//New: Standard Safety Light Grille



High-Speed Doors

Technical Manual: Issue 01.03.2011









A broad programme for inside and outside

From low-cost design models to secure night doors

Hörmann high-speed doors are characterised by excellent material quality and reliable long-term function. They are used inside and outside to optimise the flow of traffic, improve room climate and save energy.

This broad programme includes transparent doors with flexible curtains that open vertically or horizontally.

For day/night doors, we also offer flexible high-speed doors combined with rolling shutters and sectional doors.

Hörmann high-speed doors comply with strict European safety requirements.

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Spiral Doors Technical data

Use Internal door ● Speed Opening speed approx. m/sec. 1.5 - 8.0 1.5 - 3.0 Closing speed approx. m/sec. 0.5 0.5 Safety equipment DIN EN 13241.1 ● ● Resistance to wind load DIN EN 12425 Class 4 Class 2 Are premeability DIN EN 12425 Class 2 Class 2 Air permeability DIN EN 12426 Class 2 Class 2 Are premeability DIN EN 12426 Class 4 Class 2 Acoustic insulation DIN EN 12426 Class 4 Class 4 Acoustic insulation DIN EN 12426 Class 1 31 Acoustic insulation DIN EN 12426 Class 1 31 Acoustic insulation DIN EN 52210 dB 31 31 Stutter sizes Max. widt LDB 6500 6500 Max. midt LDB Class 1 33 390 (-) (See also the Technical Manual) Energy of (with cladding) -7550 (-) Lintel LDH from 4501 to 5500 mm (with cladding) 970 (1000) -				HSS 6530	HSS 6530 L
External door ● Speed Opening speed approx. m/sec. 1.5 - 3.0 1.5 - 3.0 Safety equipment DIN EN 13241.1 ● ● Resistance to wind load DIN EN 12424 Class 4 Class 2 Max. Neight DH Class 2 Class 2 Class 2 Max. Neight DH Class 2 Class 2 Class 2 Class 2 Max. Neight DH Class 2 Class 2 Class 2 Class 2 Max. Neight DH Class 2	Use	Internal door		•	•
Speed Opening speed approx.m/sec. 1.5-3.0 1.5-3.0 Safety equipment DIN EN 13241.1 • • Resistance to wind load DIN EN 12424 Class 4 Class 2 Resistance to water penetration DIN EN 12425 Class 2 Class 2 Air permeability DIN EN 12426 Class 2 Class 2 Ar permeability DIN EN 12426 Class 2 Class 2 Acoustic insulation DIN EN 12426 Class 3 2.9/1.8 Acoustic insulation DIN EN 12426 Class 4 Class 4 Acoustic insulation DIN EN 52210 dB 31 31 Acoustic insulation Din EN 52210 dB 31 31 Space requirement) Bearing side (with cladding) 430 (415) 390 (+) Space requirement) Bearing side (with cladding) 90 (1000) - Lintel LDH from 5501 to 6500 mm (with cladding) 950 (1000) - Door construction Self-supporting - - Door leaf Double-skinned profile thickness 30 30		External door		•	•
Ciosing speed approx. m/sec. 0.5 0.5 Safety equipation Din EN 13241.1 • • Resistance to wind load DIN EN 13242.4 Class 4 Class 2 Resistance to water penetration DIN EN 1242.6 Class 2 Class 2 Ar permeability DIN EN 1242.6 Class 2 Class 2 Transmission of heat DIN EN 1242.6 Class 2 Class 2 Acoustic insulation DIN EN 52210 dB 31 31 Shutter sizes Max. width LDB 6500 6500 Bearing side (with cladding) 390 (45) 390 (+) (Speace requirement) Bearing side (with cladding) 390 (45) 390 (+) Lintel LDH up to 4500 mm (with cladding) 950 (1000) - - Control in sel cabinet (W × H × D) 400 x 600 × 200 - - Door leaf Double-skinned profile thickness 30 30 - Door leaf Double-skinned profile thickness 30 30 - Door leaf Double-skinned profile thickness 30 30 -	Speed	Opening speed approx. m/s	sec.	1.5-3.0	1.5-3.0
Safety equipment DIN EN 13241.1 Class 4 Class 4 Class 4 Class 4 Class 2 Class 4 Not N 12428 Class 4 Not N 12428 Not N 12429 Not N 12455 Not N 12455 Not N 12455 Not N 12455 Not N 12450 Not N 12450 Not N 12450<		Closing speed approx. m/se	ec.	0.5	0.5
Resistance to wind load DIN EN 12424 Class 4 Class 4 Class 4 Resistance to water penetration DIN EN 12425 Class 2 Class 2 Class 2 Ar permeability DIN EN 12426 Class 2 Class 2 Class 2 Transmission of heat DIN EN 12428 2.9 / 1.8 with iso infill Acoustic insulation DIN EN 52210 dB 31 31 Shutter sizes Max. width LDB 6500 6500 Max. height LDH 6000 4500 (space requirement) Bearing side (with cladding) - 550 (-) Lintel LDH tom 4501 to 5500 mm (with cladding) 970 (1020) - - Lintel LDH from 4501 to 5500 mm (with cladding) 970 (1020) - - Door leaf Double-skinned profile thickness 30 30 30 There LDH from 4501 to 5500 mm (with cladding) 970 (1020) - - - Door leaf Double-skinned profile thickness 30 30 30 30 Thermal profile Image - - - - - Door leaf Andiseid alu	Safety equipment	DIN EN 13241.1		•	•
Resistance to water penetration DIN EN 12425 Class 2 Class 2 Class 2 Air permeability DIN EN 12426 Class 2 Class 2 Class 2 Transmission of heat DIN EN 12426 2.9/1.8 2.9/1.8 2.9/1.8 Acoustic insulation DIN EN 52210 dB 31 31 Shutter sizes Max, width LDB 6500 6500 (space requirement) Bearing side (with cladding) 430 (455) 430 (-) (see also the Technical Manual) Linte(UM tedadding) - 550 (-) Lintel LDH from 5501 to 5600 mm (with cladding) 950 (1000) - - Dor tear counterbalance • • • • Door leaf Double-skinned profile thickness 30 30 · · Door leaf Double-skinned profile thickness 30 30 ·	Resistance to wind load	DIN EN 12424		Class 4	Class 4
Air permeability DIN EN 12426 Class 2 Class 2 Class 2 Transmission of heat DIN EN 12428 2.9 / 1.8 2.9 / 1.8 2.9 / 1.8 Acoustic insulation DIN EN 52210 dB 31 31 31 Shutter sizes Max. width LDB 6500 6500 Max. height LDH 6000 4500 (Speac requirement) Bearing side (with cladding) 430 (455) 430 (-) Lintel LDH to 4500 mm (with cladding) - 550 (-) - Lintel LDH torm 4501 to 5500 mm (with cladding) 970 (1020) - - Door construction Self-supporting - - - Door leaf Double-skinned profile thickness 30 30 - Material/surface of door leaf Anodised aluminium E0/EV1 ●<	Resistance to water penetration	DIN EN 12425		Class 2	Class 2
Transmission of heat DIN EN 12428 2.9 / 1.8 2.9 / 1.8 with lso infill Acoustic insulation DIN EN 52210 dB 31 31 Shutter sizes Max. width LDB 6500 6500 Max. height LDH 6000 4500 (space requirement) Bearing side (with cladding) 390 (415) 390 (-) Lintel LDH up to 4500 mm (with cladding) - 550 (-) Lintel LDH up to 4500 mm (with cladding) 950 (1000) - Lintel LDH top to 4500 mm (with cladding) 950 (1000) - Lintel LDH top to 4500 mm (with cladding) 950 (1000) - Door construction Self-supporting - - Door leaf Double-skinned profile thickness 30 30 Material/surface of door leaf Anodised aluminium ES/EV1 ● ● Operator and control Frequency converter ● ● Operator and control Frequency converter ● ● Operator and control Frequency converter ● ● Main switch all-pole switch off ● ● ● ● Main switch all	Air permeability	DIN EN 12426		Class 2	Class 2
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Acoustic insulation DIN EN 52210 dB 31 31 Shutter sizes Max. width LDB 6500 6500 Max. height LDH 6000 4500 (space requirement) Bearing side (with cladding) 390 (415) 390 (-) Lintel LDH to 4500 mm (with cladding) - 550 (-) Lintel LDH to 4500 mm (with cladding) - 550 (-) Lintel LDH tom 5501 to 6500 mm (with cladding) 950 (1000) - Lintel LDH tom 5501 to 6500 mm (with cladding) 950 (1000) - Dor leaf Double-skinned profile thickness 30 30 Dor leaf Double-skinned profile thickness 30 30 Material/surface of door leaf Anodised aluminium E6/EV1 ● ● Material/surface of door leaf Anodised aluminium E6/EV1 ● ● Double-skinned profile thickness 30 30 30 Thermal profile Muminium, powder-coated, RAL to choose ○ ○ Queriation grille Ventilation cross section depending on size/version ○ ○ Queriator and control<				with Iso infill	with Iso infill
Shutter sizes Max. width LDB 6500 6500 Fitting dimensions Operator side (with cladding) 430 (45) 430 (-) (space requirement) Bearing side (with cladding) 390 (415) 390 (-) Lintel (LDH up to 4500 mm (with cladding) 950 (1000) - Lintel LDH from 4501 to 5500 mm (with cladding) 970 (1020) - Lintel LDH from 4501 to 6500 mm (with cladding) 970 (1020) - Door leaf Self-supporting - - Door leaf counterbalance 300 300 Door leaf counterbalance 300 300 Mather innium, powder-coated, RAL to choose - - Mather innium, powder-coated, RAL to choose - - Glazing Single synthetic panes - - Operator and control Frequency converter - - Connecting voltage Gone-conteristic K-characteristic K-characteristic Max indit_non pows ecol depending on size/version - - - Operator and control Frequency converter -	Acoustic insulation	DIN EN 52210 dB		31	31
Max. height LDH60004500(space requirement) (space requirement) (see also the Technical Manual)Deartor side (with cladding)330 (415)330 (-)(See also the Technical Manual)Earing side (with cladding)-550 (-)-Lintel (with cladding)950 (1000)Lintel LDH from 4501 to 5500 mm (with cladding)970 (1020)Lintel LDH from 5501 to 6500 mm (with cladding)950 (1000)Door constructionSelf-supportingDoor leaf counterbalanceDoor leaf counterbalanceMaterial/surface of door leaf Aluminum, powder-coated, RAL to chooseGlazingSingle synthetic panesDouble-synthetic panesOperator and controlFrequency converterOperator and controlFrequency converter<	Shutter sizes	Max. width LDB		6500	6500
Fitting dimensions (space requirement) (See also the Technical Manual) Operator side (with cladding) 390 (41) 390 (-) (See also the Technical Manual) Linet (with cladding) - 550 (-) Lintel LDH up to 4500 mm (with cladding) 950 (1000) - Lintel LDH rom 4501 to 5500 mm (with cladding) 970 (1020) - Lintel LDH from 5501 to 6500 mm (with cladding) 970 (1020) - Door construction Self-supporting - - Door leaf counterbalance 0 - - Door leaf counterbalance 0 - - Audised aluminium E6/EV1 • • • Audised aluminium powder-coated, RAL to choose - - - Operator and control Frequency converter • • - Oper-Stop-Close button • • • - Oper-Stop-Close button • • • • Material/surface of door leaf files protecting vortexers • • • • Quenchat all pole synthetic panes - <td></td> <td>Max. height LDH</td> <td></td> <td>6000</td> <td>4500</td>		Max. height LDH		6000	4500
(spee arequirement) (See also the Technical Manual) Bearing side (with cladding) 390 (415) 390 (-) Lintel (with cladding) - 550 (-) Lintel LDH up to 4500 mm (with cladding) 950 (1000) - Lintel LDH from 5501 to 6500 mm (with cladding) 970 (1020) - Lintel LDH from 5501 to 6500 mm (with cladding) 950 (1000) - Door construction Self-supporting - - Door leaf counterbalance 0 - - Door leaf Andised aluminium E6/EV1 • • Material/surface of door leaf Anotised aluminium E6/EV1 • • Aluminium, powder-coated, RAL to choose 0 0 - Operator and control Frequency converter • • • Main switch all-pole switch off • •	Fitting dimensions	Operator side (with cladding	g)	430 (455)	430 (–)
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Lintel LDH from 4501 to 5500 mm (with cladding) 970 (1020) - Lintel LDH from 5501 to 6500 mm (with cladding) 950 (1000) - Door construction Self-supporting - - Door leaf counterbalance • • • Material/surface of door leaf Ancdised aluminium E6/EV1 • • • Aluminium, powder-coated, RAL to choose • • • • Glazing Single synthetic panes - - • • Oper-Stop-Close button • • • • • • Oper-Stop-Close button • <td></td> <td>Lintel LDH up to 4500 mm (</td> <td>(with cladding)</td> <td>950 (1000)</td> <td>_</td>		Lintel LDH up to 4500 mm ((with cladding)	950 (1000)	_
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Control in steel cabinet (W × H × D)400 × 600 × 200400 × 600 × 200Door constructionSelf-supportingDoor leaf counterbalanceDouble-skinned profile thickness3030Dor leafDouble-skinned profile thickness3030Material/surface of door leafAnodised aluminium E6/EV1••Material/surface of door leafAnodised aluminium E6/EV1••Material/surface of door leafAnodised aluminium E6/EV1••GlazingSingle synthetic panesDouble synthetic panesDouble synthetic panesOperator and controlFrequency converter•••Open-Stop-Close button•••••Main switch all-pole switch off•••••Fuse protection16 A, K-characteristicK-characteristicK-characteristicK-characteristicProtection category for operator and controlIP 54IP 54IP 54IP 54Route monitoringRadar••••Door area monitoringRadar••••Induction loop•••••Electronic limit switch DES••••Emergency openingEmergency crank handle		Lintel LDH from 5501 to 650	00 mm (with cladding)	950 (1000)	_
Door construction Self-supporting - - Door leaf counterbalance </td <td></td> <td>Control in steel cabinet (W></td> <td>× H × D)</td> <td>$400\times600\times200$</td> <td>$400 \times 600 \times 200$</td>		Control in steel cabinet (W>	× H × D)	$400\times600\times200$	$400 \times 600 \times 200$
Door leaf counterbalance ● ● Door leaf Double-skinned profile thickness 30 30 Material/surface of door leaf Anodised aluminium E6/EV1 ● ● Aluminium, powder-coated, RAL to choose ○ ○ ○ Glazing Single synthetic panes - - - ○ ○ Ventilation grille Ventilation cross section depending on size/version ○ ○ ○ Operator and control Frequency converter ●	Door construction	Self-supporting			
Door leaf Double-skinned profile thickness 30 30 Material/surface of door leaf Anodised aluminium E6/EV1 Image: Constraint of the stress o	Door leaf counterbalance			•	•
Thermal profile Material/surface of door leaf Andoised aluminium E6/EV1 Aluminium, powder-coated, RAL to choose Single synthetic panes Double synthetic panes Double synthetic panes Connecting voltage Single synthetic panes Connecting voltage Fuse protection The K-characteristic K-characteristic K-characteristic K-characteristic K-characteristic K-characteristic K-characteristic K-characteristic K-characteristic Ipor area monitoring Radar	Door leaf	Double-skinned profile thick	kness	30	30
Material/surface of door leaf Anodised aluminium E6/EV1 Image: Constraint of the section of the		Thermal profile		•	•
Aluminium, powder-coated, RAL to choose O O Glazing Single synthetic panes - - Double synthetic panes O O Ventilation grille Ventilation cross section depending on size/version O O Operator and control Frequency converter • • • Connecting voltage 3-400 V, N, PE 3-400 V, N, PE O • Open-Stop-Close button • <t< td=""><td>Material/surface of door leaf</td><td colspan="2">Anodised aluminium E6/EV1</td><td>•</td><td>•</td></t<>	Material/surface of door leaf	Anodised aluminium E6/EV1		•	•
Glazing Single synthetic panes - - - Double synthetic panes 0 0 Ventilation grille Ventilation cross section depending on size/version 0 0 Operator and control Frequency converter 0 0 Connecting voltage 3-400 V, N, PE 3-400 V, N, PE 3-400 V, N, PE Open-Stop-Close button 0 0 0 Main switch all-pole switch off 0 0 0 Fuse protection 16 A, 16 A, 16 A, Fuse protection category for operator and control IP 54 IP 54 Emergency-off button 0 0 0 Route monitoring Photocell 0 0 0 Light grille 0 0 0 0 0 0 Door area monitoring Radar 0		Aluminium, powder-coated,	, RAL to choose	0	0
Double synthetic panes O O Ventilation grille Ventilation cross section depending on size/version O Operator and control Frequency converter • • Connecting voltage 3-400 V, N, PE 3-400 V, N, PE 3-400 V, N, PE Open-Stop-Close button • • • • Main switch all-pole switch off • • • Fuse protection 16 A, 16 A, 16 A, Fuse protection category for operator and control IP 54 IP 54 Emergency-off button O O Route monitoring Photocell • • Light grille O O O Door area monitoring Radar O O Hold-open phase in sec. 1-200 1-200 1-200 Closing edge safety device • • • Electronic limit switch DES • • •	Glazing	Single synthetic panes		-	_
Ventilation grille Ventilation cross section depending on size/version O Operator and control Frequency converter ● Connecting voltage 3-400 V, N, PE 3-400 V, N, PE Open-Stop-Close button ● ● Main switch all-pole switch off ● ● Fuse protection 16 A, 16 A, Fuse protection category for operator and control IP 54 IP 54 Protection category for operator and control IP 54 IP 54 Emergency-off button ● ● Route monitoring Photocell ● Light grille ● ● Door area monitoring Radar ● Hold-open phase in sec. 1-200 1-200 Closing edge safety device ● ● Electronic limit switch DES ● ● Emergency opening Emergency crank handle - -		Double synthetic panes		0	0
Operator and control Frequency converter ● Connecting voltage 3-400 V, N, PE 3-400 V, N, PE Open-Stop-Close button ● ● Main switch all-pole switch off ● ● Fuse protection 16 A, 16 A, Fuse protection 16 A, 16 A, Protection category for operator and control IP 54 IP 54 Emergency-off button ○ ○ Route monitoring Photocell ● Light grille ○ ○ Door area monitoring Radar ○ Hold-open phase in sec. 1-200 1-200 Closing edge safety device ● ● Electronic limit switch DES ● ●	Ventilation grille	Ventilation cross section de	pending on size/version	0	0
Connecting voltage 3-400 V, N, PE 3-400 V, N, PE Open-Stop-Close button • • Main switch all-pole switch off • • Fuse protection 16 A, 16 A, K-characteristic K-characteristic Protection category for operator and control IP 54 IP 54 Emergency-off button • • Route monitoring Photocell • Light grille • • Door area monitoring Radar • Hold-open phase in sec. 1-200 1-200 Closing edge safety device • • Electronic limit switch DES • • Emergency opening Emergency crank handle -	Operator and control	Frequency converter		•	•
Open-Stop-Close button ● ● Main switch all-pole switch off ● ● Fuse protection 16 A, 16 A, Fuse protection category for operator and control IP 54 IP 54 Protection category for operator and control IP 54 IP 54 Emergency-off button ○ ○ Route monitoring Photocell ● ● Light grille ○ ○ ○ Door area monitoring Radar ○ ○ Hold-open phase in sec. 1-200 1-200 1-200 Closing edge safety device ● ● ● Electronic limit switch DES ● ● ● Emergency opening Emergency crank handle - -		Connecting voltage		3-400 V, N, PE	3-400 V, N, PE
Main switch all-pole switch off ● ● Fuse protection 16 A, 16 A, Fuse protection 16 A, 16 A, Protection category for operator and control IP 54 IP 54 Emergency-off button ○ ○ Route monitoring Photocell ● ● Light grille ○ ○ ○ Door area monitoring Radar ○ ○ Hold-open phase in sec. 1-200 1-200 1-200 Closing edge safety device ● ● ● Electronic limit switch DES ● ● ● Emergency opening Emergency crank handle - -		Open-Stop-Close button		•	•
Fuse protection 16 A, 16 A, K-characteristic Protection category for operator and control IP 54 IP 54 Emergency-off button 0 0 Route monitoring Photocell • • Light grille 0 0 • Door area monitoring Radar 0 0 Hold-open phase in sec. 1-200 1-200 Closing edge safety device • • Electronic limit switch DES • • Emergency opening Emergency crank handle - -		Main switch all-pole switch	off	•	•
Protection category for operator and control IP 54 IP 54 Emergency-off button 0 0 Route monitoring Photocell • • Light grille 0 0 • Door area monitoring Radar 0 0 Hold-open phase in sec. 1-200 1-200 Closing edge safety device • • Electronic limit switch DES • • Emergency opening Emergency crank handle - -		Fuse protection		16 A,	16 A,
Protection category for operator and control IP 54 IP 54 Emergency-off button O O Route monitoring Photocell • Light grille O O Door area monitoring Radar O O Induction loop O O O Hold-open phase in sec. 1-200 1-200 1-200 Closing edge safety device • • • Electronic limit switch DES • • • Emergency opening Emergency crank handle - -		Derte die entre franze	and a second second second	K-characteristic	K-characteristic
Emergency-on button 0 0 Route monitoring Photocell • Light grille 0 0 Door area monitoring Radar 0 0 Induction loop 0 0 0 Hold-open phase in sec. 1-200 1-200 Closing edge safety device • • Electronic limit switch DES • • Emergency opening Emergency crank handle - -		Protection category for ope	erator and control	IP 54	IP 54
Rotice monitoring Photocell Image: Constraint of the monitoring Light grille O O Door area monitoring Radar O O Induction loop O O O Hold-open phase in sec. 1-200 1-200 Closing edge safety device Image: Constraint of the monitoring of the monitor		Emergency-on button	Photocoll		
Light grine 0 0 Door area monitoring Radar 0 0 Induction loop 0 0 0 Hold-open phase in sec. 1-200 1-200 Closing edge safety device 0 0 Electronic limit switch DES 0 0 Emergency opening Emergency crank handle - -		noule monitoring			
Door area monitoring Nadar O O Induction loop O O Hold-open phase in sec. 1-200 1-200 Closing edge safety device Image: Closing edge safety device Image: Closing edge safety device Electronic limit switch DES Image: Closing edge safety device Image: Closing edge safety device Emergency opening Emergency crank handle Image: Closing edge safety device Image: Closing edge safety device		Deer eree menitoring	Light grille Reder	0	
Hold-open phase in sec. 1-200 1-200 Closing edge safety device ● ● Electronic limit switch DES ● ● Emergency opening Emergency crank handle - -		Door area monitoring		0	
Inde-open phase in sec.In-200In-200Closing edge safety device••Electronic limit switch DES••Emergency openingEmergency crank handle-		Hold open phase in see	Induction loop	1 200	1 200
Emergency opening Emergency crank handle – –		Closing edge safety device		1-200	1-200
Emergency opening Emergency crank handle - -		Electronic limit switch DES			
	Emergency opening	Electronic limit switch DES			
Emergency hand chain	Emergency opening	Emergency band chain			
		Counter weight/spring			
FIL control with LIPS 230 V		FIL control with LIPS 220 V		_/_	_/_
Volt-free contacts	Volt-free contacts			-	
Impulse generator O O	Impulse generator			0	0
Safety devices O O	Safety devices			0	0

Spiral Doors HSS 6530



Space required to dismantle the operator If LDH > 4500 mm – \leq 5500 mm

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*** If LDH > 5500 mm LDH Clear passage height LDB Clear passage width SD Lintel seal = LDH + 100

Spiral Doors HSS 6530 Full cladding



Space required to dismantle the operator If LDH > 4500 mm - \leq 5500 mm If LDH > 5500 mm

** ***

LDH Clear passage height LDB Clear passage width

Spiral Doors HSS 6530 L



** Centre fixing of ceiling suspension

*** LDH ≤ 3250 mm = 1770 mm LDH > 3250 mm = 2350 mm LDHClear passage heightLDBClear passage widthSDLintel seal = LDH + 90

Spiral Doors Technical data

			HS 7030 PU		
Use	Internal door		•		
	External door	•			
Speed	Opening speed approx. m/see	С.	1.5-2.5		
	Closing speed approx. m/sec	•	0.5-0.8		
Safety equipment	DIN EN 13241.1		•		
Resistance to wind load	DIN EN 12424		Class 4		
Resistance to water					
penetration	DIN EN 12425		Class 3		
Air permeability	DIN EN 12426		-		
Transmission of heat	DIN EN 12428		1.95		
Acoustic insulation	DIN EN 52210 dB		26		
Shutter sizes	Max. width LDB		6500		
	Max. height LDH		6000		
Fitting dimensions	Operator side (with cladding)		665 (665)		
(space requirement)	Bearing side (with cladding)		365 (415)		
(See also the Technical Manual)	Lintel (with cladding)		_		
	Lintel LDH up to 5000 mm (wi	ith cladding)	885 (970)		
	Lintel LDH from 5001 to 6000	mm (with cladding)	920 (1005)		
	Control in steel cabinet (W × H	H × D)	$400 \times 600 \times 200$		
Door construction	Self-supporting		-		
Door leaf counterbalance			•		
Door leaf	Double-skinned section thick	ness	42		
	Foamed door leaf		•		
Material/surface of door leaf	Steel, RAL 9006		•		
	Wet coating in RAL to choose	0			
	Aluminium rail window, anodis	•			
Glazing	Double synthetic panes		•		
	Triple synthetic panes		0		
Ventilation grille	Ventilation cross section depe	ending on size/version (min. 30%)	0		
Operator and control	Frequency converter	•			
	Connecting voltage (3-phase)	3-400 V, N, PE			
	Open-Stop-Close button	•			
	Main switch all-pole switch of	•			
	Fuse protection		16 A,		
			K-characteristic		
	Protection category for operation	tor and control	IP 54		
	Emergency-on button	10 - Constant and a second second	0		
	Closing edge salety device w	Cofety light crille ID 67			
	of the closing zone	Safety light grille IP 67	•		
	External route monitoring	Photocell			
	External foute monitoring		\bigcirc		
	Door area monitoring	Badar presence detector			
	Bool area monitoring				
	Hold-open phase in sec		1-200		
	Flectronic limit switch DES				
Emergency opening	Emergency crank handle		-		
	Emergency hand chain		•		
	Counter weight/spring		_/_		
	FU control with UPS 230 V (1)	-phase)	,		
Volt-free contacts			0		
Impulse generator			<u>~</u>		
Safety devices			<u>_</u>		
			-		

Spiral Doors HS 7030 PU



Space required to fit/dismantle the operator **

- If LDH \leq 5000 mm If LDH > 5000 mm \leq 6000 mm ***
- LDH Clear passage height **LDB** Clear passage width **SD** Lintel seal = LDH + 90

Shaft supports LDB > 3315 = 1 unit in centre LDB > 5000 = 2 units equally distributed ws

Spiral Doors HS 7030 PU



Space required to dismantle the operator **

If LDH \leq 5000 mm If LDH > 5000 mm – \leq 6000 mm

LDH Clear passage height LDB Clear passage width

Notes



Flexible Internal Doors

Technical data

			V 2715 SEL R	V 5015 SEL	V 5030 SEL
Use	Internal door		•	•	•
	External door				Wind
					protected 1)
Speed	FU control	Opening speed approx. m/sec.	1.5	1.5	2.0-3.0
		Closing speed approx. m/sec.	0.8	0.8	0.8
Safety equipment	DIN EN 13241		•	•	•
Resistance to wind load	DIN EN 12424		Class 0	Class 0	Class 0/1
					with aluminium
Curtain atabilization /M/C	Alu (anving steel				bottom profile
Shutter sizes	Max width LDP		2750	5000	-/•
Shutter sizes	Max. width LDB		2750	5000	5000
Eitting dimonsions			(200)	245 (275)	295 (425)
(space requirement)	Deering side	LDB + IIIII (with cladding)	(200)	175 (175)	255 (200)
(See also the Technical Manual)	Bearing side		- (200)	175 (175)	255 (290)
(,	Linter	LDH + IIIII	460	440	440/520%
		LDH + mm cladding 20° (5°)	400	630	<u>490/370⁻⁹</u> 620/710 ¹⁾
	ELL control in plastic			000	000/710 /
	cabinet	$(W \times H \times D)$	200 × 400 × 200	$200 \times 400 \times 200$	$200 \times 400 \times 200$
	EU control in steel cabinet	$(W \times H \times D)$	200 × 400 × 200	200 × 400 × 200	200 × 400 × 200
		(stainless steel 1.4301) UPS	$400 \times 600 \times 200$	$400 \times 600 \times 200$	400 × 600 × 200
Anti-Crash/crash-protection	With automatic/manual star	t-up	Crash-	Anti-Crash	Anti-Crash
			protection		
Door construction	Self-supporting		•	•	•
	Fabric/transparent	1.5/2.0 mm	•	•	•
	Transparent	4.0 mm	-	-	-
Curtain/door leaf tension			-	-	_
Material/surface guide	Galvanized steel		•	•	•
	Galvanized steel, coated, in	colours based on RAL	0	0	0
	Polished stainless steel V2A	A	0	0	0
Shaft/operator cover	Straight		•	0	0
	30° chamfered (5°)		0	0	0
Operator and control	FU control		•	•	•
	Connecting voltage (1-phase)		1-230 V, N, PE	1-230 V, N, PE	1-230 V, N, PE
	Connecting voltage (3-phas	e)			3-400 V, N, PE
	Open-Stop-Close button		•	•	
	FU control, main switch all-p	pole switch off, 1-phase/3-phase	0/-	0/-	
	Fuse protection		16 A, K observatoriatio	16 A, K observatoriatio	16 A, K observatoriatio
	Protoction cotogon/	Operator control			
	Emergency-off button	Operator, control	0	0	0
	Closing edge safety device	With energy chain		_	
	Monitoring	Safety light grille IP 67	•	•	•
	of the closing zone	Caroly light gime in or	•	•	•
	External route monitoring	Photocell	0	0	0
	Ŭ	Light grille	0	0	0
	Door area monitoring	Radar presence detector	0	0	0
		Induction loop	0	0	0
	Hold-open phase in sec.		1-200	1-200	1-200
	Electronic limit switch DES		•	٠	•
Emergency opening	Crank handle		-	•	•
	Emergency hand chain		-	-	-
	Counter weight/springs		_/_	-/-	_/_
	FU control with UPS 230 V	(1-phase)	0	0	0
Volt-free contacts			0	0	0
Impulse generator			0	0	0
Safety devices			0	0	0

Standard
 Optional

WS Wind lock

1) Optional with aluminium bottom profile

Vertical High-Speed Doors V 2715 SEL R



XOrder-relatedLDHClear passage height

LDB Clear passage width SD Lintel seal = LDH + 190

Vertical High-Speed Doors V 5015 SEL



Space required to dismantle the operator

For emergency crank handle Order-related ****

х

LDH Clear passage height LDB Clear passage width SD Lintel seal = LDH + 170

Vertical High-Speed Doors V 5015 SEL

Full cladding, straight



* Space required to dismantle the operator ***** For emergency crank handle **LDH** Clear passage height **LDB** Clear passage width

Vertical High-Speed Doors V 5015 SEL

Full cladding, chamfered



* Space required to dismantle the operator ***** For emergency crank handle LDHClear passage heightLDBClear passage width

Vertical High-Speed Doors V 5030 SEL



Vertical High-Speed Doors V 5030 SEL

Full cladding, straight





* Space required to dismantle the operator

** With aluminium bottom part

***** For emergency crank handle

LDH Clear passage height LDB Clear passage width

Vertical High-Speed Doors V 5030 SEL

Full cladding, chamfered



** With aluminium bottom part ***** For emergency crank handle LDHClear passage heightLDBClear passage width

Flexible External Doors

Technical data

			V 6030 SEL	V 6020 TR I	V 10008
Use	Internal door				• 10000
	External door		•	•	•
Speed	FLI control	Opening speed approx, m/sec	20-30	15-20	0.8-1.5
opeed		Closing speed approx. m/sec.	0.8	0.5	0.0
Safety equipment	DIN EN 13241	Closing speed approx. m/sec.	0.0	0.5	0.4
Posistance to wind load	DIN EN 13241		Class 2	Class 2	Class 3
Curtain stabilisation/WS					
Shutter sizes	Max width LDR		5000	6000	10000
Shutter Sizes	Max. width LDB		6000	7000	6250
Eitting dimonsions			460 (505)	420 (470)	5/5 (590)
(space requirement)	Deering side	LDB + mm (with cladding)	400 (303)	420 (470)	200 (200)
(See also the Technical Manual)	Bearing side	LDB + mm (with curtain fixing)	540 (615)	<u> </u>	390 (390)
(000 000 000 000 000 000 000 000 000 00	Linter	LDH + mm streight sladding	540 (615)	700	- (745)
		LDH + mm, straight cladding	590	720	(0.40)
	The second second second	LDH + mm cladding 30° (5°)	730	800	(840)
	FU control in plastic		200 400 200	200 400 200	
			200 × 400 × 200	200 × 400 × 200	
	FU control in steel cabinet	$(VV \times H \times D)$ (Staiplass steel 1 (201)	400 × 600 × 200	400 × 600 × 200	400 × 600 × 200
Anti-Crash/orash-protection	With automatic/manual star	(Stairliess Steer 1.4501)	400 × 000 × 200	400 × 000 × 200	400 × 000 × 200
Anti-Grash/crash-protection	with automatic/manual star	n-up		-	-
Door construction	Self-supporting		protection		
Door construction	Eabric/transparent	1.5/2.0 mm			
		$4.0 (< 25 \text{ mm}^2) / 2.4/4.0 \text{ mm}$			
Curtain/dear leaf tension	Transp./Tablic/transp.	4.0 (< 23 mm) / 2.4/4.0 mm	_/_		
Material/surface guide	Galvanized steel				
Material/surface guide	Galvanized steel				
	Polished stainless steel V2A			0	0
Shaft/operator cover	Straight			0	
Shart/operator cover	30° chamfered (5°)			0	(
Operator and control					
operator and control	Connecting voltage (1-phase)		1-230 V N PE	1-230 V N PE	
	Connecting voltage (3-phase)		3-400 V N PE	3_400 V N PE	3_400 V N PE
	Open Step Close butten	0-400 V, IV, I L	0-400 V, N, T L	0-400 V, N, T L	
	El control main switch all t	agle switch off 1 phase/3 phase			
	Fue pretection	Sole switch on, 1-phase/3-phase	16 4	16 4	16 4
	Tuse protection		K-characteristic	K-characteristic	K-characteristic
	Protection category	Operator control	IP 54	ID 54	
			0	0	0
	Closing edge safety device	With energy chain			
	Monitoring	with chergy chain			•
	of the closing zone	Safety light grille IP 67	•	•	_
	External route monitoring	Photocell (internal)		0	
	External forte mentering				
	Door area monitoring	Badar presence detector	0	0	
	Door aloa mornioring				
	Hold-open phase in sec		1-200	1-200	1-200
	Electronic limit switch DES		. 200	. 200	. 200
Emergency opening	Crank handle				
	Emergency hand chain				•
	Counter weight/enringe			_/_	_/_
	FLI control with LIPS 220 V	(1-phase)			-
Volt-free contacts					
Impulse generator					
Safety devices					
Galoty advided			\cup	\cup	\cup

Standard
 Optional

Vertical High-Speed Doors V 6030 SEL





Space required to dismantle the operator
 With curtain fixing
 Only if fitted to steel

**** Only if fitted to steel ***** For emergency crank handle X Order-related
 LDH Clear passage height
 LDB Clear passage width
 SD Lintel seal = LDH + 270

Vertical High-Speed Doors V 6030 SEL

Full cladding, straight



* Space required to dismantle the operator ***** For emergency crank handle **LDH** Clear passage height **LDB** Clear passage width

Vertical High-Speed Doors V 6030 SEL

Full cladding, chamfered



* Space required to dismantle the operator ***** For emergency crank handle LDH Clear passage height LDB Clear passage width

Vertical High-Speed Doors V 6020 TR L





* Space required to dismantle the operator

** Space requirement for fitting curtain fixing

*** Space requirement for swivelling range cover

***** For emergency crank handle

Vertical High-Speed Doors V 6020 TR L

Full cladding, straight



Space required to dismantle the operator
 Space requirement for swivelling range cover
 For emergency crank handle

LDH Clear passage height LDB Clear passage width

Vertical High-Speed Doors V 6020 TR L

Full cladding, chamfered



Space required to dismantle the operator
 Space requirement for swivelling range cover

***** For emergency crank handle

LDH Clear passage height LDB Clear passage width



* Space required to dismantle the operator

*** Space requirement for swivelling range cover

X Order-related

LDHClear passage heightLDBClear passage widthSDLintel seal = LDH + 345

Full cladding



LB > 7300 mm or LDH > 6500 mm
 Space requirement for swivelling range cover

LDH Clear passage height LDB Clear passage width

Rolling Shutter and Vertical High-Speed Door

Door combination

Rolling shutter Decotherm (HR 116, HR 120) with direct drive operator and ZAK system, vertical high-speed door V 6030 SEL



Cold Store and Deep Freeze Doors

Technical data

			ISO SPEED COLD	V 4015 ISO L
Use	Internal door		•	•
	External door		•	-
Speed	FU control	Opening speed approx. m/sec.	2.0	1.5
		Closing speed approx. m/sec.	0.5	0.5
Safety equipment	DIN EN 13241	<u> </u>	•	•
Resistance to wind load	DIN EN 12424		Class 3	Class 0
Curtain stabilisation/WS	Alu/spring steel		_/_	•/-
Shutter sizes	Max. width LDB		5000	4000
	Max. height LDH		5000	4500
Fitting dimensions				
(space requirement)	Operator side	LDB + mm (with cladding)	510 (–)	325 (360)
(See also the Technical Manual)	Bearing side	LDB + mm		
		(with cladding/counter weight)	375 (-/375)	295 (325/-)
	Lintel	LDH + mm	1)	630
		LDH + mm, straight cladding	-	- (700)
	Et l'acettal in alactic achieve	LDH + mm cladding 30° (5°)	- (-)	- (720)
	FU control in plastic cabinet		-	200 × 400 × 200
	FU CONTROL IN STEEL CADINET	$(VV \times H \times U)$ (Stainless steel 1 4301)	400 x 600 x 200	400 × 600 × 200
Anti-Crash/crash-protection	With automatic/manual start-u			-
Door construction	Self-supporting	4	•	
Curtain/door leaf	Door leaf	80 mm, PU-foamed	•	_
	Curtain	20 mm. PO foam	_	•
Curtain/door leaf tension			_	_
Material/surface guide	Galvanized steel		•	•
Ũ	Galvanized steel, coated, in co	olours based on RAL	0	0
	Polished stainless steel V2A		0	0
Shaft/operator cover	Straight		-	-
	30° chamfered (5°)		-	(0)
Operator and control	FU control		•	•
	Connecting voltage (1-phase)		-	1-230 V, N, PE
	Connecting voltage (3-phase)		3-400 V, N, PE	-
	Open-Stop-Close button		•	•
	FU control, main switch all-po	le switch off, 1-phase/3-phase	_/●	⊖/-
	Fuse protection		20 A,	16 A,
			K-characteristic	K-characteristic
	Protection category	Operator, control	IP 54	IP 54
	Emergency-off button		0	0
	Closing edge safety device	With energy chain	•	-
	Monitoring	Safety light grille IP 67	-	•
	External route monitoring	Photocell (internal)		
	External foute monitoring			
	Door area monitoring	Badar presence detector	0	
	Bool area monitoring	Induction loop	0	
	Hold-open phase in sec.		1-200	1-200
	Electronic limit switch DES		•	•
Emergency opening	Crank handle		•	•
	Emergency hand chain		0	_
	Counter weight/springs		•/-	_/_
	FU control with UPS 230 V (1-	phase)	-	0
Volt-free contacts		. ,	0	0
Impulse generator			0	0
Safety devices			0	0

1) Track application N: LDH + 950 mm, track application V: LDH x 2 + 800 mm

Standard

O Optional

WS Wind lock

Sectional Doors ISO SPEED COLD

H tracks

Door version with high-lift track application NH, H and HD





*	Space required to dismantle the operator
Х	Order-related
LDH	Clear passage height
LDB	Clear passage width
ET	Distance back
DA	Distance to ceiling

- DH Rear ceiling anchor
- DM Centre ceiling anchor
- EN Ceiling height
- LH Track height
- FFL Finished floor level

Sectional Doors ISO SPEED COLD

Track application V

Door version with vertical track application and overhead operator (V)



Space required to dismantle the operator

Order-related Х

LDH Clear passage height

LDB Clear passage width DE FFL Min. ceiling height $\ge 2 \times LDH + 850 \text{ mm}$

Finished floor level

Vertical High-Speed Doors V 4015 ISO



*** Optional cladding 5°

***** For emergency crank handle

LDB Clear passage height SD Clear passage width SD Lintel seal = LDH + 380

Special Doors Technical Data

			V 3015 RW
Use	Internal door		•
	External door		_
Speed	FU control	Opening speed approx. m/sec.	1.5
		Closing speed approx. m/sec.	0.8
Safety equipment	DIN EN 13241		•
Resistance to wind load	DIN EN 12424		Class 0
Curtain stabilisation/WS	Alu/spring steel		•/-
Shutter sizes	Max. width LDB		3000
	Max. height LDH		3000
Fitting dimensions	Operator side	LDB + mm (with cladding)	325 (355)
(space requirement)	Bearing side	LDB + mm (with cladding)	300 (300)
See also the Technical Manual	Lintel	LDH + mm	440
		LDH + mm, straight cladding	490
		LDH + mm cladding 30° (5°)	670
	FU control in plastic cabinet	$(W \times H \times D)$	_
	FU control in steel cabinet	$(W \times H \times D)$	300 × 400 × 150
		(Stainless steel 1.4301)	
Anti-Crash/crash-protection	With automatic/manual start-up		Anti-Crash
Door construction	Self-supporting		•
Curtain/door leaf	Fabric/transparent	1.5/2.0 mm	•
	Transparent	4.0 mm	-
Curtain/door leaf tension			-
Material/surface guide	Galvanized steel		•
	Galvanized steel, coated, in colours	based on RAL	0
	Polished stainless steel V2A		0
Shaft/operator cover	Straight		0
	30° chamfered (5°)		0
Operator and control	WU control		
	FU control		•
	Connecting voltage (1-phase)		1-230 V, N, PE
	Connecting voltage (3-phase)		
	Open-Stop-Close button		•
	FU control, main switch all-pole swi	tch off, 1-phase/3-phase	•/-
	Fuse protection		16 A,
	Directory actorian	Operator control	
	Frotection category	Operator, control	IP 54
		With operate chain	With opiral appla
	Monitoring		
	of the closing zone	Salety light grille in 07	-
	External route monitoring	Photocell (internal)	(●)
		Light grille	0
	Door area monitoring	Radar presence detector	0
	J	Induction loop	0
	Hold-open phase in sec.	•	1-200
	Electronic limit switch DES		•
Emergency opening	Crank handle		-
	Emergency hand chain		-
	Counter weight/springs		•/-
	FU control with UPS 230 V (1-phase	e)	_
Volt-free contacts			0
Impulse generator			0
Safety devices			0

V 2515 FOOD L	V 2012	V 1401 ATEX	V 3015 CLEAN	V 3009	H 3530
•	•	•	•	•	•
-	-	-	-	-	-
1.2	1.2	1.4	1.5	(AKE 0.8)	3.0
0.8	0.5	0.5	0.5	(AKE 0.8)	1.0
•	•	•	•	•	•
Class 0	Class 0	Class 0	Class 0	Class 0	Class 0
_/●	_/●	•/-	_/●	•/-	_/_
2500	2500	4000	2500	3000	3500
3000	2500	4000	3000	3000	3500
- (355)	- (345)	435 (475)	- (380)	310 (310)	- (355)
- (200)	- (180)	150 (150)	- (225)	150 (180)	- (355)
	_	660	-	300	-
	400	700	-	335	370
(480)	-	850	(550)	480	520
	$200 \times 400 \times 200$		_	$200 \times 400 \times 200$	$200 \times 400 \times 200$
300 × 400 × 150 V2A	-	$600 \times 600 \times 200$	300 × 400 × 150	-	_
Anti-Crash	Anti-Crash	-	-	-	-
•	•	•	•	•	
•	•	•	-	•	•
-	-	-	•	-	-
-	-	-	-	-	•
-	•	•	•	•	•
-	0	0	0	0	0
•	-	0	0	0	0
-	•	0	-	0	•
(●)	-	0	(●)	0	0
-	-	-	-	•	-
•	•	•	•	0	•
1-230 V, N, PE	1-230 V, N, PE	1-230 V, N, PE	1-230 V, N, PE	1-230 V, N, PE	1-230 V, N, PE
	-	-	-	-	-
•	•	•	•	•	•
•/-	_/_	•/-	0/-	0/-	0/-
16 A,	16 A,	16 A,	16 A,	10 A (16 A,	16 A,
K-characteristic	K-characteristic	K-characteristic	K-characteristic	K-characteristic/FU)	K-characteristic
IP 65	IP 54	IP 54	IP 54	IP 54	IP 54
O	0	0	0	0	0
	-	•	•	•	•
•	-	-	-	-	-
0	-	(●)	(●)	(●)	(●)
0	•	-	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
1-200	1-200	1-200	1-200	1-200	1-200
•	•	_	•	•	•
	-	•	•	•	-
	-	-			-
/	•/-	_/_	_/_	_/_	_/●
0	-	-	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

Vertical High-Speed Doors V 3015 RW





Space required to dismantle the operator

For emergency crank handle Order-related ****

х

LDHClear passage heightLDBClear passage widthSDLintel seal = LDH + 165

Vertical High-Speed Doors V 3015 RW

Full cladding, straight



* Space required to dismantle the operator ***** For emergency crank handle LDHClear passage heightLDBClear passage width

Vertical High-Speed Doors V 3015 RW

Full cladding, chamfered



* Space required to dismantle the operator ***** For emergency crank handle LDHClear passage heightLDBClear passage width

Vertical High-Speed Doors V 2515 FOOD L



- Space required to dismantle the operator
- х Order-related

- LDH Clear passage height **LDB** Clear passage width **SD** Lintel seal = LDH + 170



- * Space required to dismantle the operator
- X Order-related

Vertical High-Speed Doors V 1401 ATEX





Space required to dismantle the operator For emergency crank handle Order-related *****

Х

- LDHClear passage heightLDBClear passage widthSDLintel seal = LDH + 160

Vertical High-Speed Doors V 1401 ATEX

Full cladding, straight



* Space required to dismantle the operator ***** For emergency crank handle LDH Clear passage height LDB Clear passage width

Vertical High-Speed Doors V 1401 ATEX

Full cladding, chamfered





* Space required to dismantle the operator ***** For emergency crank handle LDH Clear passage height LDB Clear passage width

Vertical High-Speed Doors V 3015 CLEAN



Space required to dismantle the operator ***** For emergency crank handle

LDH Clear passage height

LDB Clear passage width SD Lintel seal = LDH + 225 and LDH + 438



Space required to dismantle the operator For emergency crank handle Order-related ****

Х

LDH Clear passage height LDB Clear passage width SD Lintel seal = LDH + 140

Full cladding, straight

* Space required to dismantle the operator ***** For emergency crank handle LDH Clear passage height LDB Clear passage width

Full cladding, chamfered

* Space required to dismantle the operator ***** For emergency crank handle

LDHClear passage heightLDBClear passage width

Horizontal High-Speed Doors H 3530

Full cladding, straight

- LDH Clear passage height
- LDB Clear passage width

Horizontal High-Speed Doors H 3530

Full cladding, chamfered

LDH Clear passage height

LDB Clear passage width

Notes

Notes

Hörmann: Quality without Compromise

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