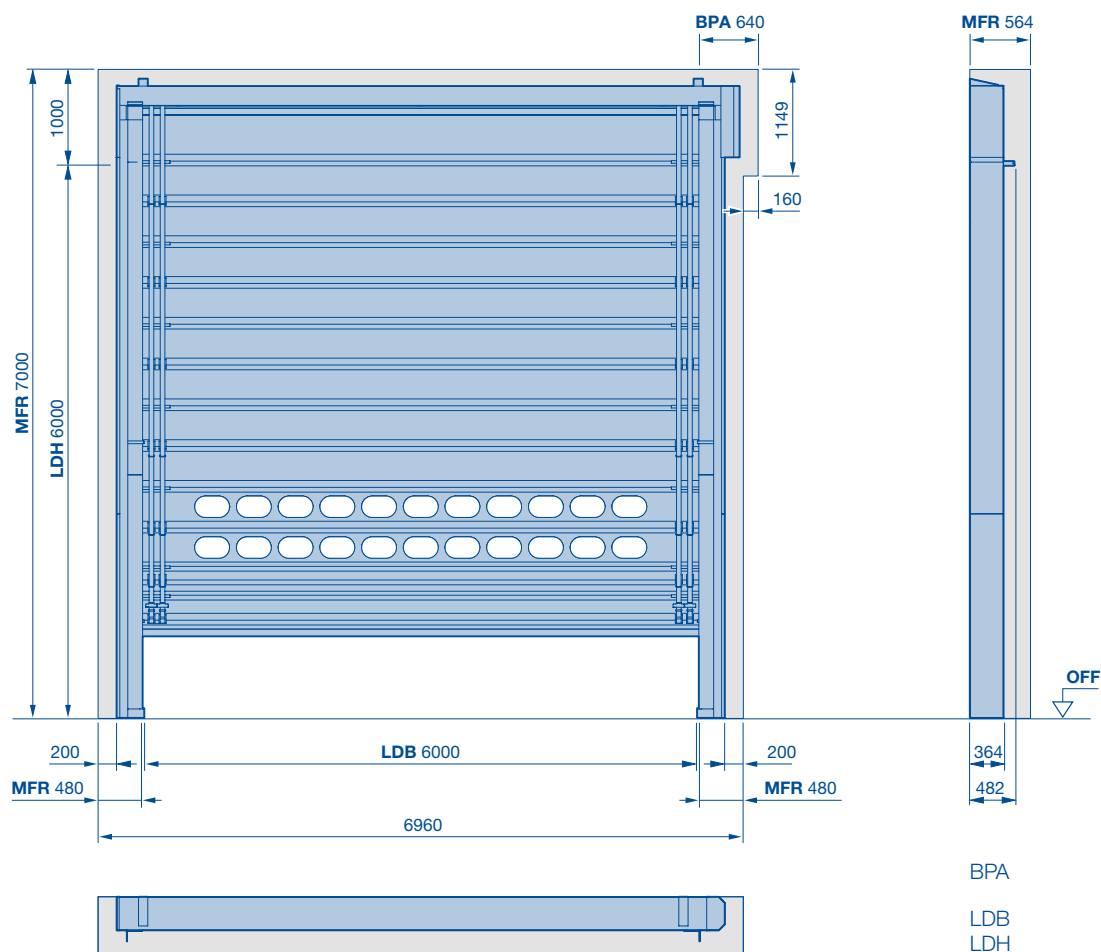
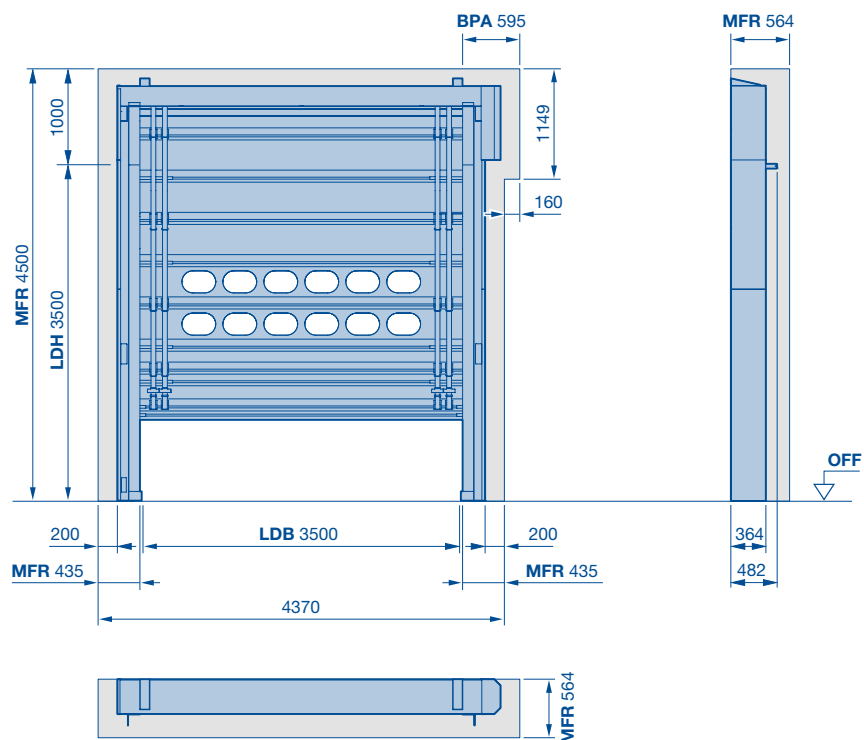
Notice:

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

Other curtain colours		See from page 70
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 68

F 6010 Iso

Fitting clearances

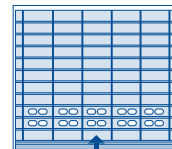


BPA
LDB
LDH
MFR
OFF

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

F 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.

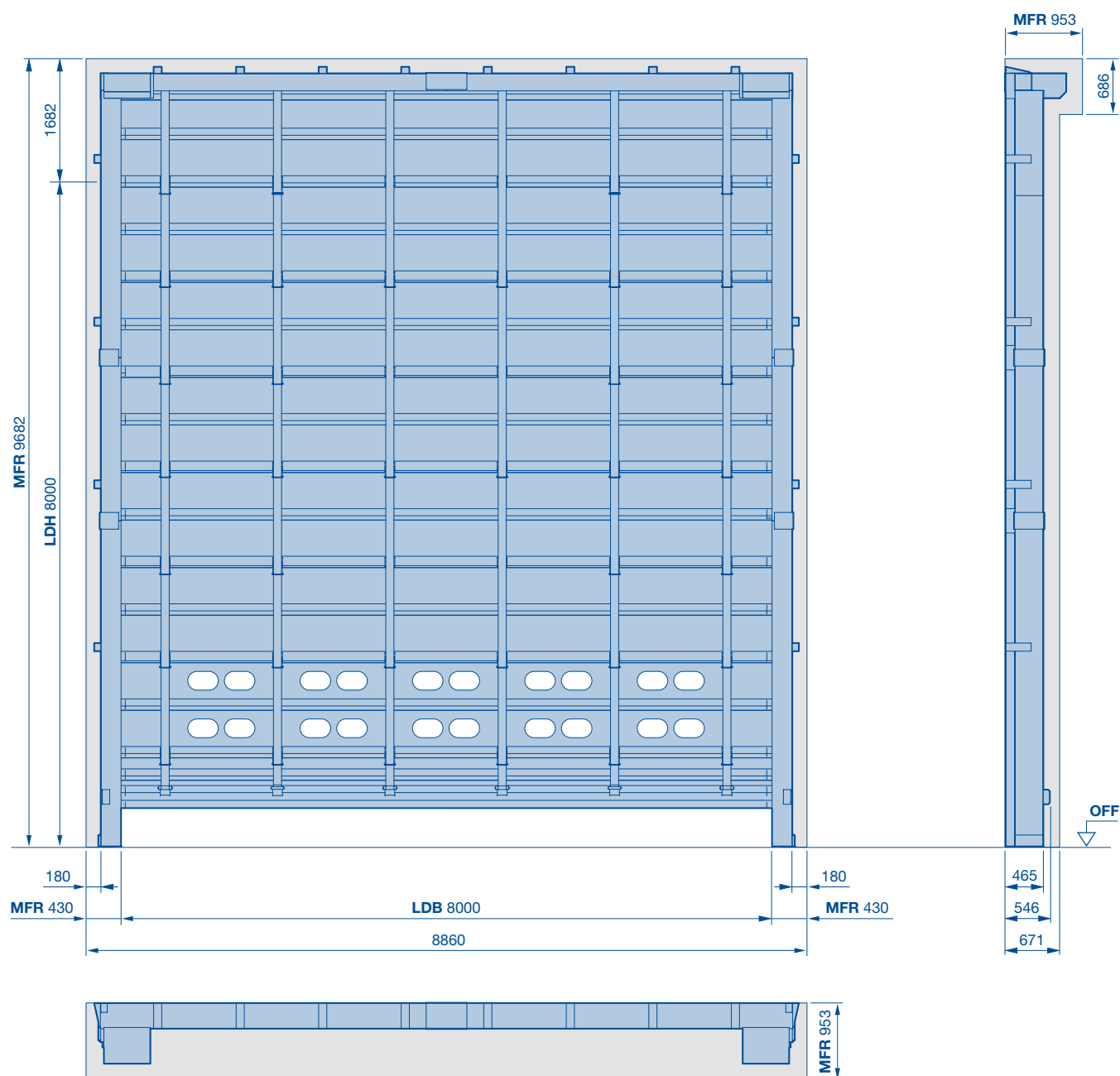
	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000
10000	24184	25306	26088	27842	28332	29391	30500				
9500	23517	24588	25415	27139	27591	28468	29771				
9000	22851	23867	24739	26435	26849	27750	29039	29464			
8500	22184	23148	24043	25694	26108	27028	28298	28936	29120		
8000	21536	22455	22971	24530	24953	25849	27060	27824	28237	28521	28896
7500	20716	21780	22336	23853	24295	25196	26381	27172	27614	28102	28269
7000	20087	21125	21701	23194	23663	24561	25728	26539	26996	27207	27300
6500	19825	20498	21102	22562	23065	23956	25088	25923	26176	26434	26474
6000	See F 6010 on page 58							23495	25001	25228	25448
5500								23015	23803	24149	24798
5000								22556	23275	23668	24116
4500								22119	22771	22999	23485
4000								21701	22339	22606	22873
3500								21539	22168	22428	22646
3000								21393	22015	22274	22405

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	259
Light section with oval windows from 4000 mm, up to 6000 mm clear door width	Per row	341
Light section with oval windows from 6000 mm, up to 8000 mm clear door width	Per row	435
Accessories for operators and controls		See from page 68

F 8005

Fitting clearances

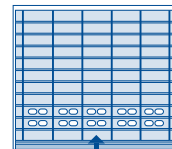


BPA
LDB
LDH
MFR
OFF

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				54045	55533	53984	54763	55208	57492	57987		
	8000	See F 8005 on page 58							54762	57041	57531	58791	
	7500								53624	55879	56347	57585	
	7000								51353	53585	54028	55243	55686
	6500	See F 6010 on page 58							50217	52424	52844	54034	54455
	6000								45553	47732	48127	49289	49684
	5500								44158	46314	46685	47825	48195
	5000								43914	46065	46432	47567	47933
	4500								42648	44779	45121	46230	46571
	4000								41512	43617	43936	45021	45340
	3500								41153	43239	43553	44635	44948
	3000								40004	42079	42367	43429	43720
		3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500
		Clear width											

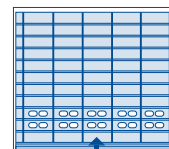
Wind class 2	
Wind class 3	Not available
Wind class 4	On request

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	259
Light section with oval windows from 4000 mm, up to 6000 mm clear door width	Per row	341
Light section with oval windows from 6000 mm, up to 8000 mm clear door width	Per row	435
Accessories for operators and controls		See from page 68

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 × 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.

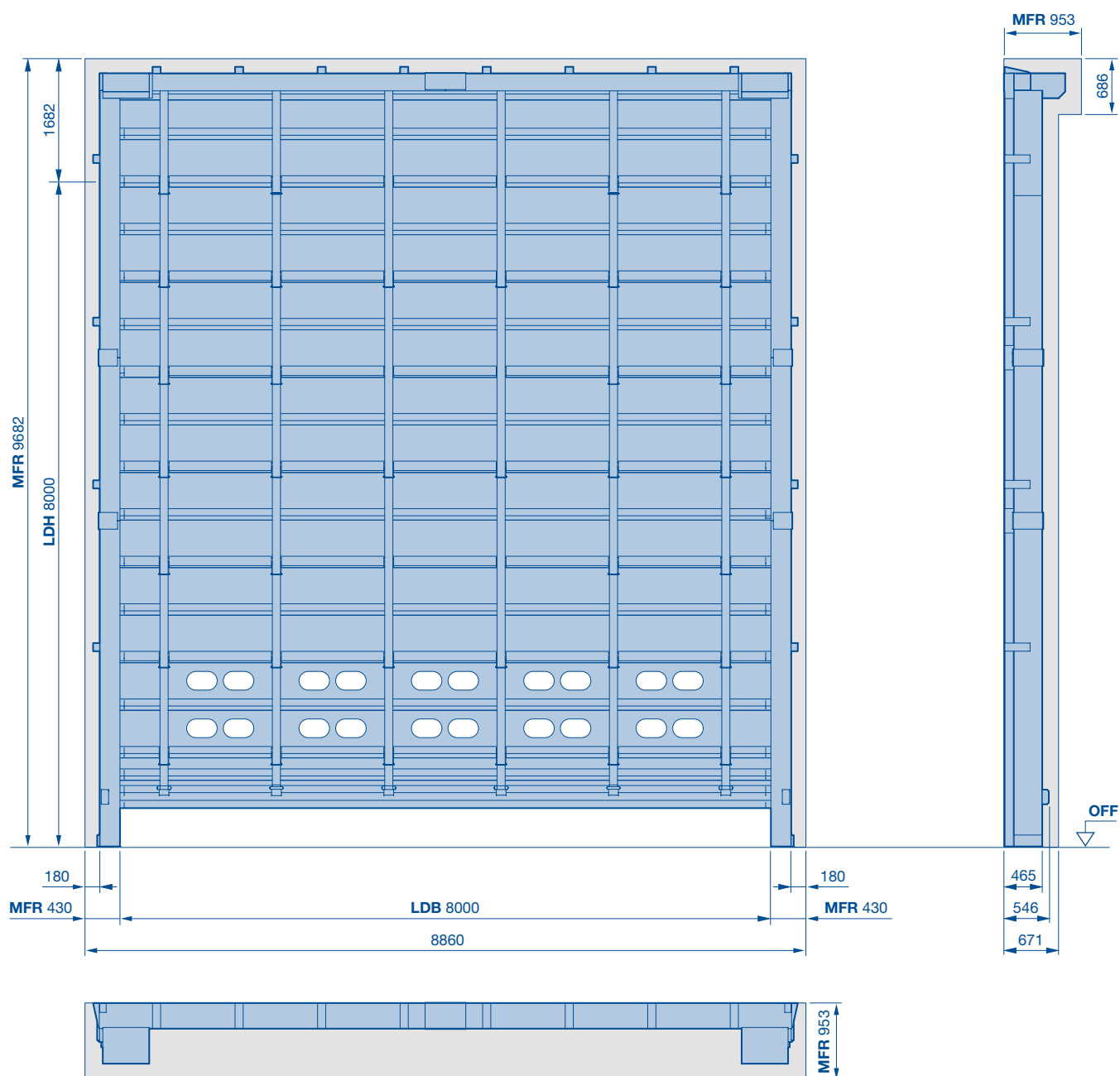
	9000	9500	10000	10500	11000	11500	12000	12500	13000	13500	14000	
												10000
												9500
												9000
												8500
												8000
												7500
												7000
												6500
	54876											6000
	50077	50472	51077									5500
	48565	48936	49498	49747								5000
	48296	48664	49221	49587	49952	50316	50683					4500
	46913	47256	47773	48115	48456	48798	49140	50808	51149			4000
	45660	45978	46452	46772	47090	47409	47726	49370	49688	50160	50478	3500
	45262	45576	46046	46358	46673	46986	47300	48937	49252	49717	50031	3000
	44006	44296	44726	45016	45306	45596	45886	47499	47789	48233	48524	
	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	517
Light section with oval windows up to 10000 mm, up to 12000 mm clear door width	Per row	616
Light section with oval windows up to 12000 mm, up to 14000 mm clear door width	Per row	719
Accessories for operators and controls		See from page 68

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	138
4842027	Motor / control cable extension to 15 m	Each	307
Cable extension for frequency converter controls for F 4010 Cold, F 6010 and F 6010 Iso			€
4842028	Motor / control cable extension to 10 m		138
4842029	Motor / control cable extension to 15 m		307
4842030	Motor / control cable extension to 20 m		478
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		331
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		559
	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		331
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		2654
4842234	Integrated control option: Control AKE 2500 M-I as well as motor S3-2.5-3300-1-24-M	Surcharge		1551
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		221
4842058	Heating system option for the motor with control AKE: Motor S3-1,8-90-30-40-DES NHKK*	Surcharge for motor		221
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		2806
4842233	Control AK E 750 M (IP 65) as well as motor S3-1.1-3000-1-24-M	Each		1750
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		161
4842018	3-way push button	Each		180
4842019	Mushroom button	Each		77
4842020	Pull switch with cable	Each		117
4842021	Loop wire	Each		338
4842022	4-button hand transmitter	Each		117
4842023	Radio receiver	Each		207
4842024	Radar sensor	Each		536
4842025	Rotating warning light 230 V AC	Each		164

Notes and sketches

HPP-180

Single leaf double-action door made of polyethylene

with 180° opening angle



Double-action door with self-closing stainless steel hinges, suitable for indoor use, hinges with or without 90° locking device and optionally adjustable in middle position

Door leaf

From 15 mm thick moulded PE 500, this door type is suitable for use in a temperature range from -30 °C to +60 °C.
Width 400 – 1600 mm
Height 1800 – 4600 mm
(from 3200 mm height on request)

Standard colours based on:

Granite, RAL 9017 Traffic black,
RAL 9010 Pure white, RAL 7037 Dusty grey,
RAL 7035 Light grey, RAL 7024 Graphite grey,
RAL 6024 Traffic green, RAL 5010 Gentian blue,
RAL 3000 Flame red, RAL 1018 Zinc yellow

Wall fixing

Four different fixing types to suit the fitting situation concerned

Hinges

2 × 90° opening angle
Spring force adjustable

Standard:

Stainless steel V2 A

Optional:

Stainless steel V4 A

Window

Flush-fitting, from 15 mm thick acrylic glass, middle of window 1550 mm from the bottom edge of the door leaf, window width depending on door leaf width, standard 400 × 600 mm rectangular (with rounded edges)

Without surcharge:

400 mm, round

Other shapes and sizes under accessories

Finger protection

Optional:

With PVC finger guard at door height or from 900 mm up to the top edge of the door leaf, transparent or black

Optional:

cold temperature resistant (only transparent)

Impact absorber profile

Optional:

With PE impact absorber strip (15 mm PE, bolted to the door leaf on both sides) or spring impact absorber (5 mm PE, curved, black, bolted to the door leaf on both sides)

		Clear width																				
		600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350*	1400*	1450*	1500*	1550*	1600*
Clear height	3200	1803	1835	1867	1899	1931	1964	1996	2028	2060	2324	2357	2389	2421	2453	2485	2517	2549	2582	2614	2888	2921
	3100	1791	1822	1853	1884	1915	1946	1978	2009	2040	2303	2334	2366	2397	2428	2459	2490	2521	2552	2584	2856	2888
	3000	1779	1809	1839	1869	1899	1929	1960	1990	2020	2050	2080	2342	2373	2403	2433	2463	2493	2523	2553	2824	2855
	2900	1767	1796	1825	1854	1883	1912	1941	1971	2000	2029	2058	2319	2349	2378	2407	2436	2465	2494	2523	2792	2822
	2800	1738	1767	1796	1824	1853	1882	1911	1940	1969	1998	2027	2056	2085	2114	2379	2408	2437	2466	2495	2760	2789
	2700	1725	1753	1781	1809	1837	1865	1893	1921	1948	1976	2004	2032	2060	2088	2352	2380	2408	2436	2464	2728	2756
	2600	1713	1740	1767	1794	1820	1847	1874	1901	1928	1955	1982	2008	2035	2062	2089	2116	2143	2406	2433	2460	2487
	2500	1464	1490	1516	1778	1804	1830	1855	1881	1907	1933	1959	1985	2010	2036	2062	2088	2114	2376	2402	2428	2454
	2400	1452	1476	1501	1526	1551	1576	1600	1862	1886	1911	1936	1961	1986	2010	2035	2060	2085	2346	2371	2396	2420
	2300	1439	1463	1487	1511	1534	1558	1582	1842	1866	1890	1913	1937	1961	1985	2008	2032	2056	2316	2340	2364	2387
2200	1427	1450	1472	1495	1518	1540	1563	1586	1609	1631	1654	1913	1936	1959	1982	2004	2027	2286	2309	2332	2354	
2100	1414	1436	1458	1480	1501	1523	1545	1566	1588	1610	1631	1890	1911	1933	1955	1976	1998	2256	2278	2300	2321	
2000	1402	1423	1443	1464	1485	1505	1526	1547	1567	1588	1609	1866	1886	1907	1928	1948	1969	2226	2247	2268	2288	

2 hinges per leaf
3 hinges per leaf
4 hinges per leaf
5 hinges per leaf

* for door leaf width > 1330 mm one-off cutting cost of 520 Euro

Notice:

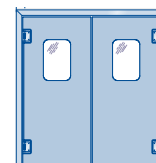
for a clear height of > 2250 mm (with U-frame or block frame in front of the wall) or > 2350 mm (with flat profile) one-time additional costs of 169 Euro

Rail passage	See page 76
Additional accessories	See page 78
Wall mountings	See page 83

HPP-180

Double-leaf double-action door made of polyethylene 180

with 180° opening angle



Double-action door with self-closing stainless steel hinges, suitable for indoor use, hinges with or without 90° locking device and optionally adjustable in middle position

Door leaf

From 15 mm thick moulded PE 500, this door type is suitable for use in a temperature range from -30 °C to +60 °C.
Width 800–3200 mm
Height 1800–4600 mm
(from 3200 mm height on request)

Standard colours based on:
Granite, RAL 9017 Traffic black,
RAL 9010 Pure white, RAL 7037 Dusty grey,
RAL 7035 Light grey, RAL 7024 Graphite grey,
RAL 6024 Traffic green, RAL 5010 Gentian blue,
RAL 3000 Flame red, RAL 1018 Zinc yellow

Wall fixing

Four different fixing types to suit the fitting situation concerned

Hinges

2 × 90° opening angle
Spring force adjustable

Standard:

Stainless steel V2 A

Optional:

Stainless steel V4 A

Window

Flush-fitting, from 15 mm thick acrylic glass, middle of window 1550 mm from the bottom edge of the door leaf, window width depending on door leaf width, standard 400 × 600 mm rectangular (with rounded edges)

Without surcharge:

400 mm, round

Other shapes and sizes under accessories

Finger protection

Optional:

With PVC finger guard at door height or from 900 mm up to the top edge of the door leaf, transparent or black

Optional:

cold temperature resistant (only transparent)

Impact absorber profile

Optional:

With PE impact absorber strip (15 mm PE, bolted to the door leaf on both sides)
or spring impact absorber (5 mm PE, curved, black, bolted to the door leaf on both sides)

	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700*	2800*	2900*	3000*	3100*	3200*
3200	3606	3670	3734	3798	3863	3927	3991	4056	4120	4649	4713	4777	4842	4906	4970	5035	5099	5163	5228	5777	5843
3100	3581	3644	3706	3768	3831	3893	3955	4017	4080	4607	4669	4731	4793	4856	4918	4980	5043	5105	5167	5713	5777
3000	3557	3618	3678	3738	3798	3859	3919	3979	4040	4100	4160	4685	4745	4806	4866	4926	4986	5047	5107	5649	5711
2900	3533	3591	3650	3708	3766	3825	3883	3941	3999	4058	4116	4639	4697	4755	4814	4872	4930	4988	5047	5585	5645
2800	3475	3533	3591	3649	3707	3765	3823	3880	3938	3996	4054	4112	4170	4227	4758	4816	4874	4932	4990	5521	5578
2700	3451	3506	3562	3618	3674	3730	3785	3841	3897	3953	4008	4064	4120	4176	4705	4760	4816	4872	4928	5457	5512
2600	3426	3480	3533	3587	3641	3694	3748	3802	3856	3909	3963	4017	4070	4124	4178	4232	4285	4812	4866	4920	4973
2500	2928	2980	3031	3556	3608	3659	3711	3763	3814	3866	3918	3969	4021	4073	4124	4176	4227	4752	4804	4855	4907
2400	2903	2953	3002	3052	3102	3151	3201	3723	3773	3823	3872	3922	3971	4021	4070	4120	4170	4692	4742	4791	4841
2300	2878	2926	2973	3021	3069	3116	3164	3684	3732	3779	3827	3874	3922	3969	4017	4064	4112	4632	4680	4727	4775
2200	2854	2899	2945	2990	3035	3081	3126	3172	3217	3263	3308	3827	3872	3918	3963	4008	4054	4572	4618	4663	4709
2100	2829	2872	2916	2959	3002	3046	3089	3133	3176	3219	3263	3779	3823	3866	3909	3953	3996	4512	4556	4599	4643
2000	2804	2845	2887	2928	2969	3011	3052	3093	3135	3176	3217	3732	3773	3814	3856	3897	3938	4453	4494	4535	4577

2 hinges per leaf
3 hinges per leaf
4 hinges per leaf
5 hinges per leaf

* for door leaf width > 1330 mm one-off cutting cost of 520 Euro

Notice:

for a clear height of > 2250 mm (with U-frame or block frame in front of the wall) or > 2350 mm (with flat profile) one-time additional costs of 169 Euro

Rail passage	See page 76
Additional accessories	See page 78
Wall mountings	See page 83

HPP-360

Single leaf double-action door made of polyethylene

with 360° opening angle



Double-action door with self-closing stainless steel hinges, suitable for indoor use, hinges with or without 90° and 180° locking device and optionally adjustable in middle position

Door leaf

From 15 mm thick moulded PE 500, this door type is suitable for use in a temperature range from -30 °C to +60 °C.
Width 550 – 1600 mm
Height 1800 – 4600 mm
(from 3200 mm height on request)

Standard colours based on:

Granite, RAL 9017 Traffic black,
RAL 9010 Pure white, RAL 7037 Dusty grey,
RAL 7035 Light grey, RAL 7024 Graphite grey,
RAL 6024 Traffic green, RAL 5010 Gentian blue,
RAL 3000 Flame red, RAL 1018 Zinc yellow

max. wall thickness 220 mm

Wall fixing

Four different fixing types to suit the fitting situation concerned

Hinges

2 × 180° opening angle
Spring force adjustable

Standard:

Stainless steel V2 A

Optional:

Stainless steel V4 A

Window

Flush-fitting, from 15 mm thick acrylic glass, middle of window 1550 mm from the bottom edge of the door leaf, window width depending on door leaf width, standard 400 × 600 mm rectangular (with rounded edges)

Without surcharge:

400 mm, round

Other shapes and sizes under accessories

Finger protection

Optional:

With PVC finger guard at door height or from 900 mm up to the top edge of the door leaf, transparent or black

Optional:

cold temperature resistant (only transparent)

Impact absorber profile

Optional:

With PE impact absorber strip (15 mm PE, bolted to the door leaf on both sides) or spring impact absorber (5 mm PE, curved, black, bolted to the door leaf on both sides)

	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400*	1450*	1500*	1550*	1600*
3200	2397	2427	2458	2488	2518	2549	2579	2610	2640	3015	3045	3076	3106	3136	3167	3197	3228	3258	3289	3663	3694
3100	2385	2415	2444	2474	2503	2533	2562	2591	2621	2995	3024	3054	3083	3113	3142	3172	3201	3231	3260	3634	3663
3000	2374	2402	2431	2459	2488	2516	2545	2573	2602	2630	2659	3032	3060	3089	3117	3146	3174	3203	3231	3605	3633
2900	2362	2390	2418	2445	2473	2500	2528	2555	2583	2610	2638	3010	3038	3065	3093	3120	3148	3175	3203	3575	3603
2800	2351	2378	2404	2431	2458	2484	2511	2537	2564	2591	2617	2644	2670	2697	3068	3095	3121	3148	3174	3546	3572
2700	2340	2365	2391	2417	2442	2468	2494	2519	2545	2571	2596	2622	2648	2673	3043	3069	3095	3120	3146	3516	3542
2600	2328	2353	2378	2402	2427	2452	2477	2501	2526	2551	2575	2600	2625	2649	2674	2699	2724	3093	3117	3142	3167
2500	1972	1996	2020	2388	2412	2436	2459	2483	2507	2531	2554	2578	2602	2626	2649	2673	2697	3065	3089	3113	3136
2400	1961	1984	2007	2029	2052	2075	2098	2465	2488	2511	2534	2556	2579	2602	2625	2648	2670	3038	3060	3083	3106
2300	1950	1971	1993	2015	2037	2059	2081	2447	2469	2491	2513	2534	2556	2578	2600	2622	2644	3010	3032	3054	3076
2200	1938	1959	1980	2001	2022	2043	2064	2084	2105	2126	2147	2513	2534	2554	2575	2596	2617	2983	3003	3024	3045
2100	1927	1947	1967	1987	2007	2027	2046	2066	2086	2106	2126	2491	2511	2531	2551	2571	2591	2955	2975	2995	3015
2000	1915	1934	1953	1972	1991	2010	2029	2048	2067	2086	2105	2469	2488	2507	2526	2545	2564	2927	2946	2965	2984

2 hinges per leaf
3 hinges per leaf
4 hinges per leaf
5 hinges per leaf

* for door leaf width > 1330 mm one-off cutting cost of 520 Euro

Notice:

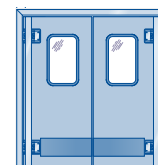
for a clear height of > 2250 mm (with U-frame or block frame in front of the wall) or > 2350 mm (with flat profile) one-time additional costs of 169 Euro

Rail passage	See page 76
Additional accessories	See page 78
Wall mountings	See page 83

HPP-360

Double-leaf polyethylene double-action door

with 360° opening angle



Double-action door with self-closing stainless steel hinges, suitable for indoor use, hinges with or without 90° and 180° locking device and optionally adjustable in middle position

Door leaf

From 15 mm thick moulded PE 500, this door type is suitable for use in a temperature range from -30 °C to +60 °C.
Width 1100–3200 mm
Height 1800–4600 mm
(from 3200 mm height on request)

Standard colours based on:
Granite, RAL 9017 Traffic black,
RAL 9010 Pure white, RAL 7037 Dusty grey,
RAL 7035 Light grey, RAL 7024 Graphite grey,
RAL 6024 Traffic green, RAL 5010 Gentian blue,
RAL 3000 Flame red, RAL 1018 Zinc yellow

max. wall thickness 220 mm

Wall fixing

Four different fixing types to suit the fitting situation concerned

Hinges

2 × 180° opening angle
Spring force adjustable

Standard:

Stainless steel V2 A

Optional:

Stainless steel V4 A

Window

Flush-fitting, from 15 mm thick acrylic glass, middle of window 1550 mm from the bottom edge of the door leaf, window width depending on door leaf width, standard 400 × 600 mm rectangular (with rounded edges)

Without surcharge:

400 mm, round

Other shapes and sizes under accessories

Finger protection

Optional:

With PVC finger guard at door height or from 900 mm up to the top edge of the door leaf, transparent or black

Optional:

cold temperature resistant (only transparent)

Impact absorber profile

Optional:

With PE impact absorber strip (15 mm PE, bolted to the door leaf on both sides)
or spring impact absorber (5 mm PE, curved, black, bolted to the door leaf on both sides)

	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800*	2900*	3000*	3100*	3200*
3200	4793	4854	4915	4976	5037	5097	5158	5219	5280	6030	6091	6151	6212	6273	6334	6395	6455	6516	6577	7327	7388
3100	4771	4829	4888	4947	5006	5065	5124	5183	5242	5990	6049	6108	6167	6225	6284	6343	6402	6461	6520	7268	7327
3000	4748	4805	4862	4919	4976	5033	5090	5147	5204	5261	5318	6064	6121	6178	6235	6292	6349	6406	6463	7209	7266
2900	4725	4780	4835	4890	4945	5001	5056	5111	5166	5221	5276	6020	6075	6130	6186	6241	6296	6351	6406	7150	7205
2800	4702	4755	4809	4862	4915	4968	5021	5075	5128	5181	5234	5287	5341	5394	6136	6189	6243	6296	6349	7091	7144
2700	4679	4731	4782	4833	4885	4936	4987	5039	5090	5141	5192	5244	5295	5346	6087	6138	6189	6241	6292	7032	7084
2600	4657	4706	4755	4805	4854	4904	4953	5002	5052	5101	5151	5200	5249	5299	5348	5398	5447	6186	6235	6284	6334
2500	3945	3992	4040	4776	4824	4871	4919	4966	5014	5061	5109	5156	5204	5251	5299	5346	5394	6130	6178	6225	6273
2400	3922	3968	4013	4059	4104	4150	4196	4930	4976	5021	5067	5113	5158	5204	5249	5295	5341	6075	6121	6167	6212
2300	3899	3943	3987	4030	4074	4118	4161	4894	4938	4982	5025	5069	5113	5156	5200	5244	5287	6020	6064	6108	6151
2200	3876	3918	3960	4002	4044	4085	4127	4169	4211	4253	4294	5025	5067	5109	5151	5192	5234	5965	6007	6049	6091
2100	3853	3893	3933	3973	4013	4053	4093	4133	4173	4213	4253	4982	5021	5061	5101	5141	5181	5910	5950	5990	6030
2000	3831	3869	3907	3945	3983	4021	4059	4097	4135	4173	4211	4938	4976	5014	5052	5090	5128	5855	5893	5931	5969

2 hinges per leaf
3 hinges per leaf
4 hinges per leaf
5 hinges per leaf

* for door leaf width > 1330 mm one-off cutting cost of 520 Euro

Notice:

for a clear height of > 2250 mm (with U-frame or block frame in front of the wall) or > 2350 mm (with flat profile) one-time additional costs of 169 Euro

Rail passage	See page 76
Additional accessories	See page 78
Wall mountings	See page 83

Rail passage

Fixed PE cladding with black rubber seal, incl. flat profile for fixing (side and bottom lintel)

		1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200
Clear height	1500	858	924	991	1058	1125	1192	1259	1326	1393	1460	1526
	1400	838	901	963	1026	1089	1152	1214	1277	1340	1403	1465
	1300	818	877	935	994	1053	1111	1170	1228	1287	1346	1404
	1200	798	853	907	962	1016	1071	1125	1180	1234	1289	1343
	1100	779	829	879	930	980	1030	1081	1131	1181	1232	1282
	1000	759	805	851	898	944	990	1036	1082	1129	1175	1221
	900	739	781	823	866	908	950	992	1034	1076	1118	1160
	800	720	758	796	833	871	909	947	985	1023	1061	1099
	700	700	734	768	801	835	869	903	936	970	1004	1038
	600	680	710	740	769	799	828	858	888	917	947	977
	500	661	686	712	737	763	788	814	839	865	890	915
	400	641	662	684	705	726	748	769	790	812	833	854
	300	621	638	656	673	690	707	724	742	759	776	793
		1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200
		Clear width										

Notes and sketches

Accessories for HPP-180 and HPP-360

Single and double-leaf double-action door made of polyethylene 180 and 360

Colour choice		Article no.		€	
Standard colours	Granite			No surcharge	
	RAL 9017 Traffic black				
	RAL 9010 Pure white				
	RAL 7037 Dusty grey				
	RAL 7035 Light grey				
	RAL 7024 Graphite grey				
	RAL 6024 Traffic green				
	RAL 5010 Gentian blue				
	RAL 3000 Flame red				
	RAL 1018 Zinc yellow				
Special colours	RAL 3020 Traffic red		Per leaf	150	
	RAL 2009 Traffic orange				
	RAL 1003 Signal yellow				
	RAL to choose			On request	
Impact absorber profile		Article no.		€	
PE impact absorber strip	15 mm polyethylene, bolted on both sides	200 × 15 mm	4880223	Per leaf	150
		300 × 15 mm	4880224	Per leaf	178
	Special colours		4880225	Per leaf	Surcharge 50
Spring impact absorber	5 mm polyethylene, curved, black, bolted on both sides	300 mm	4880226	Per leaf	325
		600 mm	4880227	Per leaf	380
		900 mm	4880228	Per leaf	435
		RAL to choose			On request
Stainless steel impact absorber profile	1.5 mm stainless steel plate, bolted on both sides 175 mm high, starting from below the bottom edge of the door leaf		4880229	Per leaf	271
Glazing sizes and shapes		Article no.		€	
15 mm acrylic glass, flush-fitting	Rectangular (with rounded edges)	400 × 600 mm	4880230	Each	Standard
		400 × 800 mm	4880232	Each	118
		600 × 800 mm (only in combination with optional stainless steel frame)	4880233	Each	155
	round	400 mm	4880234	Each	Without surcharge
		600 mm	4880235	Each	118
	Square	600 × 600 mm	4880231	Each	118
	Semicircular	320 × 750 mm	4880236	Each	143
		400 × 950 mm	4880237	Each	150
	Glazing frame from stainless steel		Article no.		
Stainless steel	Rectangular (with rounded edges)	400 × 600 mm	4880238	per window	155
		400 × 800 mm	4880239	per window	208
		600 × 800 mm	4880241	per window	260
	Square	600 × 600 mm	4880240	per window	208
Finger protection and seals		Article no.			
PVC finger protection on opening side	4 mm thick	Black, in door height	4880242	Per leaf	50
		Black, from 900 mm	4880243	Per leaf	50
		Transparent, in door height	4880244	Per leaf	50
		Transparent, 900 mm	4880245	Per leaf	50
		Transparent, in door height, suitable for CS	4880246	Per leaf	53
		Transparent, from 900 mm, suitable for CS	4880247	Per leaf	53
PVC finger protection on hinge side	4 mm thick	Black, in door height	4880248	Per leaf	85
		Transparent, in door height	4880249	Per leaf	85
		Transparent, in door height, suitable for CS	4880250	Per leaf	90
Seal on the door leaf	Top from soft UPVC, transparent	4880251	Unit(s)	63	
	Top from soft UPVC, black	4880252	Unit(s)	63	
	Top from soft UPVC, transparent, suitable for CS	4880253	Unit(s)	66	
	Bottom from wear-resistant rubber, red	4880254	Unit(s)	66	

Hinges			Article no.		€
Hinge	With hold-open device	Not adjustable	4880265	Per hinge	Without surcharge
		Adjustable	4880267	Per hinge	31
	Without hold-open device	Not adjustable	4880266	Per hinge	Without surcharge
		Adjustable	4880268	Per hinge	31
Miscellaneous			Article no.		
Stainless steel corner lock	lockable on both sides	164 mm × 51 mm × 30 mm	4880255	Unit(s)	450
Stainless steel handle	in black plastic support	Length 200 mm	4880256	Unit(s)	75
			4880257	On both sides	140
PE stopper	For opening the door on one side Fastening under the lintel (only possible with additional handle)		4880258	Unit(s)	115
Stainless steel lever handle sheet	Half-round	350 mm × 175 mm × 1.5 mm	4880259	On both sides	103

HPS-180

Single-leaf stainless steel double-action door

with 180° opening angle

Double-action door with self-closing stainless steel hinges, suitable for indoor use, hinges with or without 90° locking device and optionally adjustable in middle position

Door leaf

40 mm thick door leaf with foam core, 0.8 mm thick stainless steel sheet on the outside
This double-action door is suitable for application in a temperature range from -30 °C to +60 °C.
Width 550 – 1450 mm
Height 1800 – 2800 mm

Surface

Stainless steel polished or optional matt circular textured finish

Wall fixing

Four different fixing types to suit the fitting situation concerned

Hinges

2 × 90° opening angle
Spring force adjustable

Standard:

Stainless steel V2 A

Optional:

Stainless steel V4 A

Window

Made of 8 mm thick laminated safety glass, window centre 1550 mm from the lower edge of the door leaf, standard size 400 mm round with stainless steel frame

Optional:

Rectangular window

Finger protection

Standard size with black finger-protection seal



Clear height		600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
	2800	2887	2912	2936	2961	2985	3010	3034	3059	3083	3108	3132	3157	3181	3206	3481	3505	3530
	2700	2877	2900	2924	2947	2971	2995	3018	3042	3066	3089	3113	3136	3160	3184	3458	3482	3505
	2600	2866	2889	2912	2934	2957	2980	3003	3025	3048	3071	3094	3116	3139	3162	3185	3207	3230
	2500	2605	2627	2649	2921	2943	2965	2987	3009	3031	3052	3074	3096	3118	3140	3162	3184	3206
	2400	2594	2615	2636	2657	2678	2699	2720	2992	3013	3034	3055	3076	3097	3118	3139	3160	3181
	2300	2584	2604	2624	2644	2664	2685	2705	2975	2996	3016	3036	3056	3076	3096	3116	3136	3157
	2200	2573	2593	2612	2631	2650	2670	2689	2708	2727	2747	2766	3036	3055	3074	3094	3113	3132
	2100	2563	2581	2600	2618	2636	2655	2673	2692	2710	2728	2747	3016	3034	3052	3071	3089	3108
	2000	2552	2570	2587	2605	2622	2640	2657	2675	2692	2710	2727	2996	3013	3031	3048	3066	3083
		600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
Clear width																		

2 hinges per leaf
3 hinges per leaf
4 hinges per leaf

Notice:

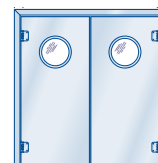
for a clear height of > 2250 mm (with U-frame or block frame in front of the wall) or > 2350 mm (with flat profile) one-time additional costs of 169 Euro

Additional accessories	See page 82
Wall mountings	See page 83

HPS-180

Double-leaf stainless steel double-action door

with 180° opening angle



Double-action door with self-closing stainless steel hinges, suitable for indoor use, hinges with or without 90° locking device and optionally adjustable in middle position

Door leaf

40 mm thick door leaf with foam core, 0.8 mm thick stainless steel sheet on the outside
This double-action door is suitable for application in a temperature range from -30 °C to +60 °C.
Width 1100–2900 mm
Height 1800–2800 mm

Surface

Stainless steel polished or optional matt circular textured finish

Wall fixing

Four different fixing types to suit the fitting situation concerned

Hinges

2 × 90° opening angle
Spring force adjustable

Standard:

Stainless steel V2 A

Optional:

Stainless steel V4 A

Window

Made of 8 mm thick laminated safety glass, window centre 1550 mm from the lower edge of the door leaf, standard size 400 mm round with stainless steel frame

Optional:

Rectangular window

Finger protection

Standard size with black finger-protection seal

	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800
2800	5774	5823	5872	5921	5970	6019	6068	6117	6166	6215	6264	6313	6362	6411	6961	7010	7059
2700	5753	5800	5848	5895	5942	5989	6037	6084	6131	6178	6226	6273	6320	6367	6916	6963	7010
2600	5732	5778	5823	5869	5914	5960	6005	6051	6096	6142	6187	6233	6278	6324	6369	6415	6460
2500	5210	5254	5297	5842	5886	5930	5974	6017	6061	6105	6149	6192	6236	6280	6324	6367	6411
2400	5189	5231	5273	5315	5357	5399	5441	5984	6026	6068	6110	6152	6194	6236	6278	6320	6362
2300	5168	5208	5248	5289	5329	5369	5409	5951	5991	6031	6072	6112	6152	6192	6233	6273	6313
2200	5147	5185	5224	5262	5301	5339	5378	5416	5455	5493	5532	6072	6110	6149	6187	6226	6264
2100	5126	5163	5199	5236	5273	5310	5346	5383	5420	5457	5493	6031	6068	6105	6142	6178	6215
2000	5105	5140	5175	5210	5245	5280	5315	5350	5385	5420	5455	5991	6026	6061	6096	6131	6166

2 hinges per leaf
3 hinges per leaf
4 hinges per leaf

Notice:

for a clear height of > 2250 mm (with U-frame or block frame in front of the wall) or > 2350 mm (with flat profile) one-time additional costs of 169 Euro

Additional accessories	See page 82
Wall mountings	See page 83

Accessories for HPS-180

Single-leaf and double-leaf stainless steel double-action door 180

Surfaces			Article no.		€
Stainless steel matt circular textured finish			4880260	Per leaf	113
Door leaf and hinges from stainless steel 1.4401 (V4A)			4880261	Per leaf	570
Impact absorber profile			Article no.		€
PE impact absorber strip	15 mm polyethylene, bolted on both sides	200 × 15 mm	4880223	Per leaf	150
		300 × 15 mm	4880224	Per leaf	178
	Special colours		4880225	Per leaf	Surcharge 50
Stainless steel impact absorber profile	1.5 mm stainless steel plate, bolted on both sides 175 mm high, starting from below the bottom edge of the door leaf		4880229	Per leaf	255
Glazing sizes and shapes			Article no.		€
With 8 mm laminated safety glass with stainless steel frame	Rectangular (with rounded edges)	400 × 600 mm	4880262	Each	233
	Square	400 × 400 mm	4880263	Each	233
		600 × 600 mm	4880264	Each	300
Hinges			Article no.		€
Hinge	With hold-open device	Not adjustable	4880265	Per hinge	Without surcharge
		Adjustable	4880267	Per hinge	31
	Without hold-open device	Not adjustable	4880266	Per hinge	Without surcharge
		Adjustable	4880268	Per hinge	31
Miscellaneous			Article no.		
Stainless steel case lock	Top locking with profile cylinder, closing on both sides	Lock cover: Stainless steel 24 × 150 mm	4880270	Unit(s)	450
Stainless steel handle	in black plastic support	Length 200 mm	4880256	Unit(s)	75
			4880257	On both sides	140

Wall mountings

Stainless steel mounting plate 142 × 80 × 4 mm			€
For riveting		Per leaf	63
Stainless steel mounting plate 142 × 95 × 4 mm			€
For screw fitting		Per leaf	63

Stainless steel flat profile 90 × 11 mm (for screw fitting)													
Height	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200
Price	305	320	336	351	366	381	397	412	427	442	458	473	488

Stainless steel flat profile 80 × 5 mm (for riveting)													
Height	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200
Price	325	341	358	374	390	406	423	439	455	471	488	504	520

Block frame in front of the wall														
		Width												
		800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200
Height	3200	1710	1758	1805	1853	1900	1948	1995	2043	2090	2138	2185	2233	2280
	3000	1615	1663	1710	1758	1805	1853	1900	1948	1995	2043	2090	2138	2185
	2800	1520	1568	1615	1663	1710	1758	1805	1853	1900	1948	1995	2043	2090
	2600	1425	1473	1520	1568	1615	1663	1710	1758	1805	1853	1900	1948	1995
	2400	1330	1378	1425	1473	1520	1568	1615	1663	1710	1758	1805	1853	1900
	2200	1235	1283	1330	1378	1425	1473	1520	1568	1615	1663	1710	1758	1805
	2000	1140	1188	1235	1283	1330	1378	1425	1473	1520	1568	1615	1663	1710

Profile frame ¹														
Up to MW 120		Width												
		800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200
Height	3200	1080	1110	1140	1170	1200	1230	1260	1290	1320	1350	1380	1410	1440
	3000	1020	1050	1080	1110	1140	1170	1200	1230	1260	1290	1320	1350	1380
	2800	960	990	1020	1050	1080	1110	1140	1170	1200	1230	1260	1290	1320
	2600	900	930	960	990	1020	1050	1080	1110	1140	1170	1200	1230	1260
	2400	840	870	900	930	960	990	1020	1050	1080	1110	1140	1170	1200
	2200	780	810	840	870	900	930	960	990	1020	1050	1080	1110	1140
	2000	720	750	780	810	840	870	900	930	960	990	1020	1050	1080
Up to MW 240		Width												
		800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200
Height	3200	1296	1332	1368	1404	1440	1476	1512	1548	1584	1620	1656	1692	1728
	3000	1224	1260	1296	1332	1368	1404	1440	1476	1512	1548	1584	1620	1656
	2800	1152	1188	1224	1260	1296	1332	1368	1404	1440	1476	1512	1548	1584
	2600	1080	1116	1152	1188	1224	1260	1296	1332	1368	1404	1440	1476	1512
	2400	1008	1044	1080	1116	1152	1188	1224	1260	1296	1332	1368	1404	1440
	2200	936	972	1008	1044	1080	1116	1152	1188	1224	1260	1296	1332	1368
	2000	864	900	936	972	1008	1044	1080	1116	1152	1188	1224	1260	1296
Up to MW 360		Width												
		800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200
Height	3200	1530	1573	1615	1658	1700	1743	1785	1828	1870	1913	1955	1998	2040
	3000	1445	1488	1530	1573	1615	1658	1700	1743	1785	1828	1870	1913	1955
	2800	1360	1403	1445	1488	1530	1573	1615	1658	1700	1743	1785	1828	1870
	2600	1275	1318	1360	1403	1445	1488	1530	1573	1615	1658	1700	1743	1785
	2400	1190	1233	1275	1318	1360	1403	1445	1488	1530	1573	1615	1658	1700
	2200	1105	1148	1190	1233	1275	1318	1360	1403	1445	1488	1530	1573	1615
	2000	1020	1063	1105	1148	1190	1233	1275	1318	1360	1403	1445	1488	1530
Up to MW 4802		Width												
		800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200
Height	3200	1782	1832	1881	1931	1980	2030	2079	2129	2178	2228	2277	2327	2376
	3000	1683	1733	1782	1832	1881	1931	1980	2030	2079	2129	2178	2228	2277
	2800	1584	1634	1683	1733	1782	1832	1881	1931	1980	2030	2079	2129	2178
	2600	1485	1535	1584	1634	1683	1733	1782	1832	1881	1931	1980	2030	2079
	2400	1386	1436	1485	1535	1584	1634	1683	1733	1782	1832	1881	1931	1980
	2200	1287	1337	1386	1436	1485	1535	1584	1634	1683	1733	1782	1832	1881
	2000	1188	1238	1287	1337	1386	1436	1485	1535	1584	1634	1683	1733	1782

¹ Frame depth depending on wall type

² Further sizes on request

PU panel	60 mm
Dry construction wall	75 mm
Brickwork	90 mm

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. Our employees work intensively on new products, continual further developments and improvements to details. The results are patents and one-of-a-kind products you can depend on.

