

Hormann Industrial Sectional Doors 42mm Technical Manual



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Technical manual

As of 01.10.2024

Industrial sectional doors

Series 60
Depth 42 mm

Contents

Contents		Page
Product descriptions		4–5
Technical data overview		6–7
Overview of track applications		8–9
SPU F42	Double-skinned steel sectional door, Stucco-textured / Micrograin, door sections 625 and 750 mm high	10
SPU F42	With wicket door with trip-free threshold, Stucco-textured / Micrograin, door sections 625 and 750 mm high	11
SPU F42	With wicket door and threshold rail, Stucco-textured / Micrograin, door sections 625 and 750 mm high	12
SPU F42	Double-skinned steel sectional door, Stucco-textured / Micrograin, door sections 375 and 500 mm high	13
SPU F42	With wicket door with trip-free threshold, Stucco-textured / Micrograin, door sections 375 and 500 mm high	14
SPU F42	With wicket door and threshold rail, Stucco-textured / Micrograin, door sections 375 and 500 mm high	15
SPU F42	Glazing heights (centre of window from FFL) for door section heights of 500, 625 and 750 mm	16
SPU F42	Calculating the glazing heights (centre of window from FFL)	17
APU F42	Glazed aluminium sectional door with steel bottom section	18
APU F42	Bottom section height 750 with wicket door and trip-free threshold	19
APU F42	Bottom section height 750 with wicket door and threshold rail	20
APU F42	Bottom section height 1500 with wicket door and trip-free threshold	21
APU F42	Bottom section height 1500 with wicket door and threshold rail	22
APU F42 Thermo	Glazed aluminium sectional door with thermal break, with steel bottom section	23
APU F42 Thermo	Bottom section height 750 with wicket door and trip-free threshold	24
APU F42 Thermo	Bottom section height 750 with wicket door and threshold rail	25
APU F42 Thermo	Bottom section height 1500 with wicket door and trip-free threshold	26
APU F42 Thermo	Bottom section height 1500 with wicket door and threshold rail	27
ALR F42	Glazed aluminium sectional door	28
ALR F42	with wicket door and trip-free threshold	29
ALR F42	with wicket door and threshold rail	30
ALR F42 Thermo	Glazed aluminium sectional door with thermal break	31
ALR F42 Thermo	with wicket door and trip-free threshold	32
ALR F42 Thermo	with wicket door and threshold rail	33
ALR F42 Glazing	Aluminium sectional door with extensive glazing, real glass	34
ALR F42 Vitraplan	Aluminium sectional door with exclusive glazing	35
ALR F42 Vitraplan AT	Aluminium sectional door with exclusive facade panels	36
Glazing and wicket door arrangements		37–39
Infills, fields and glazing series 40		40
Wind load class	Resistance to wind load	41
Side doors		
NT 60 / NT 80 Thermo	Possible handing options	42
Side doors NT 60		43–46
Side doors NT 60 RC 2		47
Side doors NT 80 Thermo		48–51
Side doors NT 80 Thermo RC 2		52
Fixed elements		53
Clear passage series 60		54
Track application N	Normal track application	55
Track application NA	Normal track application with high-mounted torsion spring shaft	56
Track application ND	Normal track application with inclination	57–58
Track application NS	Normal track application with double radius	59
Track application NK	Normal track application with double radius and inclination	60
Track application NH	Normal track application with minimum high-lift	61
Track application GD	Normal track application with inclination and minimum high-lift	62
Track application GS	Normal track application with double radius and minimum high-lift	63
Track application GK	Normal track application with double radius and inclination minimum high-lift	64
Track application L	Low headroom track application	65
Track application LD	Low headroom track application with inclination	66

Contents

Contents	Page
Track application H	High-lift track application 67
Track application HA	High-lift track application with high-mounted torsion spring shaft 68
Track application HD	High-lift track application with inclination 69
Track application HS	High-lift track application with double radius 70
Track application HK	High-lift track application with double radius and inclination 71
Track application HU	High-lift track application with low-mounted torsion spring shaft 72
Track application RD	High-lift track application with low-mounted torsion spring shaft and inclination 73
Track application RS	High-lift track application with double radius and low-mounted torsion spring shaft 74
Track application RK	High-lift track application with double radius and inclination 75
Track application V	Vertical track application 76
Track application VA	Vertical track application with high-mounted torsion spring shaft 77
Track application VS	Vertical track application with inclination 78
Track application VU	Vertical track application with low-mounted torsion spring shaft 79
Track application WS	Vertical track application with inclination and low-mounted torsion spring shaft 80
Siderooms	81 – 82
Lintel fittings	83
Bottom edge	84
Chain hoist	85
Hand pulley with rope or link steel chain	86
Ceiling anchor	87 – 88
Diagonal strut	89
Shaft operator WA 300	90 – 92
Shaft operator WA 500 / 500 FU	As a frame-mounted operator 93
	with chain box 94
	for central mounting 95 – 97
Chain drive operator ITO 500 FU	98
Operator SupraMatic HT	99 – 100
Shaft operators WA 300 / WA 500, door leaf speeds	101
Door leaf speeds WA 500 FU	102 – 104
Functional principle of sectional door Parcel	105
Sectional door Parcel	106
Track application HP	High-lift track application for sectional door Parcel with high- and low-mounted torsion spring shaft 107
Track application VP	Vertical track application for sectional door Parcel with high- and low-mounted torsion spring shaft 108
Movable centre support	for industrial sectional doors with an opening width of up to 24 m 109 – 112
Infill overview and determination of the roof slope	113
Overview of profile cylinders	114

Note:

All information in this document can only represent the status upon document creation.

Therefore deviations from the product configurator may occur.

All dimensions in mm.

Subject to design changes.

Detailed door leaf constructions and track applications as well as fitting examples are provided in this manual.

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Product descriptions

Door type	Door leaf / wicket door
Sectional door SPU F42: double-skinned steel sectional door, Stucco-textured / Micrograin, door sections 625 and 750 mm high	
Door leaf	Door sections made of PU-foamed, hot-galvanized sections. Door sections Stucco-textured on inside and outside with uniform horizontal ribbing, or Micrograin with fine horizontal embossing outside and Stucco-textured inside, 625 and 750 mm high, depth 42 mm. All door sections with finger trap protection. Surface protection with high-quality exterior coil coating and interior primer coating. Ventilation grilles optional.
Wicket door	Only to be installed in the centre fields of the door. Cannot be fitted in the outer fields – note the arrangement! Only opening outwards, LH or RH hinged. Ventilation grilles are not possible in wicket doors. In doors with wicket door without threshold rail, the clear frame dimensions (ordering size, LZ) must not exceed the clear opening width +10 mm. Attention (for threshold rail): For grid heights 2000, 2125 and 2250 mm, the clear opening height must not be lower than the door height.
Glazing	Glazing frames of anodised aluminium extrusion profiles in the standard version or with thermal breaks or alternatively sections with compound glazing are possible within the fitting area shown below. Fewer compound glazings or different arrangements are possible subject to the minimum distances. Glazing frames are possible from FFL and compound glazing from 625 / 750 mm above FFL.
Sectional door SPU F42: double-skinned steel sectional door, Stucco-textured / Micrograin, door sections 375 and 500 mm high	
Door leaf	Door sections made of PU-foamed, hot-galvanized sections. Door sections Stucco-textured on inside and outside with uniform horizontal ribbing, or Micrograin with fine horizontal embossing outside and Stucco-textured inside, 375 and 500 mm high, depth 42 mm. All door sections with finger trap protection. Surface protection with high-quality exterior coil coating and interior primer coating. Ventilation grilles optional.
Wicket door	Only to be installed in the centre fields of the door. Cannot be fitted in the outer fields – note the arrangement! Only opening outwards, LH or RH hinged. Ventilation grilles are not possible in wicket doors. In doors with wicket door without threshold rail, the clear frame dimensions (ordering size, LZ) must not exceed the clear opening width +10 mm. Attention (for threshold rail): For grid heights 2000 and 2125 mm, the clear opening height must not be lower than the door height.
Glazing	Glazing frames of anodised aluminium extrusion profiles in the standard version or with thermal breaks or alternatively sections with compound glazing are possible within the fitting area shown below. Fewer compound glazings or different arrangements are possible subject to the minimum distances. Glazing frames are possible from FFL and compound glazing from 500 mm above FFL.
Sectional door APU F42 / APU F42 Thermo: glazed aluminium sectional door with steel bottom section / glazed aluminium sectional door with thermal break, with steel bottom section	
Door leaf	Bottom section made of hot-galvanized, PU-foamed sections, 750 (standard version), or 1500 mm high, Stucco-textured inside and outside with uniform horizontal ribbing, or Micrograin with fine horizontal embossing on outside and Stucco-textured inside. Surface protection with high-quality exterior coil coating and interior primer coating. Other door sections with glazing made of standard anodised aluminium extrusion profiles (APU F42) or with thermal break (APU F42 Thermo). Depth: 42 mm. All door sections with finger trap protection. Infill: clear synthetic double panes, 26 mm (S2). Ventilation grilles in the bottom section possible.
Wicket door	Depending on the door type, made of anodised aluminium extrusion profiles in the standard version or with thermal breaks, installed into the centre fields of the door. Cannot be fitted in the outer fields – note the arrangement! Only opening outwards, LH or RH hinged. Ventilation grilles are not possible in wicket doors. In doors with wicket door without threshold rail, the clear frame dimensions (ordering size, LZ) must not exceed the clear opening width +10 mm. Attention (for threshold rail): If the wicket door has the same number of door sections as the sectional door, the clear opening height must not be lower than the door height (RM).
Sectional door ALR F42 / ALR F42 Thermo: glazed aluminium sectional door / glazed aluminium sectional door with thermal break	
Door leaf	Door sections with glazing made of standard anodised aluminium extrusion profiles (ALR F42) or with thermal break (ALR F42 Thermo). Depth: 42 mm. All door sections with finger trap protection. Bottom door section made of PU infill with 26 mm Stucco-textured aluminium sheet cover on both sides (FU), other door sections with 26 mm clear synthetic double panes (S2). Ventilation grilles in the bottom section possible.
Wicket door	Depending on the door type, made of anodised aluminium extrusion profiles in the standard version or with thermal breaks, installed into the centre fields of the door. Cannot be fitted in the outer fields – note the arrangement! Only opening outwards, LH or RH hinged. Ventilation grilles are not possible in wicket doors. In doors with wicket door without threshold rail, the clear frame dimensions (ordering size, LZ) must not exceed the clear opening width +10 mm. Attention (for threshold rail): If the wicket door has the same number of door sections as the sectional door, the clear opening height must not be lower than the door height (RM).

Product descriptions

Door type		Door leaf / wicket door	
Sectional door ALR F42 Glazing: aluminium sectional door with extensive glazing, real glass			
Door leaf		Door sections of standard anodised aluminium extrusion profiles. Depth: 42 mm. All door sections with finger trap protection. All door section infills in 6 mm laminated safety glass (VG). Uniform infill heights.	
Sectional door ALR F42 Vitraplan: aluminium sectional door with exclusive glazing			
Door leaf		Door sections made of standard aluminium extrusion profiles. Depth: 42 mm. Exterior and interior high-quality wet coating. All door sections with finger trap protection and synthetic double panes, 26 mm (S2), clear, and 4 mm transparent synthetic glazings fitted in front, in grey. Ventilation grilles are not possible in the bottom section.	
Sectional door ALR F42 Vitraplan AT: Aluminium sectional door with facade covering			
Door leaf		Door sections made of standard aluminium extrusion profiles. Depth: 42 mm. Exterior and interior high-quality wet coating. All door sections with finger trap protection and PU infill with aluminium sheet cover, Stucco-textured on both sides, (FU) 26 mm and facade panels fitted in front. Ventilation grilles are not possible in the bottom section.	
Sectional door Parcel			
Door leaf		The divisible industrial door for special package loading requirements. The optimal solution for the joint use of the same loading bay by both lorries and vans.	
Door versions		SPU F42 Parcel, APU F42 Parcel Releasing an espagnolette lock can decouple one or more door sections.	
Frame / track application			
Enclosed, moulded angle frame with press-fitted external seal, made of hot-galvanized steel with screwed track and double radius 510 mm.			
Door lock			
Manually operated		Inside locking using a shootbolt, self-locking rotary latch (on request for track applications that have a low-mounted torsion spring shaft) or self-locking floor locking.	
Power-driven		Inside locking using a shootbolt	
Counterbalance			
Torsion springs, with carrying cables on the side (with a low headroom track application, a combination of carrying chain and carrying cable). The torsion springs are designed for track applications N, ND, NS, NK, NA, NH, GD, GK, GS, L and LD for at least 25000 closing cycles and for all other track applications for at least 50000 closing cycles. For version with direct drive operator via the operator, tubular shaft and carrying cables on the side.			
Safety-related equipment according to DIN EN 12604			
- Manually operated doors using one torsion spring, on both sides with approved catch safety device and integrated anti-lift kit *) - Manually operated doors using more than one torsion spring with approved spring safety device and with approved catch safety device on both sides as well as integrated anti-lift kit *) - Power-driven doors with break-in-resistant anti-lift kit - Inner and outer finger trap protection * European patent			
Seals			
Bottom seal made of 5-chamber EPDM profile with flexible adjustment lip, side seal, lintel seal and intermediate seal between the door sections.			
Note regarding surface coating			
For the listed colours, the sectional doors SPU F42, APU F42 Thermo and ALR F42 Thermo with door width from 4510 to 5000 mm in combination with the track applications NH, GD, GK, GS, H, HD, HS, HK, HA, HU, RD, RS, RK, V, VA, VS, VU and WS are fitted with door leaf reinforcement to reduce any possible section deflection caused by sun exposure and require technical inspection.			
RAL 3007 Black red RAL 5003 Sapphire blue RAL 5004 Black blue RAL 5011 Steel blue RAL 5013 Cobalt blue RAL 5020 Ocean blue RAL 5022 Night blue		RAL 6004 Blue green RAL 6005 Moss green RAL 6007 Bottle green RAL 6008 Brown green RAL 6009 Fir green RAL 6012 Black green RAL 6015 Black olive	
		RAL 6022 Olive drab RAL 7016 Anthracite grey RAL 7021 Black grey RAL 7043 Traffic grey RAL 8014 Sepia brown RAL 8016 Mahogany brown RAL 8017 Chocolate brown	
		RAL 8019 Grey brown RAL 8022 Black brown RAL 8028 Terra brown RAL 9004 Signal black RAL 9005 Jet black RAL 9011 Graphite black RAL 9017 Traffic black	
Colour CH 703			

Technical data overview

Construction and quality features	
Resistance to wind load EN 12424	Door without wicket door, $LZ \leq 4000$, class
	Door without wicket door, $LZ > 4000$, class
	Door with wicket door, $LZ \leq 4000$, class
	Door with wicket door, $LZ > 4000$, class
Water tightness EN 12425	Door without / with wicket door, class
Air permeability EN 12426	Door without wicket door, class
	Door with wicket door, class
Acoustic value EN 717-1	Door without wicket door $R_w = \dots$ dB
	Door with wicket door $R_w = \dots$ dB
Thermal resistance EN 13241-1, appendix B EN 12428	Door without wicket door, $U = W/m^2 \cdot K^{2)}$
	- Optional PU sandwich infill, $U = W/m^2 \cdot K^{2)}$
	- Optional triple glazing, $U = W/m^2 \cdot K^{2)}$
	- Optional climatic double panes (single-pane safety glass) $U = W/m^2 \cdot K^{2)}$
	- Optional double panes (single-pane safety glass) $U = W/m^2 \cdot K^{2)}$
	Door with wicket door, $U = W/m^2 \cdot K^{2)}$
	- Optional triple glazing, $U = W/m^2 \cdot K^{2)}$
Design	- Section, $U = W/m^2 \cdot K$
	Self-supporting
Door sizes	Depth, mm
	Max. width mm, LZ
	Max. height mm, RM ³⁾
Space requirement	From page 54
Material, door leaf	Steel, double-skinned, 42 mm
	Aluminium, standard profile
	Aluminium, profile with thermal break
Surface finish, door leaf	Galvanized steel, high-quality exterior coating in RAL 9002
	Galvanized steel, high-quality exterior coating in RAL 9006
	Galvanized steel, high-quality exterior coating in RAL to choose
	Anodised aluminium E6/C0 (previously E6/EV1)
	Aluminium, high-quality exterior coating in RAL to choose
	Aluminium, high-quality coating in RAL 9005
Door leaf reinforcement	From LZ, mm
	Notice regarding surface coating, see page 5, from LZ, mm
Wicket door	
Side door	Matching the door
Glazings	Section window type A
	Section window type D
	Section window type E
	Section window type F
	Glazing frame
Seals	All-round on 4 sides
	Intermediate seal between the door sections
ThermoFrame	PVC hard and soft seal
Locking system	Inside locking
	Outside and inside locking
Security equipment	Anti-lift kit
	RC2 security features
Safety features in acc. with EN 13241	Finger trap protection
	Side trap guard
	Safety catch
	Concrete
Fastening options	Steel
	Brickwork
	Others on request

- Standard
- Optional
- * With glazing VG, E2 and G2
- ** Top door section

- 1) With optional double pane (single-pane safety glass)
- 2) For a door surface of 5000 × 5000 mm
- 3) Door height above 7000 mm on request (not with door type ALR F42 Glazing)
- 4) Optionally with ThermoFrame
- 5) Class 4 = 1.0 kN/m² or 144 km/h
- 6) Class 3 = 0.7 kN/m² or 120 km/h
- 7) Class 2 = 0.45 kN/m² or 96 km/h

Technical data overview

Technical specifications of the system							
SPU F42	APU F42	APU F42 Thermo	ALR F42	ALR F42 Thermo	ALR F42 Vitraplan	ALR F42 Vitraplan AT	ALR F42 Glazing
4 ⁵⁾ 10)	4 ⁵⁾	4 ⁵⁾	4 ⁵⁾	4 ⁵⁾	4 ⁵⁾	4 ⁵⁾	4 ⁵⁾
3 ⁶⁾ 10)	3 ⁶⁾	3 ⁶⁾	3 ⁶⁾	3 ⁷⁾	3 ⁶⁾	3 ⁶⁾	3 ⁶⁾
3 ⁶⁾ 10)	3 ⁶⁾	3 ⁶⁾	3 ⁶⁾	3 ⁶⁾	—	—	—
2 ⁷⁾ 10)	2 ⁷⁾	2 ⁷⁾	2 ⁷⁾	2 ⁷⁾	—	—	—
3 (70 Pa)	3 (70 Pa)	3 (70 Pa)	3 (70 Pa)	3 (70 Pa)	3 (70 Pa)	3 (70 Pa)	3 (70 Pa)
2 ⁸⁾	2 ⁸⁾	2 ⁸⁾	2 ⁸⁾	2 ⁸⁾	2 ⁸⁾	2 ⁸⁾	2 ⁸⁾
1 ⁹⁾	1 ⁹⁾	1 ⁹⁾	1 ⁹⁾	1 ⁹⁾	—	—	—
25 ¹¹⁾	23	23	23 (30 ¹¹⁾	23 (30 ¹¹⁾	23	23	30 ¹¹⁾
24 ¹¹⁾	22	22	22 (29 ¹¹⁾	22 (29 ¹¹⁾	—	—	—
1,0 (0,94 ⁴⁾)	3,4 (3,3 ⁴⁾)	2,9 (2,8 ⁴⁾)	3,6 (3,6 ⁴⁾)	3,0 (3,0 ⁴⁾)	3,2 (3,2 ⁴⁾)	3,2 (3,2 ⁴⁾)	6,1 (6,1 ⁴⁾)
—	2,4 (2,3 ⁴⁾)	1,9 (1,8 ⁴⁾)	2,6 (2,6 ⁴⁾)	2,0 (2,0 ⁴⁾)	—	2,6 (2,6 ⁴⁾)	—
—	3,0 (2,9 ⁴⁾)	2,5 (2,4 ⁴⁾)	3,2 (3,1 ⁴⁾)	2,6 (2,5 ⁴⁾)	3,0 (2,9 ⁴⁾)	3,0 (2,9 ⁴⁾)	—
—	2,5 (2,4 ⁴⁾)	2,0 (1,9 ⁴⁾)	2,7 (2,6 ⁴⁾)	2,1 (2,0 ⁴⁾)	—	—	2,7 (2,6 ⁴⁾)
—	3,4 (3,3 ⁴⁾)	2,9 (2,8 ⁴⁾)	3,6 (3,6 ⁴⁾)	3,0 (3,0 ⁴⁾)	—	—	3,8 (3,8 ⁴⁾)
1,2 (1,2 ⁴⁾)	3,6 (3,6 ⁴⁾)	3,1 (3,1 ⁴⁾)	3,8 (3,8 ⁴⁾)	3,2 (3,2 ⁴⁾)	—	—	—
—	3,2 (3,1 ⁴⁾)	2,7 (2,6 ⁴⁾)	3,4 (3,4 ⁴⁾)	2,8 (2,8 ⁴⁾)	—	—	—
0,5	—	—	—	—	—	—	—
●	●	●	●	●	●	●	●
42	42	42	42	42	42	42	42
8000	8000	7000	8000	7000	6000	6000	5500
7500	7500	7500	7500	7500	7500	7500	4000
●	●	●	—	—	—	—	—
—	●	—	●	—	●	●	●
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4010*/5010	4010**/5010	4010**/5010	4010**/5010	4010**/5010	●	●	3340
4510	—	4510	—	4510	●	●	3340
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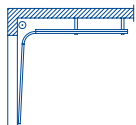
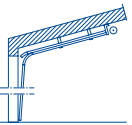
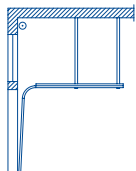
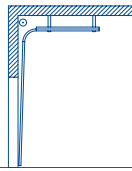
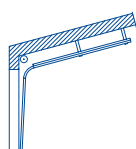
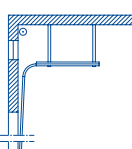
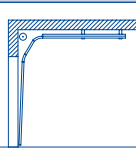
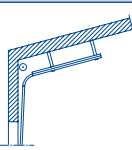
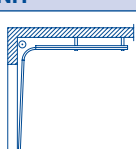
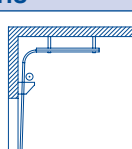
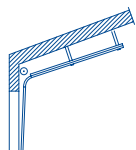
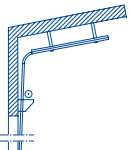
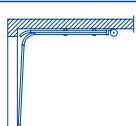
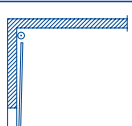
8) Class 2 = $12 \text{ m}^3/\text{m}^2\text{h}$

11) For doors without glazing frame

9) Class 1 = 24 m³/m²h

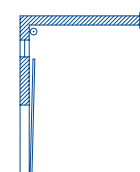
10) Lower class rating may apply for doors with compound glazing

Overview of track applications

N  Normal track application A WA 500 FU is required for track application N3 with operator!	LD  As with track application L with inclination (maximum 30°) Door height RM ≤ 5000 mm
NA  As with track application N, with high-mounted torsion spring shaft Door height RM ≤ 5000 mm	H  High-lift track application
ND  As with track application N with inclination (maximum 46°) A WA 500 FU is required for track application ND3 with operator at an inclination of up to 6°!	HA  As with track application H, with high-mounted torsion spring shaft Door height RM ≤ 3500 mm
NS  As with track application N with double radius Door height RM ≤ 5000 mm RC2 version only possible with angle C = 40° and 45°.	HD  As with track application H with inclination (maximum 30°)
NH  As with track application N, with minimum high-lift Double radius 361 mm Door leaf speed up to 500 mm/s possible. Door height > 5000 mm A WA 500 FU is required for track application NH3 with operator!	HU  As with track application H, with low-mounted torsion spring shaft
GD  As with track application NH with inclination (maximum 28°) Double radius 361 mm Door height RM ≤ 5000 mm	RD  As with track application HU, with inclination Door height RM ≤ 5000 mm
L  Low headroom track application Door height RM ≤ 5000 mm	V  Vertical track application (Additional hand pulley required for manually operated doors!)

Overview of track applications

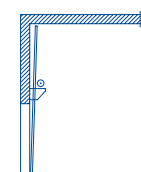
VA



As with track application V, with high-mounted torsion spring shaft
(Additional hand pulley required for manually operated doors!)

Door height RM $\leq$ 3500 mm

VU

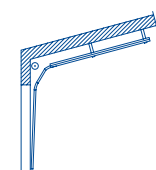


As with track application V, with low-mounted torsion spring shaft
(Additional hand pulley required for manually operated doors!)

Note:

An in-factory technical inspection is required for the following track applications!

NK

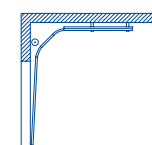


As with track application NS, but the degree values of both radii are adapted to the situation on-site

Door height RM $\leq$ 5000 mm

RC2 version only possible with angle C = 40° and 45°.

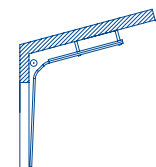
GS



As with track application NH with double radius

Door height RM $\leq$ 5000 mm

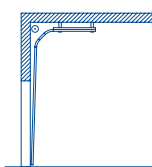
GK



As with track application NH with double radius and inclination
Double radius 361 mm

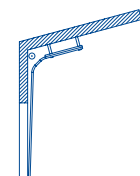
Door height RM $\leq$ 5000 mm

HS



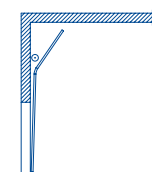
As with track application H with double radius

HK



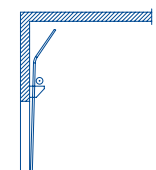
As with track application H, with double radius and inclination

VS



As with track application V, but in the top sections the tracks are diverted using radii where the ceiling is too low
(Additional hand pulley required for manually operated doors!)

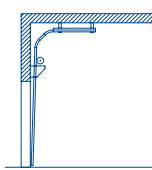
WS



As with track application VU, but in the top sections the tracks are diverted using radii where the ceiling is too low
(Additional hand pulley required for manually operated doors!)

Door height RM $\geq$ 2250 mm

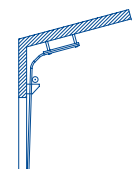
RS



As with track application HU with double radius

Door height RM $\leq$ 5000 mm

RK



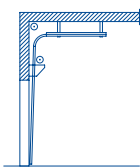
As with track application HU, with double radius and inclination

Door height RM $\leq$ 5000 mm

Note:

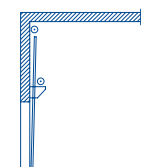
The sectional door Parcel is only available with these track applications. Technical factory inspection required!

HP



High-lift track application
With high- and low-mounted torsion spring shaft
Double radius 361 mm
Door width LZ $\leq$ 3000 mm
Door height RM $\leq$ 4250 mm
Only for sectional door Parcel

VP



Vertical track application
With high- and low-mounted torsion spring shaft
Door width LZ $\leq$ 3000 mm
Door height RM $\leq$ 4250 mm
Only for sectional door Parcel

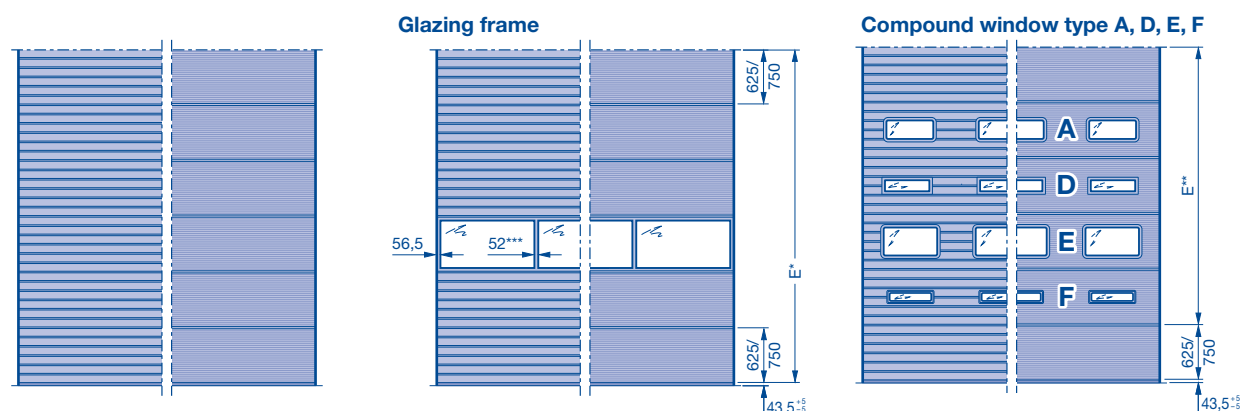
Sectional door SPU F42

Double-skinned steel sectional door

Stucco-textured / Micrograin

Door sections 625 and 750 mm high

External views



For dimensions of the compound windows, see page 16.

E* Fitting area for frames with glazing

E** Fitting area for compound glazing

*** Optionally with wide rail extrusions (91 mm)

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible. Intermediate heights using glazing frames or shortened top door section are possible!

RM	Range 3	Range 2	Range 1	n ₁	
				TH 625	TH 750
7500				-	10
7375				1	9
7250				2	8
7125				3	7
7000				4	6
6875				5	5
6750				-	4
6625				1	3
6500				2	2
6375				3	1
6250				4	0
6125				5	-
6000				-	-
5875				1	7
5750				2	6
5625				3	5
5500				4	4
5375				5	3
5250				-	2
5125				1	1
5000				2	0
4875				3	-
4750				4	-
4625				5	-
4500				-	-
4375				1	5
4250				2	4
4125				3	3
4000				4	2
3875				5	1
3750				-	0
3625				1	4
3500				2	3
3375				3	2
3250				4	1
3125				5	0
3000				-	-
2875				1	3
2750				2	2
2625				3	1
2500				4	0
2375				5	-
2250				-	-
2125				1	3
2000				2	2
1875				3	1
				4	0
				5	-
				-	-
				1	4
				2	3
				3	2
				4	1
				5	0
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-
				1	3
				2	2
				3	1
				4	0
				5	-
				-	-

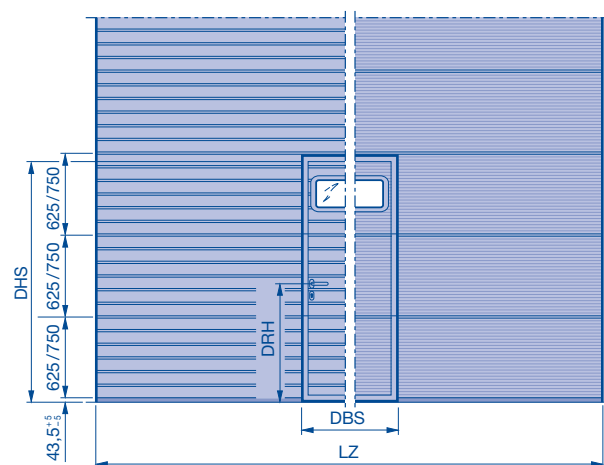
Sectional door SPU F42

with wicket door and trip-free threshold

Double-skinned steel sectional door

Stucco-textured / Micrograin, door sections 625 and 750 mm high,

External views



** Note on fitting compound glazings:

For door widths from 1750–3000 mm, a compound glazing can **only** be fitted in the wicket door. No compound glazing can be fitted to the left or right of the wicket door. Compound glazing type E must not be used in the wicket door area.

Wicket door clear passage width (DBS) = 940 mm*

* For a door width of 1750 - 1840 mm, the clear passage width is 833 mm.

For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

Lever heights (DRH)

Bottom door section 625 = 960.5

Bottom door section 750 = 1085.5

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible. Intermediate heights using glazing frames or a shortened top door section above the wicket door are possible!

		SH ₁										SH ₂	TH 625		n ₁	TH 750	DHS										
RM	↑	7500											7500	–		10	2205										
		7375											7375	1	+	9	2205										
Range 3		7250											7250	2	+	8	2205										
		7125											7125	3	+	7	2205										
		7000											7000	4	+	6	2205										
		6875											6875	5	+	5	2205										
		6750											6750	–		9	2205										
		6625											6625	1	+	8	2205										
		6500											6500	2	+	7	2205										
		6375											6375	3	+	6	2205										
		6250											6250	4	+	5	2205										
		6125											6125	5	+	4	2205										
Range 2		6000										6000	–			8	2205										
		5875										5875	1	+		7	2205										
		5750										5750	2	+		6	2205										
		5625										5625	3	+		5	2205										
		5500										5500	4	+		4	2205										
		5375										5375	5	+		3	2205										
		5250										5250	–			7	2205										
		5125										5125	1	+		6	2205										
		5000										5000	2	+		5	2205										
		4875										4875	3	+		4	2205										
Range 1		4750										4750	4	+		3	2205										
		4625										4625	5	+		2	2080										
		4500										4500	–			6	2205										
		4375										4375	1	+		5	2205										
		4250										4250	2	+		4	2205										
		4125										4125	3	+		3	2205										
		4000										4000	4	+		2	2080										
		3875										3875	5	+		1	1955										
		3750										3750	–			5	2205										
		3625										3625	1	+		4	2205										
Range 0		3500										3500	2	+		3	2205										
		3375										3375	3	+		2	2080										
		3250										3250	4	+		1	1955										
		3125										3125	5			–	1830										
		3000										3000	–			4	2205										
		2875										2875	1	+		3	2205										
		2750										2750	2	+		2	2080										
		2625										2625	3	+		1	1955										
		2500										2500	4			–	1830										
		2375										2375	5	+		1***	1830										
Range -1		2250										2250	–			3	2125										
		2125										2125	1	+		2	2000										
		2000										2000	2	+		1	1875										
		1875										1875															
	3										4	5	Number of infills / fields per glazing frame														
	2					3					4	5	Number of compound glazings per door section**														
	(Number of infills / fields – 1) × 2										Number of ventilation grilles, ventilation cross-section 40 cm ² per grille																
	1750										2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
	SPB 52																										
	LZ																										

Notes:

- When using a shaft operator (installation example 5), the door locking is always opposite the operator side.
- For a view of the matching appearance with doors without wicket door see pages 37–39.
- Number of glazings, matching series 40, see page 40.

On request

Versions with glazing frame A3, B3, M3, S3, U3, LB, P on request!

n₁ No. of door sections

DHS Clear passage heights of wicket door to grid height

SH₁ Threshold height (rising from 5 to 10)

SH₂ Threshold height (approx. 13)

SPB Rail width

TH Door section height

RM Grid height

DBS Wicket door clear passage width

DRH Lever height

LZ Clear frame dimensions (from 1500)

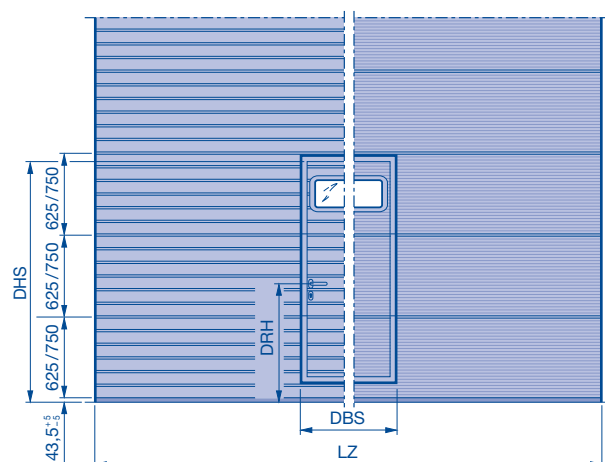
*** Top door section 500 mm

Sectional door SPU F42 with wicket door and threshold rail

Double-skinned steel sectional door

Stucco-textured / Micrograin, door sections 625 and 750 mm high

External views



**** Note on fitting compound glazings:**

For door widths from 1750–3000 mm, a compound glazing can **only** be fitted in the wicket door.

No compound glazing can be fitted to the left or right of the wicket door. Compound glazing type E must not be used in the wicket door area.

Wicket door clear passage width (DBS) = 940 mm*

* For a door width of 1750 - 1840 mm, the clear passage width is 833 mm.

For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

Lever heights (DRH)

Bottom door section 625 = 960.5

Bottom door section 750 = 1085.5

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible. Intermediate heights using glazing frames or a shortened top door section above the wicket door are possible!

		SH ₁					SH ₂	n ₁		DHS											
								TH 625	TH 750												
Range 3	7500							7500	–	10	2205										
	7375							7375	1	+	9	2205									
	7250							7250	2	+	8	2205									
	7125							7125	3	+	7	2205									
	7000							7000	4	+	6	2205									
	6875							6875	5	+	5	2205									
	6750							6750	–	–	9	2205									
	6625							6625	1	+	8	2205									
	6500							6500	2	+	7	2205									
	6375							6375	3	+	6	2205									
	6250							6250	4	+	5	2205									
	6125							6125	5	+	4	2205									
	6000							6000	–	–	8	2205									
	5875							5875	1	+	7	2205									
	5750							5750	2	+	6	2205									
	5625							5625	3	+	5	2205									
	5500							5500	4	+	4	2205									
	5375							5375	5	+	3	2205									
	5250							5250	–	–	7	2205									
	5125							5125	1	+	6	2205									
Range 2	5000							5000	2	+	5	2205									
	4875							4875	3	+	4	2205									
	4750							4750	4	+	3	2205									
	4625							4625	5	+	2	2080									
	4500							4500	–	–	6	2205									
	4375							4375	1	+	5	2205									
	4250							4250	2	+	4	2205									
	4125							4125	3	+	3	2205									
	4000							4000	4	+	2	2080									
	3875							3875	5	+	1	1955									
Range 1	3750							3750	–	–	5	2205									
	3625							3625	1	+	4	2205									
	3500							3500	2	+	3	2205									
	3375							3375	3	+	2	2080									
	3250							3250	4	+	1	1955									
	3125							3125	5	–	–	1830									
	3000							3000	–	–	4	2205									
	2875							2875	1	+	3	2205									
	2750							2750	2	+	2	2080									
	2625							2625	3	+	1	1955									
	2500							2500	4	–	–	1830									
	2375							2375	3	+	***	1830									
	2250							2250	–	–	3	2205									
	2125							2125	1	+	2	2080									
2000							2000	2	+	1	1955										
1875							1875														
		3			4	5	Number of infills / fields per aluminium frame														
		2	3	4	5	Number of compound glazings per door section**															
		(Number of infills / fields–1) × 2				Number of ventilation grilles, ventilation cross-section 40 cm² per grille															
		1750	2000	2000	2250	2500	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
		SPB 52																			
		LZ																			

Notes:

- When using a shaft operator (installation example 5), the door locking is always opposite the operator side.
- For a view of the matching appearance with doors without wicket door see pages 37 – 39.
- Number of glazings, matching series 40, see page 40.
- For versions with real glass infill in the wicket door, the threshold height SH₂ begins at LZ 4510 mm.

	On request
	Versions with glazing frame A3, B3, M3, S3, U3, LB, P on request!
	Glazings on request
n₁	No. of door sections
DHS	Clear passage heights of wicket door to grid height
SH₁	Threshold height (207)
SH₂	Threshold height (330) , bottom door section with 250 mm aluminium bottom section
SPB	Rail width
TH	Door section height
RM	Grid height
DBS	Wicket door clear passage width
DRH	Lever height
LZ	Clear frame dimensions (from 1500)
***	Top door section 500 mm

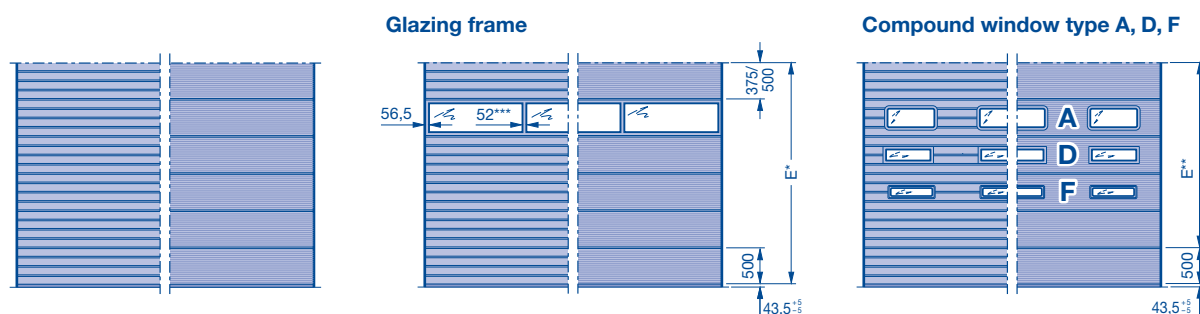
Sectional door SPU F42

Double-skinned steel sectional door

Stucco-textured / Micrograin

Door sections 375 and 500 mm high

External views



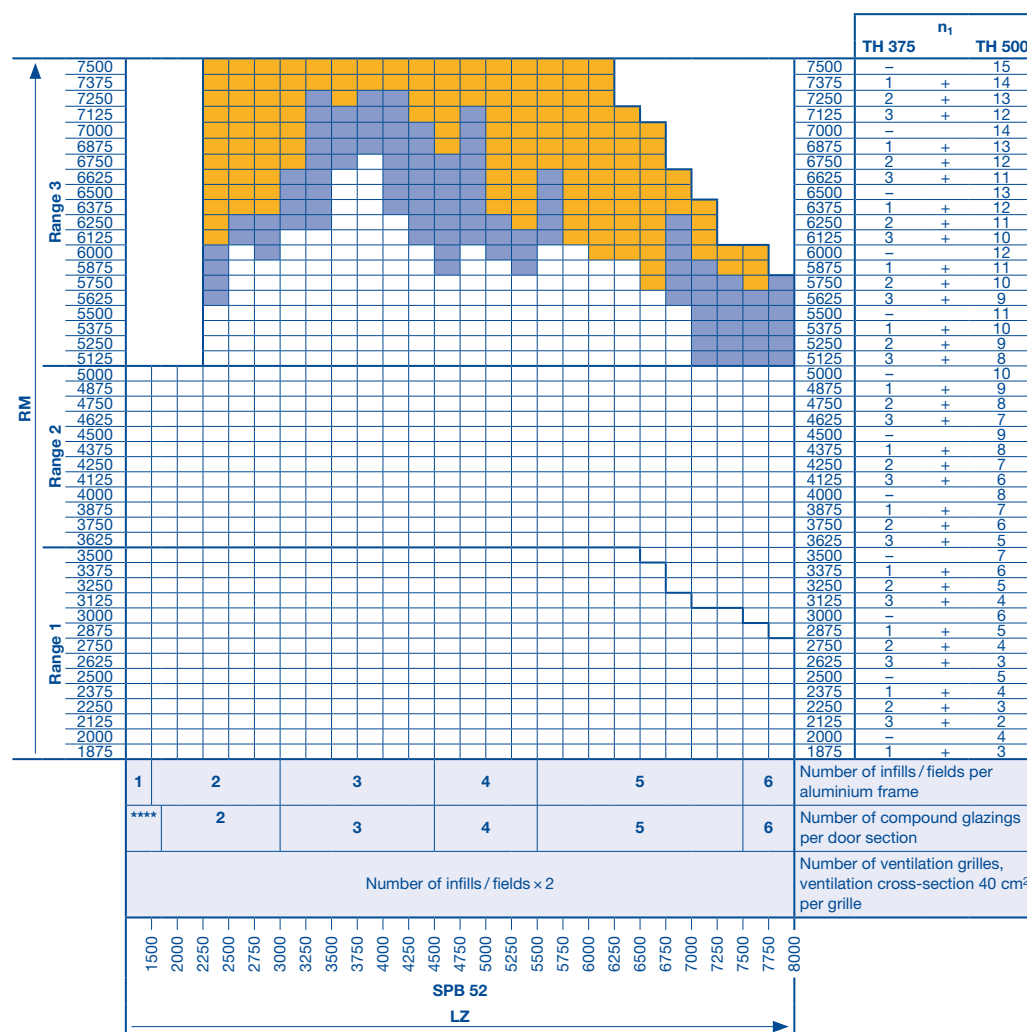
For dimensions of the compound windows, see page 16.

E* Fitting area for frame 500 with glazing

E** Fitting area for compound glazing

*** Optionally with wide rail extrusions (91 mm)

Size range



The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible. Intermediate heights using glazing frames or shortened top door section are possible!

Notes:

- Glazing frame as thermo version only up to 7000 mm wide.
- For a view of the matching appearance with doors with wicket door see pages 37 – 39.
- Number of glazings, matching series 40, see page 40.

On request

Versions with glazing frame A3, B3, M3, S3, U3, LB, P on request!

Range change

n₁ No. of door sections

RM Grid height

LZ Clear frame dimensions (from 1200)

SPB Rail width

TH Door section height

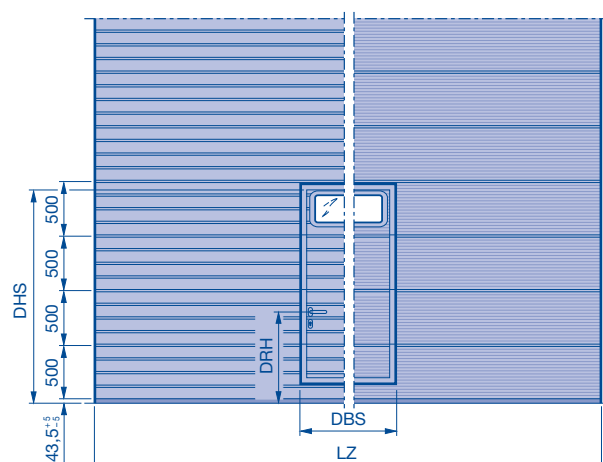
**** See Table 1 on page 10

Sectional door SPU F42 with wicket door and threshold rail

Double-skinned steel sectional door

Stucco-textured / Micrograin, door sections 375 and 500 mm high

Exterior view



**** Note on fitting compound glazings:**

For door widths from 1750–3000 mm, a compound glazing can **only** be fitted in the wicket door.

No compound glazing can be fitted to the left or right of the wicket door.

Wicket door clear passage width (DBS) = 940 mm*

* For a door width of 1750 - 1840 mm, the clear passage width is 833 mm.

For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

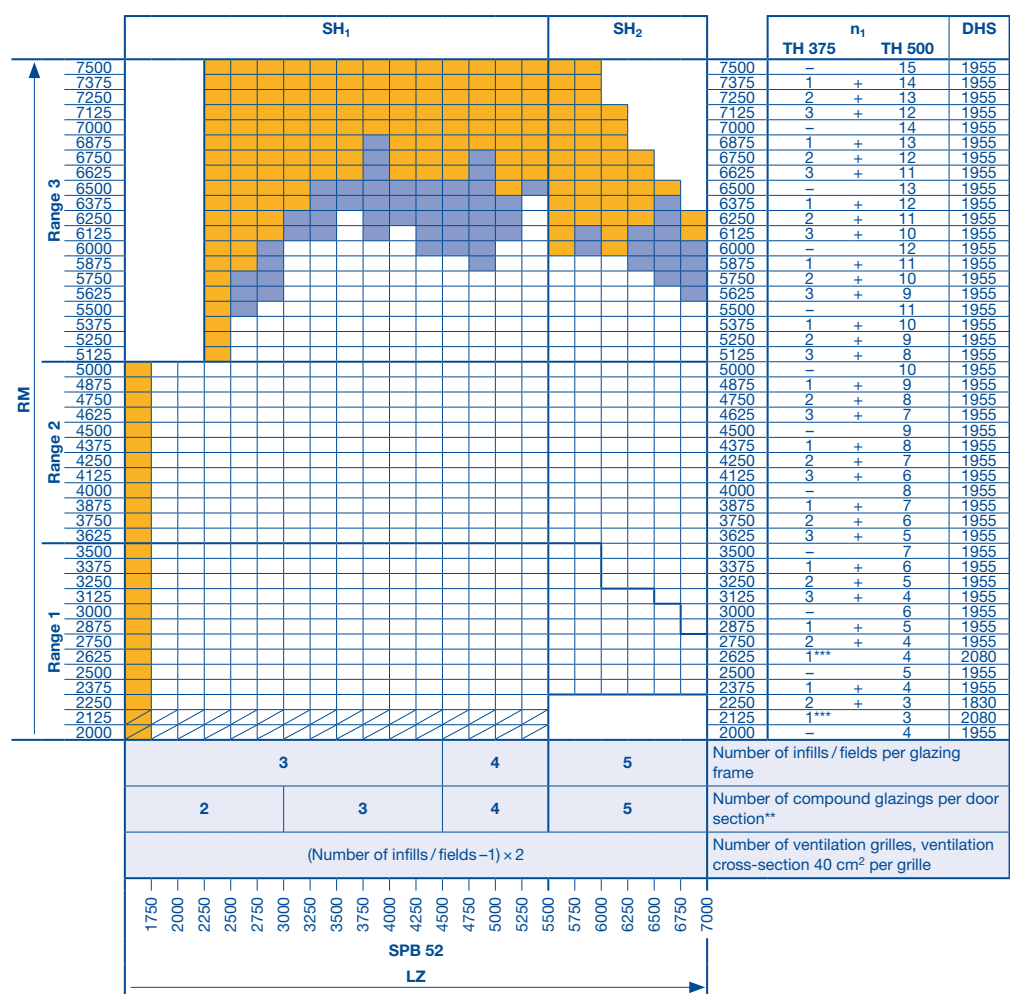
Lever heights (DRH)

Bottom door section 500 = 835.5

Bottom door section 625 = 960.5 (only for SH₂)

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible. Intermediate heights using glazing frames or a shortened top door section above the wicket door are possible!



Notes:

- From LZ > 5500 mm bottom door section with deviating heights TH = 625 / 750 mm (made of 375 / 500 mm section and 2 x 125 mm aluminium bottom profile).
- For a view of the matching appearance with doors without wicket door see pages 37 – 39.
- Number of glazings, matching series 40, see page 40.
- For versions with real glass infill in the wicket door, the threshold height **SH₂** begins at LZ 4510 mm.

 On request

 Versions with glazing frame A3, B3, M3, S3, U3, LB, P on request!
 Range change

 Glazings on request

n_1 No. of door sections

DHS Clear passage heights of wicket door to grid height

RM	Grid height
----	-------------

LZ Clear frame

SH₁ Threshold height (207)SH₂ Threshold height (330)

section with 250 mm aluminium
bottom section, **glazing from**
625 mm

SPB Rail width

TH Door section height

DRH Lever height

DBS Wicket door clear passage width

*** TH = 625 mm

Glazing heights for matching external appearance

SPU F42 Stucco-textured / Micrograin

(Centre of window from FFL)

Door section heights 500, 625 and 750 mm

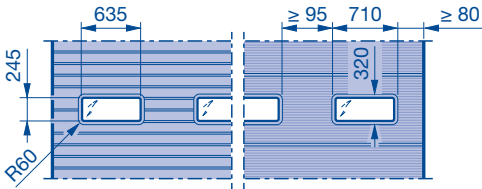
Glazing heights for matching external appearance of compound window type A, D and F.

RM	Glazing heights (centre of window from FFL)											
	1160	1285	1535	1660	1785	1910	2035	2160	2285	2410	2535	2660
7500		•			•							•
7375	•	•		•	•							•
7250	•	•	•	•	•		•		•		•	•
7125	•	•	•	•	•	•	•	•	•	•	•	•
7000		•			•				•			
6875	•	•		•	•			•	•			•
6750	•	•			•		•				•	•
6625	•	•		•	•	•	•			•	•	•
6500		•			•				•			
6375	•	•		•	•			•	•			•
6250	•	•	•	•	•		•	•	•		•	•
6125	•	•	•	•	•	•	•	•	•	•	•	•
6000		•			•							
5875	•	•		•	•							•
5750	•	•	•	•	•		•		•		•	•
5625	•	•	•	•	•	•	•	•	•	•	•	•
5500		•			•			•				
5375	•	•		•	•			•	•			•
5250	•	•			•		•				•	•
5125	•	•		•	•	•	•			•	•	•
5000		•			•				•			
4875	•	•		•	•			•	•			•
4750	•	•	•	•	•		•		•		•	•
4625	•	•	•	•	•	•		•	•	•	•	
4500		•			•							
4375	•	•		•	•							•
4250	•	•	•	•	•	•	•		•	•	•	•
4125	•	•	•	•	•	•	•	•	•	•	•	•
4000		•			•				•			
3875	•			•	•			•	•			
3750	•	•			•		•				•	•
3625	•	•		•	•	•	•			•	•	•
3500		•			•				•			
3375	•	•		•	•				•			
3250	•		•	•	•			•	•			
3125		•	•	•	•			•				
3000		•			•							
2875	•	•		•	•							•
2750	•	•	•	•	•						•	
2625	•		•	•	•							
2500									•	•		
2375				•				•				
2250	•	•					•					
2125	•					•						
2000					•							
1875				•								

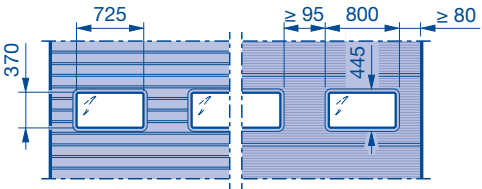
RM Grid height

Dimensions of compound windows

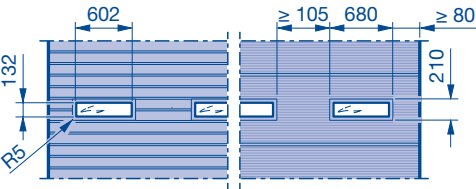
Compound window **type A**, door section height 500, 625 and 750 mm



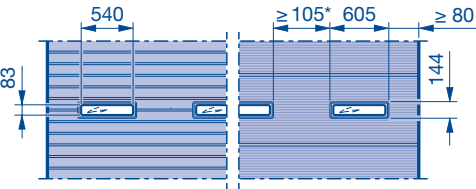
Compound window **type E**, door section height 625 and 750 mm



Compound window **type D**, door section height 500, 625 and 750 mm



Compound window **type F**, door section height 500, 625 and 750 mm



* With RC2 version min. 500 mm

Calculating the glazing heights

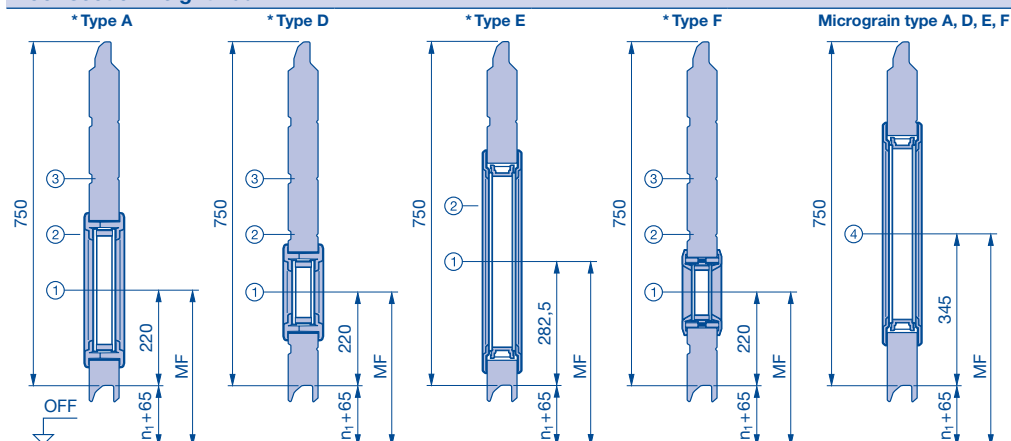
(Centre of window from FFL)

Door section heights 500, 625 and 750 mm

Calculating the glazing heights for compound window type A, type D, type E and type F.

See door type for number of door sections and glazing areas! The illustrations correspond to a section depth of 42 mm.

Door section height 750 mm



Glazing height type A, D and F

- ① = $n_1 + 65 + 220$
- ② = $n_1 + 65 + 220 + 125$
- ③ = $n_1 + 65 + 220 + 250$
- ④ = $n_1 + 65 + 345$

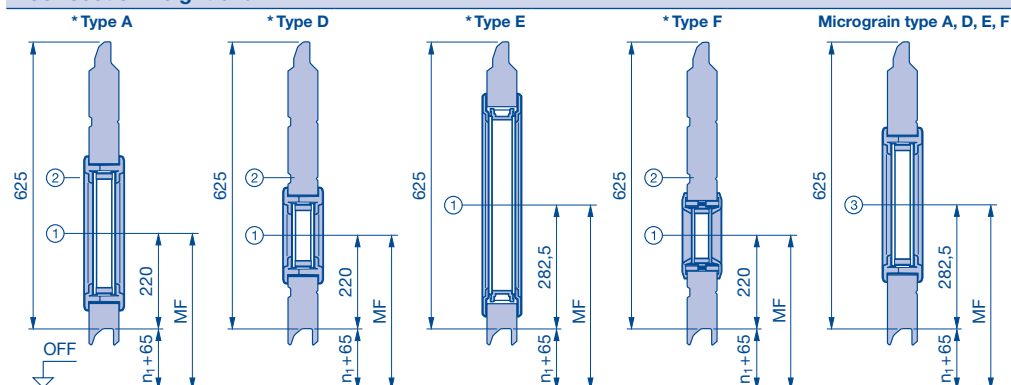
Glazing height type E

- ① = $n_1 + 65 + 282,5$
- ② = $n_1 + 65 + 282,5 + 125$
- ④ = $n_1 + 65 + 345$

Note:

Glazing height type F with RC2 version requires a distance of min. 500 mm between the glazings!

Door section height 625 mm



Glazing height type A, D and F

- ① = $n_1 + 65 + 220$
- ② = $n_1 + 65 + 220 + 125$
- ③ = $n_1 + 65 + 282,5$

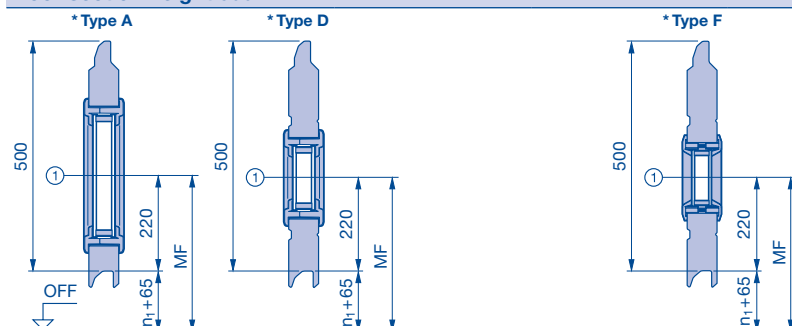
Glazing height type E

- ① = $n_1 + 65 + 282,5$
- ③ = $n_1 + 65 + 282,5$

Note:

Glazing height type F with RC2 version requires a distance of min. 500 mm between the glazings!

Door section height 500 mm



Glazing height type A, D and F

- ① = $n_1 + 65 + 220$

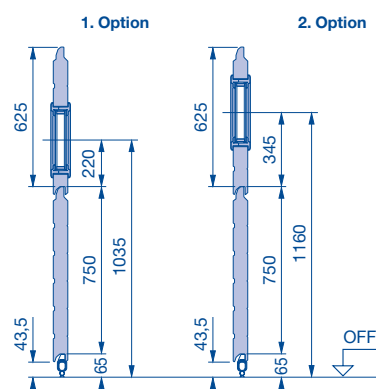
Glazing height type E

Not possible!

Note:

Glazing height type F with RC2 version requires a distance of min. 500 mm between the glazings!

Calculation example



Given:

- Door type SPU F42; grid height (RM) = 3250 mm; glazing type A; position see below
- Door section 625 mm = 4 ×
- Door section 750 mm = 1 ×

Option	Door section / position	Glazing height
1	in 2rd door section 625 mm at position 1	$750 + 65 + 220 = 1035$ mm from FFL
2	in 2rd door section 625 mm at position 2	$750 + 65 + 220 + 125 = 1160$ mm from FFL
3	in 3rd door section 625 mm at position 1	$750 + 625 + 65 + 220 = 1660$ mm from FFL
4	in 3rd door section 625 mm at position 2	$750 + 625 + 65 + 220 + 125 = 1785$ mm from FFL
etc.		

* Stucco / Micrograin
MF Centre of window from FFL

n_1 No. of door sections
OFF Finished floor level

Sectional door APU F42

Glazed aluminium sectional door with steel bottom section

Exterior view

Door height – bottom section height –

TH = $\frac{35}{\text{Number of glazing frames}}$

*

On request 115 mm in order to match the appearance of a sectional door with wicket door with trip-free threshold with the same door height.

**

Optionally with wide rail extrusions (91 mm)

Note:

•

When using a shaft operator (installation example 5), the door locking is always opposite the operator side.

•

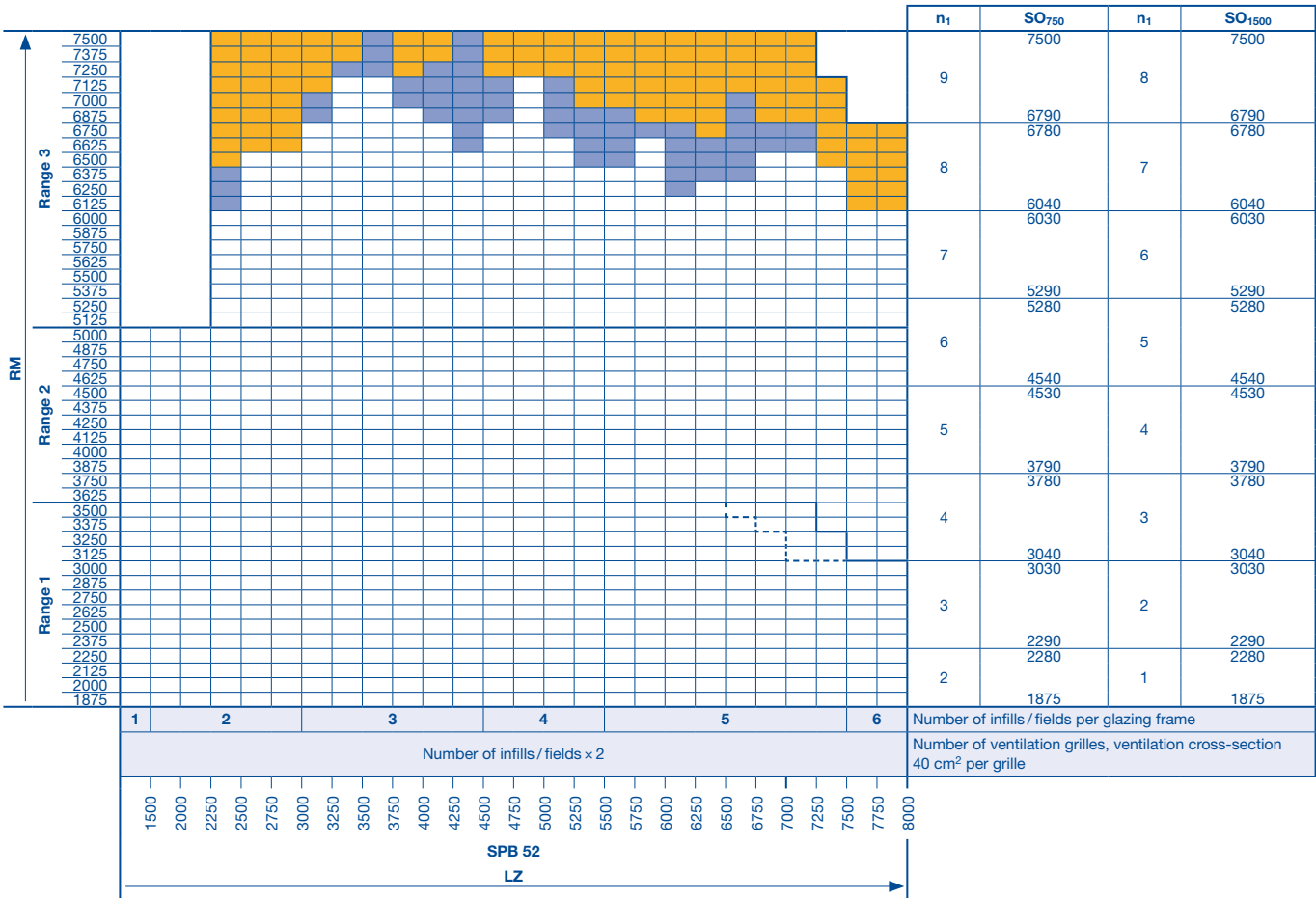
For a view of the matching appearance with doors with wicket door see pages 37–39.

•

Number of glazings, matching series 40, see page 40.

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.



1

2

3

4

5

6

Number of infills / fields per glazing frame

Number of ventilation grilles, ventilation cross-section 40 cm² per grille

SPB 52

LZ

On request	SO₇₅₀ Bottom section height 750 mm (standard)
Versions with glazing A3, B3, M3, S3, U3, LB, P, XU on request	SO₁₅₀₀ Bottom section height 1500 mm
Range change	RM Grid height
Range change with glazing A3, B3, M3, S3, U3, LB, P, XU	LZ Clear frame dimensions (from 1200)
	SPB Rail width
	n₁ Number of glazing frames
	TH Door section height

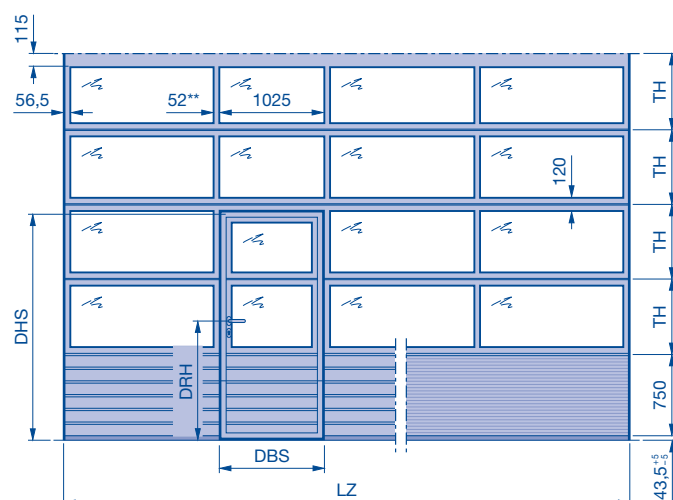
Sectional door APU F42

with wicket door and trip-free threshold

Glazed aluminium sectional door with steel bottom section

Bottom section height 750

Exterior view



Lever height on request

Wicket door clear passage width (DBS) = 940 mm***

Clear passage height of wicket door (DHS) = $Sn_1 \times TH + (\text{bottom section height} - 45^*)$

Sn_1 Number of frames in the wicket door
 Attention: If there is no frame above the wicket door, then - 90 instead of - 45.
 Optionally with wide rail extrusions (91 mm)
 For a door width of 1750 - 1840 mm, the clear passage width is 833 mm.
 For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

Note:

- When using a shaft operator (installation example 5), the door locking is always opposite the operator side.
- For a view of the matching appearance with doors without wicket door see pages 37 - 39.
- Number of glazings, matching series 40, see page 40.

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.

		SH ₁										SH ₂										n ₁	Height	RM	DHS	Sn ₁	Height																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RM	Range 3	7500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

Note:

For versions with real glass infill in the wicket door, the threshold height **SH₂** begins at LZ 4510 mm.

On request	DHS	Wicket door clear passage height
Versions with glazing A3, B3, M3, S3, U3, LB, P, XU	DBS	Wicket door clear passage width
Range change	LZ	Clear frame dimensions (from 1500)
Range change with glazing A3, B3, M3, S3, U3, LB, P, XU	DRH	Lever height
	RM	Grid height
	SPB	Rail width

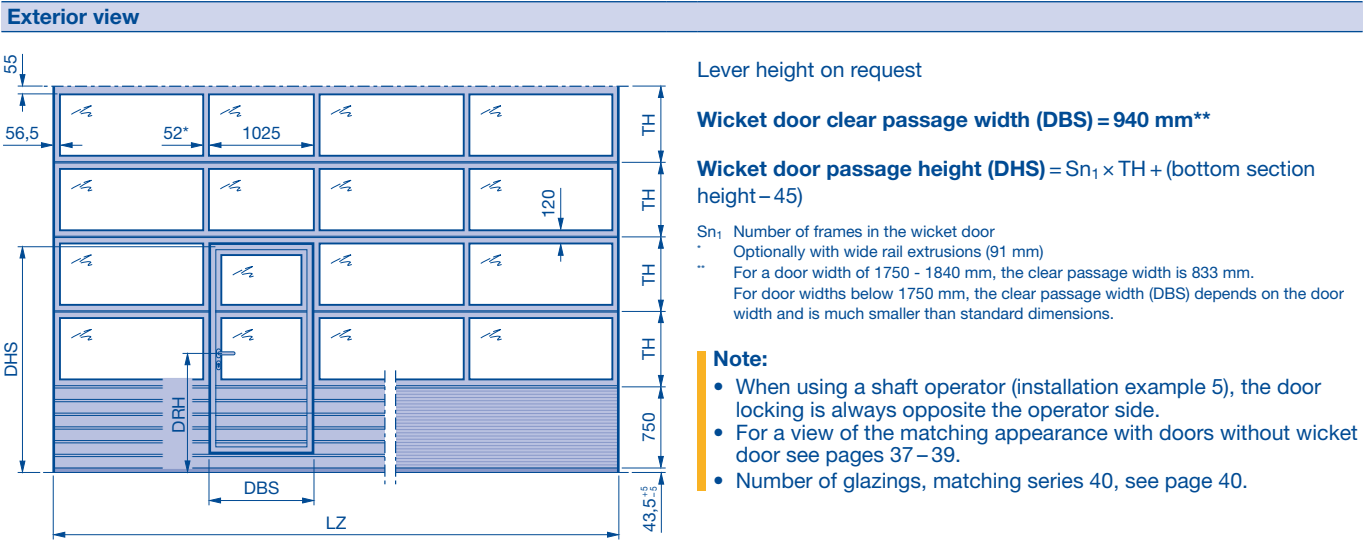
SH ₁	Threshold height (rising from 5 to 10)
SH ₂	Threshold height (approx. 13)
n ₁	Number of glazing frames
Sn ₁	Number of glazing frames in the wicket door
TH	Door section height

Sectional door APU F42

with wicket door and threshold rail

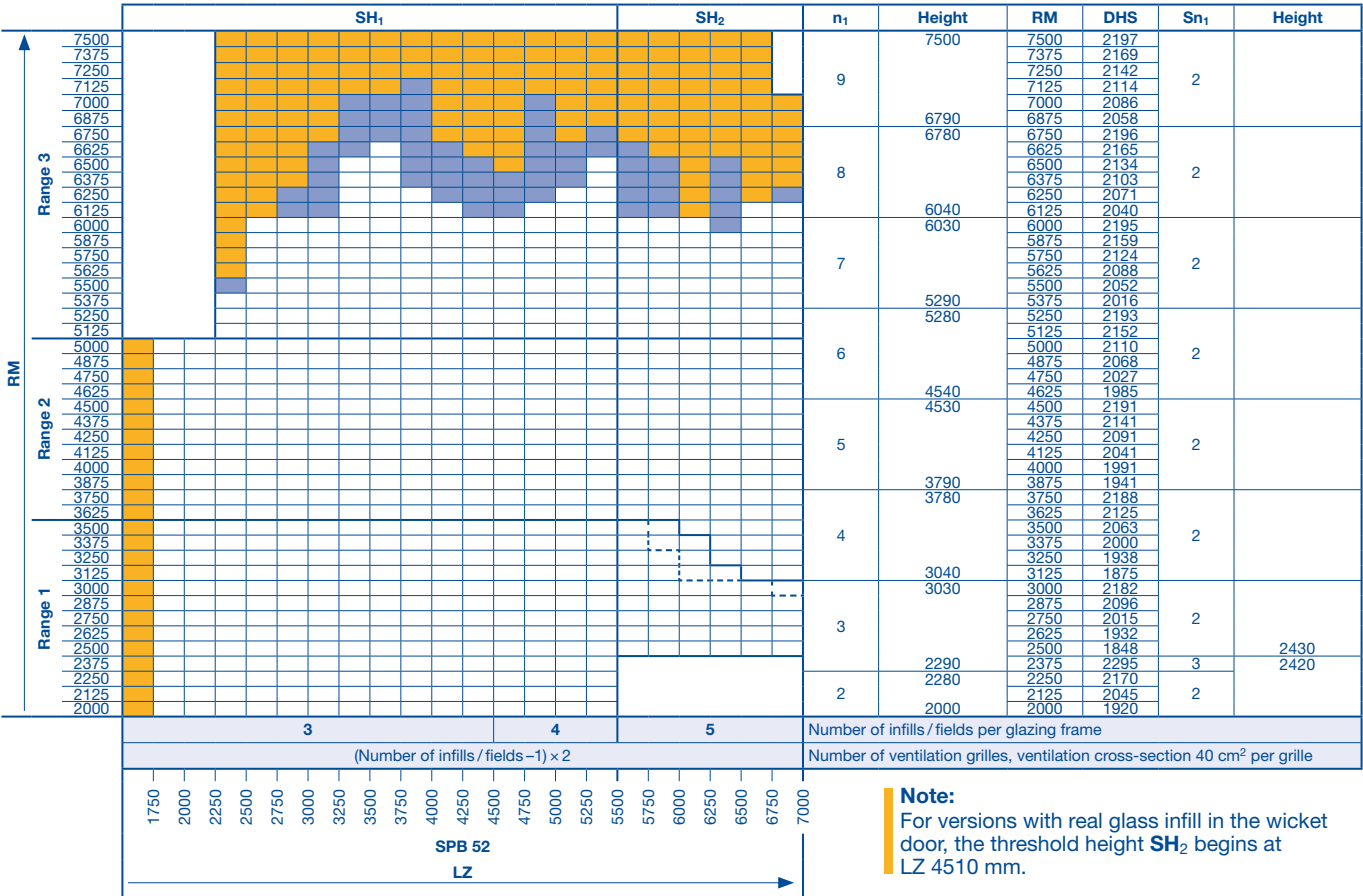
Glazed aluminium sectional door with steel bottom section

Bottom section height 750



Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.



On request	DHS Wicket door clear passage height	SH₁ Threshold height (207)
Versions with glazing A3, B3, M3, S3, U3, LB, P, XU on request	DBS Wicket door clear passage width	SH₂ Threshold height (330)
Range change	DRH Lever height	n₁ Number of glazing frames
Range change with glazing A3, B3, M3, S3, U3, LB, P, XU	LZ Clear frame dimensions (from 1500)	S_{n1} Number of glazing frames in the wicket door
	RM Grid height	TH Door section height
	SPB Rail width	

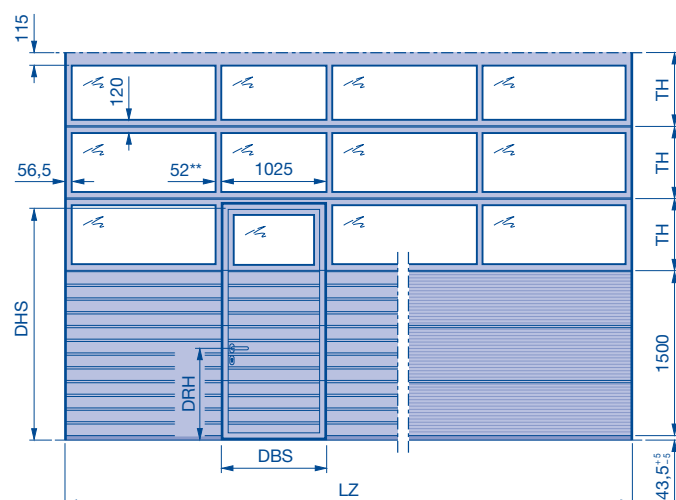
Sectional door APU F42

with wicket door and trip-free threshold

Glazed aluminium sectional door with steel bottom section

Bottom section height 1500

Exterior view



Lever height (DRH):

$LZ \leq 6000 = 1085,5$

$LZ > 6000 = 835,5$

Wicket door clear passage width (DBS) = 940 mm***

Clear passage height of wicket door (DHS) = $Sn_1 \times TH$ + (bottom section height - 45*)

Sn_1 Number of frames in the wicket door

* Attention: If there is no frame above the wicket door, then - 90 instead of - 45.

** Optionally with wide rail extrusions (91 mm)

*** For a door width of 1750 - 1840 mm, the clear passage width is 833 mm.

For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

Note:

- When using a shaft operator (installation example 5), the door locking is always opposite the operator side.
- For a view of the matching appearance with doors without wicket door see pages 37 - 39.
- Number of glazings, matching series 40, see page 40.

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.

		SH ₁										SH ₂										n ₁	Height	RM	DHS	Sn ₁										
RM	↑	Range 3																				8	7500	7500	7500	2201	1									
		7500	7375	7250	7125	7000	6875	6750	6625	6500	6375	6250	6125	6000	5875	5750	5625	5500	5375	5250	5125															
		Range 2																				6	6790 6780	6790 6780	6750 6750	2200 2182	1									
		4875	4750	4625	4500	4375	4250	4125	4000	3875	3750	3625	3500	3375	3250	3125	3000	2875	2750	2625	2500							2375	2250	2125	2000					
		Range 1																				5	6040 6030	6040 6030	6000 5875	2199 2178	1									
		4875	4750	4625	4500	4375	4250	4125	4000	3875	3750	3625	3500	3375	3250	3125	3000	2875	2750	2625	2500							2375	2250	2125	2000					
																						4	5290 5280	5290 5280	5375 5250	2095 2198	1									
		5000	4875	4750	4625	4500	4375	4250	4125	4000	3875	3750	3625	3500	3375	3250	3125	3000	2875	2750	2625							2500	2375	2250	2125	2000				
																						3	4540 4530	4540 4530	4625 4500	2073 2196	1									
		5000	4875	4750	4625	4500	4375	4250	4125	4000	3875	3750	3625	3500	3375	3250	3125	3000	2875	2750	2625							2500	2375	2250	2125	2000				
																						2	3790 3780	3790 3780	3875 3750	2040 2193	1									
		5000	4875	4750	4625	4500	4375	4250	4125	4000	3875	3750	3625	3500	3375	3250	3125	3000	2875	2750	2625							2500	2375	2250	2125	2000				
																						1	3040 3030	3040 3030	3125 3000	1985 2188	1									
		5000	4875	4750	4625	4500	4375	4250	4125	4000	3875	3750	3625	3500	3375	3250	3125	3000	2875	2750	2625							2500	2375	2250	2125	2000				
																						1	2290 2280	2290 2280	2375 2250	1875 2125	1									
		5000	4875	4750	4625	4500	4375	4250	4125	4000	3875	3750	3625	3500	3375	3250	3125	3000	2875	2750	2625							2500	2375	2250	2125	2000				
																						1	2000	2000	2000	1875										
		5000	4875	4750	4625	4500	4375	4250	4125	4000	3875	3750	3625	3500	3375	3250	3125	3000	2875	2750	2625							2500	2375	2250	2125	2000				
		3										4										5										Number of infills / fields per glazing frame				
		(Number of infills / fields - 1) × 2																														Number of ventilation grilles, ventilation cross-section 40 cm ² per grille				
		1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000													
		SPB 52																																		
		LZ																																		

Note:
For versions with real glass infill in the wicket door, the threshold height **SH₂** begins at LZ 4510 mm.

Note:

For versions with real glass infill in the wicket door, the threshold height **SH₂** begins at LZ 4510 mm.

- On request
- Versions with glazing A3, B3, M3, S3, U3, LB, P, XU on request
- Range change
- Range change with glazing A3, B3, M3, S3, U3, LB, P, XU

- DHS** Wicket door clear passage height
- DBS** Wicket door clear passage width
- LZ** Clear frame dimensions (from 1500)
- RM** Grid height
- SPB** Rail width
- SH₁** Threshold height (rising from 5 to 10)
- SH₂** Threshold height (approx. 13)

- n₁** Number of glazing frames
- Sn₁** Number of glazing frames in the wicket door
- TH** Door section height

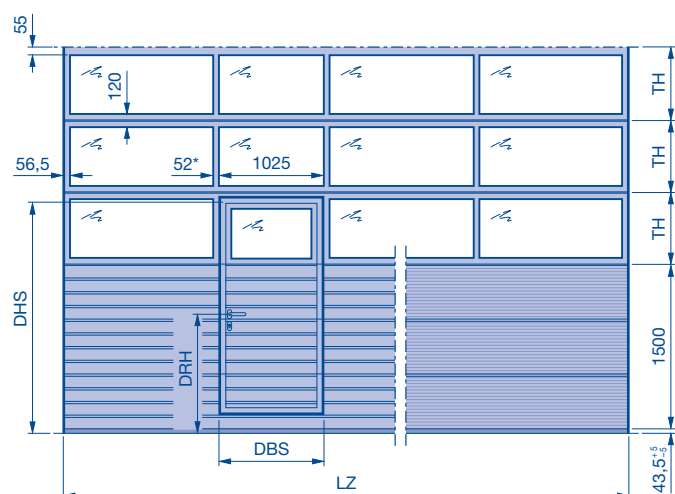
Sectional door APU F42

with wicket door and threshold rail

Glazed aluminium sectional door with steel bottom section

Bottom section height 1500

Exterior view



Lever height on request

Wicket door clear passage width (DBS) = 940 mm**

Wicket door passage height (DHS) = $S_{n1} \times TH + (\text{bottom section height} - 45)$

Sn₁ Number of frames in the wicket door

* Optionally with wide rail extrusions (91 mm)

** For a door width of 1750 - 1840 mm, the clear passage width is 833 mm.

For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions

Note:

- When using a shaft operator (installation example 5), the door locking is always opposite the operator side.
- From LZ > 5500 mm, the bottom door section consists of a 375 / 500 mm section and 2 x 125 mm aluminium bottom profile.
- For a view of the matching appearance with doors without wicket door see pages 37 – 39.
- Number of glazings, matching series 40, see page 40.

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.

[illegible]

Note:

For versions with real glass infill in the wicket door, the threshold height **SH₂** begins at LZ 4510 mm.

- On request
- Versions with glazing A3, B3, M3, S3, U3, LB, P, XU on request
- Range change
- Range change with glazing A3, B3, M3, S3, U3, LB, P XU

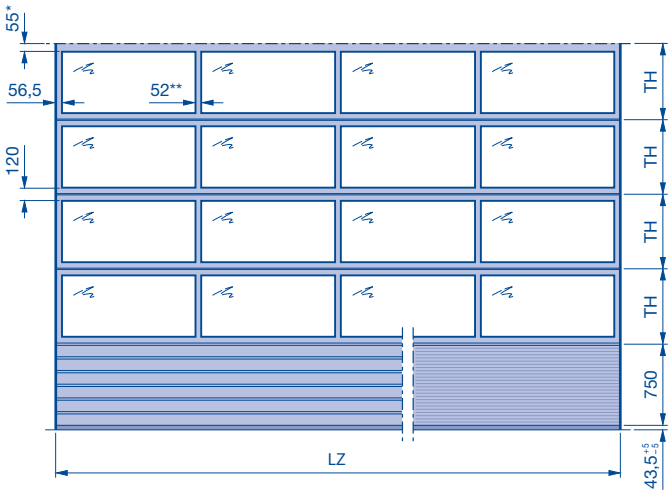
DHS	Wicket door clear passage height
DBS	Wicket door clear passage width
DRH	Lever height
LZ	Clear frame dimensions (from 1500)
RM	Grid height
SPB	Rail width

SH ₁	Threshold height (207)
SH ₂	Threshold height (330)
n ₁	Number of glazing frames
Sn ₁	Number of glazing frames in the wicket door
TH	Door section height

Sectional door APU F42 Thermo

Glazed aluminium sectional door with thermal break, with steel bottom section

Exterior view



Door height – bottom section height – 35

TH =

Number of glazing frames

*

 On request 115 mm in order to match the appearance of a sectional door with wicket door with trip-free threshold with the same door height.

**

 Optionally with wide rail extrusions (91 mm)

Note:

•

 When using a shaft operator (installation example 5), the door locking is always opposite the operator side.

•

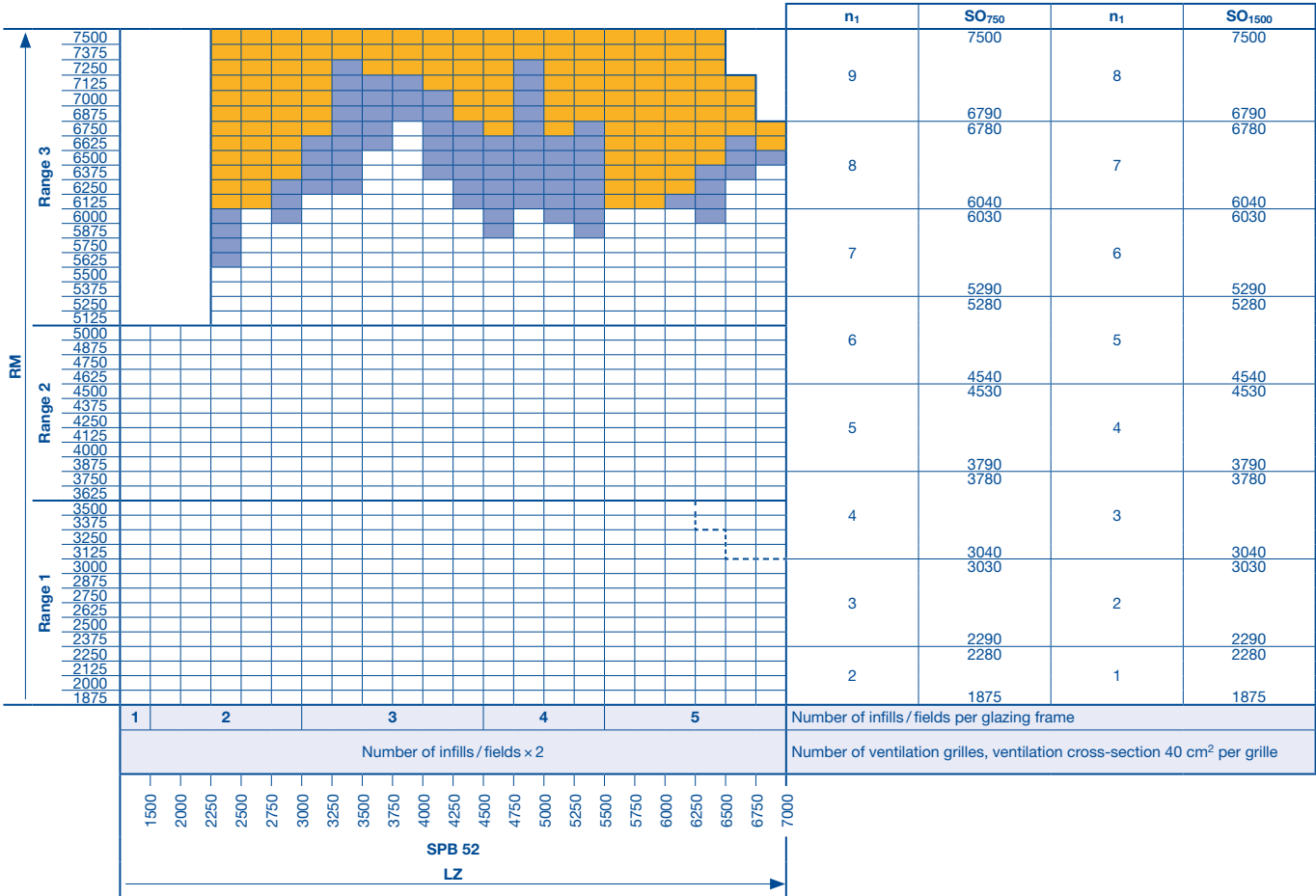
 For a view of the matching appearance with doors with wicket door see pages 37–39.

•

 Number of glazings, matching series 40, see page 40.

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.



On request

Versions with glazing A3, B3, M3, S3, U3, LB, P, XU on request

Range change

Range change with glazing A3, B3, M3, S3, U3, LB, P, XU

SO₇₅₀

SO₁₅₀₀

RM

LZ

SPB

n₁

TH

Bottom section height 750 mm (standard)

Bottom section height 1500 mm

Grid height

Clear frame dimensions (from 1200)

Rail width

Number of glazing frames

Door section height

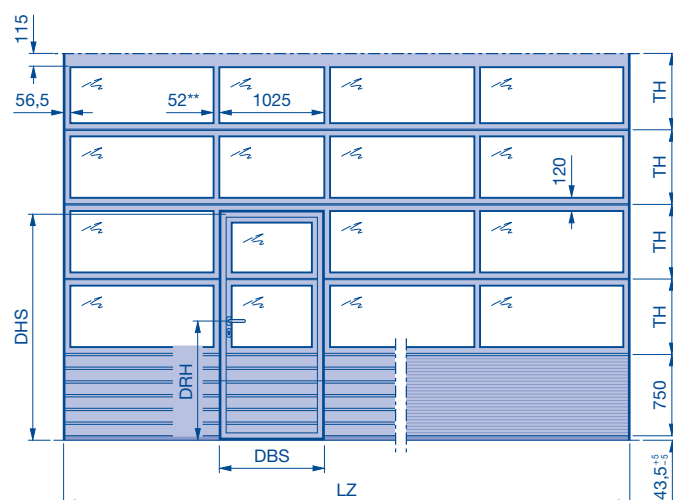
Sectional door APU F42 Thermo

with wicket door and trip-free threshold

Glazed aluminium sectional door with thermal break, with steel bottom section

Bottom section height 750

Exterior view



Lever height on request

Wicket door clear passage width (DBS) = 940 mm***

Clear passage height of wicket door (DHS) = $Sn_1 \times TH + (\text{bottom section height} - 45^*)$

Sn_1 Number of frames in the wicket door
 Attention: If there is no frame above the wicket door, then - 90 instead of - 45.
 Optionally with wide rail extrusions (91 mm)
 For a door width of 1750 - 1840 mm, the clear passage width is 833 mm.
 For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

Note:

- When using a shaft operator (installation example 5), the door locking is always opposite the operator side.
- For a view of the matching appearance with doors without wicket door see pages 37 - 39.
- Number of glazings, matching series 40, see page 40.

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.

		SH ₁					SH ₂					n ₁	Height	RM	DHS	Sn ₁	Height																						
RM	Range 3	7500												9	7500	7500	2197	2																					
		7375													7375	7375	2169																						
		7250													7250	7250	2142																						
		7125													7125	7125	2114																						
		7000													7000	7000	2086																						
		6875													6875	6875	2058																						
		6750													6780	6750	2196																						
		6625													6625	6625	2165																						
		6500													6500	6500	2134																						
		6375													6375	6375	2103																						
		6250													6250	6250	2071																						
		6125													6125	6125	2040																						
	6000													6030	6000	2195																							
	5875													5875	5875	2159																							
	5750													5750	5750	2124																							
	5625													5625	5625	2088																							
	5500													5500	5500	2052																							
	5375													5290	5375	2016																							
	5250													5280	5250	2193																							
	5125													5125	5125	2152																							
	5000													5000	5000	2110																							
	4875													4875	4875	2068																							
	4750													4750	4750	2027																							
	4625													4540	4625	1985																							
	4500													4530	4500	1941																							
	4375													4375	4375	1900																							
	4250													4250	4250	1858																							
	4125													4125	4125	1817																							
	4000													4000	4000	1775																							
	3875													3790	3875	1941																							
	3750													3780	3750	1888																							
	3625													3625	3625	1846																							
	3500													3500	3500	1804																							
	3375													3375	3375	1762																							
	3250													3250	3250	1720																							
	3125													3040	3125	1875																							
	3000													3030	3000	1832																							
	2875													2875	2875	1790																							
	2750													2750	2750	1748																							
	2625													2625	2625	1706																							
	2500													2500	2500	1664																							
	2375													2375	2375	1622																							
	2250													2290	2250	1580																							
	2125													2280	2125	1538																							
	2000													2000	2000	1496																							
3												4												5												Number of infills / fields per glazing frame			
(Number of infills / fields - 1) × 2																												Number of ventilation grilles, ventilation cross-section 40 cm ² per grille											
SPB 52																																							
LZ																																							

Note:

For versions with real glass infill in the wicket door, the threshold height **SH₂** begins at LZ 4510 mm.

Note:

For versions with real glass infill in the wicket door, the threshold height SH₂ begins at LZ 4510 mm.

On request	DHS	Wicket door clear passage height
Versions with glazing A3, B3, M3, S3, U3, LB, P, XU on request	DBS	Wicket door clear passage width
Range change	LZ	Clear frame dimensions (from 1500)
Range change with glazing A3, B3, M3, S3, U3, LB, P, XU	DRH	Lever height
	RM	Grid height
	SPB	Rail width

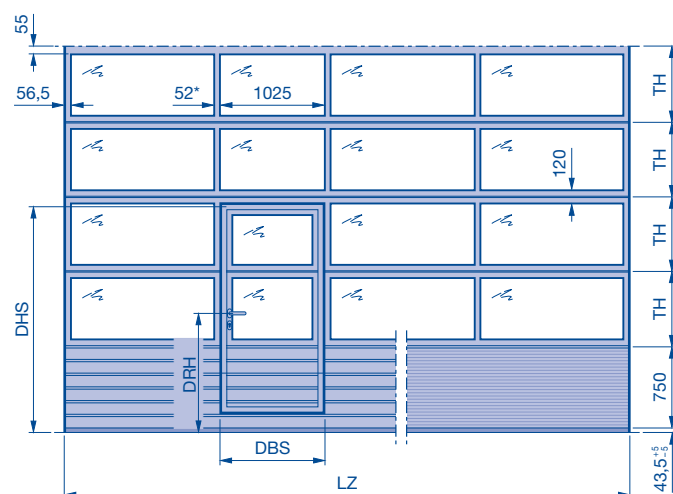
SH ₁	Threshold height (rising from 5 to 10)
SH ₂	Threshold height (approx. 13)
n ₁	Number of glazing frames
Sn ₁	Number of glazing frames in the wicket door
TH	Door section height

Sectional door APU F42 Thermo with wicket door and threshold rail

Glazed aluminium sectional door with thermal break, with steel bottom section

Bottom section height 750

Exterior view



Lever height on request

Wicket door clear passage width (DBS) = 940 mm**

Wicket door passage height (DHS) = $S_{n1} \times TH + (\text{bottom section height} - 45)$

Sn₁ Number of frames in the wicket door

* Optionally with wide rail extrusions (91 mm)

.. For a door width of 1750 - 1840 mm, the clear passage width is 833 mm.

For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

Note:

- When using a shaft operator (installation example 5), the door locking is always opposite the operator side.
- For a view of the matching appearance with doors without wicket door see pages 37–39.
- Number of glazings, matching series 40, see page 40.

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.

[illegible]

Note:

For versions with real glass infill in the wicket door, the threshold height **SH₂** begins at 17 4510 mm.

 On request
 Versions with glazing A3, B3, M3, S3, U3, LB, P, XU on request
 Range change
 Range change with glazing A3, B3, M3, S3, U3, LB, P, XU

DHS	Wicket door clear passage height
DBS	Wicket door clear passage width
DRH	Lever height
LZ	Clear frame dimensions (from 1500)
RM	Grid height
SPB	Rail width

SH₁	Threshold height (207)
SH₂	Threshold height (330)
n₁	Number of glazing frames
Sn₁	Number of glazing frames in the wicket door
TH	Door section height

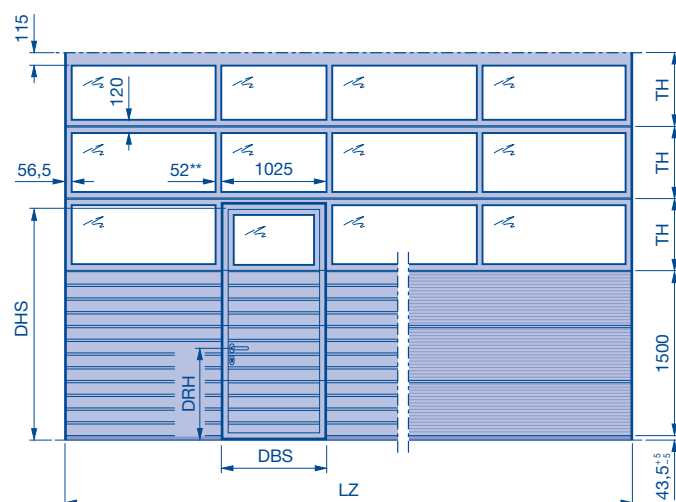
Sectional door APU F42 Thermo

with wicket door and trip-free threshold

Glazed aluminium sectional door with thermal break, with steel bottom section

Bottom section height 1500

Exterior view



Lever height (DRH):

$LZ \leq 6000 = 1085,5$

$LZ > 6000 = 835,5$

Wicket door clear passage width (DBS) = 940 mm***

Clear passage height of wicket door (DHS) = $Sn_1 \times TH + (\text{bottom section height} - 45^*)$

Sn_1 Number of frames in the wicket door

* Attention: If there is no frame above the wicket door, then - 90 instead of - 45.

** Optionally with wide rail extrusions (91 mm)

*** For a door width of 1750 - 1840 mm, the clear passage width is 833 mm.

For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

Note:

- When using a shaft operator (installation example 5), the door locking is always opposite the operator side.
- For a view of the matching appearance with doors without wicket door see pages 37 - 39.
- Number of glazings, matching series 40, see page 40.

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.

		SH ₁										SH ₂										n ₁	Height	RM	DHS	Sn ₁																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RM	Range 3	7500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

Note:

For versions with real glass infill in the wicket door, the threshold height SH₂ begins at LZ 4510 mm.

- On request
- Versions with glazing A3, B3, M3, S3, U3, LB, P, XU on request
- Range change
- Range change with glazing A3, B3, M3, S3, U3, LB, P, XU

- DHS Wicket door clear passage height
- DBS Wicket door clear passage width
- LZ Clear frame dimensions (from 1500)
- RM Grid height
- SPB Rail width
- SH₁ Threshold height (rising from 5 to 10)
- SH₂ Threshold height (approx. 13)

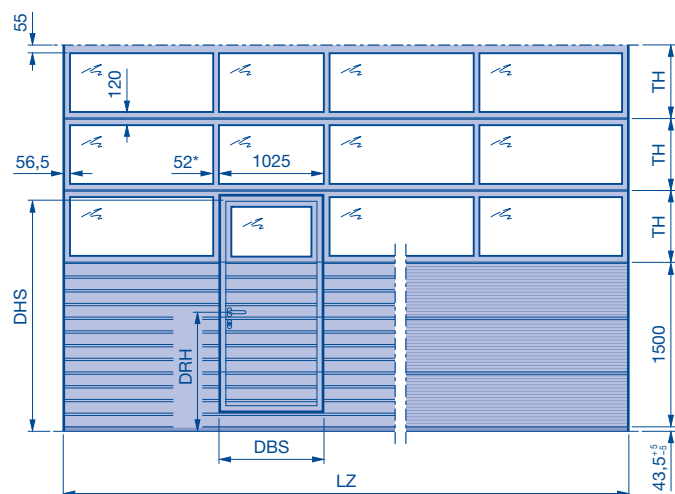
- n₁ Number of glazing frames
- Sn₁ Number of glazing frames in the wicket door
- TH Door section height

Sectional door APU F42 Thermo with wicket door and threshold rail

Glazed aluminium sectional door with thermal break, with steel bottom section

Bottom section height 1500

Exterior view



Lever height on request

Wicket door clear passage width (DBS) = 940 mm**

Wicket door passage height (DHS) = $S_{n1} \times TH + (\text{bottom section height} - 45)$

Sn₁ Number of frames in the wicket door

* Optionally with wide rail extrusions (91 mm)

.. For a door width of 1750 - 1840 mm, the clear passage width is 833 mm.

For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

Note:

- When using a shaft operator (installation example 5), the door locking is always opposite the operator side.
- From LZ > 5500 mm, the bottom door section consists of a 375 / 500 mm section and 2 x 125 mm aluminium bottom profile.
- For a view of the matching appearance with doors without wicket door see pages 37 – 39.
- Number of glazings, matching series 40, see page 40.

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.

[illegible]

Note:

For versions with real glass infill in the wicket door, the threshold height **SH₂** begins at LZ 4510 mm.

- On request
- Versions with glazing A3, B3, M3, S3, U3, LB, P, XU on request
- Range change
- Range change with glazing A3, B3, M3, S3, U3, LB, P, XU

DHS	Wicket door clear passage height
DBS	Wicket door clear passage width
DRH	Lever height
LZ	Clear frame dimensions (from 1500)
RM	Grid height
SPB	Rail width

SH ₁	Threshold height (207)
SH ₂	Threshold height (330)
n ₁	Number of glazing frames
Sn ₁	Number of glazing frames in the wicket door
TH	Door section height

Sectional door ALR F42

Glazed aluminium sectional door

Exterior view

TH = $\frac{\text{Door height} - 35}{\text{Number of glazing frames}}$

*

On request 115 mm in order to match the appearance of a sectional door with wicket door with trip-free threshold with the same door height.

**

Optionally with wide rail extrusions (91 mm)

Note:

•

When using a shaft operator (installation example 5), the door locking is always opposite the operator side.

•

For door widths from 5510 mm, diagonal struts are fitted into the bottom door section (not visible with closed infills).

•

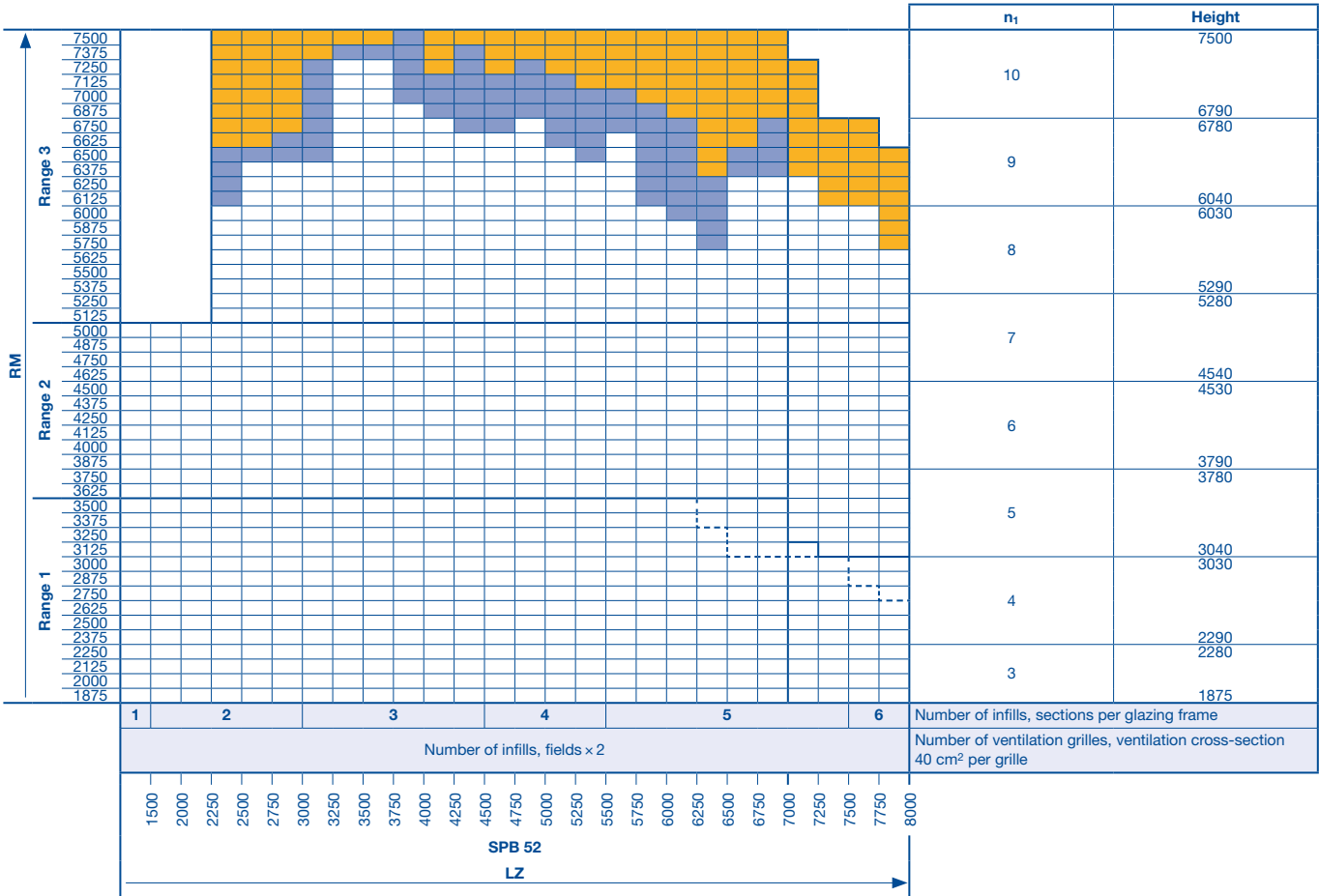
For a view of the matching appearance with doors with wicket door see pages 37 – 39.

•

Number of glazings, matching series 40, see page 40.

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.



On request

Versions with glazing A3, B3, M3, S3, U3, LB, P, XU on request

Range change

Range change with glazing A3, B3, M3, S3, U3, LB, P, XU

RM

Grid height

LZ

Clear frame dimensions (from 1200)

SPB

Rail width

n₁

Number of glazing frames

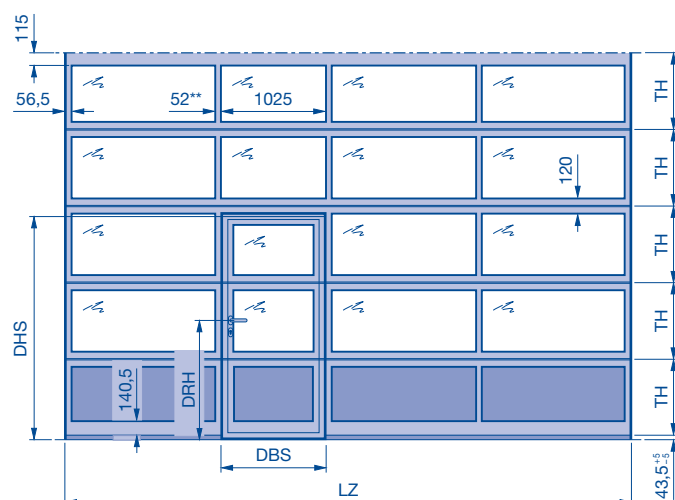
TH

Door section height

Sectional door ALR F42 with wicket door and trip-free threshold

Glazed aluminium sectional door

Exterior view



Lever height on request

Wicket door clear passage width (DBS) = 940 mm^{*}**

Clear passage height of wicket door (DHS) = $S_{n1} \times TH - 45^*$

Sn₁ Number of frames in the wicket door

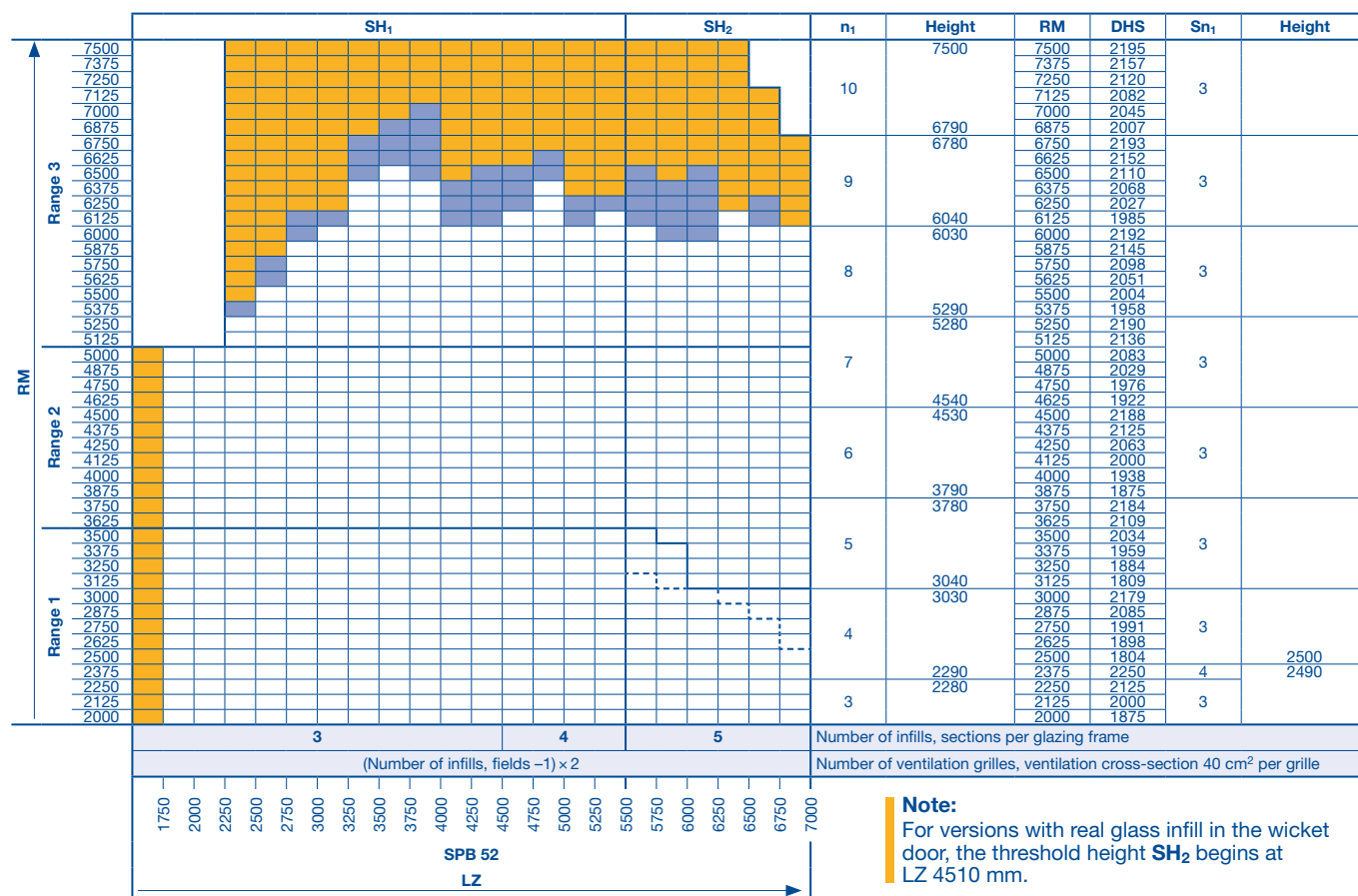
- Attention: If there is no frame above the wicket door, then – 90 instead of – 45.
 - ** Optionally with wide rail extrusions (91 mm)
 - ... For a door width of 1750 - 1840 mm, the clear passage width is 833 mm.
- For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

Note:

- When using a shaft operator (installation example 5), the door locking is always opposite the operator side.
- For door widths from 5510 mm (from 4510 mm with real glass infill in the wicket door), diagonal struts are fitted into the bottom door section – not visible with closed infills.
- For a view of the matching appearance with doors without wicket door see pages 37 – 39.
- Number of glazings, matching series 40, see page 40.

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.



Note:

Note:
For versions with real glass infill in the wicket door, the threshold height **SH₂** begins at 17 4510 mm.

- On request
- Versions with glazing A3, B3, M3, S3, U3, LB, P, XU on request
- Range change
- Range change with glazing A3, B3, M3, S3, U3, LB, P, XU

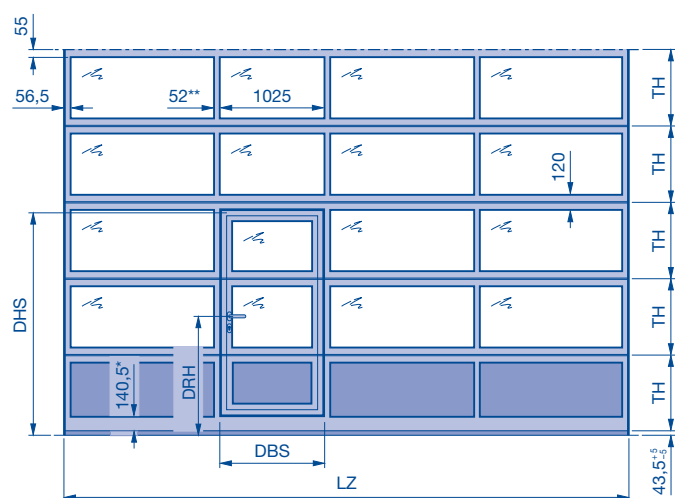
DHS	Wicket door clear passage height
DBS	Wicket door clear passage width
DRH	Lever height
LZ	Clear frame dimensions (from 1500)
RM	Grid height
SPB	Rail width

SH ₁	Threshold height (rising from 5 to 10)
SH ₂	Threshold height (approx. 13)
n ₁	Number of glazing frames
Sn ₁	Number of glazing frames in the wicket door
TH	Door section height

Sectional door ALR F42 with wicket door and threshold rail

Glazed aluminium sectional door

Exterior view



Lever height on request

Wicket door clear passage width (DBS) = 940 mm***

Clear passage height of wicket door (DHS) = $S_{n1} \times TH - 45$

Sn₁ Number of frames in the wicket door

- 265.5 with SH₂

Optionally with wide rail extrusions (91 mm)

... For a door width of 1750 - 1840 mm, the clear passage width is 833 mm.

For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

Note:

- When using a shaft operator (installation example 5), the door locking is always opposite the operator side.
- For a view of the matching appearance with doors without wicket door see pages 37 – 39.
- Number of glazings, matching series 40, see page 40.

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.

[illegible]

Note:

For versions with real glass infill in the wicket door, the threshold height **SH₂** begins at 17 4510 mm.

- On request
- Versions with glazing A3, B3, M3, S3, U3, LB, P, XU on request
- Range change
- Range change with glazing A3, B3, M3, S3, U3, LB, P, XU

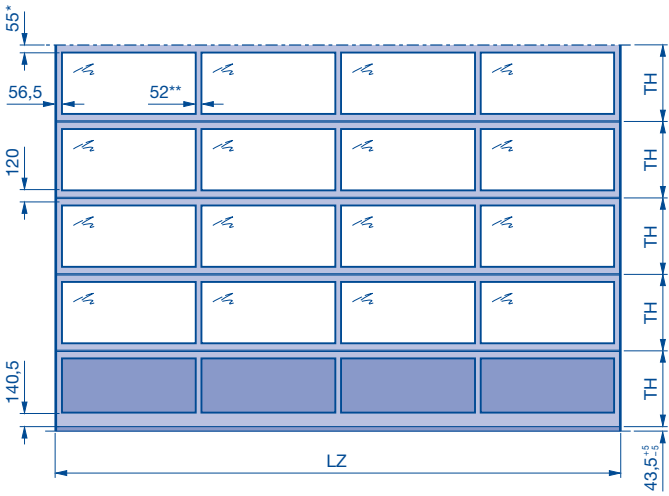
DHS	Wicket door clear passage height
DBS	Wicket door clear passage width
DRH	Lever height
LZ	Clear frame dimensions (from 1500)
RM	Grid height
SPB	Rail width

SH ₁	Threshold height (186)
SH ₂	Threshold height (311)
n ₁	Number of glazing frames
Sn ₁	Number of glazing frames in the wicket door
TH	Door section height

Sectional door ALR F42 Thermo

Glazed aluminium sectional door with thermal break

Exterior view



TH = $\frac{\text{Door height} - 35}{\text{Number of glazing frames}}$

*

On request 115 mm in order to match the appearance of a sectional door with wicket door with trip-free threshold with the same door height.

**

Optionally with wide rail extrusions (91 mm)

Note:

•

When using a shaft operator (installation example 5), the door locking is always opposite the operator side.

•

For door widths from 5510 mm, diagonal struts are fitted into the bottom door section (not visible with closed infills).

•

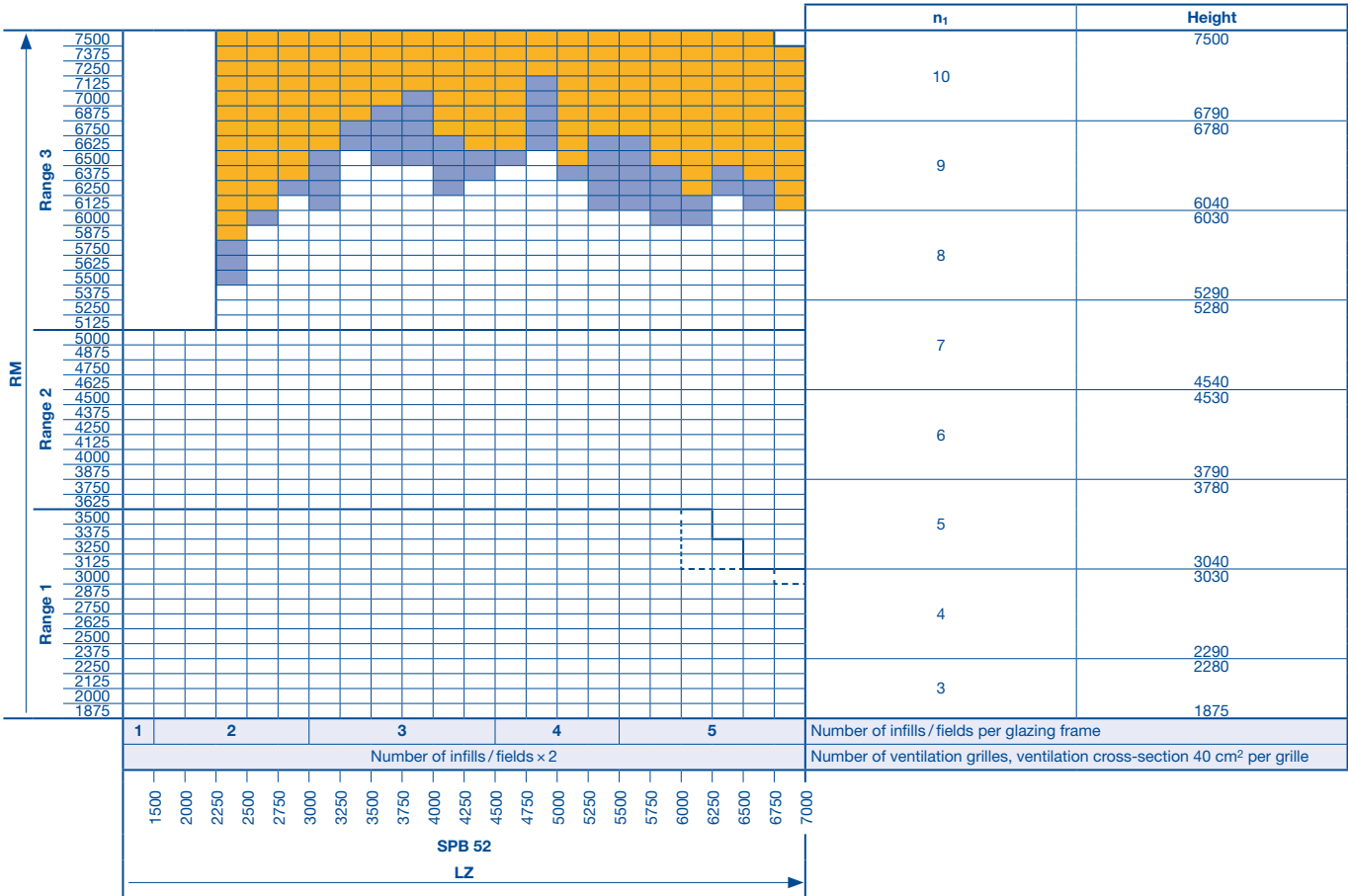
For a view of the matching appearance with doors with wicket door see pages 37 – 39.

•

Number of glazings, matching series 40, see page 40.

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.



- On request

Versions with glazing A3, B3, M3, S3, U3, LB, P, XU on request

Range change

Range change with glazing A3, B3, M3, S3, U3, LB, P, XU
- RM

Grid height
- LZ

Clear frame dimensions (from 1200)
- SPB

Rail width
- n₁

Number of glazing frames
- TH

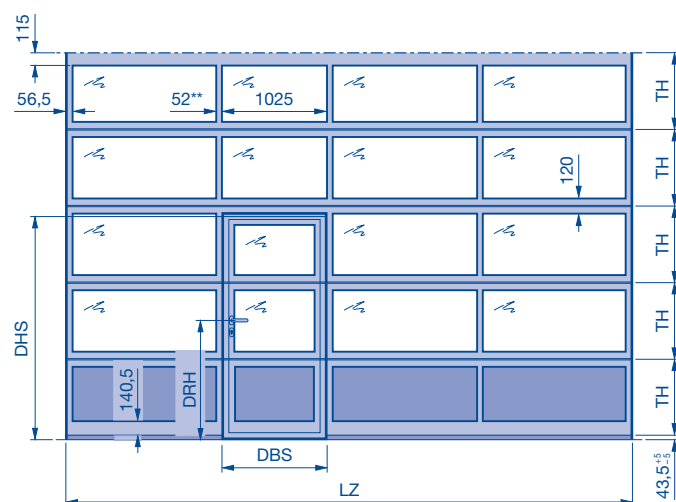
Door section height

Sectional door ALR F42 Thermo

with wicket door and trip-free threshold

Glazed aluminium sectional door with thermal break

Exterior view



Lever height on request

Wicket door clear passage width (DBS) = 940 mm***

Clear passage height of wicket door (DHS) = $Sn_1 \times TH - 45^*$

Sn_1 Number of frames in the wicket door

* Attention: If there is no frame above the wicket door, then - 90 instead of - 45.

** Optionally with wide rail extrusions (91 mm)

*** For a door width of 1750 - 1840 mm, the clear passage width is 833 mm.

For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

Note:

- When using a shaft operator (installation example 5), the door locking is always opposite the operator side.
- For door widths from 5510 mm (from 4510 mm with real glass infill in the wicket door), diagonal struts are fitted into the bottom door section – not visible with closed infills.
- For a view of the matching appearance with doors without wicket door see pages 37 – 39.
- Number of glazings, matching series 40, see page 40.

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.

		SH ₁										SH ₂										n ₁	Height	RM	DHS	Sn ₁	Height																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
RM	Range 3	7500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

Note:

For versions with real glass infill in the wicket door, the threshold height **SH₂** begins at LZ 4510 mm.

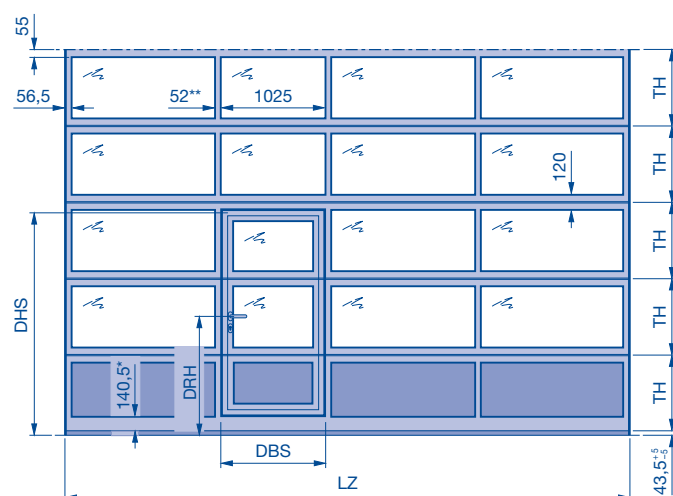
On request	DHS	Wicket door clear passage height
Versions with glazing A3, B3, M3, S3, U3, LB, P, XU on request	DBS	Wicket door clear passage width
Range change	DRH	Lever height
Range change with glazing A3, B3, M3, S3, U3, LB, P, XU	LZ	Clear frame dimensions (from 1500)
	RM	Grid height
	SPB	Rail width

SH ₁	Threshold height (rising from 5 to 10)
SH ₂	Threshold height (approx. 13)
n ₁	Number of glazing frames
Sn ₁	Number of glazing frames in the wicket door
TH	Door section height

Sectional door ALR F42 Thermo with wicket door and threshold rail

Glazed aluminium sectional door with thermal break

Exterior view



Lever height on request

Wicket door clear passage width (DBS) = 940 mm***

Clear passage height of wicket door (DHS) = $S_{n1} \times TH - 45$

Sn₁ Number of frames in the wicket door

- 265.5 with SH₂

- 265.5 with SH₂
- ** Optionally with wide rail extrusions (91 mm)

... For a door width of 1750 - 1840 mm, the clear passage width is 833 mm.

For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

Note:

- When using a shaft operator (installation example 5), the door locking is always opposite the operator side.
- For a view of the matching appearance with doors without wicket door see pages 37–39.
- Number of glazings, matching series 40, see page 40.

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.

[illegible]

Note:

Note:
For versions with real glass infill in the wicket door, the threshold height **SH₂** begins at 17 4510 mm.

 On request
 Versions with glazing A3, B3, M3, S3, U3, LB, P, XU on request
 Range change
 Range change with glazing A3, B3, M3, S3, U3, LB, P, XU

DHS	Wicket door clear passage height
DBS	Wicket door clear passage width
DRH	Lever height
LZ	Clear frame dimensions (from 1500)
RM	Grid height
SPB	Rail width

SH₁	Threshold height (186)
SH₂	Threshold height (311)
n₁	Number of glazing frames
Sn₁	Number of glazing frames in the wicket door
TH	Door section height

Sectional door ALR F42 Glazing

Aluminium sectional door with extensive glazing, real glass

Exterior view

Door height – 119

Number of glazing frames

TH =

UTH = TH + 84 ≤ 785

OTH = TH + 35

*

76 with optional wide rail extrusions (91 mm)

Note:

When using a shaft operator (installation example 5), the door locking is always opposite the operator side.

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.

													n ₁	Height		
RM	Range 2	5000											6	4000		
		4875														
		4750														
		4625														
		4500														
		4375														
		4250														
		4125														
		4000														
		3875														
	Range 1	3750											5	3625		
		3625												3620		
		3500														
		3375														
		3250											4	2930		
		3125												2920		
		3000														
		2875														
		2750											3	2230		
		2625												2220		
		2500														
		2375														
		2250														
		2125														
		2000														
		1875														
													Number of infills, sections per glazing frame			
			1 → 3330		2											
			2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500
			SPB 52**													
			LZ													
													** Optionally with wide rail extrusions (91 mm)			

Range change with VG glazing

Range change with E2 and G2 glazing

RM Grid height

LZ Clear frame dimensions (from 2000)

→ up to LZ

SPB Rail width

n₁ Number of glazing frames

UTH Bottom door section height

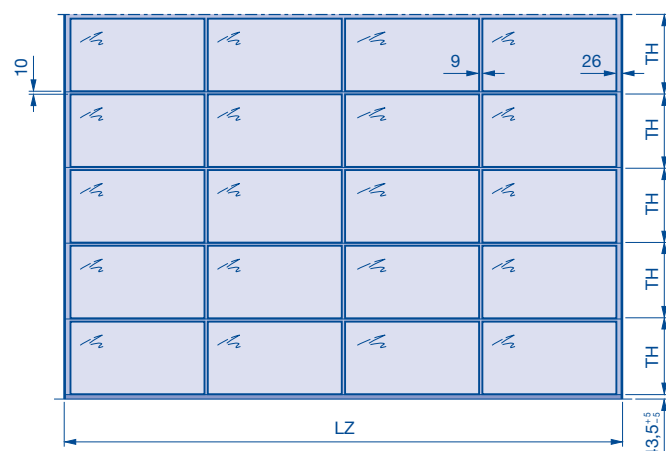
TH Door section height

OTH Upper door section height

Sectional door ALR F42 Vitraplan

Aluminium sectional door with exclusive glazing

Exterior view



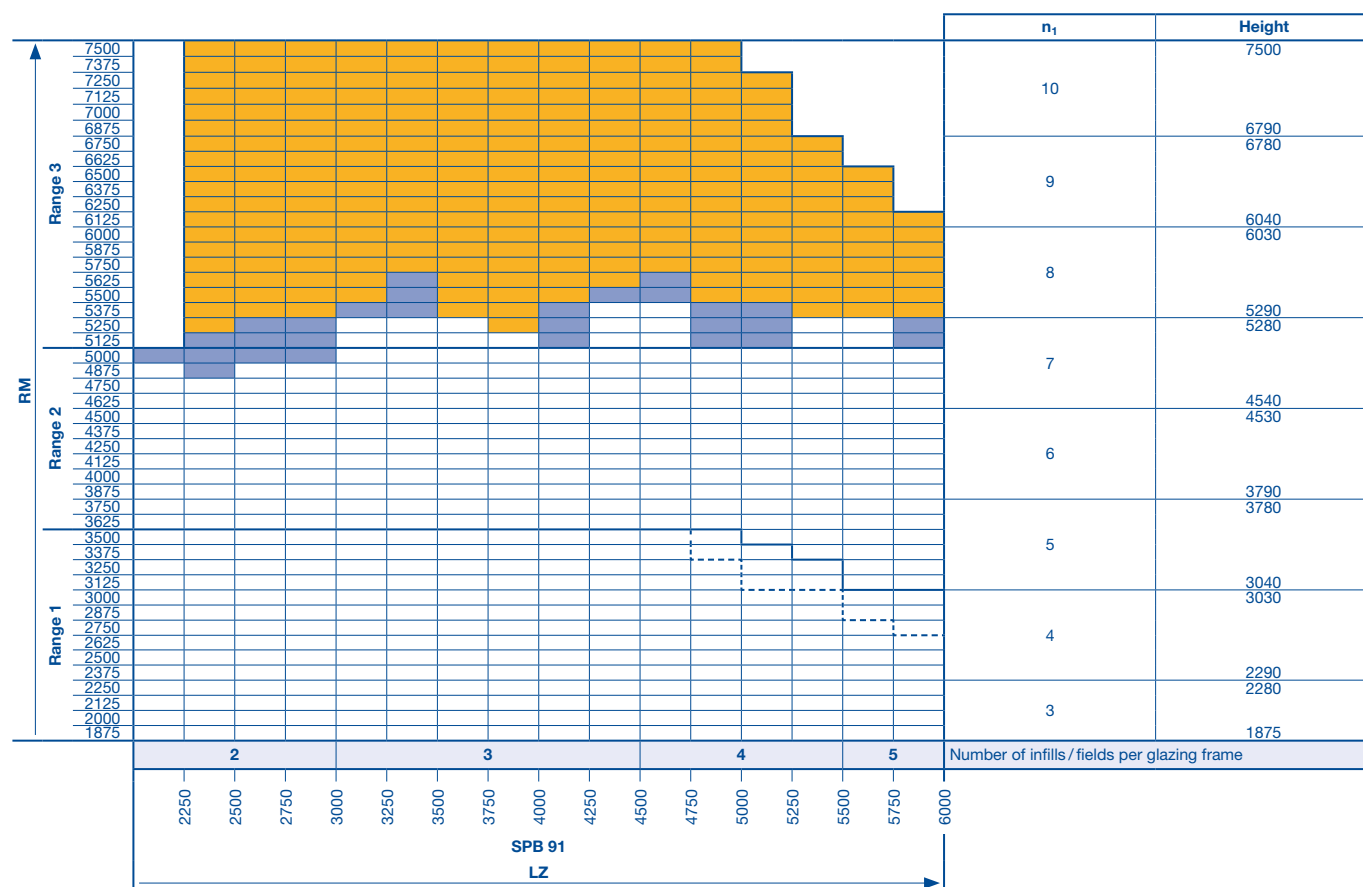
$$TH = \frac{\text{Door height} - 35}{\text{Number of glazing frames}}$$

Note:

- When using a shaft operator (installation example 5), the door locking is always opposite the operator side.
- For door widths from 5510 mm, diagonal struts are fitted into the bottom door section.

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.



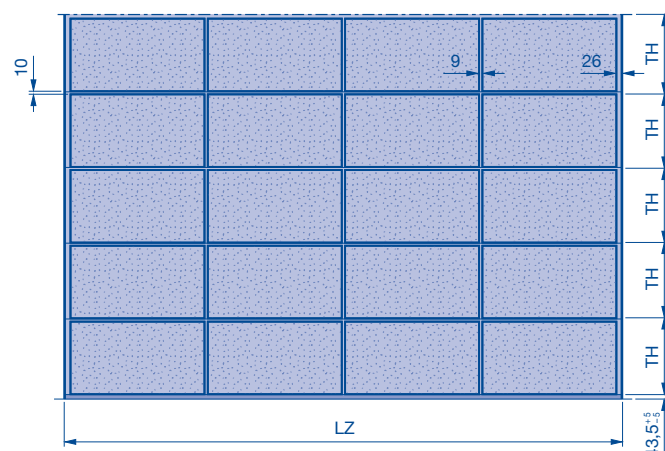
- On request
- Versions with glazing A3, S3, U3 on request
- Range change
- Range change with glazing A3, S3, U3

RM	Grid height
LZ	Clear frame dimensions (from 2000)
SPB	Rail width
n ₁	Number of glazing frames
TH	Door section height

Sectional door ALR F42 Vitraplan AT

Aluminium sectional door with exclusive facade panels

Exterior view



$$TH = \frac{\text{Door height} - 35}{\text{Number of glazing frames}}$$

Note:

- When using a shaft operator (installation example 5), the door locking is always opposite the operator side.
- For door widths from 5510 mm, diagonal struts are fitted into the bottom door section.

Size range

The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible.

ALR F42 Vitraplan AT with FU infill		n ₁	Height
Range 3	7500	10	7500
	7375		
	7250		
Range 2	7125	9	6790
	7000		6780
	6875		
Range 1	6750	8	6040
	6625		6030
	6500		
Range 2	6375	7	5290
	6250		5280
	6125		
Range 1	6000	6	4540
	5875		4530
	5750		
Range 2	5625	5	3790
	5500		3780
	5375		
Range 1	5250	4	3040
	5125		3030
	5000		
Range 2	4875	3	2290
	4750		2280
	4625		
Range 1	4500	2	1875
	4375		
	4250		
Range 2	4125	1	
	4000		
	3875		
Range 1	3750	0	
	3625		
	3500		
Range 2	3375	0	
	3250		
	3125		
Range 1	3000	0	
	2875		
	2750		
Range 2	2625	0	
	2500		
	2375		
Range 1	2250	0	
	2125		
	2000		
Range 2	1875	0	
	1750		
	1625		
Range 1	1500	0	
	1375		
	1250		
Range 2	1125	0	
	1000		
	875		
Range 1	750	0	
	625		
	500		
Range 2	375	0	
	250		
	125		
Range 1	0	0	
	0		
	0		

ALR F42 Vitraplan AT with XU infill		n ₁	Height
Range 3	7500	10	7500
	7375		
	7250		
Range 2	7125	9	6790
	7000		6780
	6875		
Range 1	6750	8	6040
	6625		6030
	6500		
Range 2	6375	7	5290
	6250		5280
	6125		
Range 1	6000	6	4540
	5875		4530
	5750		
Range 2	5625	5	3790
	5500		3780
	5375		
Range 1	5250	4	3040
	5125		3030
	5000		
Range 2	4875	3	2290
	4750		2280
	4625		
Range 1	4500	2	1875
	4375		
	4250		
Range 2	4125	1	
	4000		
	3875		
Range 1	3750	0	
	3625		
	3500		
Range 2	3375	0	
	3250		
	3125		
Range 1	3000	0	
	2875		
	2750		
Range 2	2625	0	
	2500		
	2375		
Range 1	2250	0	
	2125		
	2000		
Range 2	1875	0	
	1750		
	1625		
Range 1	1500	0	
	1375		
	1250		
Range 2	1125	0	
	1000		
	875		
Range 1	750	0	
	625		
	500		
Range 2	375	0	
	250		
	125		
Range 1	0	0	
	0		
	0		

- On request
- Version with ALUCOBOND® must be requested
- Range change for version with ALUCOBOND®
- Range change for version with TRESPA®

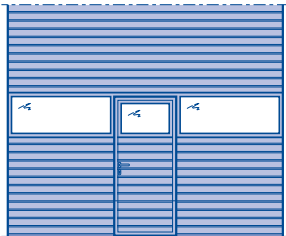
- RM Grid height
- LZ Clear frame dimensions (from 2000)
- SPB Rail width
- n₁ Number of glazing frames

Glazing and wicket door arrangements

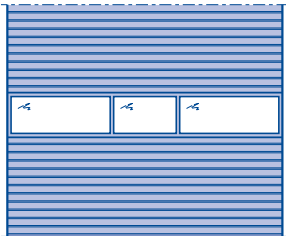
Sectional doors with 3 infills / fields

Glazing arrangements – external view

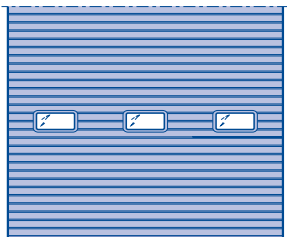
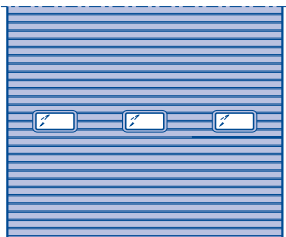
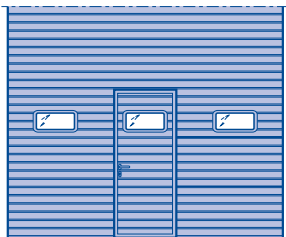
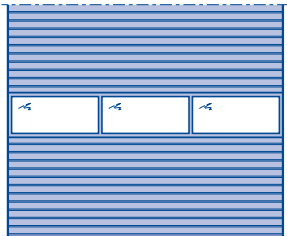
Sectional door SPU F42 with wicket door with trip-free threshold



Sectional door SPU F42, matching the wicket door versions



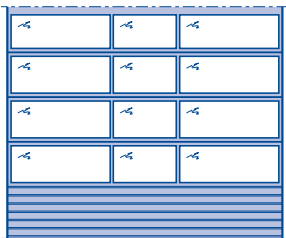
Sectional door SPU F42 with standard window division



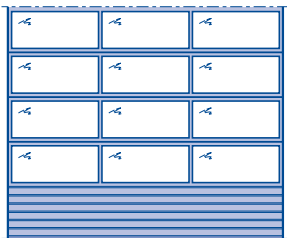
Sectional door APU F42 with wicket door with trip-free threshold



Sectional door APU F42, matching the wicket door versions



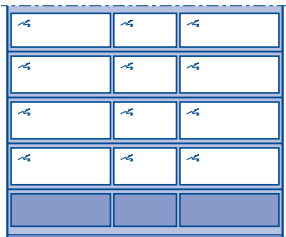
Sectional door APU F42 with standard window division



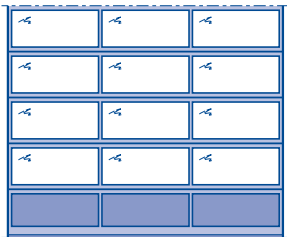
Sectional door ALR F42 with wicket door with trip-free threshold



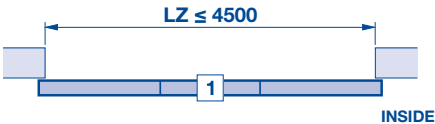
Sectional door ALR F42, matching the wicket door versions



Sectional door ALR F42 with standard window division

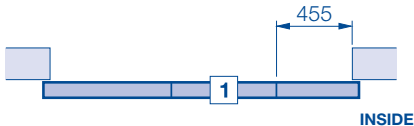


Arrangement of the wicket door



- Notes:**
- Wicket door clear passage width (DBS) = 940 mm.
 - Wicket door only opening outwards.

Wicket door with short distance to outside door edge



The short distance to the outside door edge is optionally possible on the left or right.

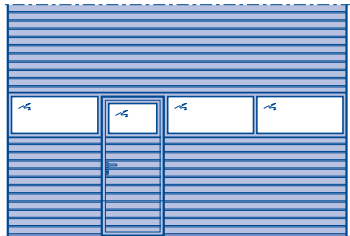
- Note:**
- Not possible for doors with real glass.

Glazing and wicket door arrangements

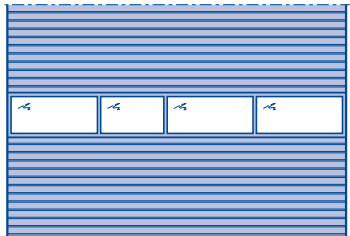
Sectional doors with 4 infills / fields

Glazing arrangements – external view

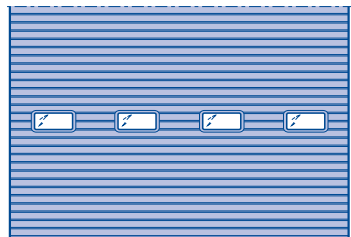
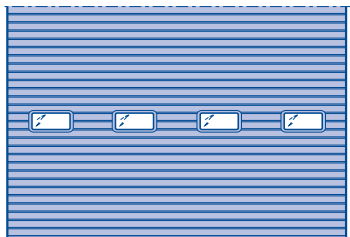
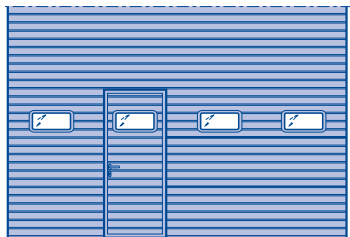
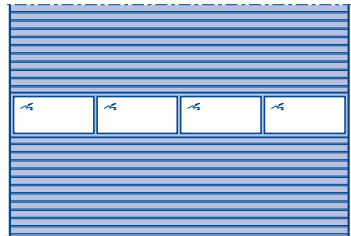
Sectional door SPU F42 with wicket door with trip-free threshold



Sectional door SPU F42, matching the wicket door versions



Sectional door SPU F42 with standard window division



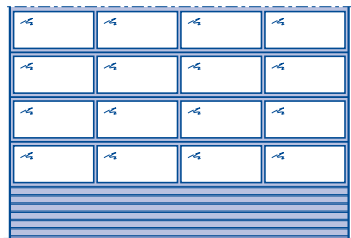
Sectional door APU F42 with wicket door with trip-free threshold



Sectional door APU F42, matching the wicket door versions



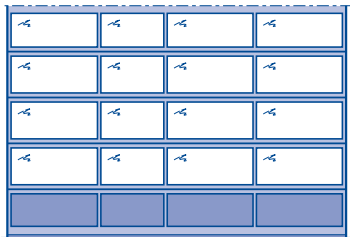
Sectional door APU F42 with standard window division



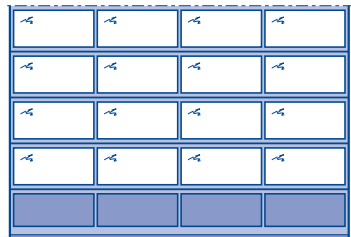
Sectional door ALR F42 with wicket door with trip-free threshold



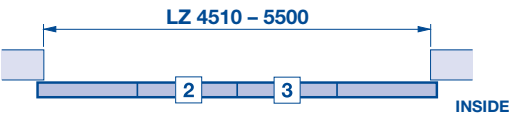
Sectional door ALR F42, matching the wicket door versions



Sectional door ALR F42 with standard window division

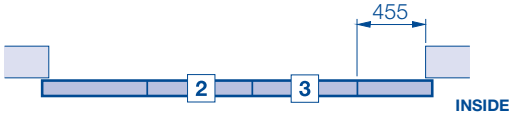


Arrangement of the wicket door



- Notes:
- Wicket door clear passage width (DBS) = 940 mm.
 - Wicket door only opening outwards.

Wicket door with short distance to outside door edge



The short distance to the outside door edge is optionally possible on the left or right.

- Note:
- Not possible for doors with real glass.

Glazing and wicket door arrangements

Sectional doors with 5 infills / fields

Glazing arrangements – external view

Sectional door SPU F42 with wicket door with trip-free threshold

Sectional door SPU F42, matching the wicket door versions

Sectional door SPU F42 with standard window division

Sectional door APU F42 with wicket door with trip-free threshold

Sectional door APU F42, matching the wicket door versions

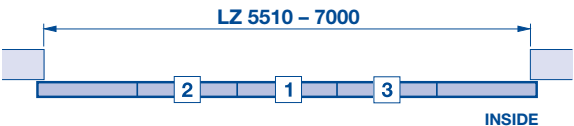
Sectional door APU F42 with standard window division

Sectional door ALR F42 with wicket door with trip-free threshold

Sectional door ALR F42, matching the wicket door versions

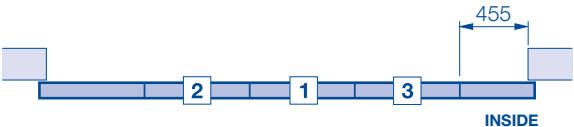
Sectional door ALR F42 with standard window division

Arrangement of the wicket door



- Notes:
- Wicket door clear passage width (DBS) = 940 mm.
 - Wicket door only opening outwards.

Wicket door with short distance to outside door edge



The short distance to the outside door edge is optionally possible on the left or right.

- Note:
- Not possible for doors with real glass.

Infills, fields and glazing

Series 40

Number of infills / sections per glazing frame

	Sectional door without wicket door																										
Glazing frame type N	1	2	3			4			5			6			7			8									
Glazing frame type B	1	2 → 3330					3					4 → 6670					5										
	Sectional door with wicket door																										
Glazing frame type N		3 → 1750-3500					4			5			6			7											
	1200	1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000
	LZ																										

Number of compound glazings per door section

	Sectional door without wicket door										
Standard type A	1 → 1680	2	3	4	5	6	7	8			
Standard type D	1 → 1640	2	3	4	5	6	7	8			
Standard type E	1 → 1860	2 → 2750	3 → 3650	4 → 4540	5 → 5510	6					
	Sectional door with wicket door										
Type A or type D		1 → 1750- 2650	3	4	5	6	7				
Type E		1 → 1840-2920	3 → 3880	4 → 4830	5 → 5780	6					
120015002000225025002750300032503500375040004250450047505000525055005750600062506500675070007250750077508000 LZ											

LZ Clear frame dimensions
→ up to LZ

Wind load class

Resistance to wind load

Detailed technical data can be found in the product configurator.

	Wind classes acc. to EN 12424																													
SPU F42, APU F42, ALR F42	4															3														
APU F42 Thermo, ALR F42 Thermo	4															3														
ALR F42 Glazing, ALR F42 Vitraplan	3																													
	1200	1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	LZ		

Wind load class for sectional doors with wicket door

	Wind classes acc. to EN 12424																													
SPU F42, APU F42, ALR F42	3															2														
APU F42 Thermo, ALR F42 Thermo	3															2														
	1200	1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	LZ		

Increased wind load class only for sectional doors without wicket door

	Wind classes acc. to EN 12424																															
															Set 1					Set 2		Set 3										
SPU F42, APU F42, ALR F42	4														4					4		4					3					
APU F42 Thermo, ALR F42 Thermo	4														4					4		4										
	1200	1500	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000					
	LZ																															

Please note:

- A technical inspection is required for an increased wind load class with special requirements!
- Additional information in the table on page 6, Technical manual depth 42 mm.
- Not possible for ALR F42 Glazing and ALR F42 Vitraplan.

Set 1

Door leaf reinforcement 85, reinforced hardware

Set 2

Door leaf reinforcement 85, reinforced hardware, twin roller

Set 3

Door leaf reinforcement 100, reinforced hardware, twin roller

LZ Clear frame dimensions
→ up to LZ

Side door NT 60 and NT 80 Thermo

Possible handing options

Fitting in the opening

Fitting next to the garage door, opening inwards or outwards, RH or LH hinged

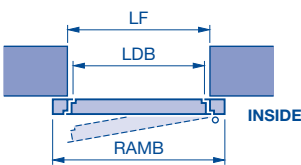


Fitting in the opening, opening inwards or outwards, RH or LH hinged



Fitting behind the opening

Only opening inwards, RH or LH hinged



Structural opening	Ordering size
	Overall frame dimensions RAMB x RAMH
875 x 2000	855 x 1990
875 x 2125	855 x 2115
1000 x 2000	980 x 1990
1000 x 2125	980 x 2115

Size range: width: RAMB 770 to 1300, height: RAMH 1865 to 2525 (indicate overall frame dimensions)

Doors with multiple-point locking: RAMH ≥ 1920 mm

Clear passage dimensions:

	Opening angle	Width	Height
NT 60	136°	RAMB – 149	RAMH – 70
	90°	RAMB – 194	
NT 80 Thermo	136°	RAMB – 164	RAMH – 70
	90°	RAMB – 215	

Note:
Side door version in ALR F42 Vitraplan with aluminium fascia profile opening inwards on request!

LF	Structural opening	LDH	Clear passage height
RAMB	Overall frame width	LZ	Clear frame dimensions
RAMH	Overall frame height		
LDB	Clear passage width		

Side door NT 60

with S-ribbed Stucco-textured / L-ribbed Micrograin infills



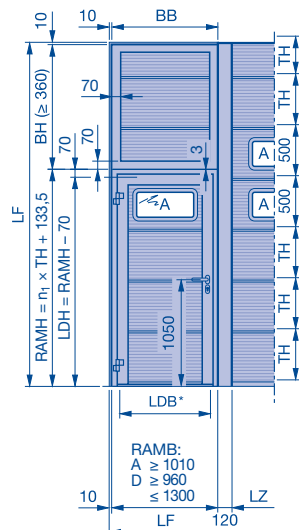
Note:
Compound window with RC2 version not possible.

* See page 42		BH	Panel height	TH	Door section height
LF		BB	Panel width	SO	Bottom section height
RAMB		LDB	Clear passage width	LZ	Clear frame dimensions
RAMH		LDH	Clear passage height	n ₁	Number of door sections / glazing frames

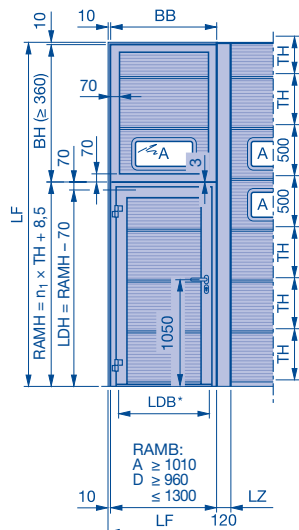
Side door NT 60

with L-ribbed Micrograin infills

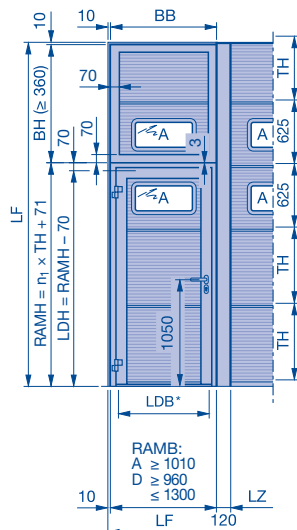
Compound glazing type A TH = 500



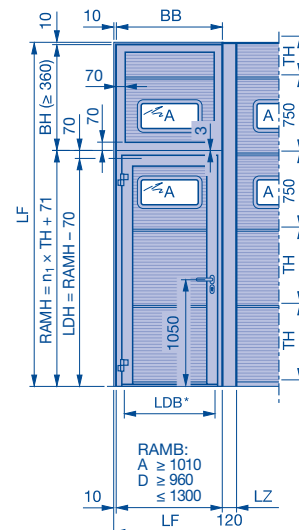
Compound glazing type A TH = 625 and 750



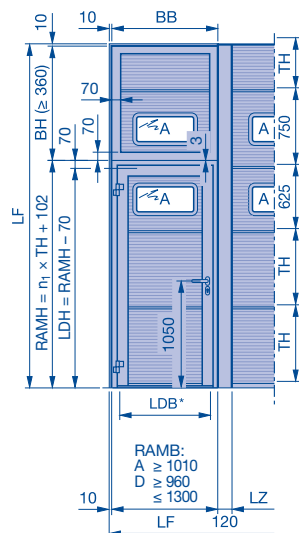
Compound glazing type A TH = 625 and 750



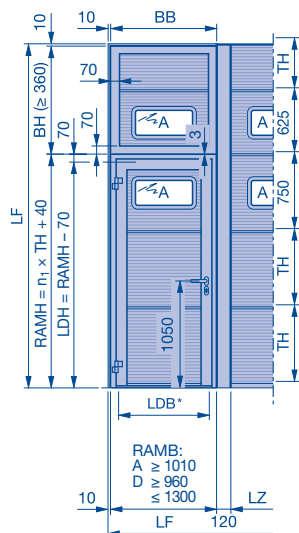
and 750



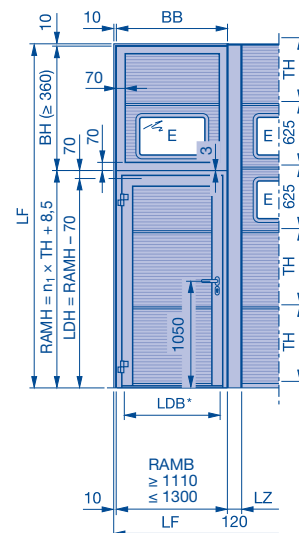
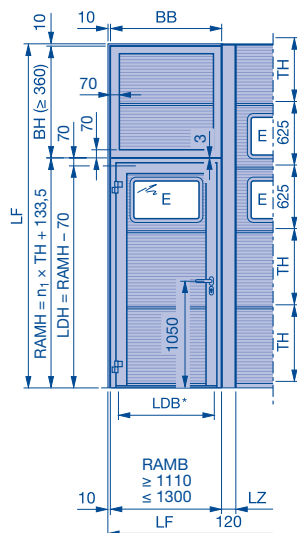
Compound glazing type A TH = 625 / 750 and 750 / 625



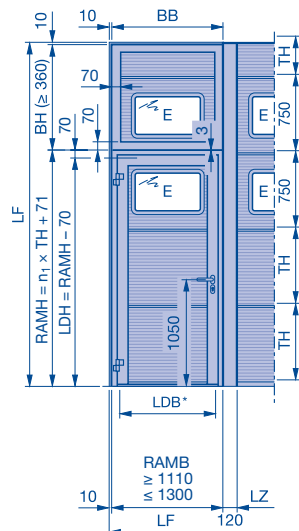
50 and 750 / 625 Compound glazing type E TH = 625



Compound glazing type E TH = 625



Compound glazing type E TH = 750



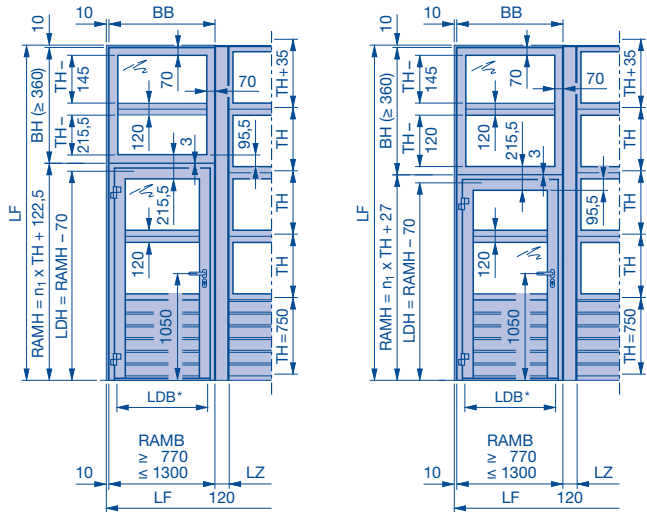
Note:
Compound window with RC2 version not possible.

(Legend see page 43)

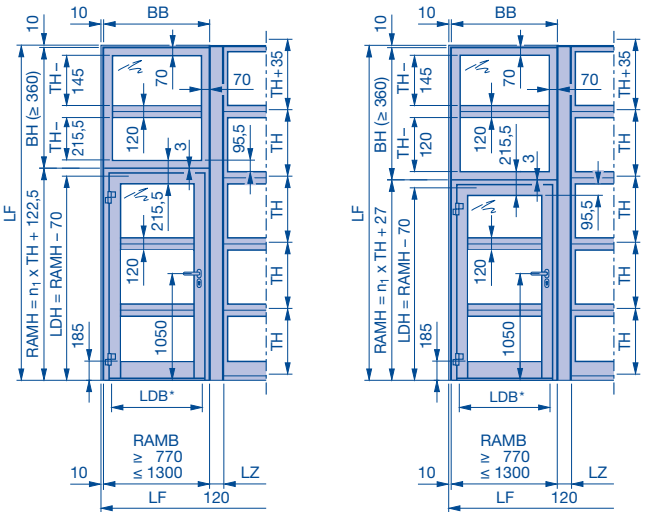
Side door NT 60

with S-ribbed Stucco-textured / L-ribbed Micrograin infills

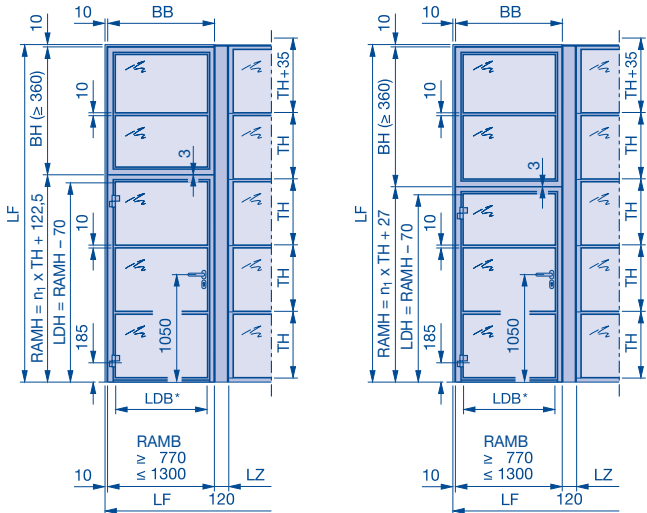
Side door NT 60 matching door type APU F42



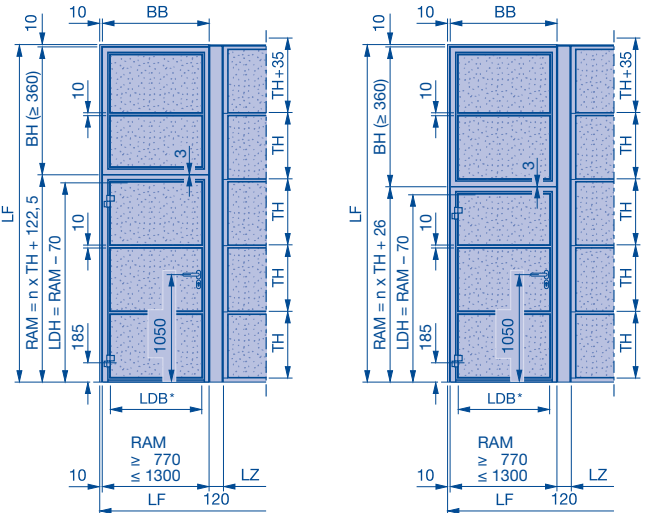
Side door NT 60 matching door type ALR F42



Side door NT Vitraplan



Side door NT Vitraplan AT



Note:
Side door NT Vitraplan not possible in RC2 version.

*	See page 42	BH	Panel height	TH	Door section height
LF	Structural opening	BB	Panel width	SO	Bottom section height
RAMB	Overall frame width	LDB	Clear passage width	LZ	Clear frame dimensions
RAMH	Overall frame height	LDH	Clear passage height	n ₁	Number of door sections / glazing frames

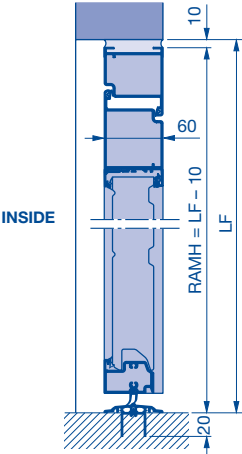
Side door NT 60

Possible fitting options

Possible fitting options

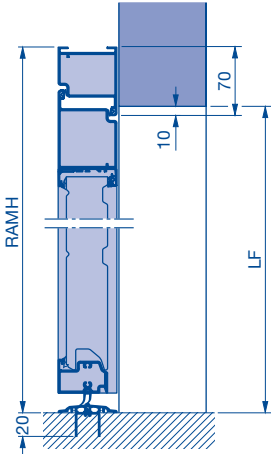
SPU in the opening

No window section, no compound glazing

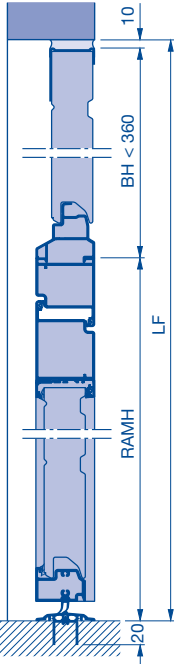


SPU behind the opening

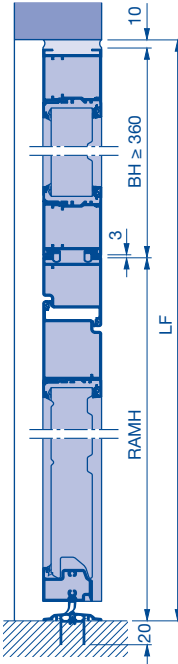
No window section, no compound glazing



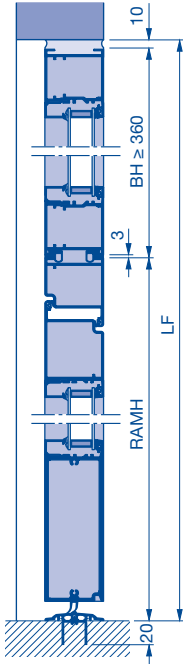
SPU with fascia panel in the opening



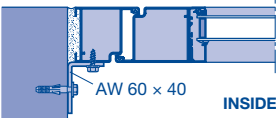
SPU, APU with fascia panel in the opening



ALR with fascia panel in the opening



In the opening



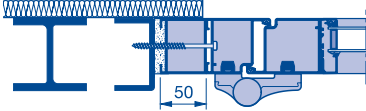
Plugs for metal frame



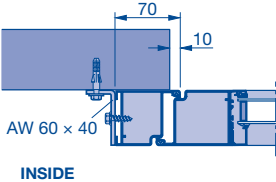
Tapping screw with countersunk head
B 6.3 x 80



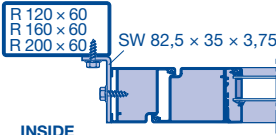
(Bottom illustration with 50 mm* extension profile for all-over insulation)
* Optionally with 25 mm



Behind the opening



Side door NT 60 flush with sectional door



R	Box section	BH	Panel height	LF	Structural opening
AW	Aluminium angle	RAMH	Overall frame height		
SW	Steel angle	LDB	Clear passage width		

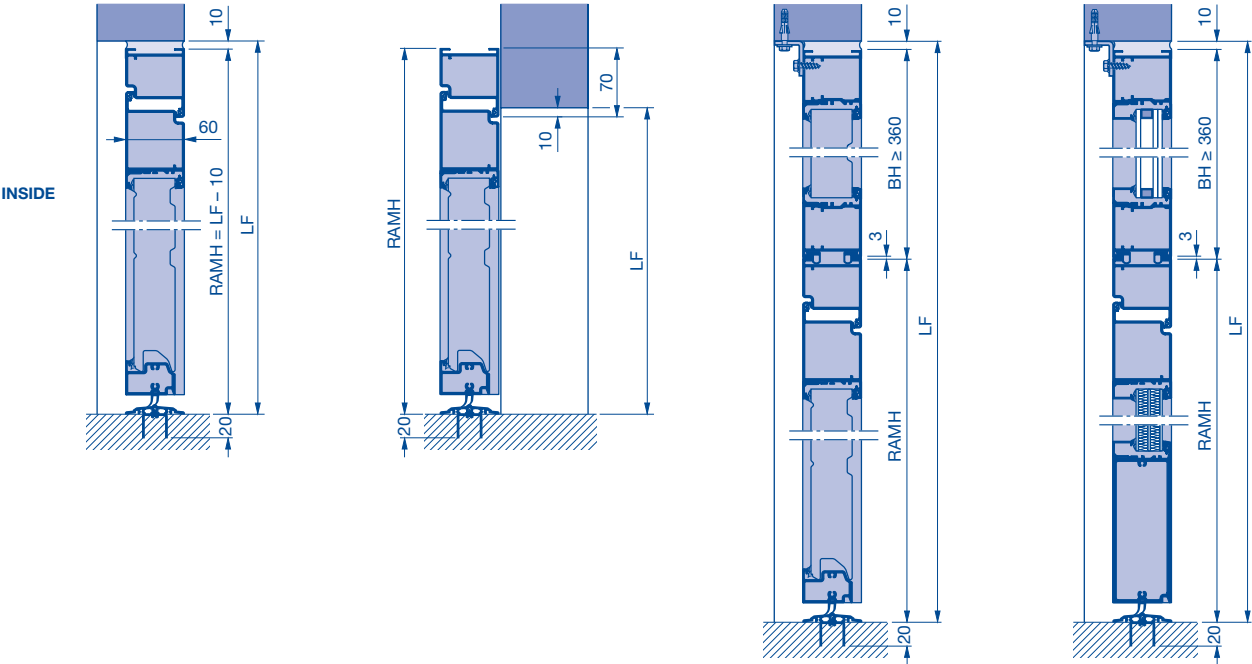
Side door NT 60 RC2

Possible fitting options

Possible fitting options

Note:
The side door and panel must be fitted in accordance with DIN EN 1627. Side door NT Vitraplan not possible in RC2 version.

- SPU in the opening**
No window section, no compound glazing
- SPU behind the opening**
No window section, no compound glazing
- SPU, APU with fascia panel in the opening**
- ALR with fascia panel in the opening**



In the opening

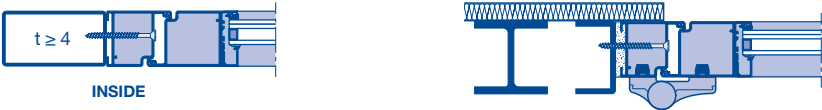


Plugs for metal frame



Tapping screw with countersunk head
B 6.3 x 80

Note:
Only use plugs for metal frame and tapping screw with countersunk head when fitting the side door.



Behind the opening



Side door NT 60 flush with sectional door

AW	Aluminium angle	RAMH	Overall frame height
t	Fastening thickness	LDB	Clear passage width
BH	Panel height	LF	Structural opening

Side door NT 80 Thermo

with S-ribbed Stucco-textured / L-ribbed Micrograin infills



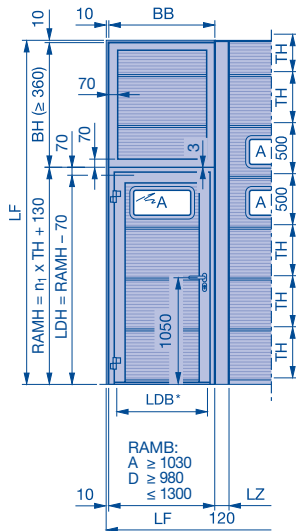
Note:
Compound window with RC2 version not possible.

* See page 42		BH	Panel height	TH	Door section height
LF		BB	Panel width	SO	Bottom section height
RAMB		LDB	Clear passage width	LZ	Clear frame dimensions
RAMH		LDH	Clear passage height	n ₁	Number of door sections / glazing frames

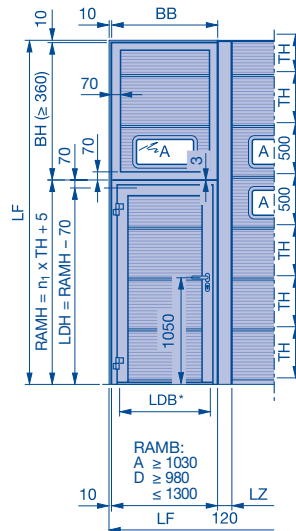
Side door NT 80 Thermo

with L-ribbed Micrograin infills

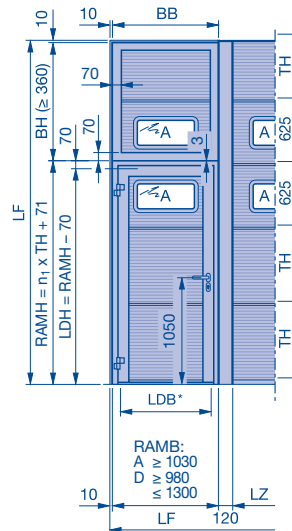
Compound glazing type A TH = 500



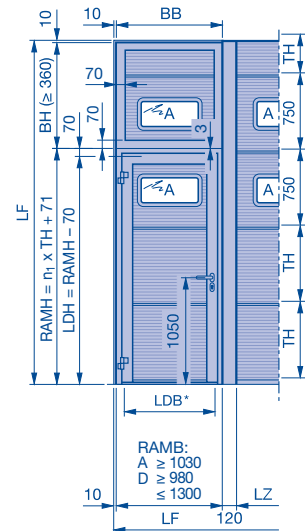
Compound glazing type A TH = 625 and 750



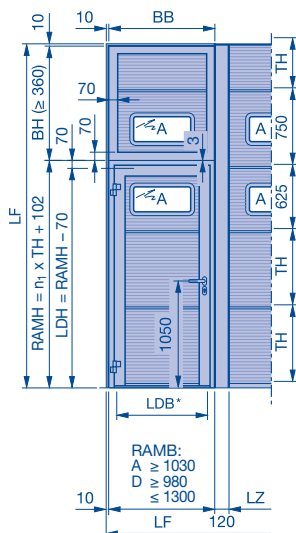
Compound glazing type A TH = 625 and 750



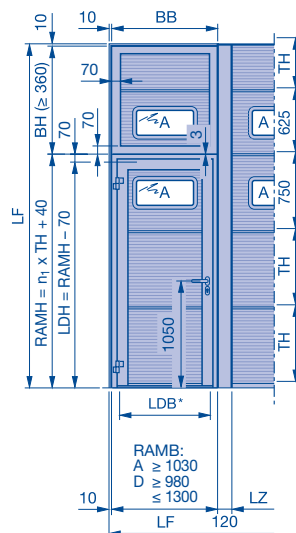
and 750



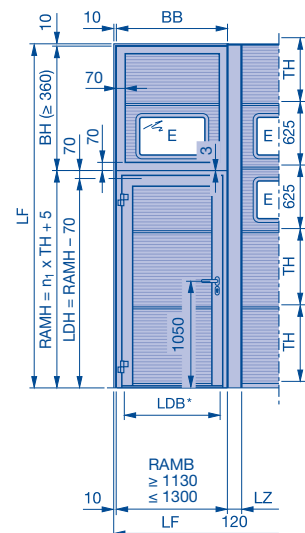
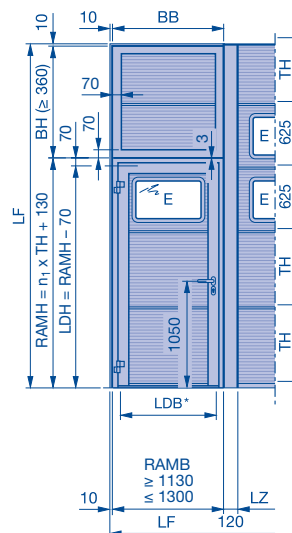
Compound glazing type A TH = 625 / 750 and 750 / 625



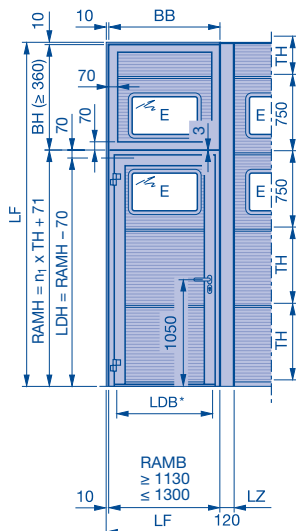
50 and 750 / 625 Compound glazing type E TH = 625



Compound glazing type E TH = 625



Compound glazing type E TH = 750



Note:

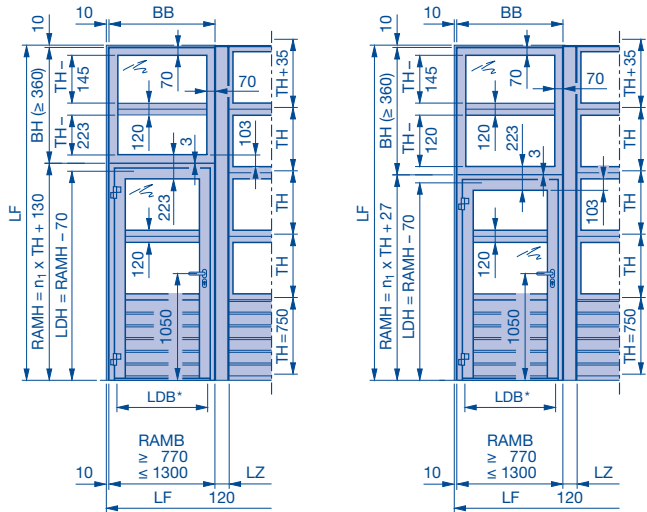
Note:
Compound window with RC2 version not possible.

(Legend see page 48)

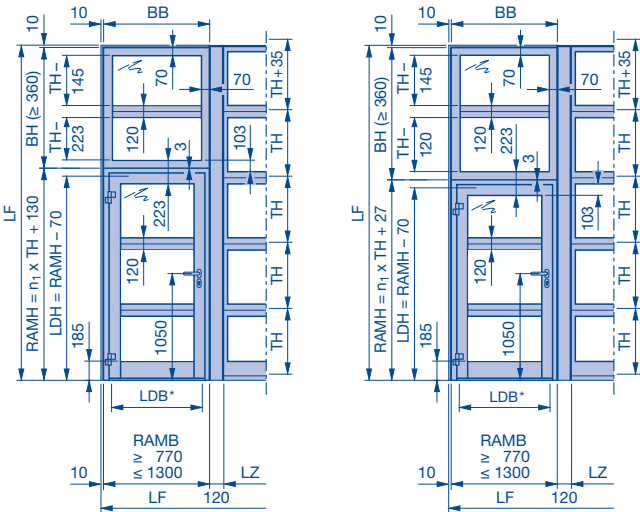
Side door NT 80 Thermo

with S-ribbed Stucco-textured / L-ribbed Micrograin infills

Side door NT 80 Thermo matching door type APU F42 Thermo



Side door NT 80 Thermo matching door type ALR F42 Thermo



*	See page 42	BH	Panel height	TH	Door section height
LF	Structural opening	BB	Panel width	SO	Bottom section height
RAMB	Overall frame width	LDB	Clear passage width	LZ	Clear frame dimensions
RAMH	Overall frame height	LDH	Clear passage height	n ₁	Number of door sections / glazing frames

Side door NT 80 Thermo

Possible fitting options

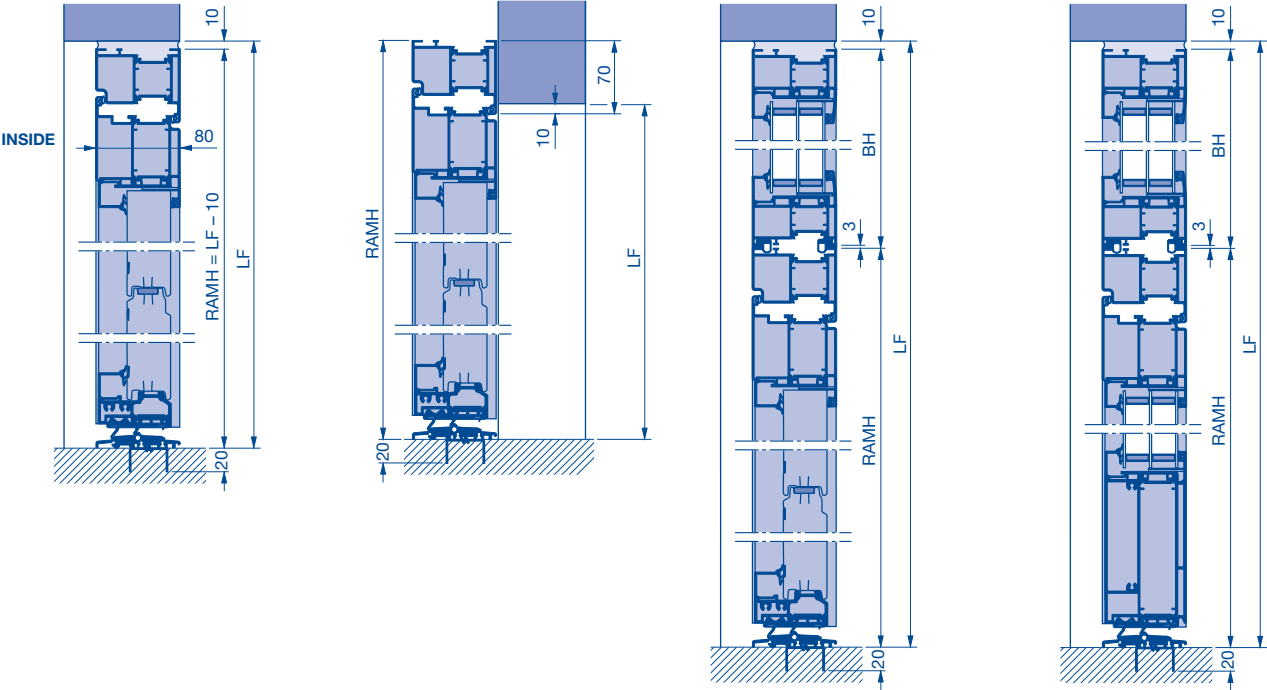
Possible fitting options

SPU in the opening
No window section, no compound glazing

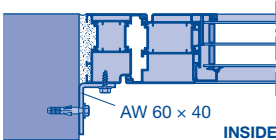
SPU behind the opening
No window section, no compound glazing

SPU, APU with fascia panel

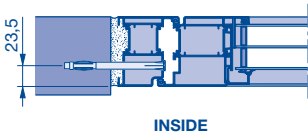
ALR with fascia panel



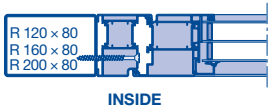
In the opening



Plugs for metal frame

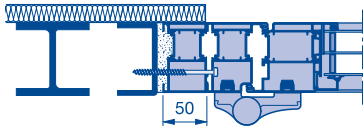


Tapping screw with countersunk head
B 6.3 x 80

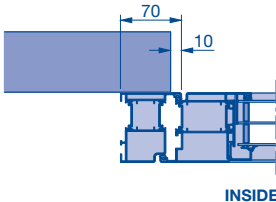


(Bottom illustration with 50 mm* extension profile for all-over insulation)

* Optionally with 25 mm



Behind the opening



Note:
Fitting with thermal break requires on-site preparations.

R	Box section	BH	Panel height	LF	Structural opening
AW	Aluminium angle	RAMH	Overall frame height		
SW	Steel angle	LDB	Clear passage width		

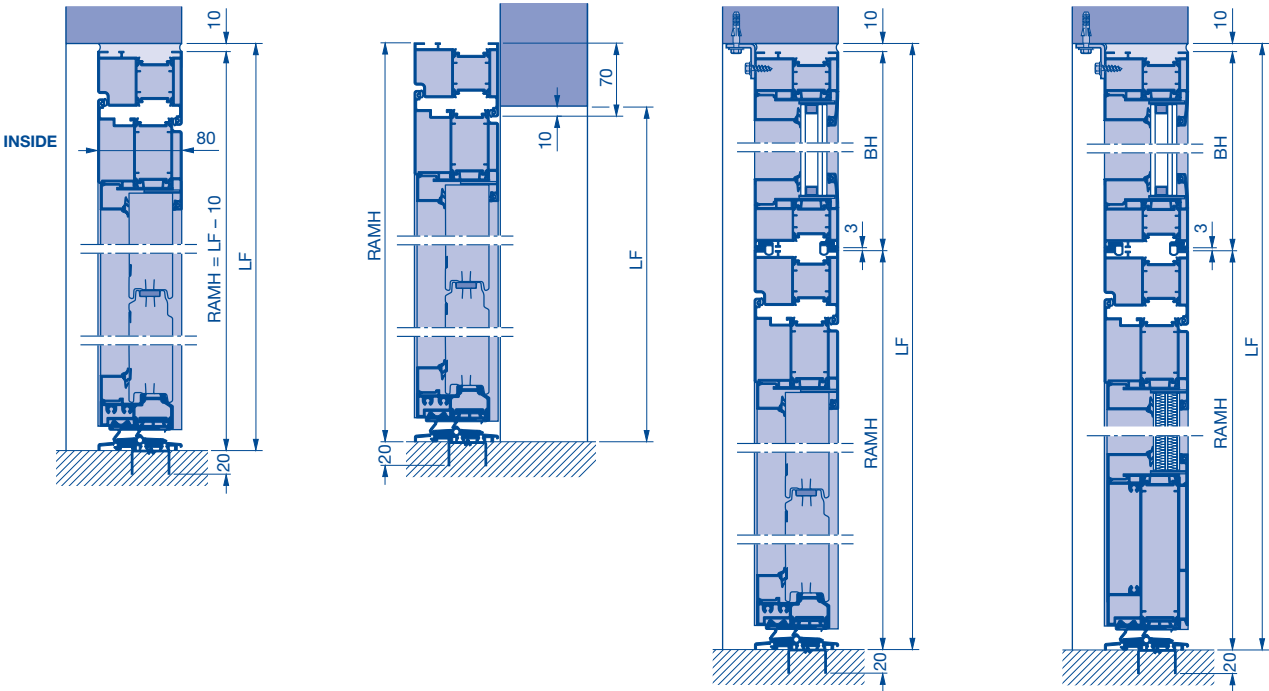
Side door NT 80 Thermo RC2

Possible fitting options

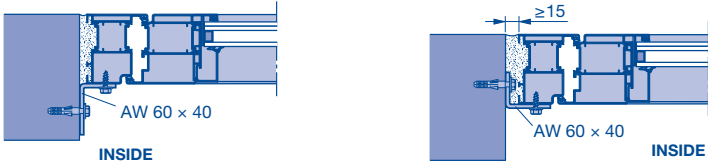
Possible fitting options

Note:
The side door and panel must be fitted in accordance with DIN EN 1627.

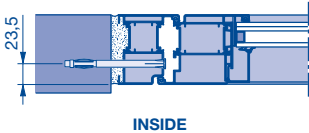
- SPU in the opening**
No window section, no compound glazing
- SPU behind the opening**
No window section, no compound glazing
- SPU, APU with fascia panel**
- ALR with fascia panel**



In the opening

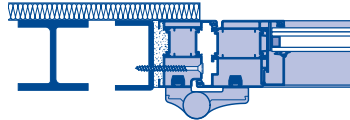
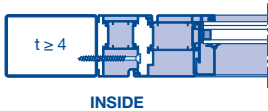


Plugs for metal frame

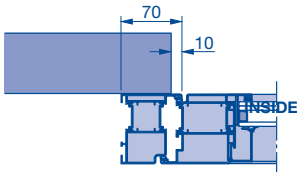


Tapping screw with countersunk head
B 6.3 x 80

Note:
Only use plugs for metal frame and tapping screw with countersunk head when fitting the side door.



Behind the opening



Note:
Fitting with thermal break requires on-site preparations.

R	Box section	BH	Panel height	LF	Structural opening
AW	Aluminium angle	RAMH	Overall frame height		
SW	Steel angle	LDB	Clear passage width		

Fixed elements

Possible fitting options
and fitting examples

Possible fitting options

SPU F42 behind the opening
No window section, no compound glazing

65
60
5
RAMH = LF + 60
INSIDE

APU F42 behind the opening

65
60
5
RAMH = LF + 60

ALR F42, ALR F42 Thermo behind the opening

65
60
5
RAMH = LF + 60

SPU F42 in the opening
No window section, no compound glazing

10
60
5
RAMH = LF - 10 - 5
INSIDE

APU F42 in the opening

10
60
5
RAMH = LF - 10 - 5

ALR F42, ALR F42 Thermo in the opening

10
60
5
RAMH = LF - 10 - 5

Fitting examples

Behind the opening

BOS
ST8 x 30
R 120 x 60
R 160 x 60
R 200 x 60
AW 60 x 40 x 4
BLS
A6.5 x 16
20
23
RAMB
INSIDE

In the opening

BOS
ST8 x 30
R 120 x 60
R 160 x 60
R 200 x 60
AW 60 x 40 x 4
BLS
A6.5 x 16
15
RAMB
INSIDE

In front of the opening

BOS
ST8 x 30
R 120 x 60
R 160 x 60
R 200 x 60
AW 60 x 40 x 4
BLS
A6.5 x 16
20
23
RAMB
INSIDE

Side door

BOS
ST8 x 30
R 120 x 60
R 160 x 60
R 200 x 60
AW 60 x 40 x 4
BLS
A6.5 x 16
20
23
RAMB
INSIDE

AW	Aluminium angle	PU	PU section	RAMH	Overall frame height
SR	Support tube	LF	Structural opening	BOS	drilling screw
AR	Glazing frame	RAMB	Overall frame width	BLS	self-tapping screw

Clear passage

Series 60

Track applications N / NA / ND / NS / NK

	without operator and without chain hoist	HKZ or WA 500 / 500 FU	WA 300	ITO / SupraMatic**
LZ ≤ 5500				
Without wicket door	RM - 100	RM	RM - 30	RM
Wicket door with threshold rail	RM - 120	RM - 20	RM - 50	RM - 20
Wicket door without threshold rail	RM - 165	RM - 65	RM - 95	RM - 65
LZ > 5500				
Without wicket door	RM - 150	RM - 50	RM - 80	RM - 50
Wicket door with threshold rail	RM - 170	RM - 70	RM - 100	RM - 70
Wicket door without threshold rail ***	RM - 185	RM - 135	RM - 165	RM - 135

Track application L with swivel mechanism

	without operator and without chain hoist	HKZ or WA 500 / 500 FU	WA 300	ITO / SupraMatic
LZ ≤ 5500				
Without wicket door*	–	RM	RM - 30	–
Wicket door with threshold rail	–	RM - 50	RM - 80	–
Wicket door without threshold rail	–	RM - 65	RM - 95	–
LZ > 5500				
Without wicket door	–	RM - 50	RM - 80	–
Wicket door with threshold rail	–	RM - 100	RM - 130	–
Wicket door without threshold rail	–	RM - 135	RM - 165	–

Note:

For wicket door arrangement 2 and 4 (LH hinged) or 3 and 5 (RH hinged) with opposite operator side, the clear passage can be found in the product configurator!

Track application L without swivel mechanism

	without operator and without chain hoist	HKZ or WA 500 / 500 FU	WA 300	ITO / SupraMatic
LZ ≤ 5500				
Without wicket door	RM - 325	RM - 110	RM - 140	RM
Wicket door with threshold rail	RM - 375	RM - 130	RM - 160	RM - 50
Wicket door without threshold rail	RM - 440	RM - 170	RM - 220	RM - 85
LZ > 5500				
Without wicket door	RM - 375	RM - 160	RM - 190	RM - 50
Wicket door with threshold rail	RM - 375	RM - 180	RM - 210	RM - 100
Wicket door without threshold rail ***	RM - 475	RM - 240	RM - 270	RM - 165

* For ALR F42 / ALR F42 Thermo with real glass infill VG, E2 and G2 and ALR F42 Vitraplan LZ > 3000;
ALR F42 Glazing LZ > 3330 and ALR F42 / ALR F42 Thermo LZ > 5000, the calculation applies to a wicket door with threshold rail.

** Track applications NS and NK not possible.

*** For versions with real glass infill LZ > 4500

Clear passage

Series 60

Track application LD with swivel mechanism

	without operator and without chain hoist	HKZ or WA 500 / 500 FU		WA 300		ITO / SupraMatic
a°		< 6°	6° – 10°	< 6°	6° – 10°	
LZ ≤ 5500						
Without wicket door	–	RM		RM - 30		–
Wicket door with threshold rail	–	RM - 50	RM - 30	RM - 80	RM - 60	–
Wicket door without threshold rail	–	RM - 65		RM - 95		–
LZ > 5500						
Without wicket door	–	RM - 50		RM - 80		–
Wicket door with threshold rail	–	RM - 100	RM - 80	RM - 130	RM - 110	–
Wicket door without threshold rail	–	RM - 135		RM - 195		–

Note:

For wicket door arrangement 2 and 4 (LH hinged) or 3 and 5 (RH hinged) with opposite operator side, the clear passage can be found in the product configurator!

Track application LD without swivel mechanism

	without operator and without chain hoist	HKZ or WA 500 / 500 FU		WA 300		ITO/ SupraMatic
a°		2° – 16°	18° – 30°	2° – 16°	18° – 30°	
LZ ≤ 5500						
Without wicket door	RM - 325	RM - 110 + (a° × 2,5)	RM - 115 + (a° × 2,5)	RM - 140 + (a° × 2,5)	RM - 145 + (a° × 2,5)	RM
Wicket door with threshold rail	RM - 375	RM - 135 + (a° × 3,2)	RM - 150 + (a° × 3,75)	RM - 165 + (a° × 3,2)	RM - 180 + (a° × 3,75)	RM - 50
Wicket door without threshold rail	RM - 440	RM - 175 + (a° × 3,2)	RM - 190 + (a° × 3,75)	RM - 225 + (a° × 3,2)	RM - 240 + (a° × 3,75)	RM - 85
LZ > 5500						
Without wicket door	RM - 375	RM - 160 + (a° × 2,5)	RM - 165 + (a° × 2,5)	RM - 190 + (a° × 2,5)	RM - 195 + (a° × 2,5)	RM - 50
Wicket door with threshold rail	RM - 375	RM - 180 + (a° × 3,2)	RM - 200 + (a° × 3,75)	RM - 210 + (a° × 3,2)	RM - 230 + (a° × 3,75)	RM - 100
Wicket door without threshold rail ***	RM - 475	RM - 240 + (a° × 3,2)	RM - 260 + (a° × 3,75)	RM - 270 + (a° × 3,2)	RM - 290 + (a° × 3,75)	RM - 165

*** For versions with real glass infill LZ > 4500

– Not possible
a° Inclination

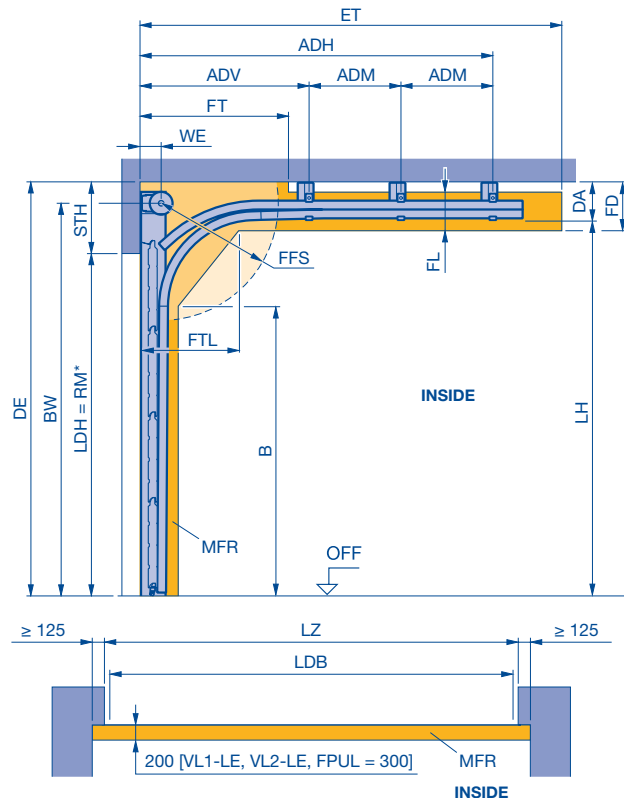
HKZ Chain hoist
LZ Clear frame dimensions

RM Grid height

Track application: N

Normal track application

Detailed technical data can be found in the product configurator.



ADH	Distance to rear ceiling anchor	FTL	Clearance door section in the double radius
ADM	Distance to central ceiling anchor	LDB	Clear passage width with ThermoFrame (see page 82)
ADV	Distance to front ceiling anchor	LDH	Clear passage height
B	Start of double radius	LH	Track height
BW	Position of shaft support	LZ	Clear frame dimensions
DA	Min. distance to ceiling	MFR	Space for fitting the door
DAL	Anchor length	OFF	Finished floor level
DE	Min. ceiling height	RM	Grid height
ET	Min. distance back	STH	Min. headroom
FD	Min. ceiling clearance	WE	Shaft centre from lintel
FFS	Spring compression clearance		
FL	Track clearance		
FPUL	Spring buffers below the track		
FT	Clearance for door operation		

Door weights for roof loads:

SPU F42 / APU F42 Thermo / ALR F42 Thermo	= 320 N/m ²
APU F42 / ALR F42	= 280 N/m ²
ALR F42 Glazing	= 560 N/m ²

Observe min. sideroom, see page 82.

	STH	WE	DA	BW	FT
N 1	390	140	183	RM + 310	1250
N 2	440	160	233	RM + 335	
N 3	550	180	343	RM + 415	
with double spring shaft	760		543	RM + 415	

B	DE	FFS	FD	FL	FTL	LH
RM - 310	STH + RM	min 90° (745)	DA + 65	230	670	RM + 207

ET***		
N 1 / N 2	RM + 395	Manual operation with short spring buffer
	RM + 665	Shaft operator with long spring buffer
N 3	RM + 665	For manual operation and shaft operator with long spring buffer

*** Simplified calculation

Notes:

- Be sure to observe the permissible size ranges of the door types on pages 10–15 and 18–35!
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.
- If using the spring buffer below the track, the clear height under the track in the area of the spring buffer is reduced by 70 mm.
- For version with wicket door, manually operated: chain hoist recommended!

* Notice:

Observe clear passage height LDH, see page 54.

Min. headroom

Track size	Headroom	Track size	Headroom	Track size	Headroom
N 1, NS 1, NK 1	390	GS 1, GK 1	567	V 6	RM + 540
N 2, NS 2, NK 2	440	GS 1, GK 2	617	V 7	RM + 580
N 3	550	L 1, LD 1, L 2, LD 2	200	V 9	RM + 675
NA 1	400	H 4, HD 4	780	VA 6	RM + 550
NA 2	450	H 5, HD 5	840	VS 6, VS 7	**
ND 1	410	H 8, HD 8	880	VS 9	**
ND 2	440	HA 4	790	VU 6	RM + 310
ND 3	550	HU 4, HU 5, HU 8, RD 4, RD 5, RD 8	1750	VU 7	RM + 310
ND 6	490	HS 4, HK 4	808	VU 9	RM + 310
ND 7	510	HS 5, HK 5	835	WS 6, WS 7, WS 9	**
NH 1, GD 1	569	HS 8, HK 8	875	HP 4	1930
NH 2, GD 2	634	RS 4, RK 4, RS 5, RK 5	1477	HP 5	1960
NH 3	709				Dimensions in mm

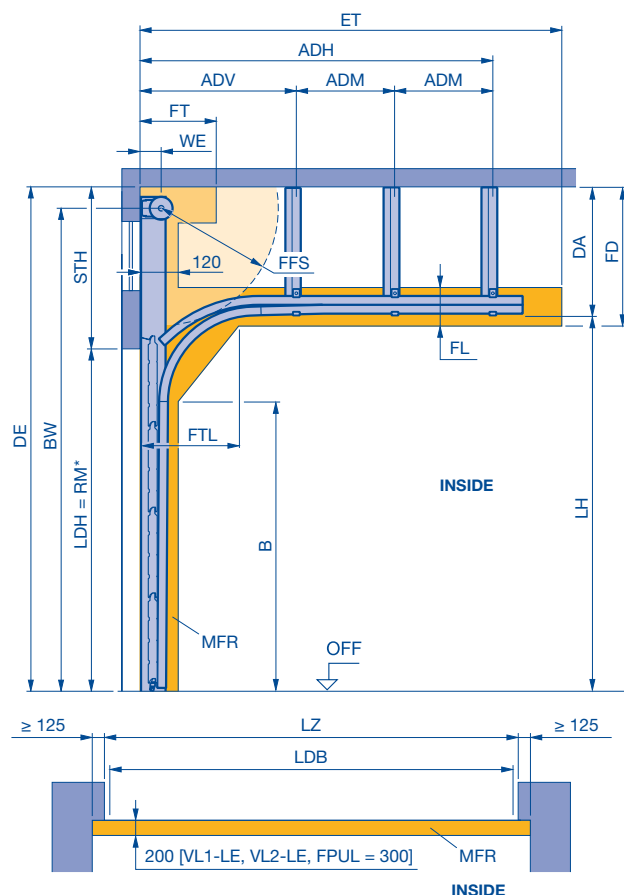
** Dimensions can be found in the product configurator.

Track application: NA

Normal track application

With high-mounted torsion spring shaft

Detailed technical data can be found in the product configurator.



ADH	Distance to rear ceiling anchor	FTL	Clearance door section in the double radius
ADM	Distance to central ceiling anchor	LDB	Clear passage width with ThermoFrame (see page 82)
ADV	Distance to front ceiling anchor	LDH	Clear passage height
B	Start of double radius	LH	Track height
BW	Position of shaft support	LZ	Clear frame dimensions
DA	Min. distance to ceiling (depends on order)	MFR	Space for fitting the door
DE	Ceiling height (depends on order)	OFF	Finished floor level
ET	Min. distance back	RM	Grid height
FD	Ceiling clearance	STH	Max. headroom (depends on order)
FFS	Spring compression clearance	WE	Shaft centre from lintel
FL	Track clearance		
FPUL	Spring buffers below the track		
FT	Clearance for door operation		

Door weights for roof loads:

SPU F42 / APU F42 Thermo / ALR F42 Thermo	= 320 N/m ²
APU F42 / ALR F42	= 280 N/m ²
ALR F42 Glazing	= 560 N/m ²

Observe min. sideroom, see page 82.

	STH	WE	DA	Min. BW	Max. BW
NA 1	400	140	(BW + 80) - (RM + 207)	RM + 320	7820, DE - 80
NA 2	450	160	(BW + 105) - (RM + 207)	RM + 345	7995, DE - 105

FT	DE	B	FFS
885	STH + RM	RM - 310	Min. 90° (745)

FD	FL	FTL	LH
DA + 65	230	670	RM + 207

ET**		
NA 1 / NA 2	RM + 395	Manual operation with short spring buffer
	RM + 665	Shaft operator with long spring buffer

** Simplified calculation

Notes:

- Be sure to observe the permissible size ranges of the door types on pages 10 – 15 and 18 – 35!
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.
- If using the spring buffer below the track, the clear height under the track in the area of the spring buffer is reduced by 70 mm.

* Notice:

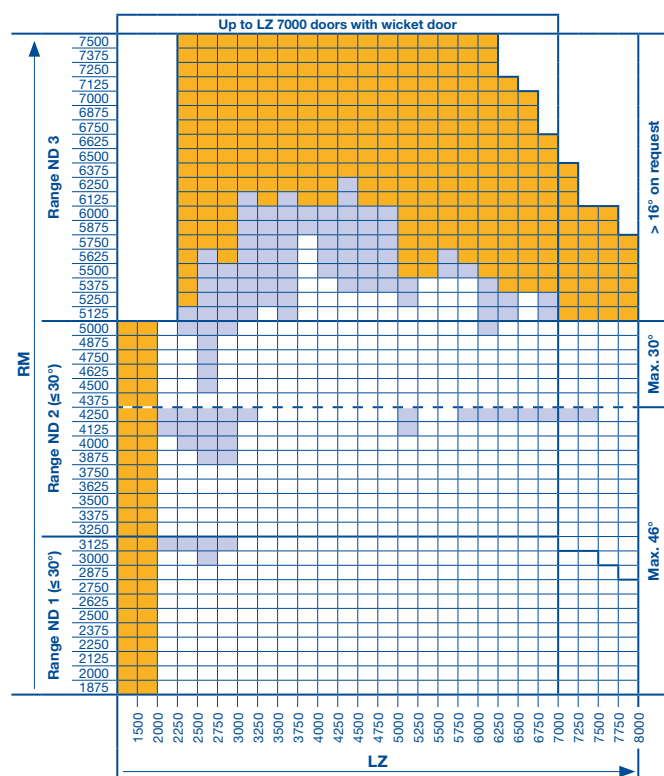
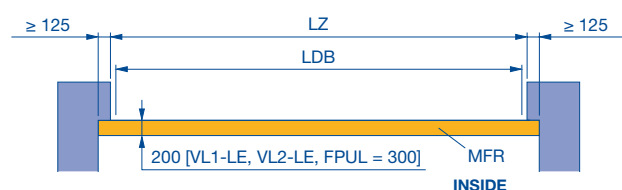
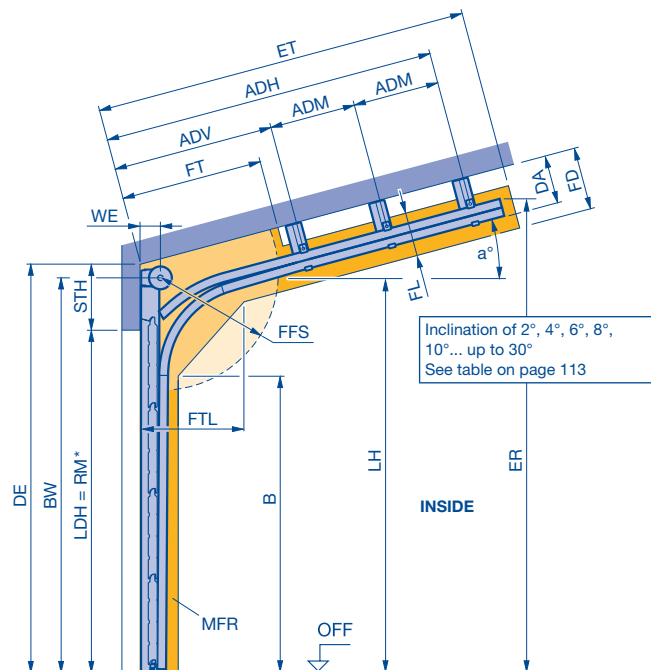
Observe clear passage height LDH, see page 54.

Track application: ND

Normal track application

with inclination up to max. 30

Detailed technical data can be found in the product configurator.



a°	Inclination	FTL	Clearance door section in the double radius
ADH	Distance to rear ceiling anchor	LDB	Clear passage width with ThermoFrame (see page 82)
ADM	Distance to central ceiling anchor	LDH	Clear passage height
ADV	Distance to front ceiling anchor	LH	Track height
B	Start of double radius	LZ	Clear frame dimensions (from 1200)
BW	Position of shaft support	MFR	Space for fitting the door
DA	Distance to ceiling on request	OFF	Finished floor level
DE	Ceiling height	RM	Grid height
ER	Corner point, top edge of track (depth and height)	STH	Min. headroom
ET	Min. distance back	WE	Shaft centre from lintel
FD	Ceiling clearance		
FFS	Spring compression clearance		
FL	Track clearance		
FPUL	Spring buffers below the track		
FT	Clearance for door operation		

Door weights for roof loads:

SPU F42 / APU F42 Thermo / ALR F42 Thermo	= 320 N/m ²
APU F42 / ALR F42	= 280 N/m ²
ALR F42 Glazing	= 560 N/m ²

Observe min. sideroom, see page 82.

	STH	WE	BW	FT	FTL
ND 1, ≤ 30°	410	140	RM + 330	1250, < 16°	670, < 16°
ND 2, ≤ 30°	440	160	RM + 335	1000, ≥ 16°	500, ≥ 16°
ND 3, ≤ 30°	550		RM + 415	1250, < 16°	670, < 16°
With double spring shaft	760	180	RM + 415	1000, ≥ 16°	500, ≥ 16°

ET	DA	DE	FFS	FD	FL	LH	ER	B
**	**	STH + RM	Min. 90° (745)	DA + 65	230	**	**	**

** Dimensions can be found in the product configurator.

Note:

- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.
- If using the spring buffer below the track, the clear height under the track in the area of the spring buffer is reduced by 70 mm.

* Notice:

Observe clear passage height LDH, see page 54.

Note:

- Be sure to observe the permissible size ranges of the door types on pages 10 – 15 and 18 – 35!
- ALR F42 Vitraplan and ALR F42 Glazing on request.
- To determine the roof slope see page 113.
- Door types APU F42, ALR F42, APU F42 Thermo and ALR F42 Thermo with glazing A3, B3, M3, S3, U3, LB, P, XU and wicket door on request.
- Inclination on request for RM ≤ 4250 and > 30° or RM > 4250 and > 16°.

All door types available in any version.

Versions with glazing A3, B3, M3, S3, U3, LB, P, XU and/or wicket door.

All door types and versions on request.

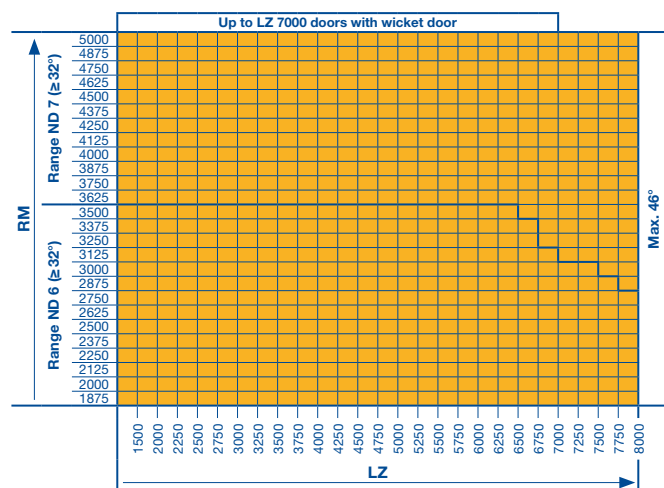
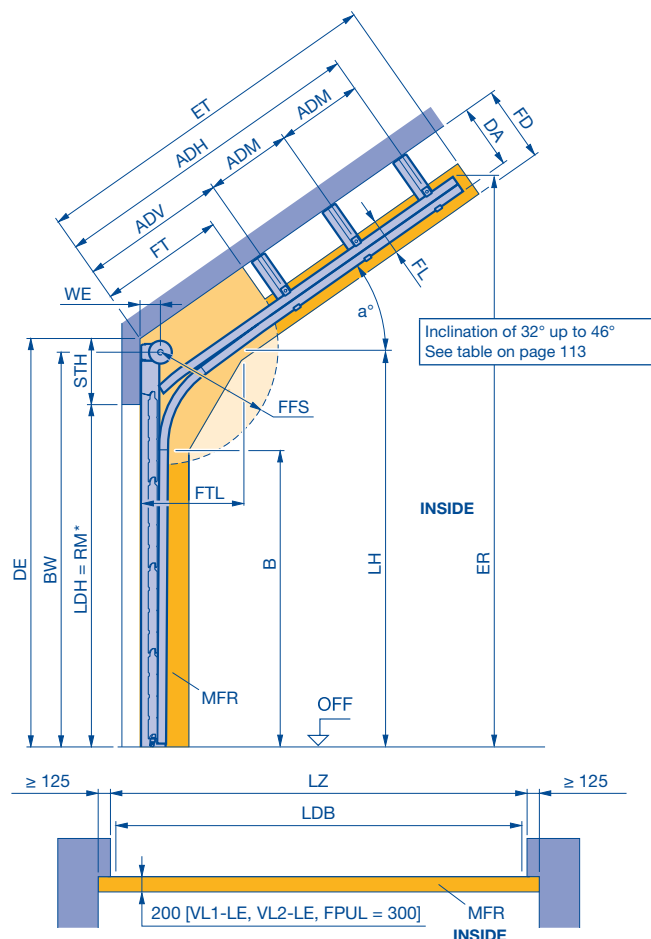
Dimensions in mm

Track application: ND

Normal track application

With inclination of 32° up to max. 46

Detailed technical data can be found in the product configurator.



a°	Inclination	FTL	Clearance door section in the double radius
ADH	Distance to rear ceiling anchor	LDB	Clear passage width with ThermoFrame (see page 82)
ADM	Distance to central ceiling anchor	LDH	Clear passage height
ADV	Distance to front ceiling anchor	LH	Track height
B	Start of double radius	LZ	Clear frame dimensions (from 1200)
BW	Position of shaft support	MFR	Space for fitting the door
DA	Distance to ceiling on request	OFF	Finished floor level
DE	Ceiling height	RM	Grid height
ER	Corner point, top edge of track (depth and height)	STH	Min. headroom
ET	Min. distance back	WE	Shaft centre from lintel
FD	Ceiling clearance		
FFS	Spring compression clearance		
FL	Track clearance		
FPUL	Spring buffers below the track		
FT	Clearance for door operation		

Door weights for roof loads:

SPU F42 / APU F42 Thermo / ALR F42 Thermo	= 320 N/m ²
APU F42 / ALR F42	= 280 N/m ²
ALR F42 Glazing	= 560 N/m ²

Observe min. sideroom, see page 82.

	STH	WE	BW	FT	FTL
ND 6, ≥ 32°	490	160	RM + 385	885	500
ND 7, ≥ 32°	510		RM + 405		

ET	DA	DE	FFS	FD	FL	LH	ER	B
**	**	STH + RM	Min. 90° (745)	DA + 65	230	**	**	**

** Dimensions can be found in the product configurator.

Note:

- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.
- If using the spring buffer below the track, the clear height under the track in the area of the spring buffer is reduced by 70 mm.

* Notice:

Observe clear passage height LDH, see page 54.

Note:

- Be sure to observe the permissible size ranges of the door types on pages 10–15 and 18–35!

All door types and versions on request.

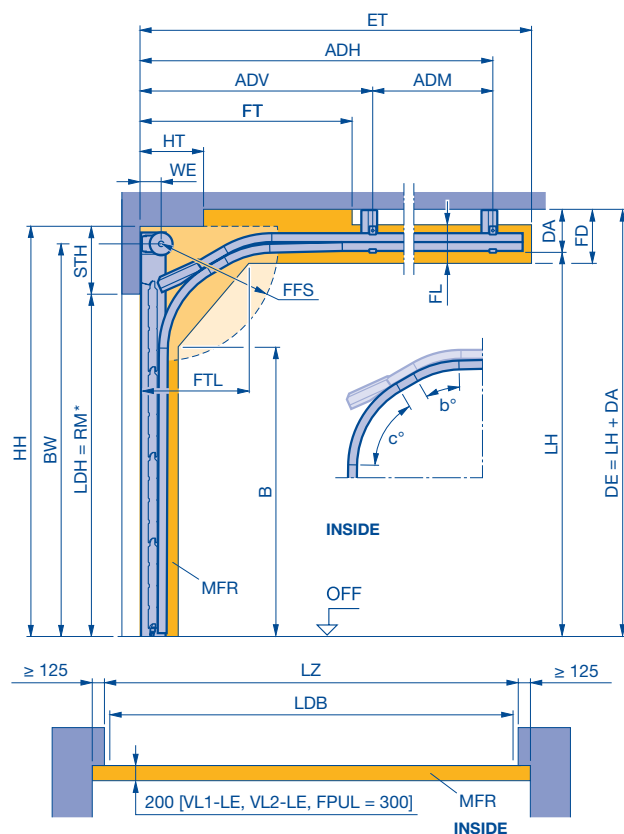
Dimensions in mm

Track application: NS

Normal track application

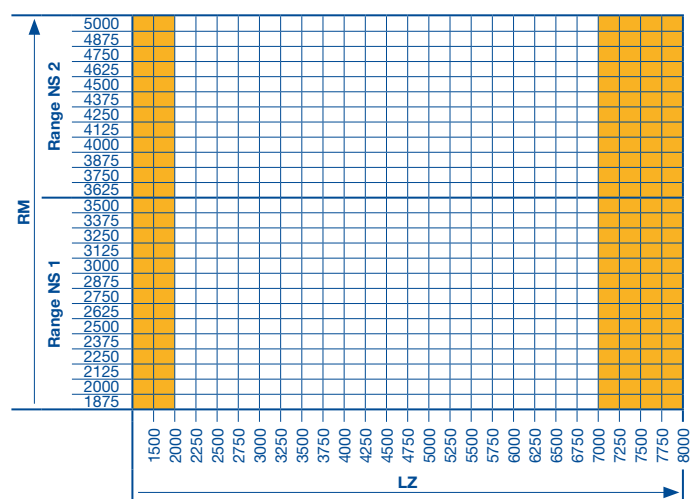
with double radius

Detailed technical data can be found in the product configurator.



Note:

- Be sure to observe the permissible size ranges of the door types on pages 10–15 and 18–35!
- ALR F42 Vitraplan and ALR F42 Glazing on request



b°/c°	Contour angle	HH	Obstruction height
ADH	Distance to rear ceiling anchor	HT	Obstruction depth
ADM	Distance to central ceiling anchor	LH	Track height
ADV	Distance to front ceiling anchor	LDB	Clear passage width with ThermoFrame (see page 82)
B	Start of double radius	LDH	Clear passage height
BW	Position of shaft support	LZ	Clear frame dimensions (from 1200)
DA	Min. distance to ceiling	MFR	Space for fitting the door
DE	Ceiling height	OFF	Finished floor level
ET	Min. distance back on request	RM	Grid height
FD	Ceiling clearance	STH	Min. headroom (see page 56)
FFS	Spring compression clearance	WE	Shaft centre from lintel
FPUL	Spring buffers below the track		
FT	Clearance for door operation		
FTL	Clearance door section in the double radius		

Door weights for roof loads:

SPU F42 / APU F42 Thermo / ALR F42 Thermo	= 320 N/m ²
APU F42 / ALR F42	= 280 N/m ²
ALR F42 Glazing	= 560 N/m ²

Observe min. sideroom, see page 82.

Note:

- A technical inspection is required!
- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.
- If using the spring buffer below the track, the clear height under the track in the area of the spring buffer is reduced by 70 mm.

* Notice:

Observe clear passage height LDH, see page 54.

	STH	WE	DA	BW
NS 1	390	140	185	RM + 310
NS 2	440	160		RM + 335

FT	DE	B	ET	FFS	FD	FL	FTL	LH
885	LH + 183	**	**	Min. 90° (745)	DA + 65	230	**	**

** Dimensions can be found in the product configurator.

All door types available in any version.

All door types and versions on request.

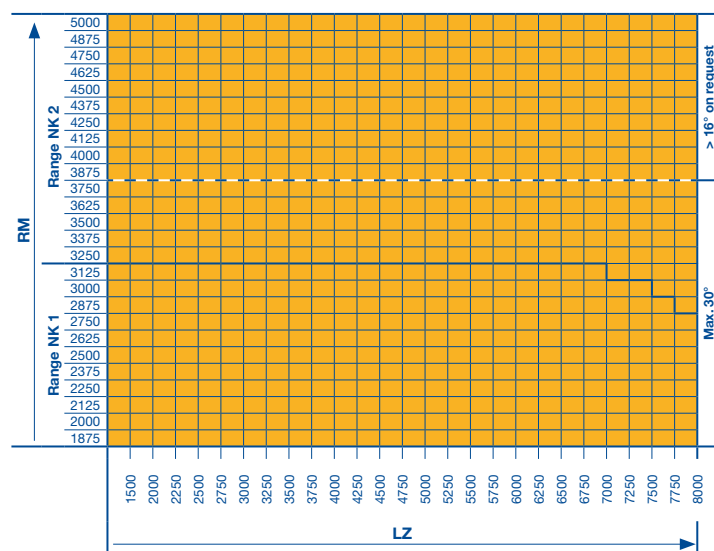
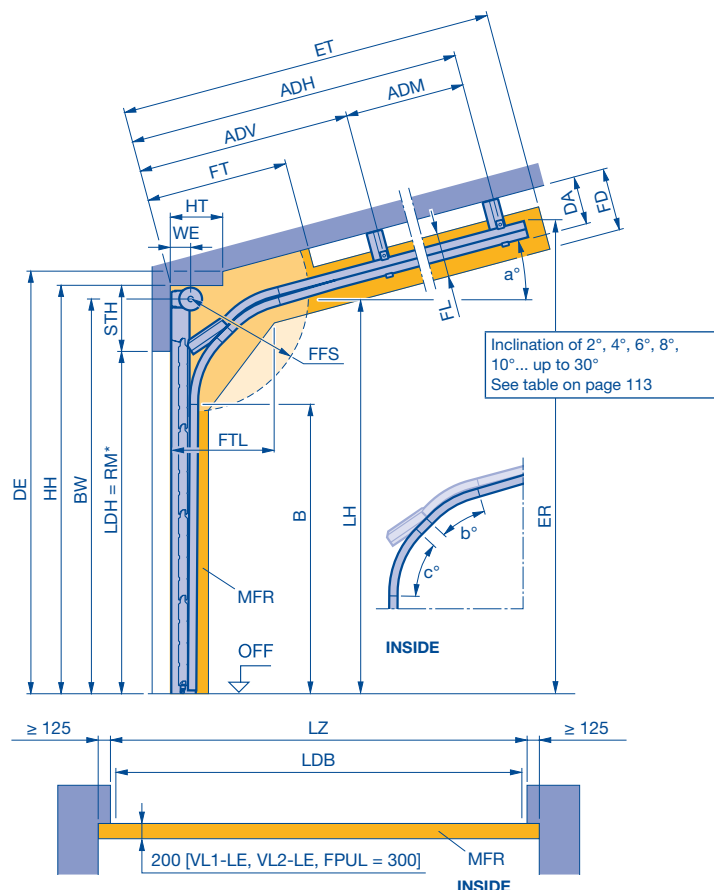
Dimensions in mm

Track application: NK

Normal track application

with double radius and inclination up to max. 30°

Detailed technical data can be found in the product configurator.



a°	Inclination	FT	Clearance for door operation
b°/c°	Contour angle	FTL	Clearance door section in the double radius
ADH	Distance to rear ceiling anchor	HH	Obstruction height
ADM	Distance to central ceiling anchor	HT	Obstruction depth
ADV	Distance to front ceiling anchor	LDB	Clear passage width with ThermoFrame (see page 82)
B	Start of double radius	LDH	Clear passage height
BW	Position of shaft support	LH	Track height
DA	Distance to ceiling on request	LZ	Clear frame dimensions (from 1200)
DE	Ceiling height	MFR	Space for fitting the door
ER	Top edge corner point	OFF	Finished floor level
ET	Min. distance back	RM	Grid height
FD	Ceiling clearance	STH	Min. headroom
FFS	Spring compression clearance	WE	Shaft centre from lintel
FL	Track clearance		
FPUL	Spring buffers below the track		

Door weights for roof loads:

SPU F42 / APU F42 Thermo / ALR F42 Thermo	= 320 N/m ²
APU F42 / ALR F42	= 280 N/m ²
ALR F42 Glazing	= 560 N/m ²

Observe min. sideroom, see page 82.

Notes:

- A technical inspection is required!
- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.
- If using the spring buffer below the track, the clear height under the track in the area of the spring buffer is reduced by 70 mm.
- Be sure to observe the permissible size ranges of the door types on pages 10–15 and 18–35!
- ALR F42 Vitraplan and ALR F42 Glazing on request.
- To determine the roof slope see page 113.

* Notice:

Observe clear passage height LDH, see page 54.

	STH	WE	DA	BW
NK 1	390	140	185	RM + 310
NK 2	440	160		RM + 335

FT	DE	B	ET	FFS	FD	FL	FTL	LH
885	LH + 183	**	**	Min. 90° (745)	DA + 65	230	**	**

** Dimensions can be found in the product configurator.

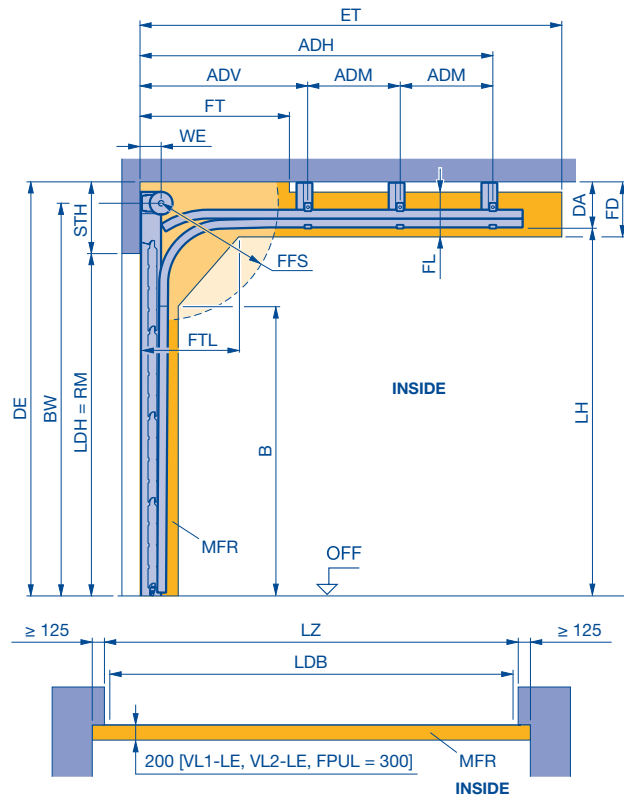
All door types and versions on request.

Dimensions in mm

Track application: NH

Normal track application with minimum high-lift

Detailed technical data can be found in the product configurator.



ADH	Distance to rear ceiling anchor	L	Anchor length
ADM	Distance to central ceiling anchor	LDB	Clear passage width with ThermoFrame (see page 82)
ADV	Distance to front ceiling anchor	LDH	Clear passage height
B	Start of double radius	LH	Track height
BW	Position of shaft support	LZ	Clear frame dimensions (from 1200)
DA	Min. distance to ceiling	MFR	Space for fitting the door
DE	Ceiling height	OFF	Finished floor level
ET	Min. distance back	RM	Grid height
FD	Ceiling clearance	STH	Min. headroom
FFS	Spring compression clearance	WE	Shaft centre from lintel
FL	Track clearance	RM	Grid height
FPUL	Spring buffers below the track	STH	Min. headroom
FT	Clearance for door operation	WE	Shaft centre from lintel
FTL	Clearance door section in the double radius		

Door weights for roof loads:

SPU F42 / APU F42 Thermo / ALR F42 Thermo	= 320 N/m ²
APU F42 / ALR F42	= 280 N/m ²
ALR F42 Glazing	= 560 N/m ²

Observe min. sideroom, see page 82.

Notes:

- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.
- If using the spring buffer below the track, the clear height under the track in the area of the spring buffer is reduced by 70 mm.
- Be sure to observe the permissible size ranges of the door types on pages 10–15 and 18–35!
- ALR F42 Vitraplan and ALR F42 Glazing on request

	STH	WE	DA	BW
NH 1	569	140	225	LH + 140
NH 2	634	160	290	LH + 180
NH 3	709		365	
with double spring shaft	760	180	565	LH + 225

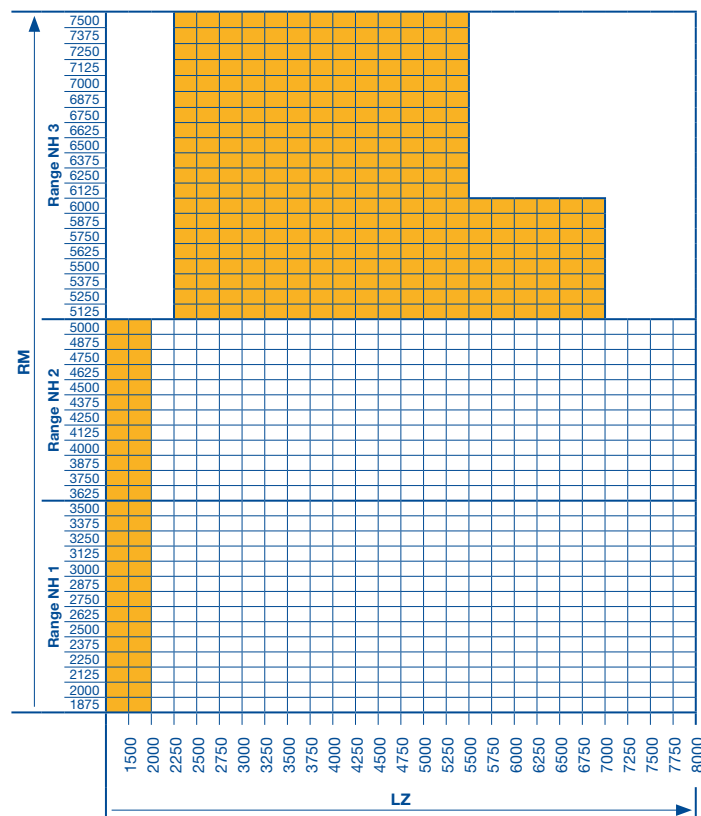
FT	DE	B	FFS	FD	FL	FTL	LH	ET
1150	STH + RM	LH - 366	Min. 90° (745)	DA + 65	250	645	Min. RM + 344 Max. RM + 490	**

** Dimensions can be found in the product configurator.

☐ All door types available in any version.

☒ All door types and versions on request.

Dimensions in mm



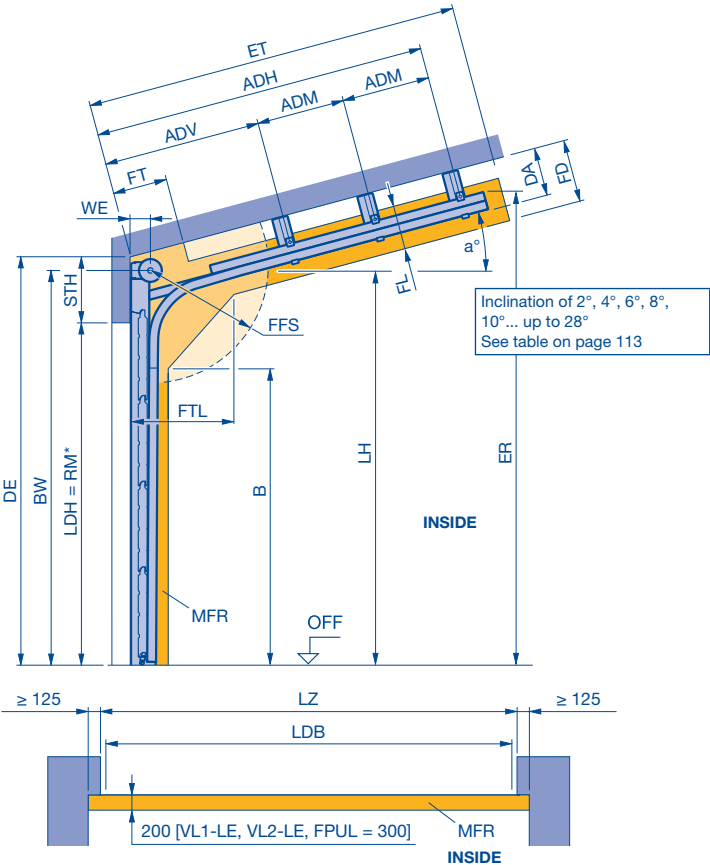
Track application: GD

Normal track application

with inclination up to max. 28

Minimum high-lift

Detailed technical data can be found in the product configurator.



a°	Inclination	FPUL	Spring buffers below the track
ADH	Distance to rear ceiling anchor	FT	Clearance for door operation
ADM	Distance to central ceiling anchor	FTL	Clearance door section in the double radius
ADV	Distance to front ceiling anchor	LDB	Clear passage width with ThermoFrame (see page 82)
B	Start of double radius, factory specification	LDH	Clear passage height
BW	Position of shaft support	LH	Track height
DA	Distance to ceiling on request	LZ	Clear frame dimensions (from 1200)
DE	Ceiling height	MFR	Space for fitting the door
ER	Top edge corner point	OFF	Finished floor level
FFS	Spring compression clearance	RM	Grid height
FL	Track clearance	STH	Min. headroom
		WE	Shaft centre from lintel

Door weights for roof loads:
SPU F42 / APU F42 Thermo / ALR F42 Thermo = 320 N/m²
APU F42 / ALR F42 = 280 N/m²
ALR F42 Glazing = 560 N/m²

Observe min. sideroom, see page 82.

- Notes:**
- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
 - The clearance required for fitting the door must be free of supply lines, heater fans, etc.
 - If using the spring buffer below the track, the clear height under the track in the area of the spring buffer is reduced by 70 mm.
 - Be sure to observe the permissible size ranges of the door types on pages 10 – 15 and 18 – 35!
 - ALR F42 Vitraplan and ALR F42 Glazing on request.
 - To determine the roof slope see page 113.

	STH	WE	DA	BW	FT	DE
GD 1	569	140	**	LH + 140	2 × WE	STH + RM
GD 2	634	160		LH + 180		

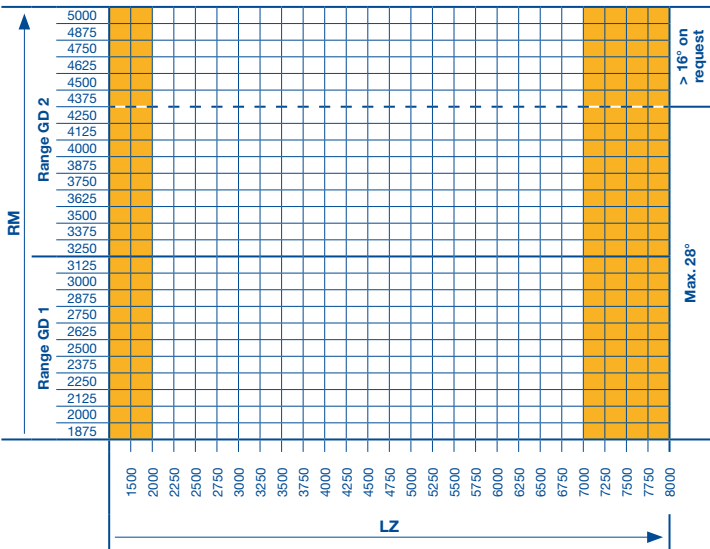
ET	B	FFS	FD	FL	FTL	LH	ER
**	LH - 366	Min. 90° (745)	DA + 65	250	645	Min. RM + 344 Max. RM + 490	**

** Dimensions can be found in the product configurator.

All door types available in any version.

All door types and versions on request.

Dimensions in mm

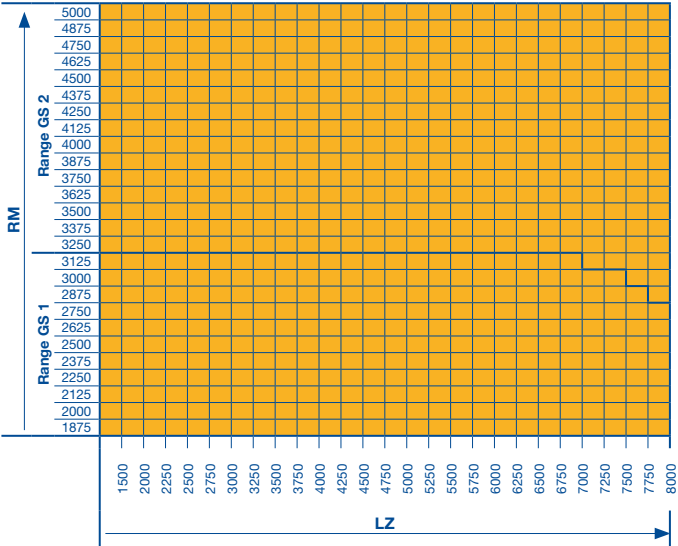
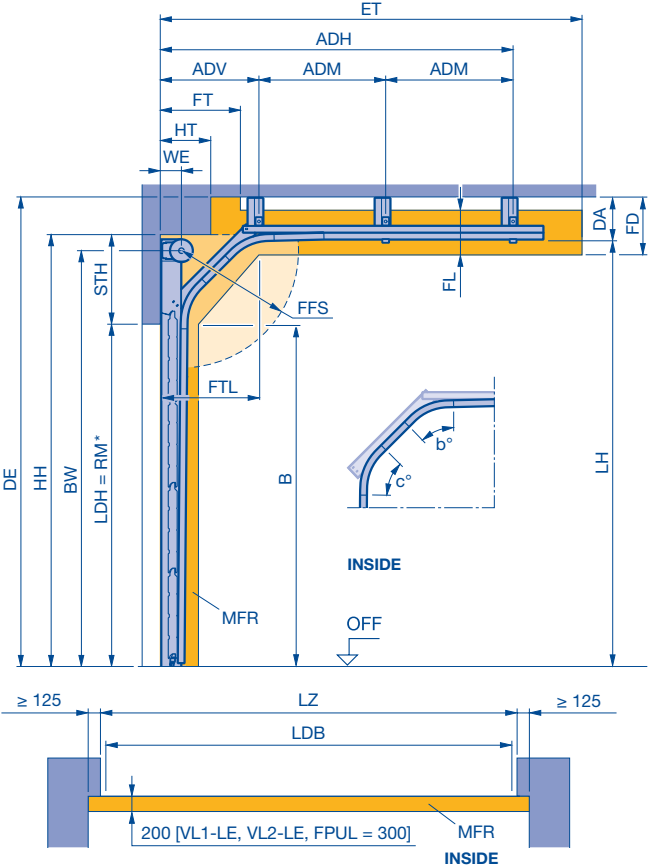


Track application: GS

Normal track application

with double radius and minimum high-lift

Detailed technical data can be found in the product configurator.



b°/c°	Contour angle	FTL	Clearance door section in the double radius
ADH	Distance to rear ceiling anchor	HH	Obstruction height
ADM	Distance to central ceiling anchor	HT	Obstruction depth
ADV	Distance to front ceiling anchor	LDB	Clear passage width with ThermoFrame (see page 82)
B	Start of double radius, factory specification	LDH	Clear passage height
BW	Position of shaft support	LH	Track height
DA	Distance to ceiling on request	LZ	Clear frame dimensions (from 1200)
DE	Ceiling height	MFR	Space for fitting the door
ET	Min. distance back	OFF	Finished floor level
FD	Ceiling clearance	RM	Grid height
FFS	Spring compression clearance	STH	Min. headroom
FL	Track clearance	WE	Shaft centre from lintel
FPUL	Spring buffers below the track		
FT	Clearance for door operation		

Door weights for roof loads:
SPU F42 / APU F42 Thermo / ALR F42 Thermo = 320 N/m²
APU F42 / ALR F42 = 280 N/m²
ALR F42 Glazing = 560 N/m²

Observe min. sideroom, see page 82.

Notes:

- A technical inspection is required!
- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.
- If using the spring buffer under the track, the clear height under the track in the area of the spring buffer is reduced by 70 mm.
- Be sure to observe the permissible size ranges of the door types on pages 10–15 and 18–35!
- ALR F42 Vitraplan and ALR F42 Glazing on request.
- To determine the roof slope see page 113.

	STH	WE	DA	BW	FT	DE
GS 1	567	140	185	B + 510	2 × WE	LH + 183
GS 2	617	160		B + 535		

FFS	FD	FL	FTL	LH	ET
Min. 90° (745)	DA + 65	250	**	**	**

** Dimensions can be found in the product configurator.

All door types and versions on request.

Dimensions in mm

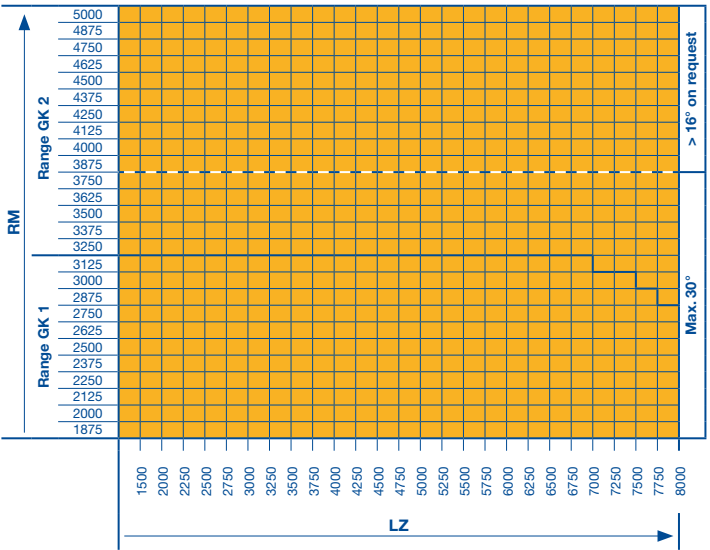
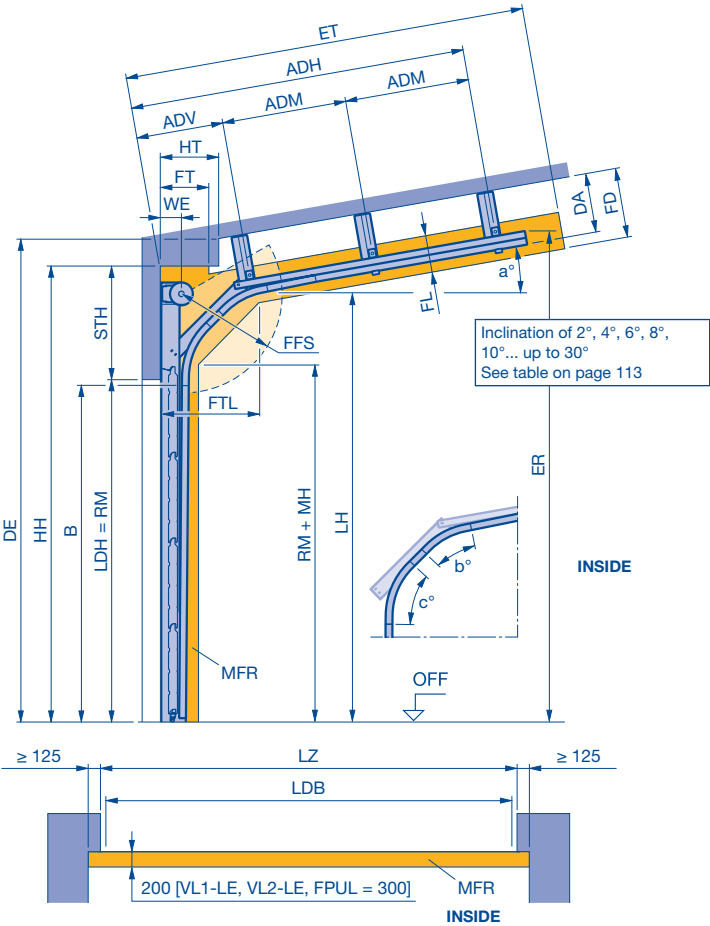
Track application: GK

Normal track application

with double radius and inclination up to max. 30°

Minimum high-lift

Detailed technical data can be found in the product configurator.



a°	Inclination	FPUL	Spring buffers below the track
b°/c°	Contour angle	FT	Clearance for door operation
ADH	Distance to rear ceiling anchor	FTL	Clearance door section in the double radius
ADM	Distance to central ceiling anchor	HH	Obstruction height
ADV	Distance to front ceiling anchor	HT	Obstruction depth
B	Start of double radius, factory specification	LDB	Clear passage width with ThermoFrame (see page 82)
BW	Position of shaft support	LDH	Clear passage height
DA	Distance to ceiling on request	LH	Track height
DE	Ceiling height	LZ	Clear frame dimensions (from 1200)
ER	Top edge corner point	MFR	Space for fitting the door
ET	Track height (depth and height)	OFF	Finished floor level
FD	Min. distance back	RM	Grid height
FFS	Ceiling clearance	STH	Min. headroom
FL	Spring compression clearance	WE	Shaft centre from lintel

Door weights for roof loads:
SPU F42 / APU F42 Thermo / ALR F42 Thermo = 320 N/m²
APU F42 / ALR F42 = 280 N/m²
ALR F42 Glazing = 560 N/m²
Observe min. sideroom, see page 82.

- Notes:**
- A technical inspection is required!
 - The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
 - The clearance required for fitting the door must be free of supply lines, heater fans, etc.
 - If using the spring buffer below the track, the clear height under the track in the area of the spring buffer is reduced by 70 mm.
 - Be sure to observe the permissible size ranges of the door types on pages 10 – 15 and 18 – 35!
 - ALR F42 Vitraplan and ALR F42 Glazing on request.
 - To determine the roof slope see page 113.

	STH	WE	DA	BW	FT	DE
GK 1	567	140	185	B + 510	2 × WE	LH + 183
GK 2	617	160		B + 535		

FFS	FD	FL	FTL	LH	ET
Min. 90° (745)	DA + 65	250	**	**	**

** Dimensions can be found in the product configurator.

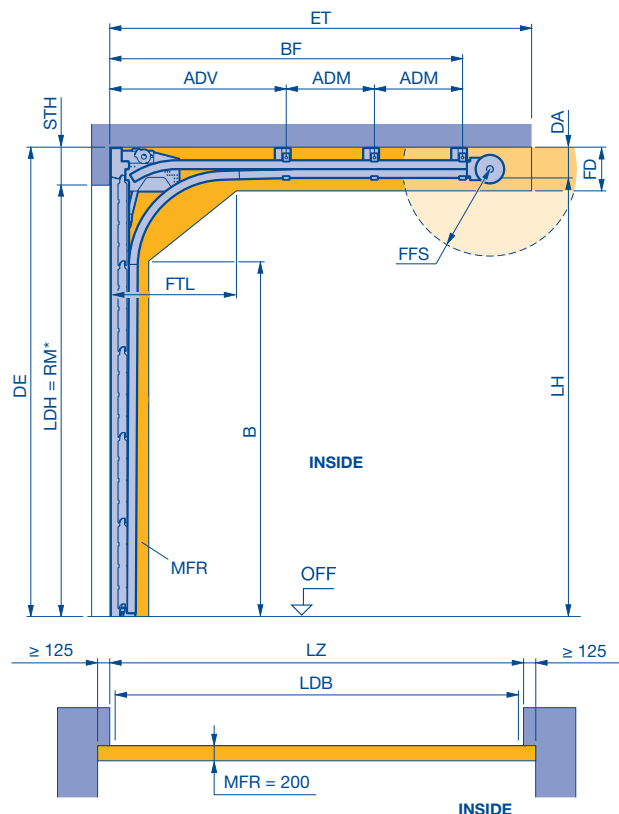
All door types and versions on request.

Dimensions in mm

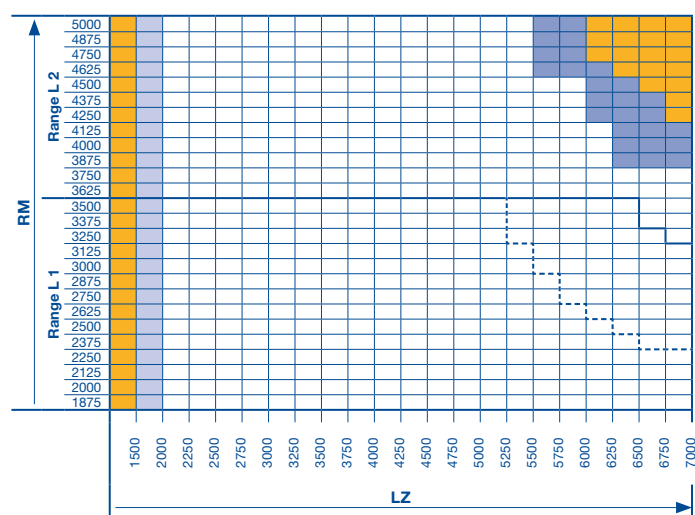
Track application: L

Low headroom track application

Detailed technical data can be found in the product configurator.



MFR = 260	Trap protection for swivel mechanism RM < 2800
MFR = 300	Leading photocell VL1/VL2



ADM	Distance to central ceiling anchor	LH	Track height
ADV	Distance to front ceiling anchor	LDB	Clear passage width with ThermoFrame (see page 82)
B	Start of double radius	LDH	Clear passage height
BF	Position of spring shaft	LZ	Clear frame dimensions (from 1200)
ET	Min. distance back	MFR	Space for fitting the door
DA	Min. distance to ceiling	OFF	Finished floor level
DE	Min. ceiling height	RM	Grid height
FD	Min. ceiling clearance	STH	Min. headroom
FFS	Spring compression clearance		
FTL	Clearance door section in the double radius		

Door weights for roof loads:

SPU F42 / APU F42 Thermo / ALR F42 Thermo	= 320 N/m ²
APU F42 / ALR F42	= 280 N/m ²
ALR F42 Glazing	= 560 N/m ²

Observe min. sideroom, see page 82.

Door operation:

- Manually operated: rope or chain hoist (recommended for manual operation!)
- Power-driven: WA 500 / 500 FU only with chain box! ITO or SupraMatic HT only possible without swivel mechanism!
- When using the swing mechanism and door lock for outside and inside operation, there may be restrictions in the passage height of up to 40 mm in the area of the lock.

B	BF***	DA**	DE	ET***
LH - 517	RM + 752	156	STH + RM	RM + 1066
FD	FFS	FTL	LH	STH
DA + 65	Min. 90° (745)	650	RM + 45	200 210 (WA 300)

** ≥ 500 – 1092 suspension in special length

> 1092 base construction required

*** with swivel mechanism ET = RM + 969 and BF = RM + 656

Notes:

- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.
- Be sure to observe the permissible size ranges of the door types on pages 10 – 15 and 18 – 35!
- ALR F42 Vitraplan and ALR F42 Glazing on request

* Notice:

Observe clear passage height LDH, see page 54.

□ All door types available in any version.

■ All door types and versions on request.

■ Door types APU F42, ALR F42, APU F42 Thermo, ALR F42 Thermo as well as versions with glazing A3, B3, M3, S3, U3, LB, P, XU and wicket door on request.

■ Versions with glazing A3, B3, M3, S3, U3, LB, P, XU and/or wicket door.

— Track limit

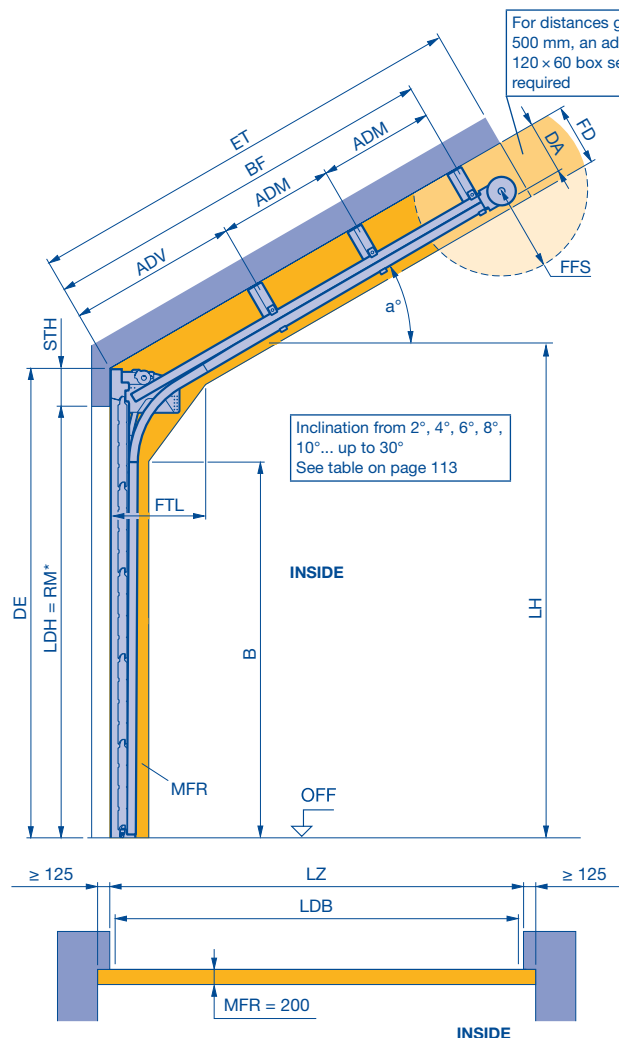
- - - Track limit for door types APU F42 Thermo, ALR F42 Thermo as well as versions with glazing A3, B3, M3, S3, U3, LB, P, XU and wicket door

Dimensions in mm

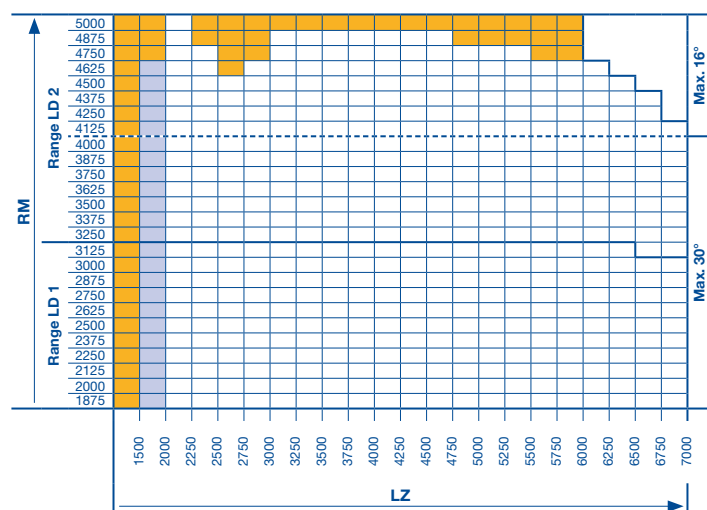
Track application: LD

Low headroom track application
with inclination up to max. 30°

Detailed technical data can be found in the product configurator.



MFR = 260	Trap protection for swivel mechanism RM < 2800
MFR = 300	Leading photocell VL1/VL2



a°	Inclination	FTL	Clearance door section in the double radius
ADM	Distance to central ceiling anchor on request	LDB	Clear passage width with ThermoFrame (see page 82)
ADV	Distance to front ceiling anchor	LDH	Clear passage height
B	Start of double radius on request	LZ	Clear frame dimensions (from 1200)
BF	Position of spring shaft on request	MFR	Space for fitting the door
DA	Distance to ceiling on request	OFF	Finished floor level
DE	Min. ceiling height	RM	Grid height
ET	Min. distance back	STH	Min. headroom
FD	Min. ceiling clearance		
FFS	Spring compression clearance		

Door weights for roof loads:

SPU F42 / APU F42 Thermo / ALR F42 Thermo	= 320 N/m ²
APU F42 / ALR F42	= 280 N/m ²
ALR F42 Glazing	= 560 N/m ²

Observe min. sideroom, see page 82.

Door operation:

- Manually operated: rope or chain hoist (recommended for manual operation!)
- Power-driven: WA 400 / 500 FU only with chain box! ITO or SupraMatic HT only possible without swivel mechanism!
- When using the swing mechanism and door lock for outside and inside operation, there may be restrictions in the passage height of up to 40 mm in the area of the lock.

Notes:

- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.
- Be sure to observe the permissible size ranges of the door types on pages 10–15 and 18–35!
- ALR F42 Vitraplan and ALR F42 Glazing on request.
- To determine the roof slope see page 113.
- Door types APU F42, ALR F42, APU F42 Thermo, ALR F42 Thermo with glazing A3, B3, M3, S3, U3, LB, P, XU and wicket door on request.

* Notes:

- Observe clear passage height LDH, see page 54.
- The swivel mechanism is only possible up to 10°.

	DE	LH	STH	FD
LD 1 / LD 2	STH + RM	**	200	DA + 65

B	DA	FFS	FTL
**	**	Min. 90° (745)	650

** Dimensions can be found in the product configurator.

ET			
LD 1 / LD 2	(RM + 1064) - (3,6 × a°)	a° = 2° - 16°	without swivel mechanism
	(RM + 1103) - (6,6 × a°)	a° = 18° - 30°	
	(RM + 969) - (2,6 × a°)	a° = 2° - 10°	with swivel mechanism

□ All door types available in any version.

■ All door types and versions on request.

▨ Versions with glazing A3, B3, M3, S3, U3, LB, P, XU and / or wicket door.

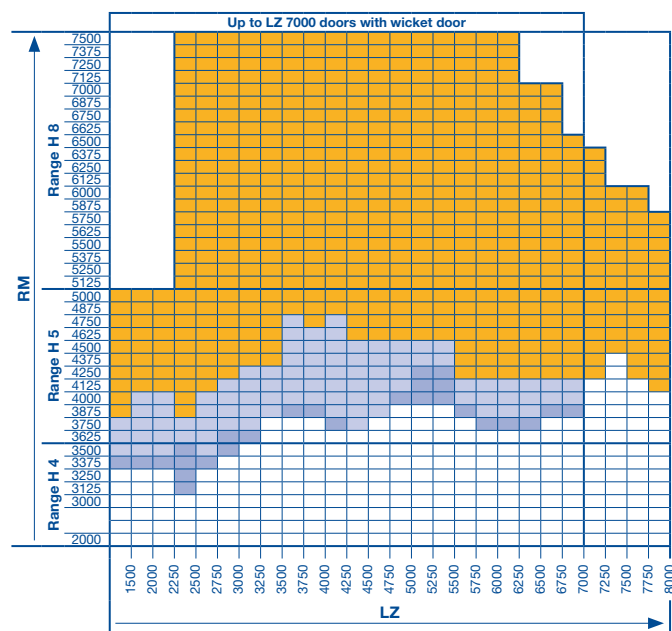
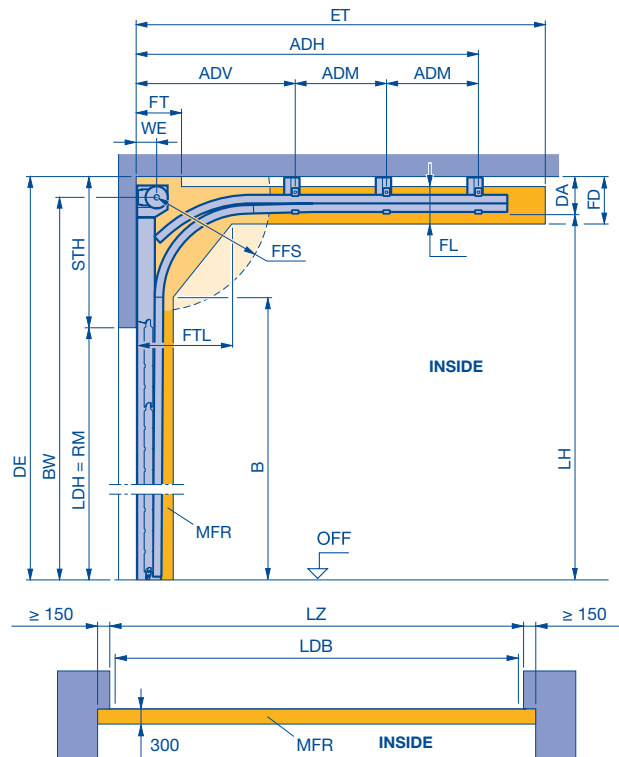
— Track limit

Dimensions in mm

Track application: H

High-lift track application

Detailed technical data can be found in the product configurator.



- All door types available in any version.
- All door types are available, versions with glazing A3, B3, M3, S3, U3, LB, P, XU and/or wicket door on request.
- Door types APU F42 and ALR F42 are available; APU F42 Thermo, ALR F42 Thermo and SPU F42 with thermo frames as well as versions with glazing A3, B3, M3, S3, U3, LB, P, XU and/or wicket door on request.
- All door types and versions on request.

Dimensions in mm

ADH	Distance to rear ceiling anchor	FTL	Clearance door section in the double radius
ADM	Distance to central ceiling anchor	LDB	Clear passage width with ThermoFrame (see page 82)
ADV	Distance to front ceiling anchor	LDH	Clear passage height
B	Start of double radius	LH	Track height
BW	Position of shaft support	LZ	Clear frame dimensions (from 1200)
DA	Min. distance to ceiling	MFR	Space for fitting the door
DE	Min. ceiling height	OFF	Finished floor level
ET	Min. distance back	RM	Grid height
FD	Min. ceiling clearance	STH	Min. headroom
FFS	Spring compression clearance	WE	Shaft centre from lintel
FL	Track clearance		
FT	Clearance for door operation		

Please note:

Select required track height according to the door height in table.

Note:

- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.
- If using the spring buffer below the track, the clear height under the track in the area of the spring buffer is reduced by 70 mm.

Notes:

- Be sure to observe the permissible size ranges of the door types on pages 10 – 15 and 18 – 35!
- ALR F42 Vitraplan and ALR F42 Glazing on request

Observe min. sideroom, see page 82.

	STH	WE	DA	BW
H 4	LH - RM + 290	160	290	LH + 150
H 5	LH - RM + 350 (525*)	180	350 (525*)	LH + 180
H 8	LH - RM + 390 (550*)	205	390 (550*)	LH + 205

* with double spring shaft

B	DE	FD	FFS	FL	FT	FTL
LH - 513	STH + RM	DA + 65	Min. 90° (745)	250	2 × WE	650

ET*	
H 4/H 5	2 × RM - LH + 962 + 297 For manual operation with long spring buffer (standard) 2 × RM - LH + 692 + 297 For shaft operator with long spring buffer LH - RM ≤ 1000 2 × RM - LH + 692 + 297 For shaft operator WA 300 with long spring buffer LH - RM > 1000 2 × RM - LH + 692 + 27 For shaft operator WA 500 / WA 500 FU with spring buffer, short LH - RM > 1000
H 8	2 × RM - LH + 692 + 297 All versions

* Simplified calculation

Table: track heights (LH)

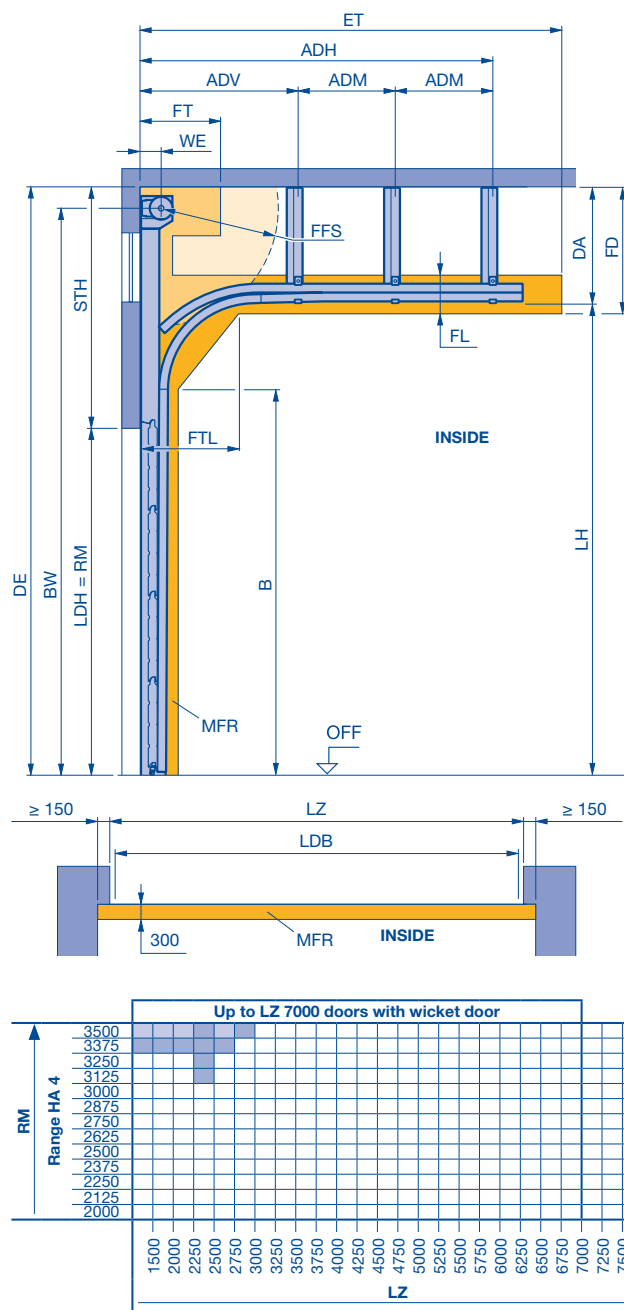
Door height RM	Min. LH	Max. LH	H 5	Door height RM	Min. LH	Max. LH	H 8
5000	5490	8350		7500	8595	10250	
4875	5365	8225	H 4	7375	8470	10250	All door types and versions available on request
4750	5240	8100		7250	8345	10250	
4625	5115	7975		7125	8220	10250	
4500	4990	7850		7000	8095	10250	
4375	4865	7725		6875	7970	10250	
4250	4740	7600		6750	7845	10200	
4125	4615	7475		6625	7720	10075	
4000	4490	7350		6500	7595	9950	
3875	4365	6985		6375	6865	9825	
3750	4240	6735		6250	6740	9700	
3625	4115	6485		6125	6615	9575	
3500	3990	6235		6000	6490	9450	
3375	3865	5985		5875	6365	9325	
3250	3740	5735		5750	6240	9200	
3125	3615	5485		5625	6115	9075	
3000	3490	5235		5500	5990	8950	
2875	3365	4985		5375	5865	8825	
2750	3240	4735		5250	5740	8700	
2625	3115	4485		5125	5615	8575	
2500	2990	4235					
2375	2865	3985					
2250	2740	3735					
2125	2615	3485					
2000	2490	3235					

Track application: HA

High-lift track application

With high-mounted torsion spring shaft

Detailed technical data can be found in the product configurator.



ET*		
HA 4	2 x RM - LH + 962 + 297	For manual operation with long spring buffer (standard)
	2 x RM - LH + 692 + 297	For shaft operator with long spring buffer LH - RM ≤ 1000
	2 x RM - LH + 692 + 297	For shaft operator WA 300 with long spring buffer LH - RM > 1000
	2 x RM - LH + 692 + 27	For shaft operator WA 500 / WA 500 FU with spring buffer, short LH - RM > 1000

* Simplified calculation

ADH	Distance to rear ceiling anchor	FTL	Clearance door section in the double radius
ADM	Distance to central ceiling anchor (see page 88)	LDB	Clear passage width with ThermoFrame (see page 82)
ADV	Distance to front ceiling anchor	LDH	Clear passage height
B	Start of double radius	LH	Track height
BW	Position of shaft support	LZ	Clear frame dimensions (from 1200)
DA	Min. distance to ceiling	MFR	Space for fitting the door
DE	Min. ceiling height	OFF	Finished floor level
ET	Min. distance back	RM	Grid height
FD	Ceiling clearance	STH	Min. headroom
FFS	Spring compression clearance	WE	Shaft centre from lintel
FL	Track clearance		
FT	Clearance for door operation		

Please note:

Select required track height according to the door height in table.

Note:

- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.
- If using the spring buffer below the track, the clear height under the track in the area of the spring buffer is reduced by 70 mm.

Observe min. sideroom, see page 82.

	STH	DA	DE	B	Min. BW
HA 4	(BW + 140) - RM	(BW + 140) - LH	STH + RM	LH - 513	LH + 150

BW max.	WE	FT	FTL	FL	FFS	FD
8120, DE - 140	160	2 x WE	650	250	Min. 90° (745)	DA + 65

Table: track heights (LH)

Door height RM	Min. LH	Max. LH	HA 4
3500	3990	6215	
3375	3865	5965	
3250	3740	5715	
3125	3615	5465	
3000	3490	5215	
2875	3365	4965	
2750	3240	4715	
2625	3115	4465	
2500	2990	4215	
2375	2865	3965	
2250	2740	3715	
2125	2615	3465	
2000	2490	3215	

Notes:

- Be sure to observe the permissible size ranges of the door types on pages 10 - 15 and 18 - 35!
- ALR F42 Vitraplan and ALR F42 Glazing on request

All door types available in any version.

All door types are available, versions with glazing A3, B3, M3, S3, U3, LB, P, XU and / or wicket door on request.

Door types APU F42 and ALR F42 are available; APU F42 Thermo, ALR F42 Thermo and SPU F42 with thermo frames as well as versions with glazing A3, B3, M3, S3, U3, LB, P, XU and / or wicket door on request.

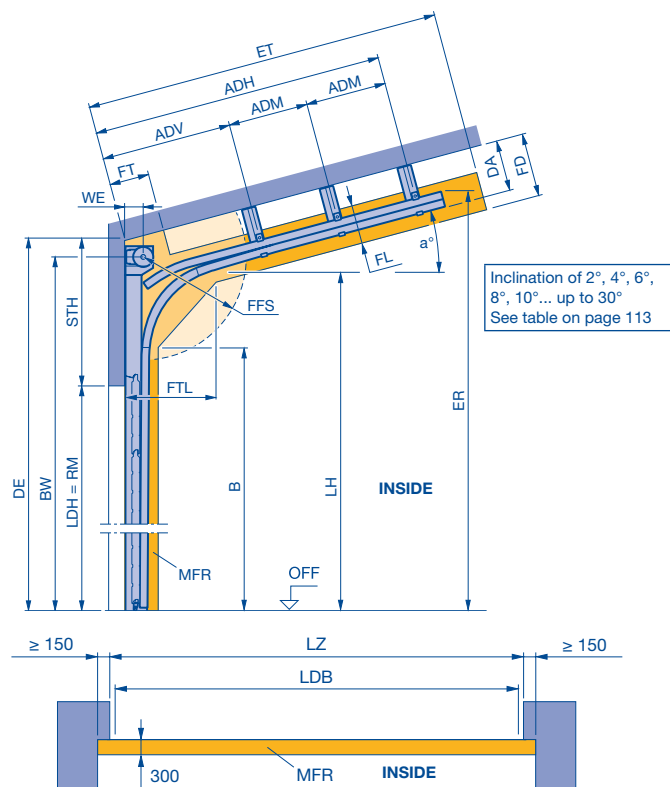
Dimensions in mm

Track application: HD

High-lift track application

with inclination up to max. 30

Detailed technical data can be found in the product configurator.



a°	Inclination	FT	Clearance for door operation
ADH	Distance to rear ceiling anchor	FTL	Clearance door section in the double radius
ADM	Distance to central ceiling anchor on request	HH	Obstruction height
ADV	Distance to front ceiling anchor	HT	Obstruction depth
B	Start of double radius	LDB	Clear passage width with ThermoFrame (see page 82)
BW	Position of shaft support	LDH	Clear passage height
DA	Distance to ceiling on request	LH	Track height
DE	Min. ceiling height	LZ	Clear frame dimensions (from 1200)
ER	Top edge corner point	MFR	Space for fitting the door
ET	Track height (depth and height)	OFF	Finished floor level
FD	Min. distance back	RM	Grid height
FFS	Ceiling clearance	STH	Min. headroom
FL	Spring compression clearance	WE	Shaft centre from lintel
FL	Track clearance		

Please note:

Select required track height according to the door height in the table on page 68.

Notes:

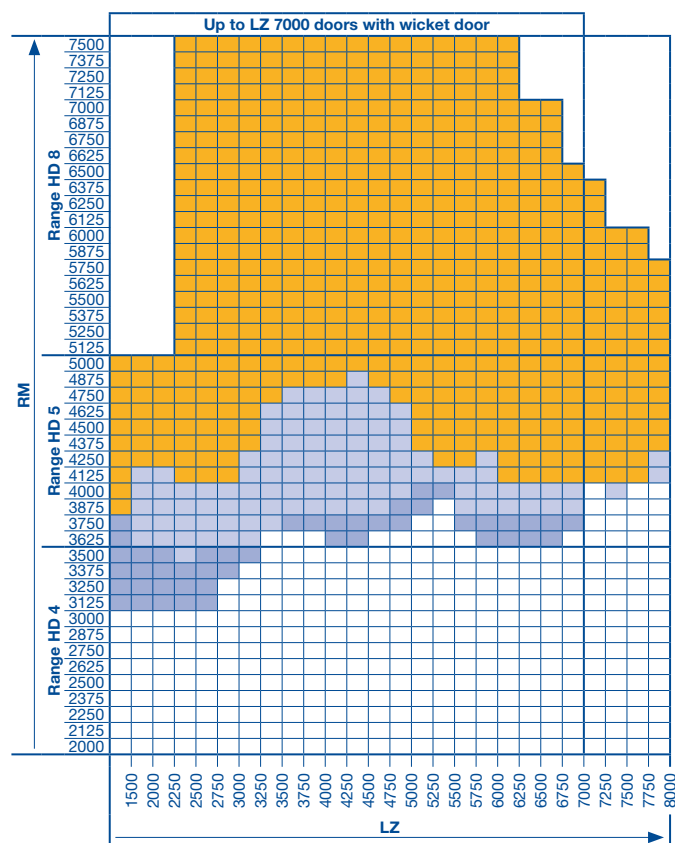
- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.
- If using the spring buffer below the track, the clear height under the track in the area of the spring buffer is reduced by 70 mm.
- Be sure to observe the permissible size ranges of the door types on pages 10 – 15 and 18 – 35!
- ALR F42 Vitraplan and ALR F42 Glazing on request.
- To determine the roof slope see page 113.
- Inclination > 10° to 30° on request.

Observe min. sideroom, see page 82.

	STH	BW	WE	DA	B
HD 4	780	LH + 150	160	**	LH - 513
HD 5	840	LH + 180	180		
HD 8	880	LH + 205	205		

FT	FL	FTL	FFS	FD	ET	ER
2 × WE	250	650, < 16° 550, ≥ 16°	Min. 90° (745)	DA + 65	**	**

** Dimensions can be found in the product configurator.



All door types available in any version.

All door types are available, versions with glazing A3, B3, M3, S3, U3, LB, P, XU and/or wicket door on request.

Door types APU F42 and ALR F42 are available; APU F42 Thermo, ALR F42 Thermo and SPU F42 with thermo frames as well as versions with glazing A3, B3, M3, S3, U3, LB, P, XU and/or wicket door on request.

All door types and versions on request.

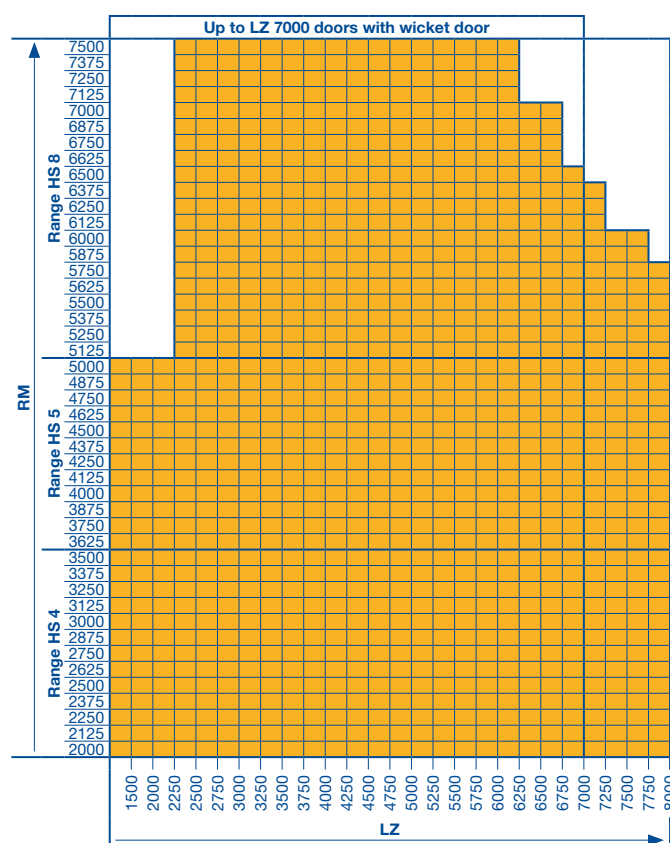
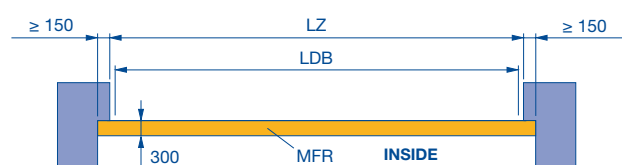
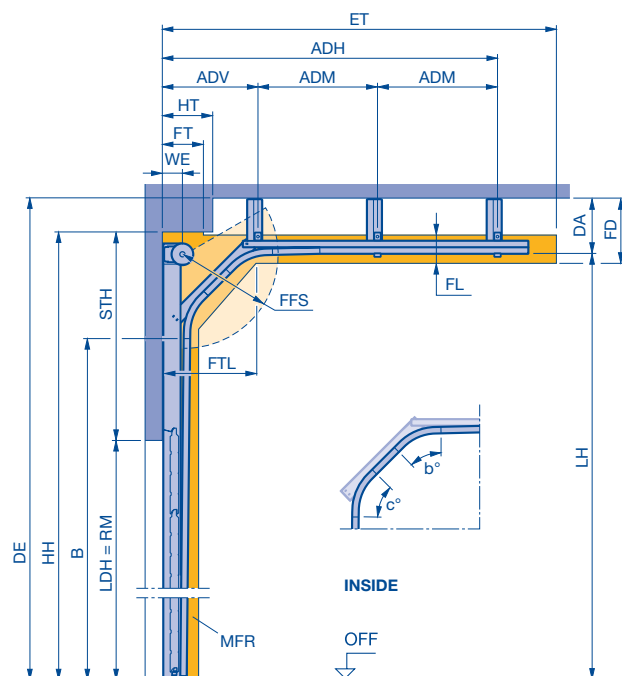
Dimensions in mm

Track application: HS

High-lift track application

with double radius

Detailed technical data can be found in the product configurator.



b°/c°	Contour angle	FTL	Clearance door section in the double radius
ADH	Distance to rear ceiling anchor	FFW	Spring shaft clearance
ADM	Distance to central ceiling anchor	HH	Obstruction height
ADV	Distance to front ceiling anchor	HT	Obstruction depth
B	Start of double radius, factory specification	LDB	Clear passage width with ThermoFrame (see page 82)
DA	Distance to ceiling on request	LDH	Clear passage height
DE	Min. ceiling height	LH	Track height
ET	Distance back	LZ	Clear frame dimensions (from 1200)
FD	Ceiling clearance	MFR	Space for fitting the door
FFS	Spring compression clearance	OFF	Finished floor level
FL	Track clearance	RM	Grid height
FT	Clearance for door operation, on request	STH	Min. headroom (see page 56)
		WE	Shaft centre from lintel

Please note:

Select required track height according to the door height in the table on page 68.

Note:

- A technical inspection is required!
- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.

Notes:

- Be sure to observe the permissible size ranges of the door types on pages 10 – 15 and 18 – 35!
- ALR F42 Vitraplan and ALR F42 Glazing on request

Observe min. sideroom, see page 82.

	STH	WE	DA	DE	B
HS 4	785	160	**	LH + 183	**
HS 5	812	180			
HS 8	852	205			

BW	FT	FL	FTL	FFS	FD	ET	ER
**	2 x WE	250	**	Min. 90° (745)	DA + 65	**	**

** Dimensions can be found in the product configurator.

All door types and versions on request.

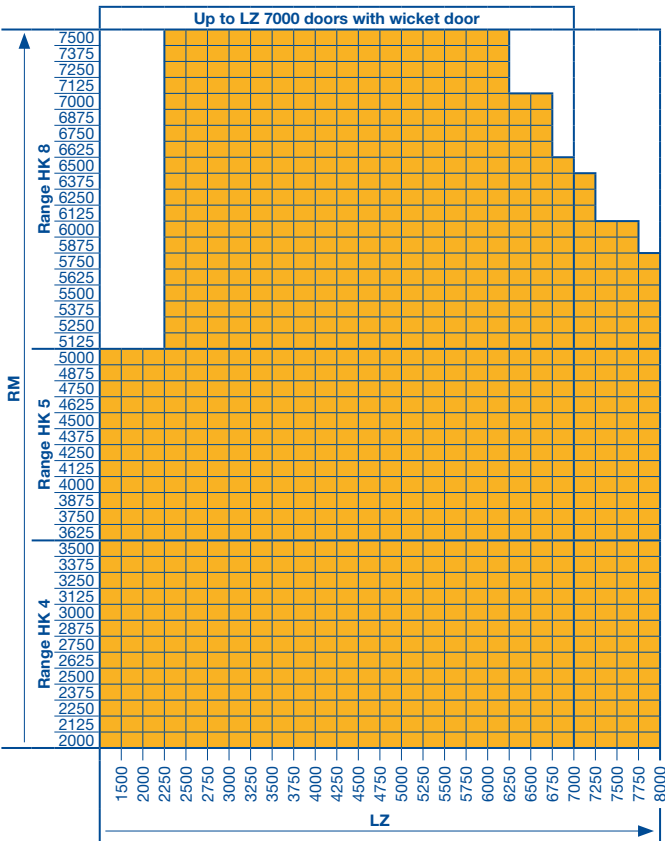
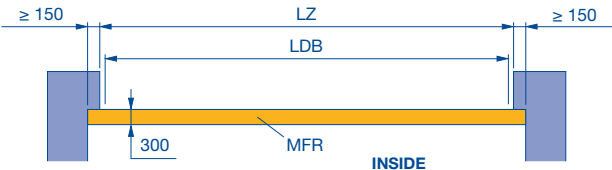
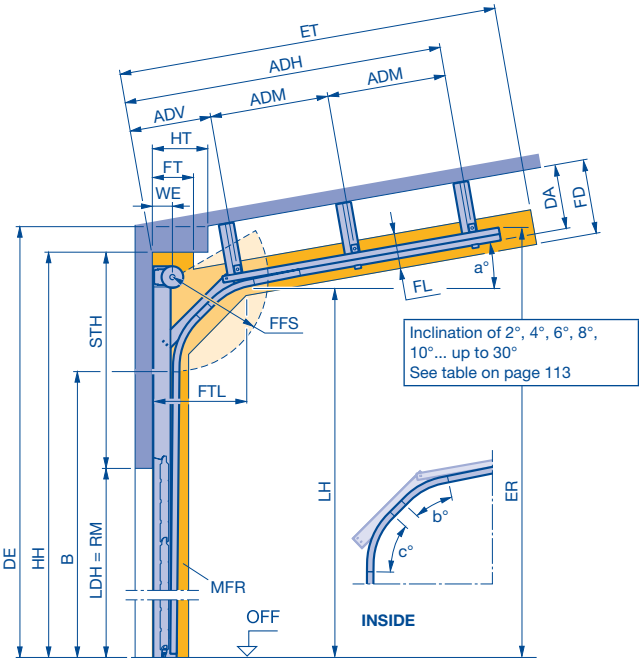
Dimensions in mm

Track application: HK

High-lift track application

with double radius and inclination up to max. 30°

Detailed technical data can be found in the product configurator.



a°	Inclination	FTL	Clearance door section in the double radius
b°/c°	Contour angle	FFW	Spring shaft clearance
ADH	Distance to rear ceiling anchor	HH	Obstruction height
ADM	Distance to central ceiling anchor	HT	Obstruction depth
ADV	Distance to front ceiling anchor	LDB	Clear passage width with ThermoFrame (see page 82)
B	Start of double radius, factory specification	LDH	Clear passage height
DA	Distance to ceiling on request	LH	Track height
DE	Min. ceiling height	LZ	Clear frame dimensions (from 1200)
ER	Top edge corner point	MFR	Space for fitting the door
FD	Track height (depth and height)	OFF	Finished floor level
FFS	Spring compression clearance	RM	Grid height
FL	Track clearance	STH	Min. headroom
FT	Clearance for door operation, on request	WE	Shaft centre from lintel

- Please note:**
Select required track height according to the door height in the table on page 68.
- Note:**
- A technical inspection is required!
 - The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
 - The clearance required for fitting the door must be free of supply lines, heater fans, etc.

- Notes:**
- Be sure to observe the permissible size ranges of the door types on pages 10 – 15 and 18 – 35!
 - ALR F42 Vitraplan and ALR F42 Glazing on request.
 - To determine the roof slope see page 113.
 - Roof slope > 10° to 30° on request.

	STH	WE	DA	DE	B
HK 4	785	160	**	LH + 183	**
HK 5	812	180			
HK 8	852	205			

BW	FT	FL	FTL	FFS	FD	ET	ER
**	2 x WE	250	**	Min. 90° (745)	DA + 65	**	**

** Dimensions can be found in the product configurator.

All door types and versions on request.

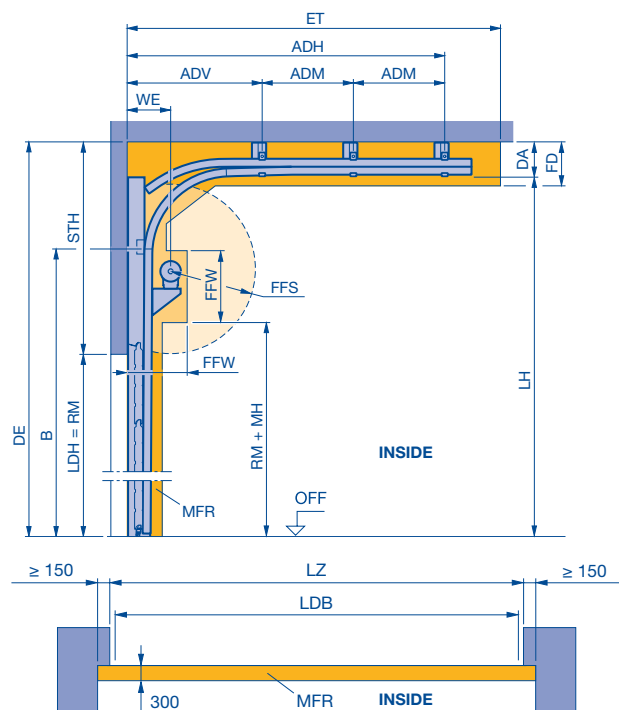
Dimensions in mm

Track application: HU

High-lift track application

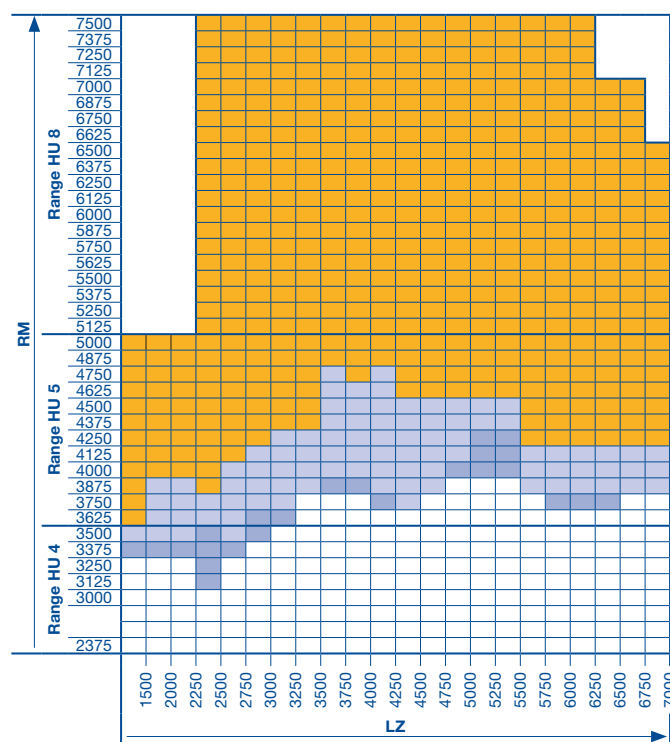
with low-mounted torsion spring shaft

Detailed technical data can be found in the product configurator.



ET*		
HU 4 / HU 5	2 × RM - LH + 962 + 297	For manual operation with long spring buffer (standard)
	2 × RM - LH + 692 + 297	For shaft operator WA 300 with long spring buffer
	2 × RM - LH + 692 + 27	For shaft operator WA 500 / WA 500 FU with short spring buffer
HU 8	2 × RM - LH + 692 + 297	All versions

* Simplified calculation.



ADH Distance to rear ceiling anchor
ADM Distance to central ceiling anchor
ADV Distance to front ceiling anchor
B Start of double radius
DA Min. distance to ceiling
DE Min. ceiling height
ET Min. distance back
FD Min. ceiling clearance
FFS Spring compression clearance
FFW Spring shaft clearance

LDB Clear passage width with ThermoFrame (see page 82)
LDH Clear passage height
LH Track height
LZ Clear frame dimensions (from 1200)
MFR Space for fitting the door
MH Fitting height
OFF Finished floor level
RM Grid height
STH Min. headroom (see page 56)
WE Shaft centre from lintel

Please note:

Select required track height according to the door height in table.

Note:

- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.

Observe min. sideroom, see page 82.

	STH	WE	DA	FFW
HU 4	LH - RM + 190	315	190	460 × 850
HU 5		335		500 × 850
HU 8		375		580 × 850

B	DE	FD	FFS	MH
LH - 513	STH + RM	DA + 65	Min. 90° (745)	400

Table: track heights (LH)

Door height RM	Min. LH	Max. LH	Door height RM	Min. LH	Max. LH
5000	6560	8350	HU 5	7500	9060
4875	6435	8225		7375	8935
4750	6310	8100		7250	8810
4625	6185	7975		7125	8685
4500	6060	7850		7000	8560
4375	5935	7725		6875	8435
4250	5810	7600		6750	8310
4125	5685	7475		6625	8185
4000	5560	7350		6500	8060
3875	5435	7225		6375	7935
3750	5310	7100		6250	7810
3625	5185	6975		6125	7685
3500	5060	6850	HU 4	6000	7560
3375	4935	6725		5875	7435
3250	4810	6600		5750	7310
3125	4685	6475		5625	7185
3000	4560	6350		5500	7060
2875	4435	6225		5375	6935
2750	4310	6100		5250	6810
2625	4185	5975		5125	6685
2500	4060	5850			
2375	3935	5725			

Notes:

- Be sure to observe the permissible size ranges of the door types on pages 10 – 15 and 18 – 35!
- ALR F42 Vitraplan and ALR F42 Glazing on request

- All door types available in any version.
- All door types are available, versions with glazing A3, B3, M3, S3, U3, LB, P, XU and/or wicket door on request.
- Door types APU F42 and ALR F42 are available; APU F42 Thermo, ALR F42 Thermo and SPU F42 with thermo frames as well as versions with glazing A3, B3, M3, S3, U3, LB, P, XU and/or wicket door on request.
- All door types and versions on request.

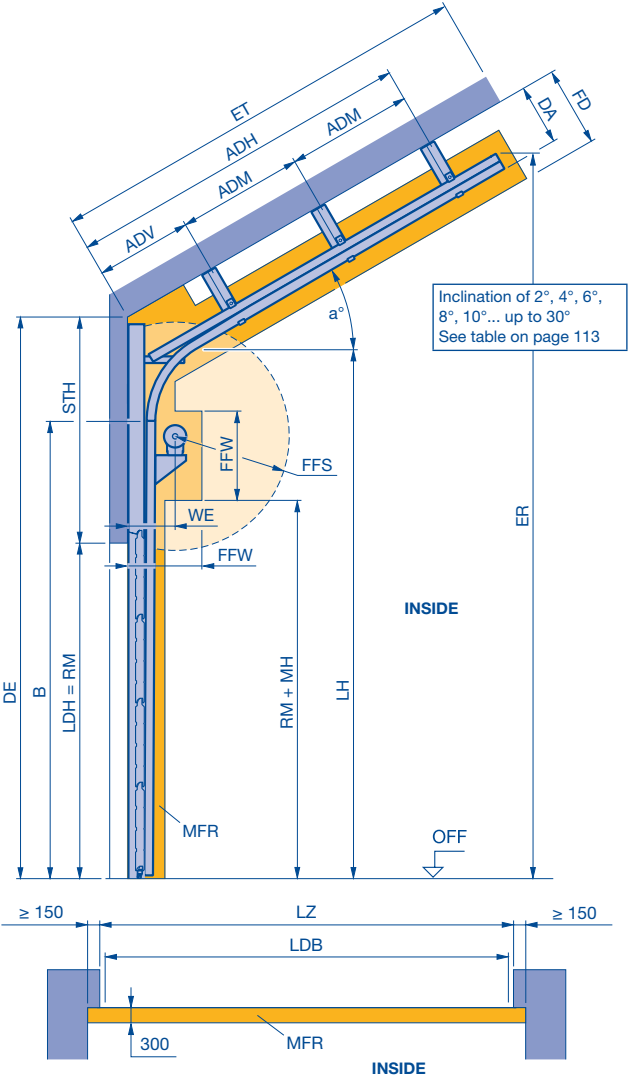
Dimensions in mm

Track application: RD

High-lift track application

with low-mounted torsion spring shaft and inclination up to max. 30°

Detailed technical data can be found in the product configurator.



- a°

Inclination
- ADH

Distance to rear ceiling anchor
- ADM

Distance to central ceiling anchor
- ADV

Distance to front ceiling anchor
- B

Start of double radius
- DA

Distance to ceiling on request
- DE

Min. ceiling height
- ER

Top edge corner point
- ET

Track height (depth and height)
- FD

Min. distance back
- FFS

Ceiling clearance
- FFW

Spring compression clearance
- FFW

Spring shaft clearance
- LDB

Clear passage width with ThermoFrame (see page 82)
- LDH

Clear passage height
- LH

Track height
- LZ

Clear frame dimensions (from 1200)
- MFR

Space for fitting the door
- MH

Fitting height
- OFF

Finished floor level
- RM

Grid height
- STH

Min. headroom
- WE

Shaft centre from lintel

Please note:
Select required track height according to the door height in the table on page 73.

- Note:**
- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
 - The clearance required for fitting the door must be free of supply lines, heater fans, etc.

- Notes:**
- Be sure to observe the permissible size ranges of the door types on pages 10 – 15 and 18 – 35!
 - ALR F42 Vitraplan and ALR F42 Glazing on request.
 - To determine the roof slope see page 113.
 - Inclination > 10° to 30° on request.

Observe min. sideroom, see page 82.

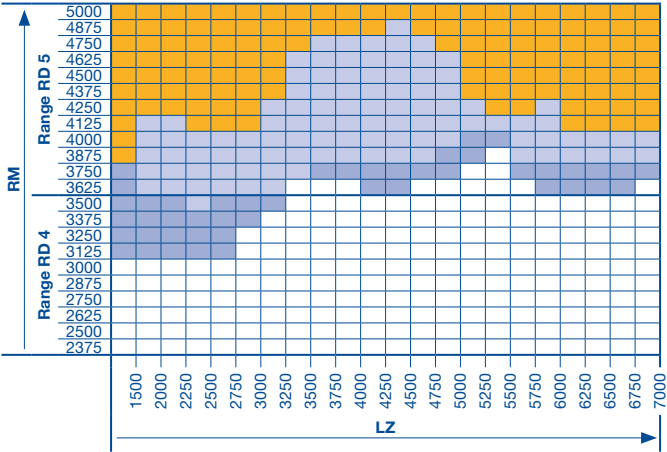
	WE	FFW	STH	DA	DE
RD 4	315	460 × 850	1750	**	STH + RM
RD 5	335	500 × 850			

B	FFS	FD	ET	ER	MH
LH - 513	Min. 90° (745)	DA + 65	**	**	400

** Dimensions can be found in the product configurator.

- All door types available in any version.
- All door types are available, versions with glazing A3, B3, M3, S3, U3, LB, P, XU and / or wicket door on request.
- Door types APU F42 and ALR F42 are available; APU F42 Thermo, ALR F42 Thermo and SPU F42 with thermo frames as well as versions with glazing A3, B3, M3, S3, U3, LB, P, XU and / or wicket door on request.
- All door types and versions on request.

Dimensions in mm

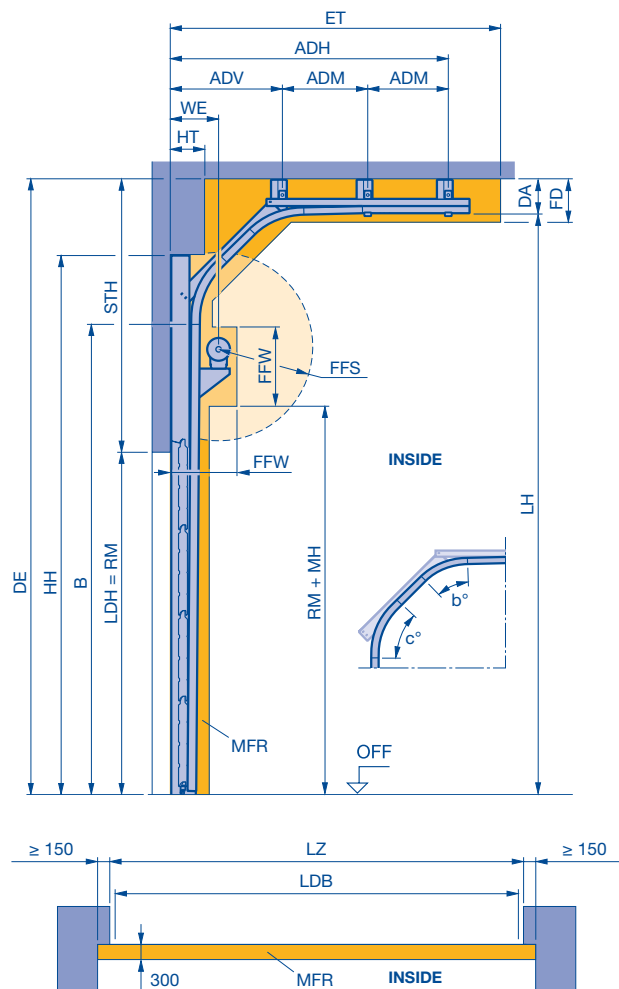


Track application: RS

High-lift track application

with double radius and low-mounted torsion spring shaft

Detailed technical data can be found in the product configurator.



b°/c°	Contour angle	HT	Obstruction depth
ADH	Distance to rear ceiling anchor	LDB	Clear passage width with ThermoFrame (see page 82)
ADM	Distance to central ceiling anchor	LDH	Clear passage height
ADV	Distance to front ceiling anchor	LH	Track height
B	Start of double radius, factory specification	LZ	Clear frame dimensions (from 1200)
DA	Distance to ceiling on request	MFR	Space for fitting the door
DE	Min. ceiling height	MH	Fitting height
ET	Distance back	OFF	Finished floor level
FD	Ceiling clearance	RM	Grid height
FFS	Spring compression clearance	STH	Min. headroom (see page 56)
FFW	Spring shaft clearance	WE	Shaft centre from lintel
HH	Obstruction height		

Please note:

Select required track height according to the door height in the table on page 73.

Note:

- A technical inspection is required!
- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.

Notes:

- Be sure to observe the permissible size ranges of the door types on pages 10 – 15 and 18 – 35!
- ALR F42 Vitraplan and ALR F42 Glazing on request

Observe min. sideroom, see page 82.

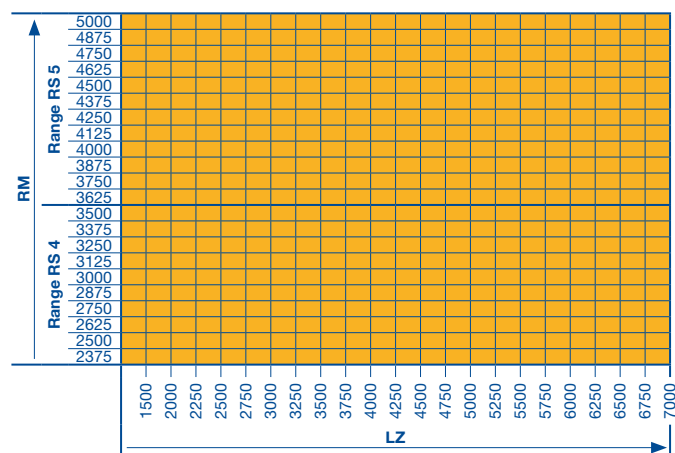
	WE	FFW	STH	DA	DE
RS 4	315	460 × 850	1477	183	LH + 183
RS 5	335	500 × 850			

B	FFS	FD	ET	ER	MH
**	Min. 90° (745)	DA + 65	**	**	400

** Dimensions can be found in the product configurator.

All door types and versions on request.

Dimensions in mm

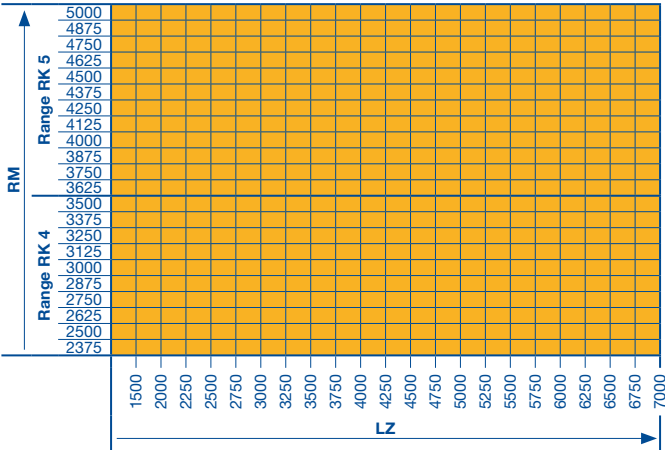
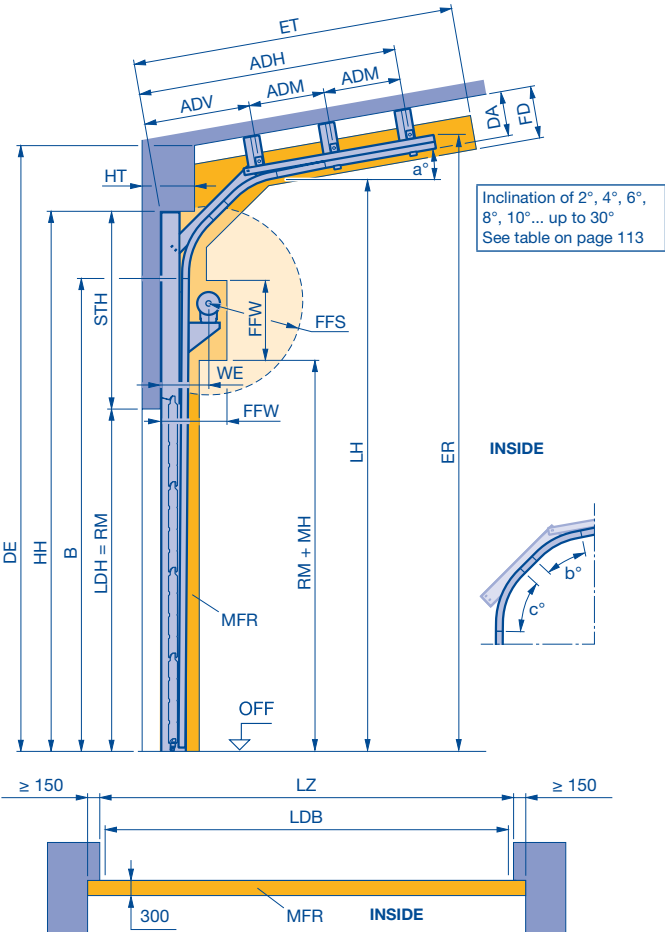


Track application: RK

High-lift track application

with double radius and inclination up to max. 30°

Detailed technical data can be found in the product configurator.



a°	Inclination	HH	Obstruction height
b°/c°	Contour angle	HT	Obstruction depth
ADH	Distance to rear ceiling anchor	LDB	Clear passage width with ThermoFrame (see page 82)
ADM	Distance to central ceiling anchor	LDH	Clear passage height
ADV	Distance to front ceiling anchor	LH	Track height
B	Start of double radius, factory specification	LZ	Clear frame dimensions (from 1200)
DA	Distance to ceiling on request	MFR	Space for fitting the door
DE	Min. ceiling height	MH	Fitting height
ER	Top edge corner point	OFF	Finished floor level
FD	Track height (depth and height)	RM	Grid height
FFS	Ceiling clearance	STH	Min. headroom
FFW	Spring compression clearance	WE	Shaft centre from lintel
	Spring shaft clearance		

Please note:
Select required track height according to the door height in Table 4 on page 73.

- Note:**
- A technical inspection is required!
 - The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
 - The clearance required for fitting the door must be free of supply lines, heater fans, etc.

- Notes:**
- Be sure to observe the permissible size ranges of the door types on pages 10–15 and 18–35!
 - ALR F42 Vitraplan and ALR F42 Glazing on request.
 - To determine the roof slope see page 113.
 - Inclination > 10° to 30° on request.

Observe min. sideroom, see page 82.

	WE	FFW	STH	DA	DE
RK 4	315	460 × 850	1477	183	LH + 183
RK 5	335	500 × 850			

B	FFS	FD	ET	ER	MH
**	Min. 90° (745)	DA + 65	**	**	400

** Dimensions can be found in the product configurator.

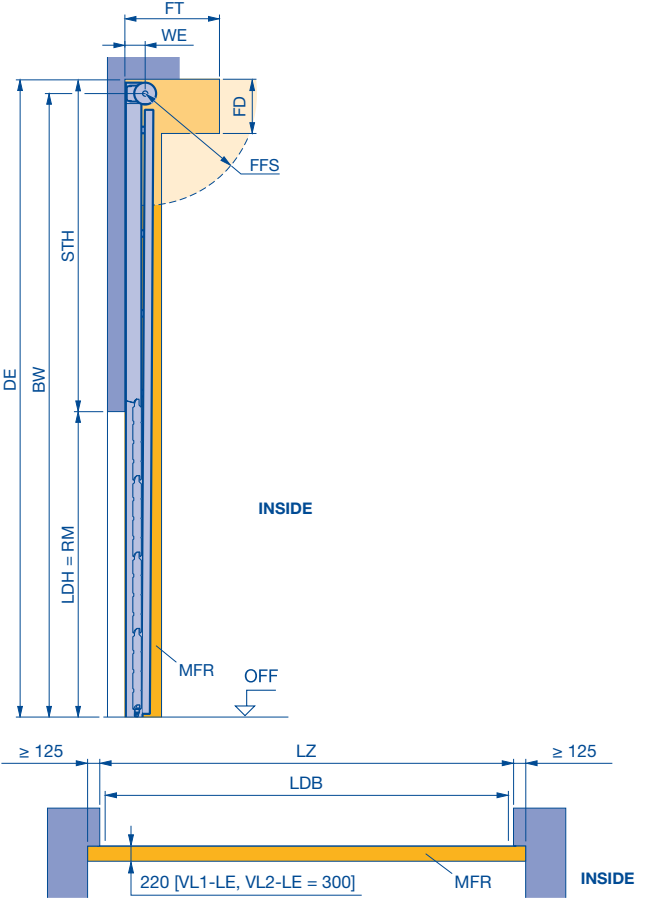
All door types and versions on request.

Dimensions in mm

Track application: V

Vertical track application

Detailed technical data can be found in the product configurator.



BW	Position of shaft support	LDH	Clear passage height
DE	Min. ceiling height	LZ	Clear frame dimensions (from 1200)
FD	Min. ceiling clearance	MFR	Space for fitting the door
FFS	Spring compression clearance	OFF	Finished floor level
FT	Clearance for door operation	RM	Grid height
LDB	Clear passage width with ThermoFrame (see page 82)	WE	Shaft centre from lintel
		STH	Min. headroom

- Notes:**
- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
 - The clearance required for fitting the door must be free of supply lines, heater fans, etc.
 - Be sure to observe the permissible size ranges of the door types on pages 10 – 15 and 18 – 35!
 - ALR F42 Vitraplan and ALR F42 Glazing on request

Observe min. sideroom, see page 82.

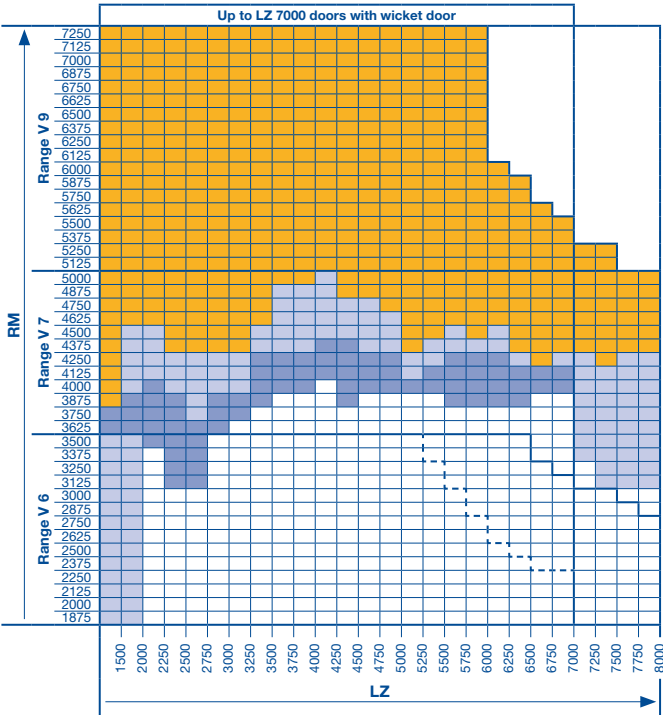
	STH	WE	DE	BW
V 6	RM + 540	160	2 × RM + 540	2 × RM + 400
V 7	RM + 580 (770*)	180	2 × RM + 580 (770*)	2 × RM + 425
V 9	RM + 675 (820*)	205	2 × RM + 675 (820*)	2 × RM + 475

* with double spring shaft

FD	FFS	FT
500	Min. 90° (745)	2 × WE

- All door types available in any version.
- Versions with glazing A3, B3, M3, S3, U3, LB, P, XU and / or wicket door as well as versions LZ > 7000 with glazing A3, B3, M3, S3, U3, LB, P on request.
- Doors with wicket door as well as versions with thermo frames and glazing A3, B3, M3, S3, U3, LB, P and XU.
- All door types and versions on request.
- Track limit
- Track limit with thermo frames and glazing A3, B3, M3, S3, U3, LB, P, XU and / or wicket door.

Dimensions in mm

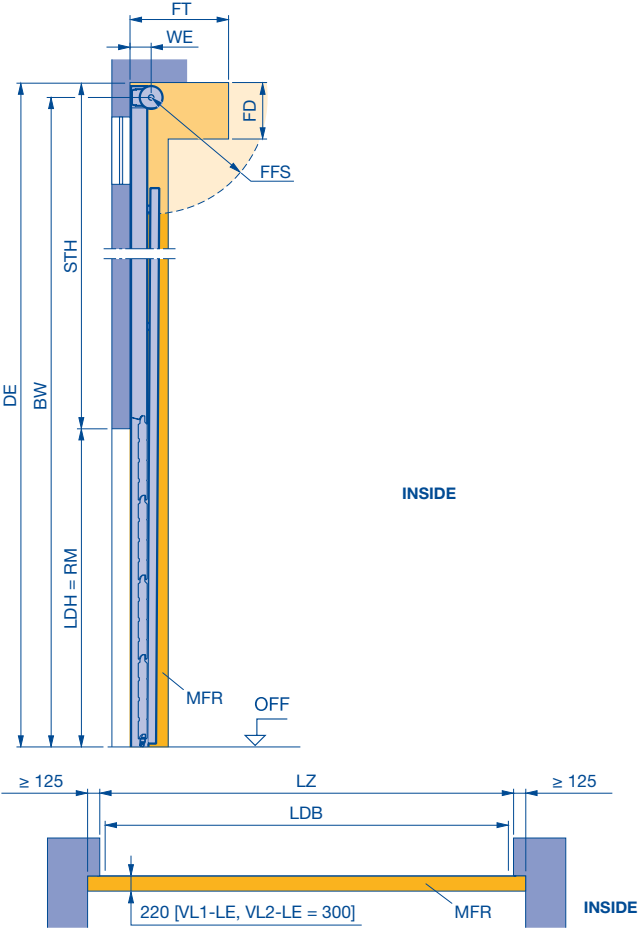


Track application: VA

Vertical track application

With high-mounted torsion spring shaft

Detailed technical data can be found in the product configurator.



BW	Position of shaft support	LDH	Clear passage height
DE	Min. ceiling height	LZ	Clear frame dimensions (from 1200)
FD	Ceiling clearance	MFR	Space for fitting the door
FFS	Spring compression clearance	OFF	Finished floor level
FT	Clearance for door operation	RM	Grid height
LDB	Clear passage width with ThermoFrame (see page 82)	STH	Min. headroom
		WE	Shaft centre from lintel

- Notes:**
- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
 - The clearance required for fitting the door must be free of supply lines, heater fans, etc.
 - Be sure to observe the permissible size ranges of the door types on pages 10 – 15 and 18 – 35!

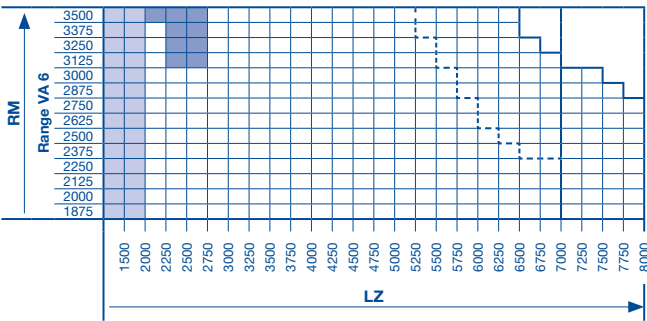
Observe min. sideroom, see page 82.

	STH	DE	BW	WE	FD	FFS	FT
VA 6	RM + 550	BW + 140	Min. 2 × RM + 410 max. DE – 140 (7895)	160	500	min. 90° (745)	2 × WE

Note:
ALR F42 Vitraplan and ALR F42 Glazing on request

- ☐ All door types available in any version.
- ☐ Versions with glazing A3, B3, M3, S3, U3, LB, P, XU and/or wicket door on request.
- ☐ Versions with thermo frames and glazing A3, B3, M3, S3, U3, LB, P, XU and wicket door.
- ☐ Track limit
- ☐ Track limit with thermo frames and glazing A3, B3, M3, S3, U3, LB, P, XU and/or wicket door

Dimensions in mm

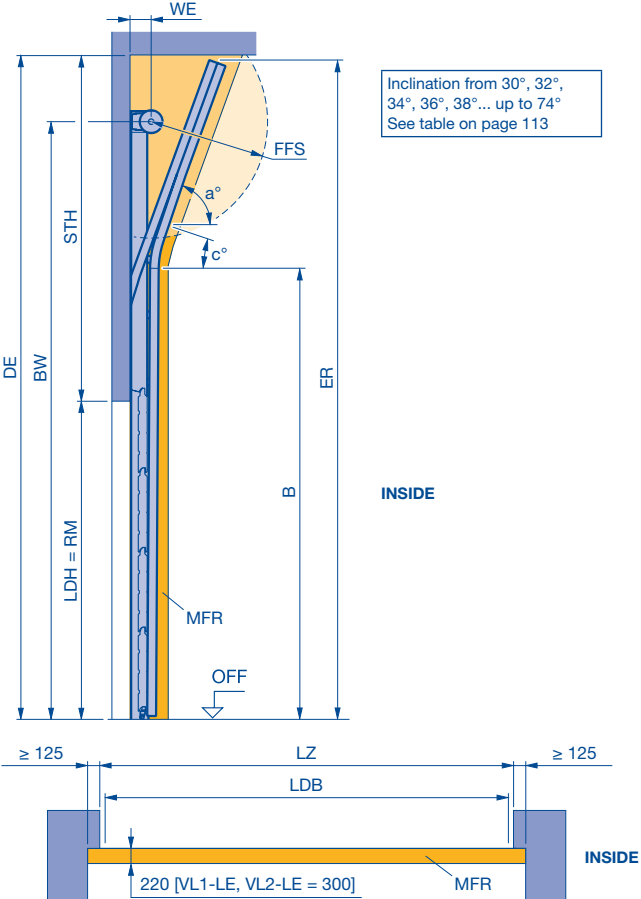


Track application: VS

Vertical track application

With inclination

Detailed technical data can be found in the product configurator.



a°	Inclination	LDH	Clear passage height
c°	Contour angle	LZ	Clear frame dimensions (from 1200)
B	Start of double radius	MFR	Space for fitting the door
BW	Position of shaft support	OFF	Finished floor level
DE	Min. ceiling height	RM	Grid height
ER	Top edge corner point	STH	Min. headroom
FFS	Spring compression clearance	WE	Shaft centre from lintel
LDB	Clear passage width with ThermoFrame (see page 82)		

- Notes:
- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
 - The clearance required for fitting the door must be free of supply lines, heater fans, etc.
 - Be sure to observe the permissible size ranges of the door types on pages 10 – 15 and 18 – 35!

Observe min. sideroom, see page 82.

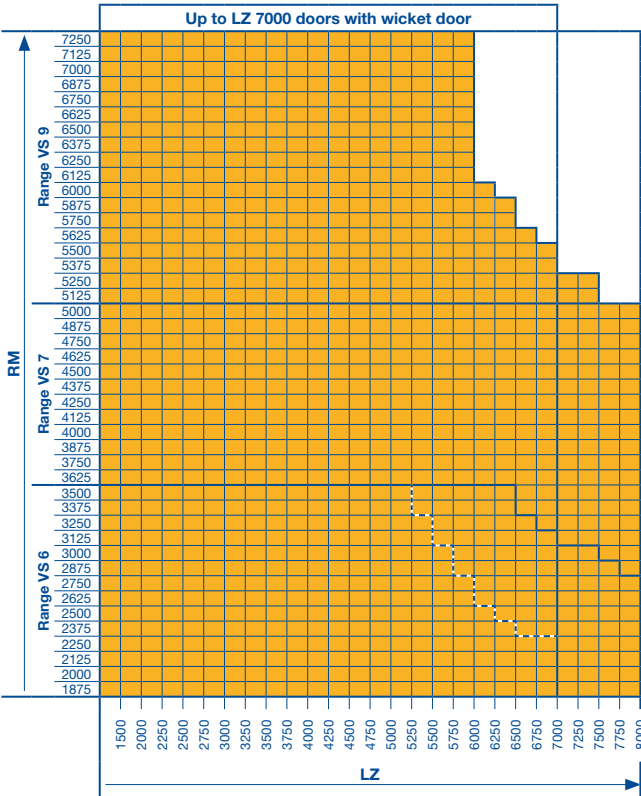
	STH	DE	B	BW	WE	FFS	ER
VS 6	On request	On request	Min. RM + 20	**	160	min. 90°	On request
VS 7			Max. 2 x RM – 1075		180	(745)	
VS 9					205		

** Dimensions can be found in the product configurator.

Note:
ALR F42 Vitraplan and ALR F42 Glazing on request

- All door types and versions on request.
- Track limit
- Track limit with thermo frames and glazing A3, B3, M3, S3, U3, LB, P, XU and / or wicket door.

Dimensions in mm

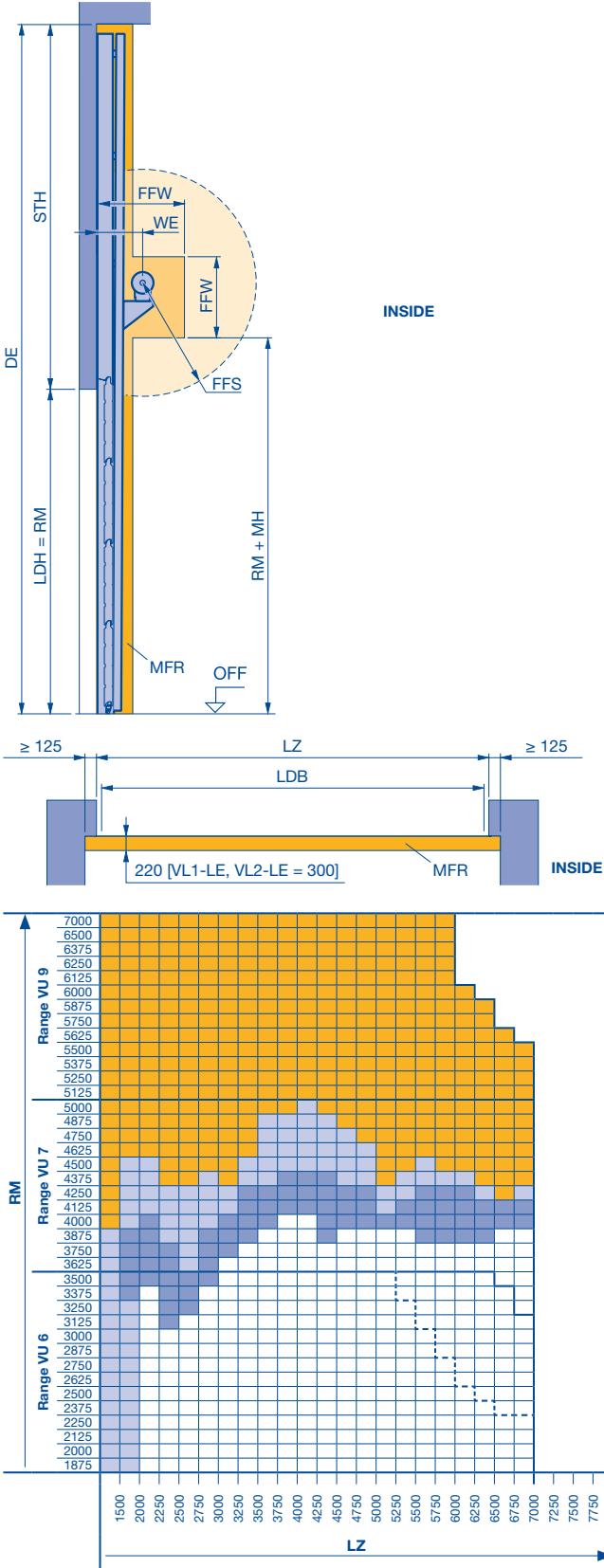


Track application: VU

Vertical track application

with low-mounted torsion spring shaft

Detailed technical data can be found in the product configurator.



DE	Min. ceiling height	MFR	Space for fitting the door
FFW	Spring shaft clearance	MH	Fitting height
FFS	Spring compression clearance	OFF	Finished floor level
LDB	Clear passage width with ThermoFrame (see page 82)	RM	Grid height
LDH	Clear passage height	STH	Min. headroom
LZ	Clear frame dimensions (from 1200)	WE	Shaft centre from lintel

- Notes:
- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
 - The clearance required for fitting the door must be free of supply lines, heater fans, etc.
 - Be sure to observe the permissible size ranges of the door types on pages 10 – 15 and 18 – 35!

Observe min. sideroom, see page 82.

	STH	DE	WE	FFS	MH	FFW
VU 6			315			460 x 850
VU 7	RM + 310	STH + RM	335	Min. 90° (745)	400	500 x 850
VU 9			375			580 x 850

Note:
ALR F42 Vitraplan and ALR F42 Glazing on request

- All door types available in any version.
 - All door types are available, versions with glazing A3, B3, M3, S3, U3, LB, P, XU and / or wicket door on request.
 - Door types APU F42 and ALR F42 are available; APU F42 Thermo, ALR F42 Thermo and SPU F42 with thermo frames as well as versions with glazing A3, B3, M3, S3, U3, LB, P, XU and / or wicket door on request.
 - All door types and versions on request.
- Track limit
- Track limit with thermo frames and glazing A3, B3, M3, S3, U3, LB, P, XU and / or wicket door

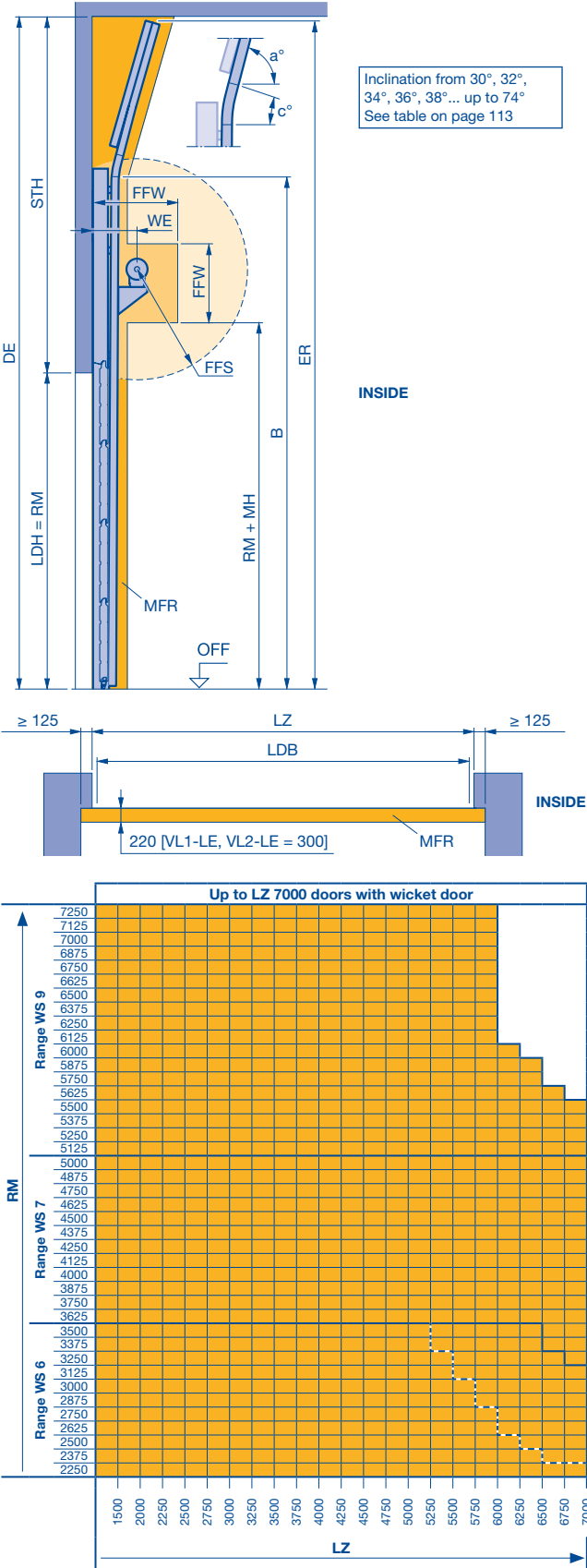
Dimensions in mm

Track application: WS

Vertical track application

with inclination and low-mounted torsion spring shaft

Detailed technical data can be found in the product configurator.



a°	Inclination	LDH	Clear passage height
c°	Contour angle	LZ	Clear frame dimensions (from 1200)
B	Start of double radius	MFR	Space for fitting the door
DE	Min. ceiling height	MH	Fitting height 400
ER	Top edge corner point	OFF	Finished floor level
	Track height (depth and height)	RM	Grid height
FD	Ceiling clearance	STH	Min. headroom
FFW	Spring shaft clearance	WE	Shaft centre from lintel
FFS	Spring compression clearance		
LDB	Clear passage width with ThermoFrame (see page 82)		

- Notes:**
- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
 - The clearance required for fitting the door must be free of supply lines, heater fans, etc.
 - Be sure to observe the permissible size ranges of the door types on pages 10 – 15 and 18 – 35!

Observe min. sideroom, see page 82.

	WE	FFW	FFS	MH
WS 6	315	460 × 850	Min. 90° (745)	400
WS 7	335	500 × 850		
WS 9	375	580 × 850		

B	DE	ER	STH
Min. RM + 1200 Max. 2 × RM – 1000	On request	On request	On request

Note:
ALR F42 Vitraplan and ALR F42 Glazing on request

- All door types and versions on request.
- Track limit
- Track limit with thermo frames and glazing A3, B3, M3, S3, U3, LB, P, XU and / or wicket door

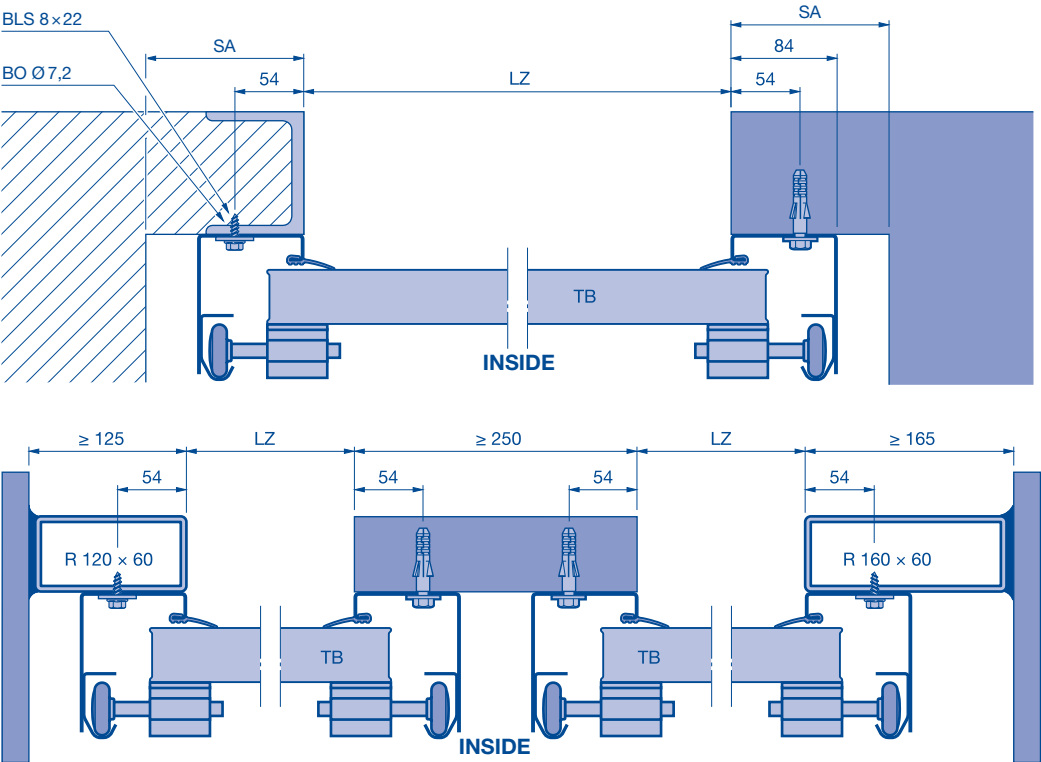
Dimensions in mm

Siderooms

Required sideroom					
Track application / designation		SA	Track application / designation		SA
N*, NA, ND*, NH*, NS, NK, GD, V, VA, VU, GK, GS, VS, WS	125	Manual	N, NA, ND, NH, NS, GD, NK, GS, GK	140	
H, HA, HD, HU, RD, HK, HS, RS, RK	150		H, HA, HD, HU, RD, HK, HS, RS, RK	150	
L, LD	125		V, VA, VU, VS,WS	125	
With use of the C-rail (page 88 – 89)	170	Chain hoist		Page 86	
		Shaft operators		Page 91 – 98	

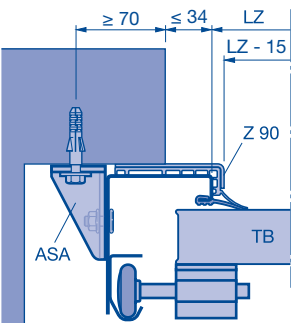
* The sideroom changes due to the track application range.

Sideroom

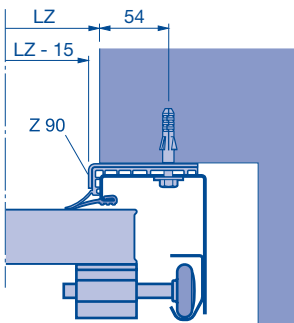
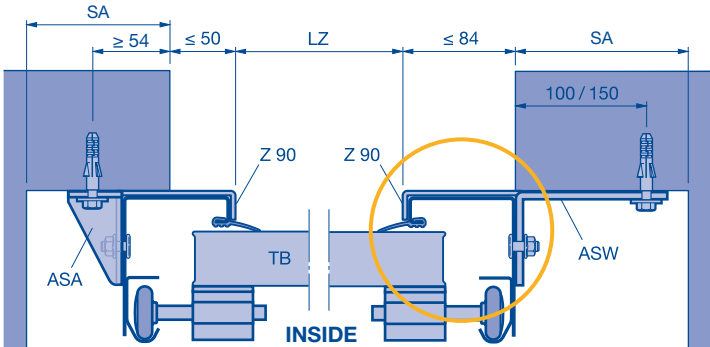


Sideroom with frame covering

ThermoFrame version



ThermoFrame version

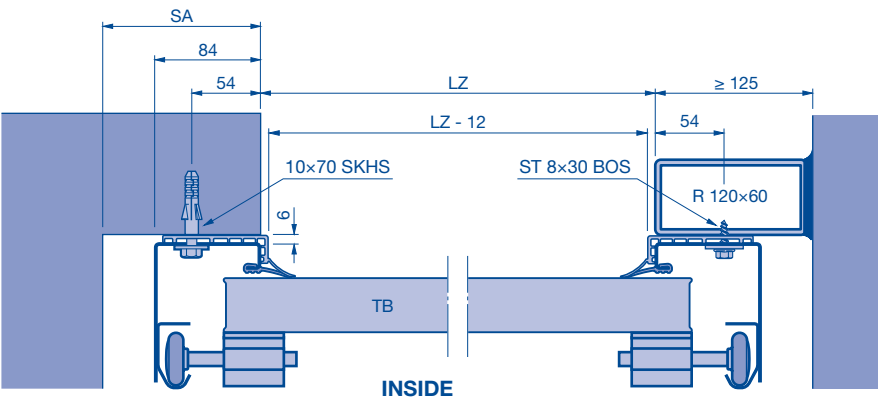


Note:
Clear door frame in the opening is not possible for the RC2 version.

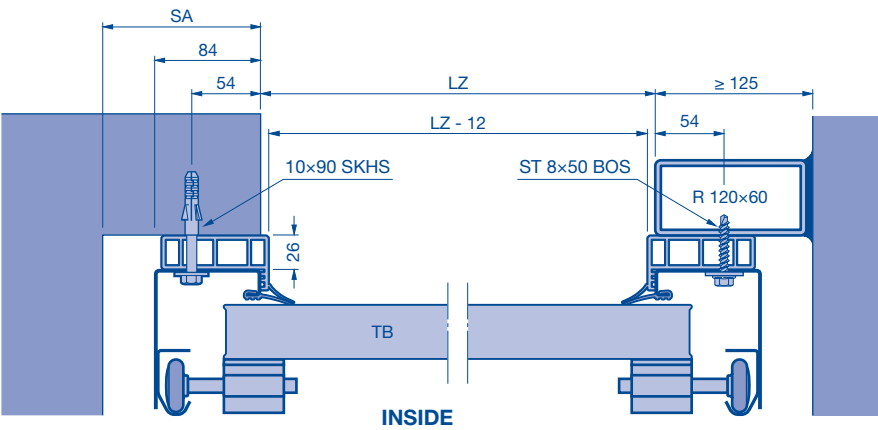
ASA	Screw-on anchor 70 × 40	BLS	self-tapping screw	TB	Door leaf
ASW	Screw-on bracket 70 × 120 / 170	LZ	Clear frame dimensions	Z	Frame covering
BO	Hole	R	Box section		
BOS	drilling screw	SA	Sideroom		

Siderooms

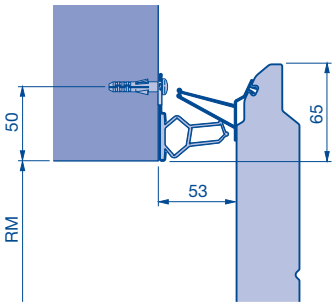
ThermoFrame sideroom 6 mm



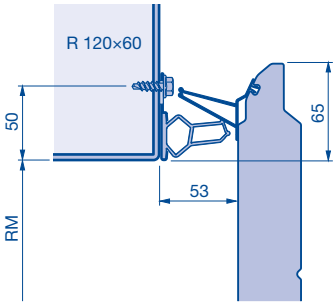
ThermoFrame sideroom 26 mm with lintel counter seal



Fitting to brickwork



Box section fitting (120, 160, 200)

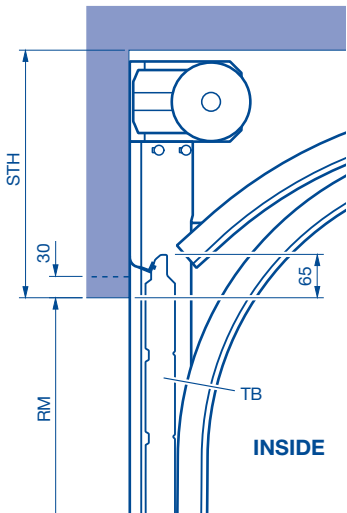


Note:
Door versions with facade door, panels or frame covering as well as frame fitting with screw-on bracket are not possible.

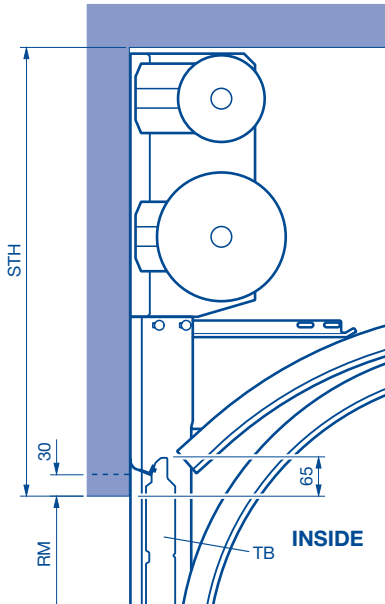
BOS	drilling screw	SA	Sideroom
LZ	Clear frame dimensions	SKHS	Hexagon wood screw
R	Box section	TB	Door leaf
RM	Standard size		

Lintel fittings

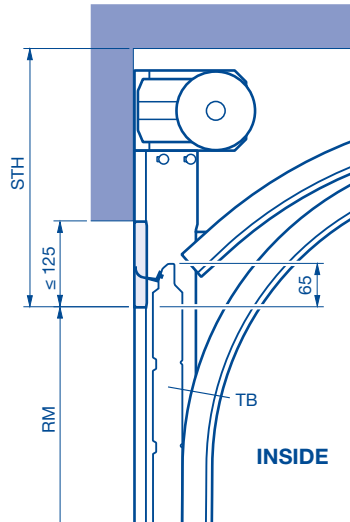
Normal lintel fitting
Insufficient headroom up to 30 mm high



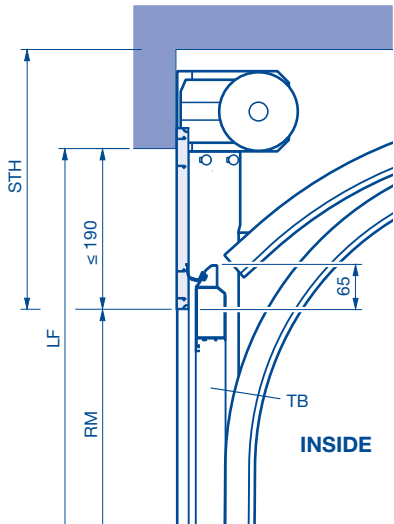
Normal lintel fitting
Double spring shaft



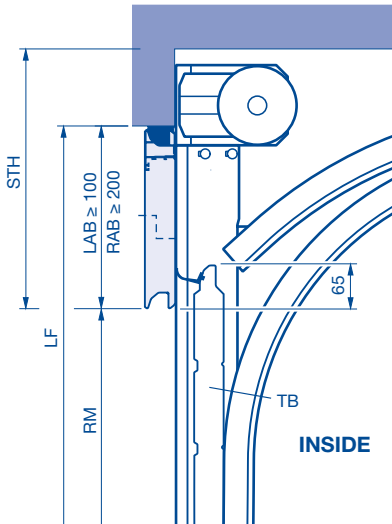
Single-skinned steel fascia for SPU F42 to make up for insufficient headroom up to 125 mm
(only for track applications N and L)



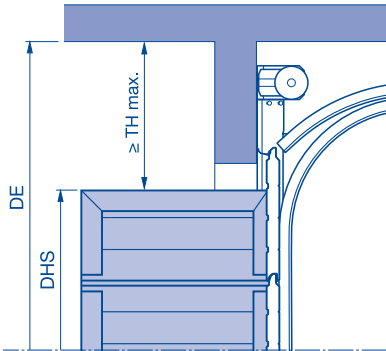
Smooth panel, anodised, for APU F42, ALR F42 Glazing, ALR F42 Vitraplan to make up for insufficient headroom from 31 to 190 mm height and LZ ≤ 7000 mm (only for track application N and L)



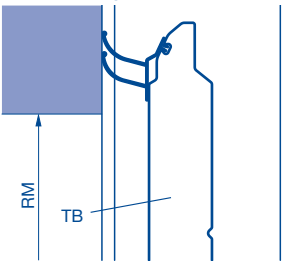
PU fascia panel to make up for insufficient headroom from 100 mm
Aluminium fascia profile to make up for insufficient headroom (see table)



Fitting clearance for multiple-point locking



Lintel fitting with ThermoFrame



Aluminium fascia panels	
Height	Infill type
≥ 200	FU, LB, S, SE, XU, FK, KR
≥ 245	S2, S3, U2, U3, C2, A2, A3, M2, M3

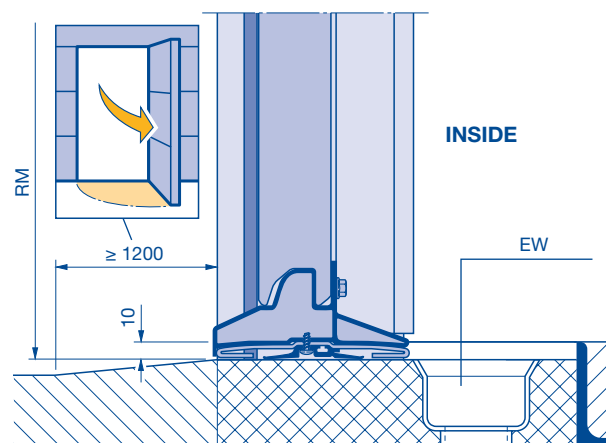
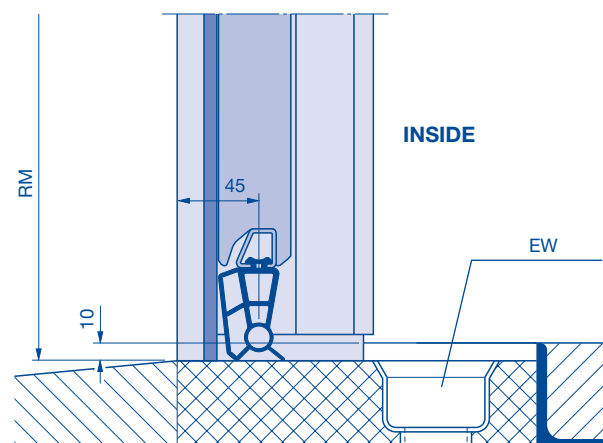
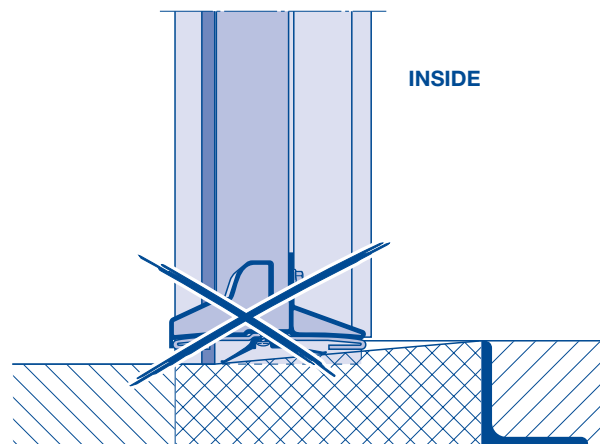
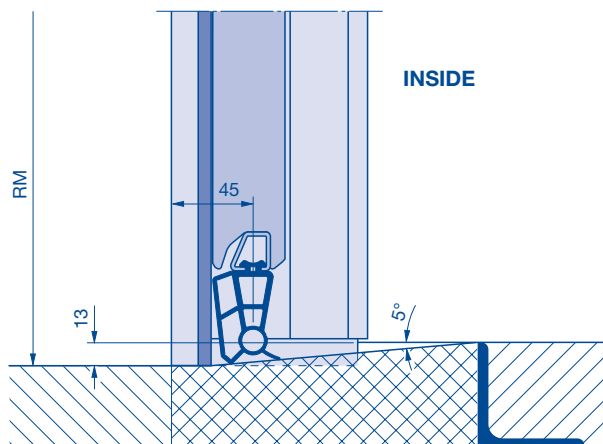
- Aluminium frame fascia panels with real glass infill VG, E2 and G2 on request.

DE	Ceiling height
DHS	Wicket door clear passage height
RAB	Frame fascia panel
LF	Structural opening
LAB	Fascia panel
RM	Standard size
STH	Min. headroom (see page 56)
TB	Door leaf

Bottom edge

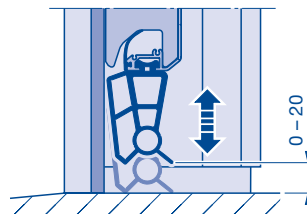
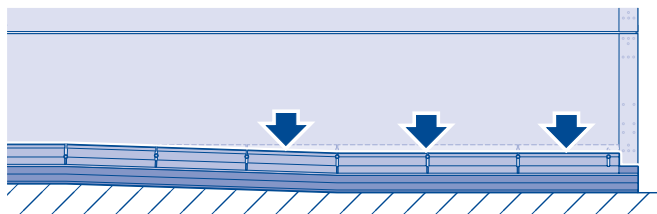
without wicket door / with wicket door and threshold rail

with wicket door and trip-free threshold

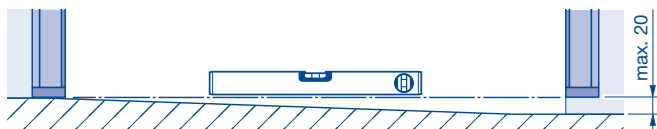


Adjustable bottom profile

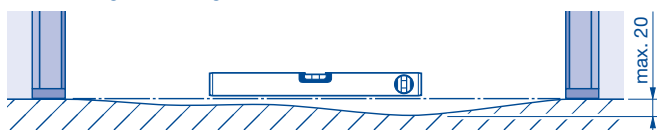
Height difference min. 0 mm / max. 20 mm



Chamfered bottom edge



Bottom edge following the contour



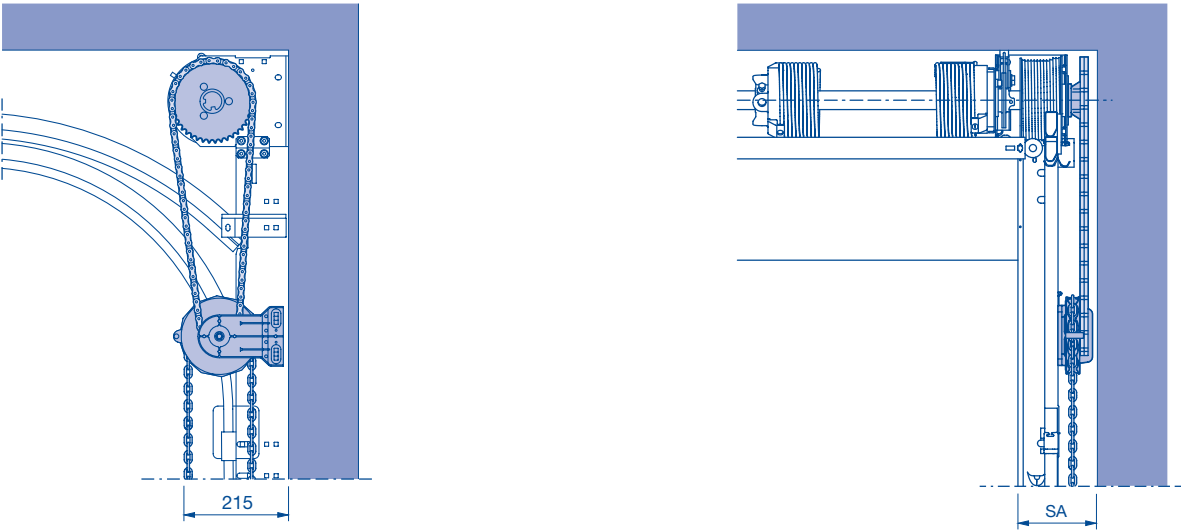
Notes:

- Version with door with wicket door, shortened bottom door section and bottom glazing frame not possible!
- Not possible for fixed elements, Parcel sectional door and doors for lowered section for dock leveller!
- Limitation of the passage height up to 20 mm possible!

EW Drainage
RM Standard size

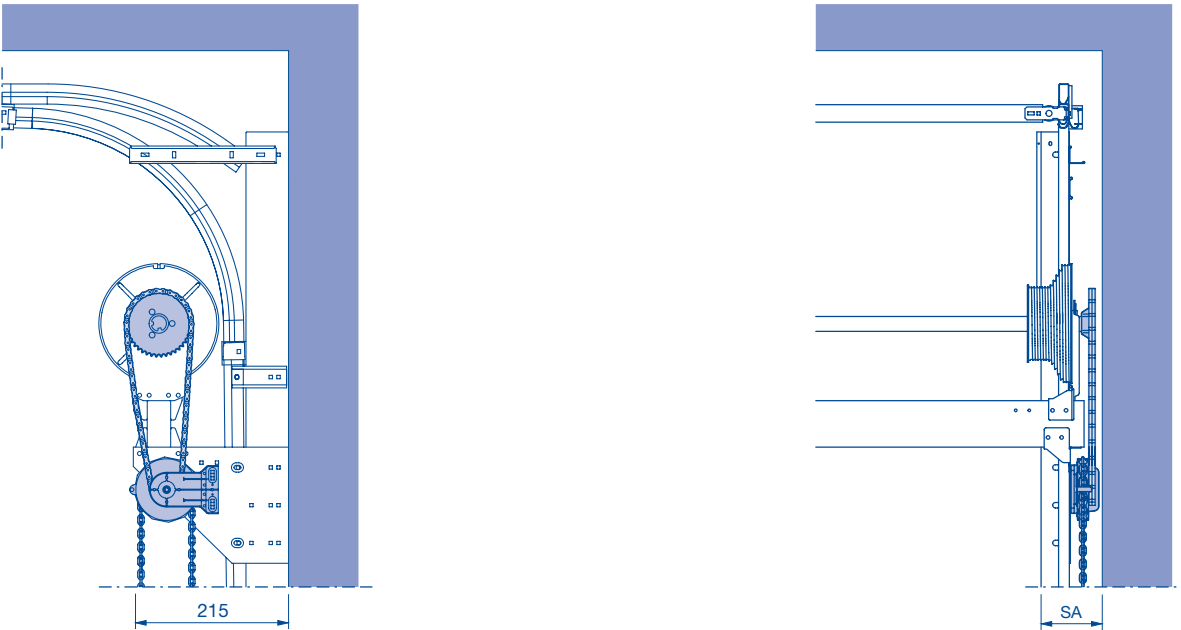
Chain hoist

Chain hoist for all track applications except HU, RD, RS, RK, VU, WS



Track application	N, NA, ND, NS, NK	NH, GD, GS, GK	L, LD	H, HA, HD, HS, HK	V, VA, VS
SA	165	165	165	185	165

Chain hoist for track applications HU, RD, RS, RK, VU, WS



Track application	HU, RD, RS, RK	VU, WS
SA	185	185

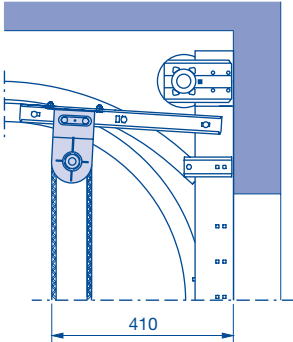
SA Sideroom

Manual

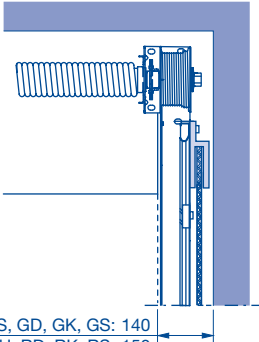
with rope or link steel chain

Track applications up to 20 m² door surface

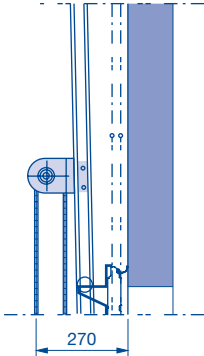
with rope or link steel chain



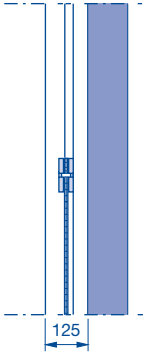
N, NA, ND, NH, NS, GD, H, HA, HD, HU, RD



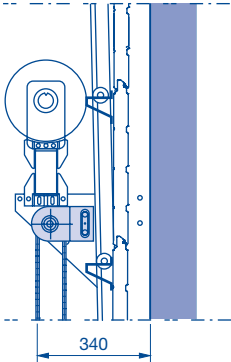
with rope or link steel chain



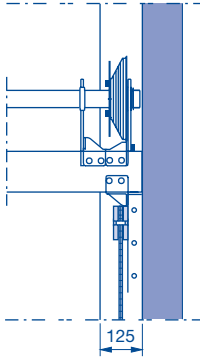
V, VA, VS



with rope or link steel chain



VU, WS



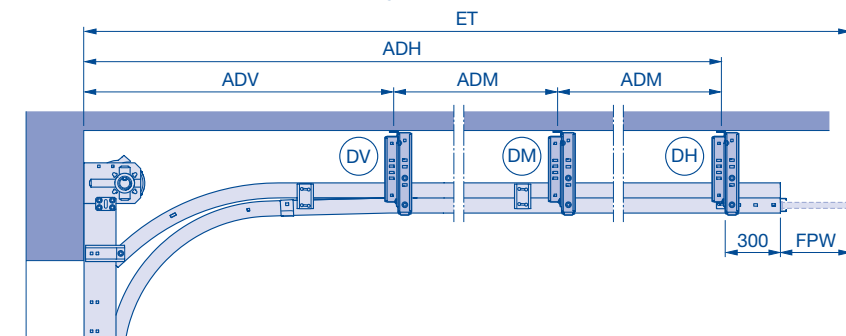
Ceiling anchor

Double track

Track suspensions for all track applications except V, VA, VU

Door weights for roof loads (see pages 56 – 67).

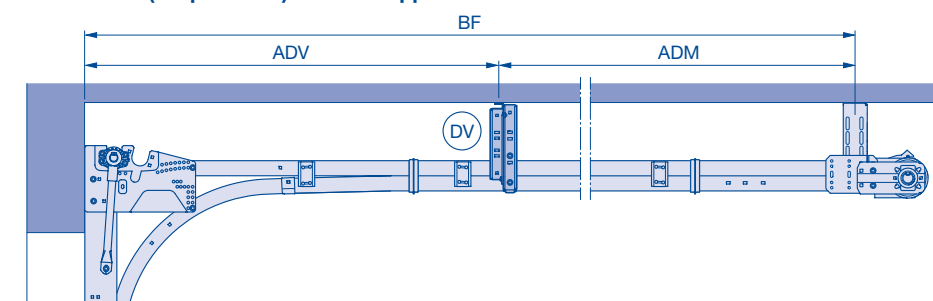
Double track (suspensions), door heights $RM \leq 5000$



Notes:

- Detailed technical data can be found in the product configurator.
- On-site fastening elements must be able to withstand forces of up to 1.5 kN per fixing point!
- Always obtain the permission of the structural engineer before fastening the door system to supporting structural elements.
- Deviations may occur due to the simplified calculation of the distance back. Detailed technical data can be found in the product configurator.

Double track (suspensions) for track application L



Track suspensions with double track

Track application	LZ	ET	Number of suspensions per side	DV	DM	DH / BF	ADV	ADM	ADH / BF	FPW
N, NA	≤ 7000	2264–3910	2	1	0	1	1400	–	ET - 597	Long
									ET - 327	Short
		3911–5660	3	1	1	1	1400	$(ET - ADV - 597) / 2$	ET - 597	Long
								$(ET - ADV - 327) / 2$	ET - 327	Short
	> 7000	2264–2910	2	1	0	1	1400	–	ET - 597	Long
									ET - 327	Short
		2911–4035	3	1	1	1	1400	$(ET - ADV - 597) / 2$	ET - 597	Long
								$(ET - ADV - 327) / 2$	ET - 327	Short
L	≤ 7000	4036–5660	4	1	2	1	1400	$(ET - ADV - 597) / 3$	ET - 597	Long
								$(ET - ADV - 327) / 3$	ET - 327	Short
		2857–3516	2	1	0	1	1400	–	RM + 670	–
		3517–5641	3	1	1	1	1400	$(BF - ADV) / 2$		
		5642–5982	4	1	2	1	1400	$(BF - ADV) / 3$		
H, HA, HU	≤ 7000	1890–2177	1	0	0	1	–	–	ET - 597	Long
									ET - 327	Short
		2178–3957	2	1	0	1	1400	–	ET - 597	Long
									ET - 327	Short
	> 7000	3958–5464	3	1	1	1	1400	$(ET - ADV - 597) / 2$	ET - 597	Long
								$(ET - ADV - 327) / 2$	ET - 327	Short
		5465–5694	4	1	2	1	1400	$(ET - ADV - 327) / 3$	ET - 327	Short
		1890–2177	1	0	0	1	1400	–	ET - 597	Long
									ET - 327	Short
		2178–2967	2	1	0	1	1400	–	ET - 597	Long
									ET - 327	Short
		2968–3839	3	1	1	1	1400	$(ET - ADV - 597) / 2$	ET - 597	Long
								$(ET - ADV - 327) / 2$	ET - 327	Short
		3840–5194	4	1	2	1	1400	$(ET - ADV - 597) / 3$	ET - 597	Long
								$(ET - ADV - 327) / 3$	ET - 327	Short
NH, ND, GD, LD, HD, RD, VS, WS	Dimensions can be found in the product configurator									

ADH Distance to rear ceiling anchor
 ADM Distance to central ceiling anchor
 ADV Distance to front ceiling anchor
 BF Position of spring shaft
 DA Distance to ceiling

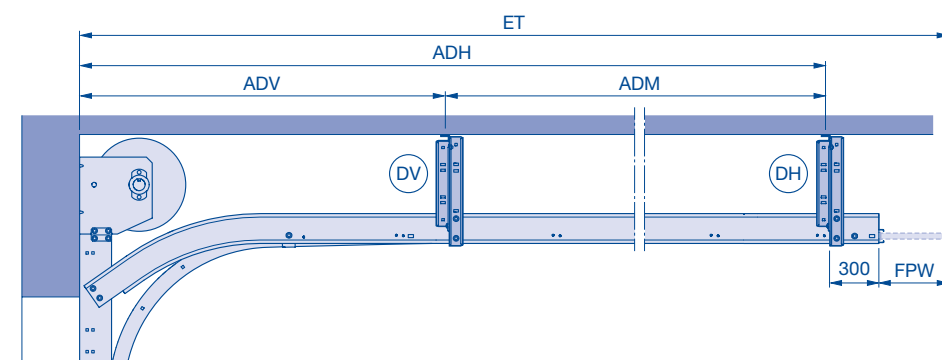
DAL Ceiling anchor length
 DH Rear ceiling anchor
 DM Centre ceiling anchor
 DV Ceiling anchor front
 ET Min. distance back

FPW Spring buffer travel
 LZ Clear frame dimensions

Ceiling anchor

C track

C-rail (suspensions) all track sizes, except NS, NK, GS, GK, V, VA



Note:

Deviations may occur due to the simplified calculation of the distance back. Detailed technical data can be found in the product configurator.

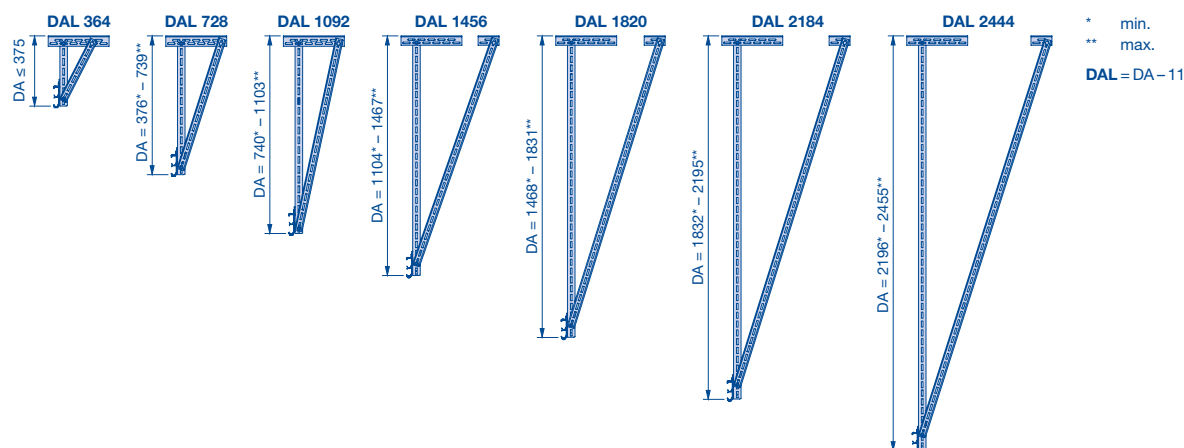
All door types RM > 4500 and LZ > 6250, all door types RM > 5000 except for track application L / LD doors with real glass RM > 3500 and LZ > 5000

Track application	LZ	ET	Number of suspensions per side	DV	DM	DH / BF	ADV	ADM	ADH / BF	FPW
N, NA	≤ 8000	≤ 6660	2	1	0	1	ADH / 2	–	ET - 597	Long
									ET - 327	Short
		> 6660	3	1	1	1	ADH / 3	$(ET - ADV - 597) / 2$ $(ET - ADV - 327) / 2$	ET - 597	Long
L	≤ 7000	≤ 5982	2	1	0	1	BF / 2	–	RM + 670	–
H, HA, HU	≤ 8000	≤ 6714	2	1	0	1	ADH / 2	–	ET - 597	Long
									ET - 327	Short
		> 6714	3	1	1	1	ADH / 3	$(ET - ADV - 597) / 2$ $(ET - ADV - 327) / 2$	ET - 597	Long
NH, ND, GD, LD, HD, RD, VS, WS	Dimensions can be found in the product configurator									

Use of C-rail to reduce suspensions

Track application	LZ	ET	Number of suspensions per side	DV	DM	DH / BF	ADV	ADM	ADH / BF	FPW
N, NA	≤ 5500	≤ 3785	1	0	0	1	–	–	ET - 597	Long
									ET - 327	Short
		> 3785	2	1	0	1	ADH / 2	–	ET - 597	Long
									ET - 327	Short
L		≤ 3516	1	0	0	1	–	–	–	–
		3517–5891	2	1	0	1	BF / 2	–	RM + 670	
		> 5891	3	1	1	1	BF / 3	(BF - ADV) / 2	RM + 670	
H, HA, HU		≤ 3715	1	0	0	1	–	–	ET - 597	Long
									ET - 327	Short
		> 3715	2	1	0	1	ADH / 2	–	ET - 597	Long
								ET - 327	Short	
NH, ND, GD, LD, HD, RD, VS, WS	Dimensions can be found in the product configurator									

Track suspensions for distance to ceiling in seven lengths, standard length for DA = 375 mm



ADH	Distance to rear ceiling anchor	DAL	Ceiling anchor length	FPW	Spring buffer travel
ADM	Distance to central ceiling anchor	DH	Rear ceiling anchor	LZ	Clear frame dimensions
ADV	Distance to front ceiling anchor (max. 3000)	DM	Centre ceiling anchor		
BF	Position of spring shaft	DV	Ceiling anchor front		
DA	Distance to ceiling	ET	Min. distance back		

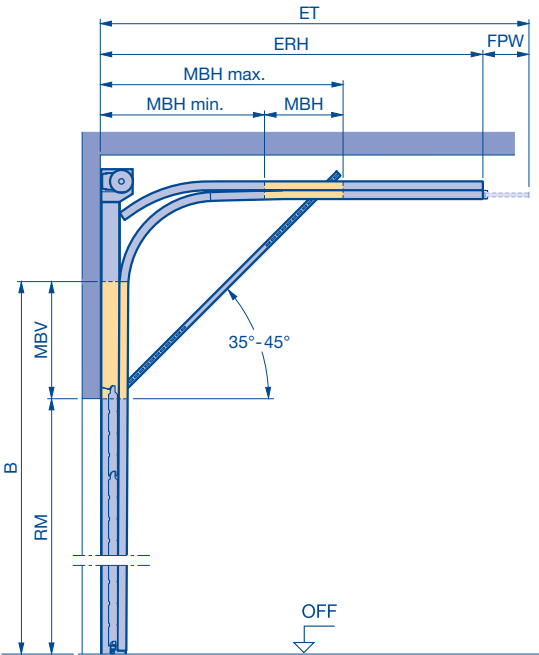
Diagonal strut

Detailed technical data can be found in the product configurator.
Deviations may occur due to the simplified calculation of the distance back.

Please note:
A technical inspection is required!

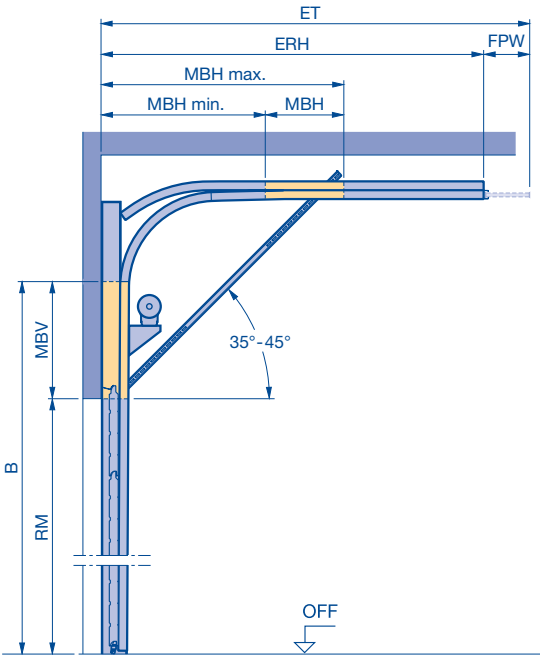
- Notes:**
- Application range of LZ ≤ 3000 and RM ≤ 3250
 - Max. distance back 2297
 - Not for door type ALR F42 Glazing.

Track application H



Other required technical data for track application H must be observed (see page 68).

Track application HU

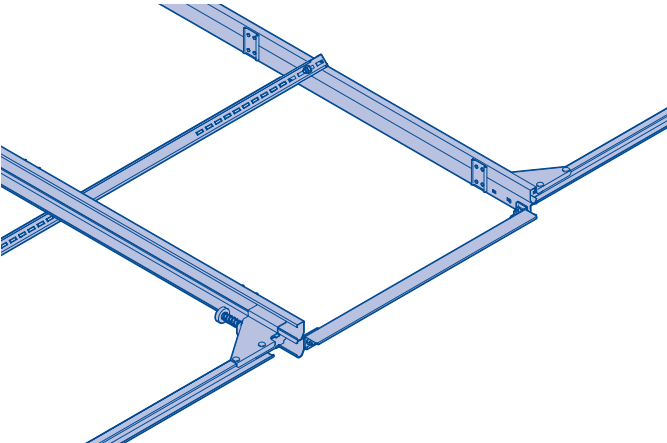


Other required technical data for track application HU must be observed (see page 73).

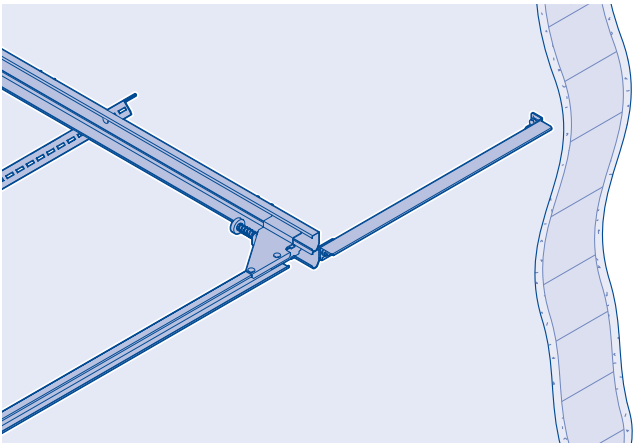
ET	ERH	Min. MBH	Max. MBH	FPW*		MBH	MBV		
				min.	max.		Track application H		Track application HU
Max. 2297	ET – FPW (max. 2000)	ERH / 2	3 × ERH / 4	27	297	Max. MBH – min.	RM	B	On request
							Min. MBH	Max. MBH	

* Dimensions can be found in the product configurator.

Connection door – door



Connection door – wall



B Start of double radius
ET Min. distance back
ERH Corner point track horizontal

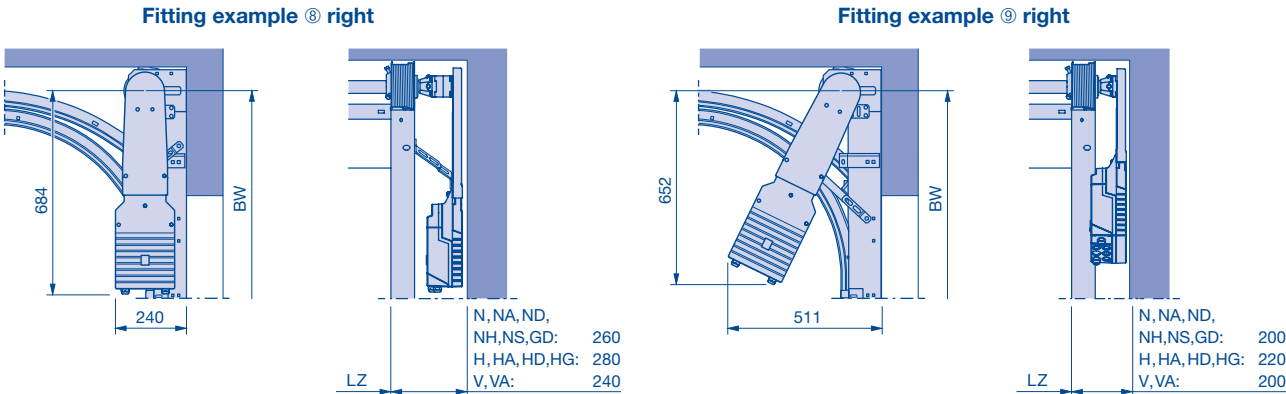
FPW Spring buffer travel
MBH Fitting area horizontal
MBV Fitting area vertical

OFF Finished floor level
RM Grid height

Shaft operator WA 300

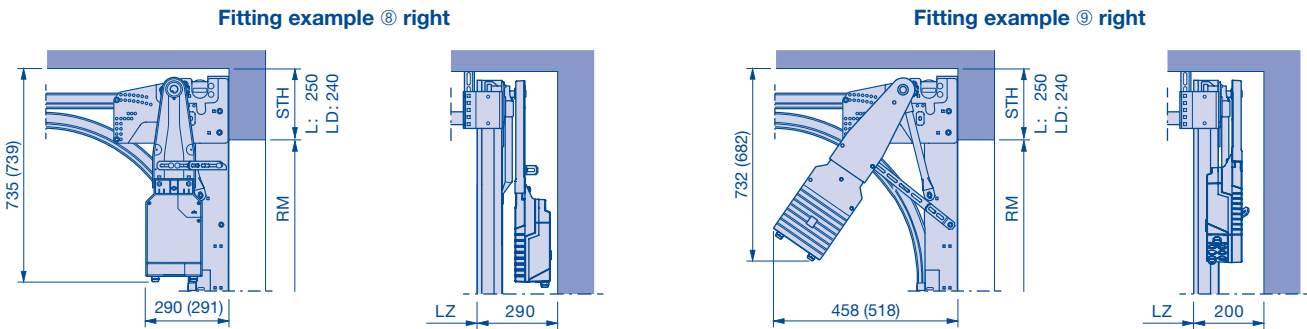
Shaft operator WA 300 for track applications N, NA, ND, NS, NH, NK, GD, GS, GK, H, HA, HD, HS, HK, V, VA and VS

As shown in the figure, the operator can be fitted either left or right, viewed from the inside.



Shaft operator WA 300 for track applications L and LD

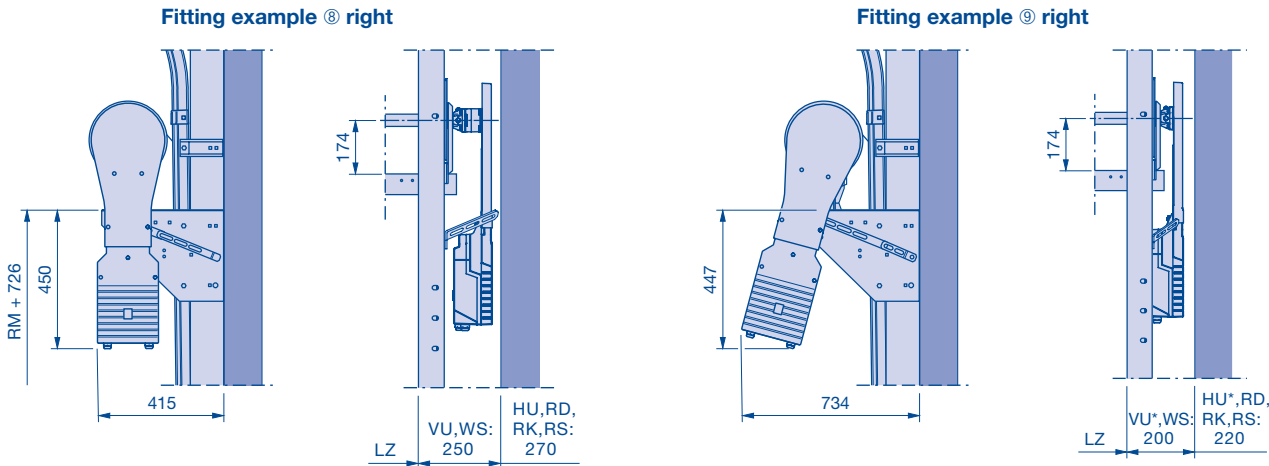
As shown in the figure, the operator can be fitted either left or right, viewed from the inside. In fitting example 9: on the side opposite the door lock.



Dimensions in brackets () for low headroom track application with swivel mechanism.

Shaft operator WA 300 for track applications HU, RD, RS, RK, VU and WS

As shown in the figure, the operator can be fitted either left or right, viewed from the inside.



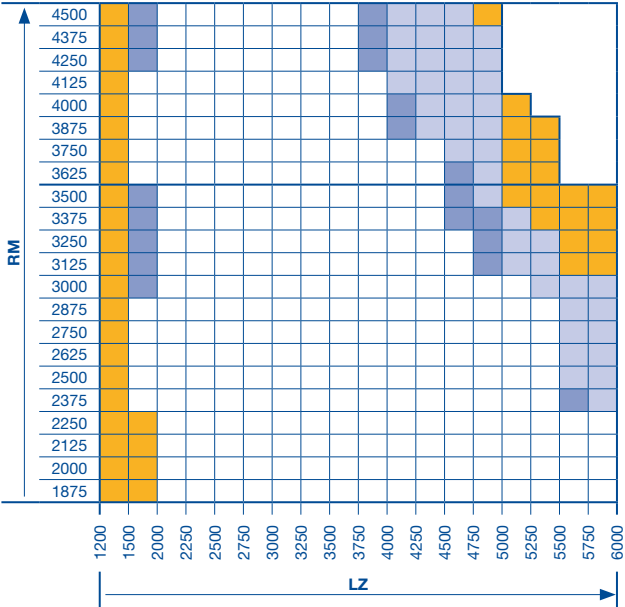
*** Notice:**
In the door range $LZ \leq 3000$ and $RM \leq 3500$ the track applications VU and HU are not possible

BW	Position of shaft support	STH	Min. headroom
LZ	Clear frame dimensions	RM	Grid height

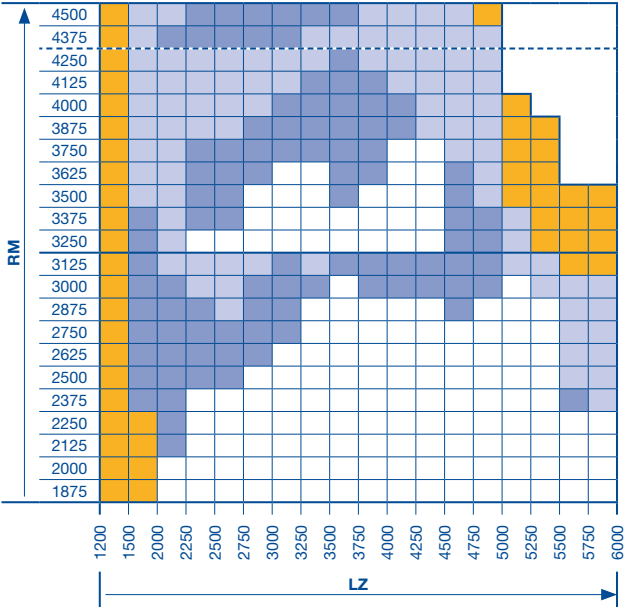
Shaft operator WA 300

Size range WA 300 (ALR F42 Vitraplan on request)

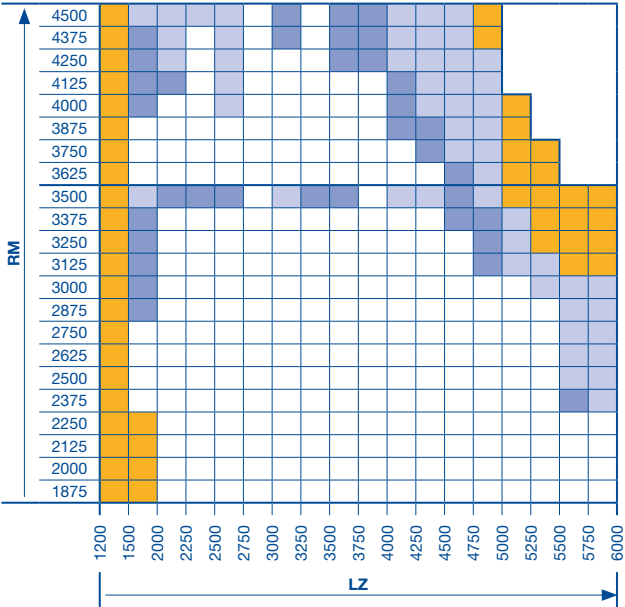
Track applications: N, NA and NH



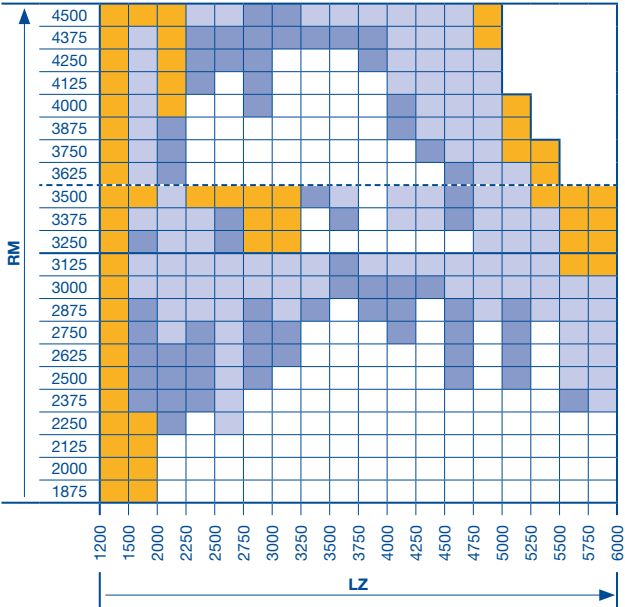
Track applications: ND and GD



Track application: L



Track application: LD



- All door types available in any version.
- All door types with thermo frames, glazing A3, B3, M3, S3, U3, LB, P, XU or wicket door on request.
- All door types with thermo frames with glazing A3, B3, M3, S3, U3, LB, P, XU and/or wicket door on request.
- All door types and versions on request.

Note:
Track application NS on request!

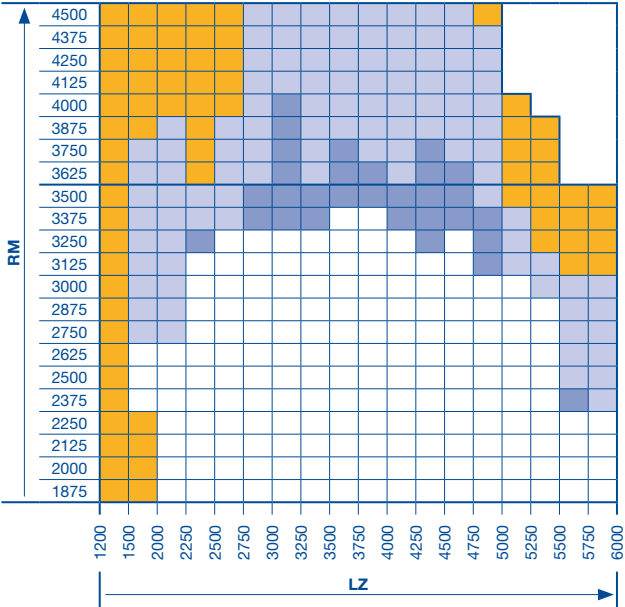
LZ Clear frame dimensions
RM Grid height

Dimensions in mm

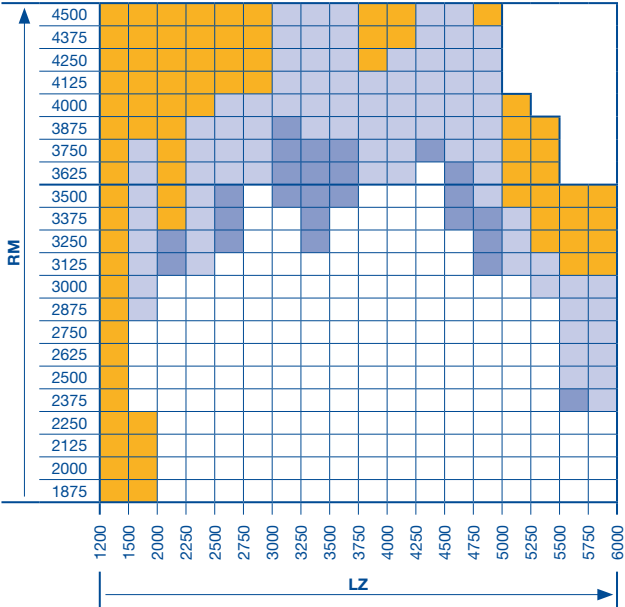
Shaft operator WA 300

Size range WA 300 (ALR F42 Vitraplan on request)

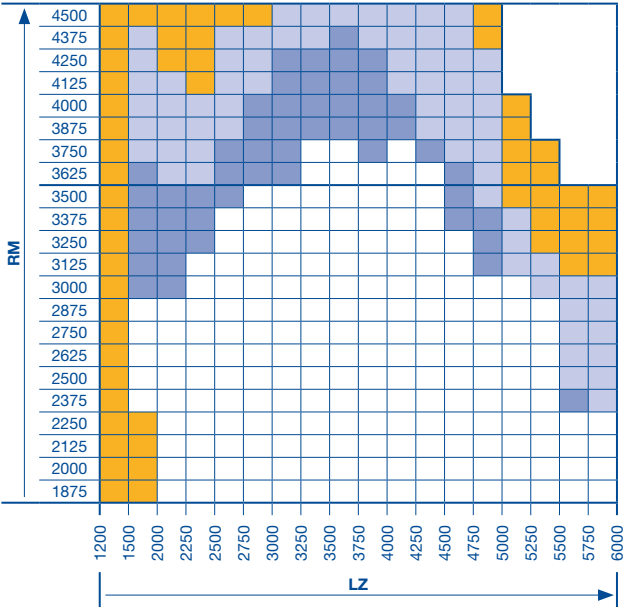
Track application: H, HA and HU



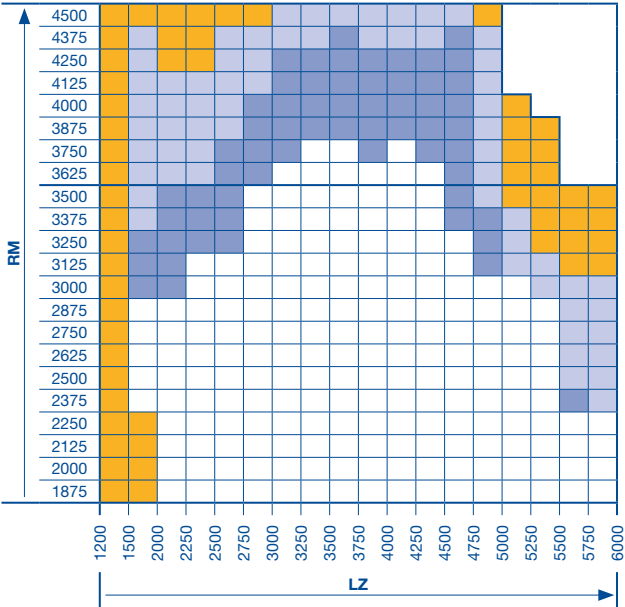
Track application: HD and RD



Track application: V and VA



Track application: VU



- All door types available in any version.
- All door types with thermo frames, glazing A3, B3, M3, S3, U3, LB, P, XU or wicket door on request.
- All door types with thermo frames with glazing A3, B3, M3, S3, U3, LB, P, XU and/or wicket door on request.
- All door types and versions on request.

LZ Clear frame dimensions
RM Grid height

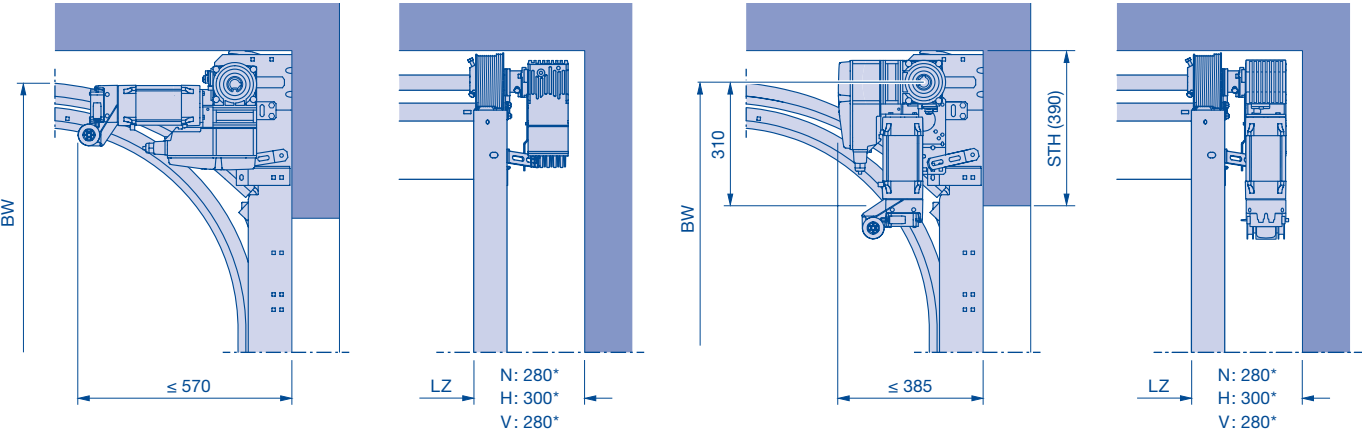
Dimensions in mm

Shaft operator WA 500 / 500 FU

As a frame-mounted operator

Shaft operator WA 500 / WA 500 FU for all track applications, except L, LD, HU, RD, RS, RK, VU and WS

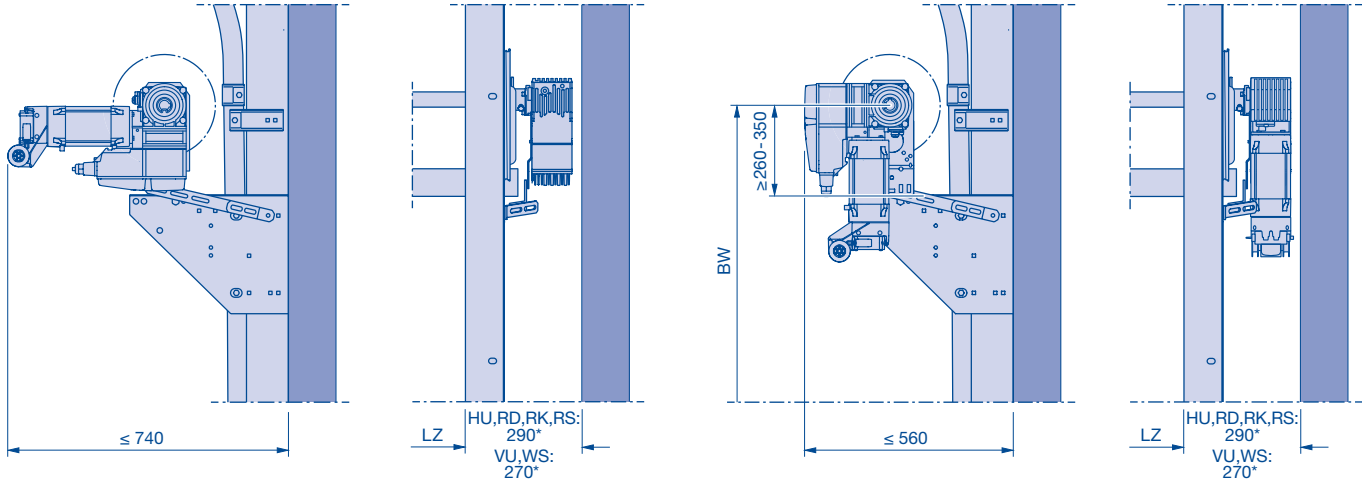
As shown in the figure, the operator can be fitted either left or right, viewed from the inside.



*** Notice:**
Dimension 75 mm if using a non-jointed emergency crank handle

Shaft operator WA 500 / WA 500 FU for track applications HU, RD, RS, RK, VU and WS

As shown in the figure, the operator can be fitted either left or right, viewed from the inside.



*** Notice:**
Dimension 75 mm if using a non-jointed emergency crank handle

** On request

BW Position of shaft support
LZ Clear frame dimensions

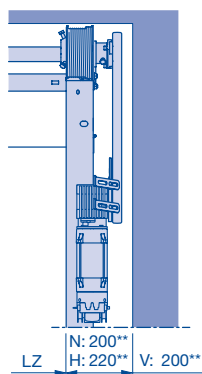
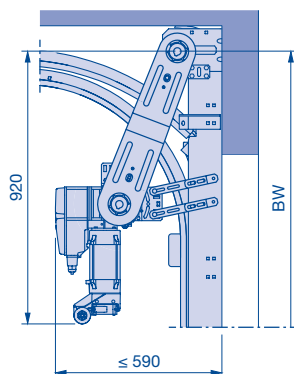
Shaft operator WA 500 / 500 FU

with chain box

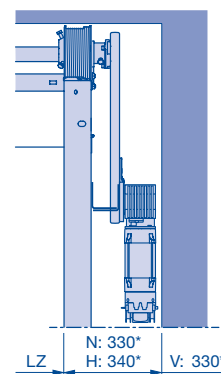
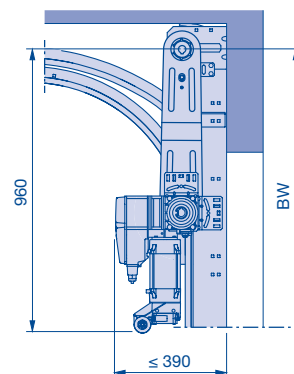
Shaft operator WA 500 / WA 500 FU for all track applications, except L, LD, HU, RD, RS, RK, VU and WS

As shown in the figure, the operator can be fitted either left or right, viewed from the inside. **In fitting example 5: on the side opposite the door lock.**

Fitting example ⑤ right



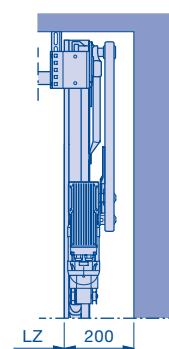
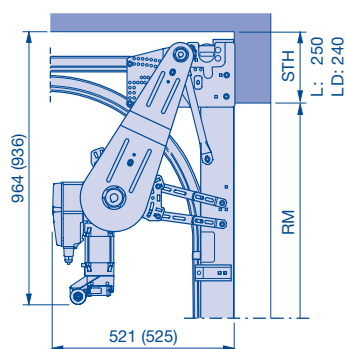
Fitting example ⑥ right



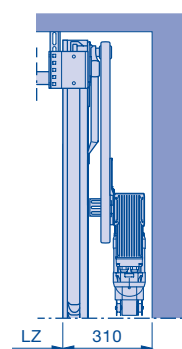
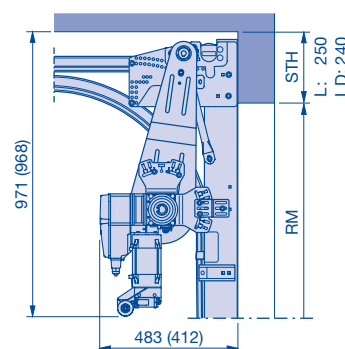
Shaft operator WA 500 / WA 500 FU for the track applications L and LD

As shown in the figure, the operator can be fitted either left or right, viewed from the inside. **In fitting example 5: on the side opposite the door lock.**

Fitting example ⑤ right



Fitting example ⑥ right

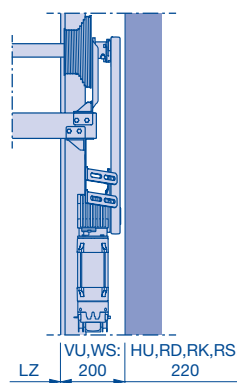
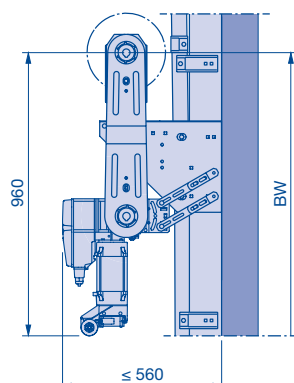


Dimensions in brackets () for low headroom track application with swivel mechanism.

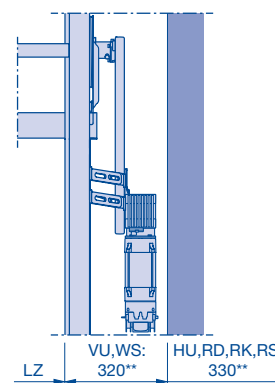
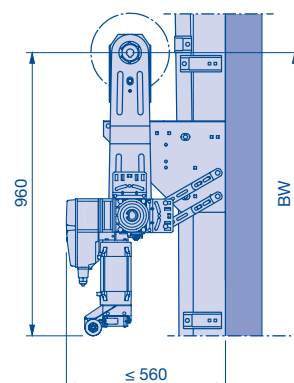
Shaft operator WA 500 / WA 500 FU for track applications HU, RD, RS, RK, VU and WS

As shown in the figure, the operator can be fitted either left or right, viewed from the inside. **In fitting example 5: on the side opposite the door lock.**

Fitting example ⑤ right



Fitting example ⑥ right



* Notice:

Dimension 75 mm if using a non-jointed emergency crank handle

** Note:

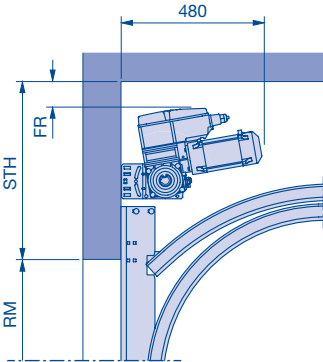
Dimension 40 mm if using a non-jointed emergency crank handle

BW Position of shaft support
LZ Clear frame dimensions

Shaft operator WA 500 / 500 FU

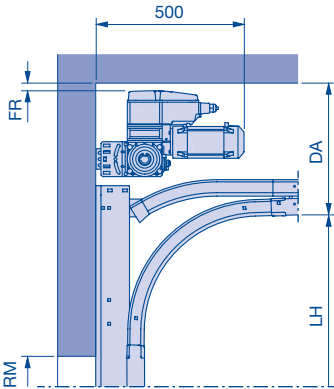
for central mounting

Shaft operator WA 500 / 500 FU for track applications: N and ND



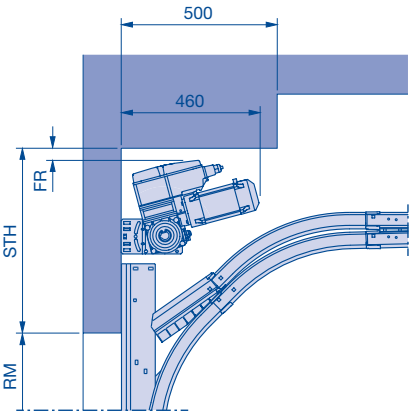
Track application	WA 500 / WA 500 FU	
	STH min.	FR min.
N 1	590	45
N 2	615	45
N 3	675	45
ND 1	550	48
ND 2	570	48
ND 3	675	48
ND 6	560	48
ND 7	640	48

Shaft operator WA 500 / 500 FU for track application: NH and GD



Track application	WA 500 / WA 500 FU	
	Min. DA	FR min.
NH 1 / GD 1	480	45
NH 2 / GD 2	485	45
NH 3	565	45

Shaft operator WA 500 / 500 FU for track applications: NS, NK, GS and GK



Track application	WA 500 / WA 500 FU	
	STH min.	FR min.
NS 1 / NK 1	615	45
NS 2 / NK 2	640	45
GS / GK	On request	

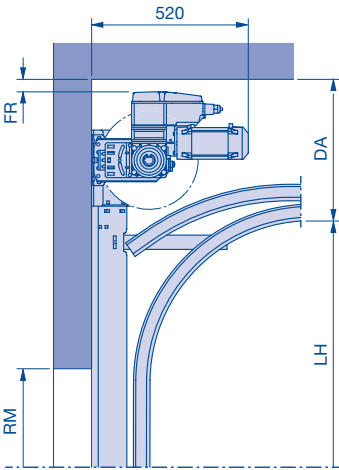
Note:
Centre motor in conjunction with double spring shaft on request!

DA	Distance to ceiling	LH	Track height	STH	Headroom
FR	Clearance ceiling / shaft operator	RM	Grid height		

Shaft operator WA 500 / 500 FU

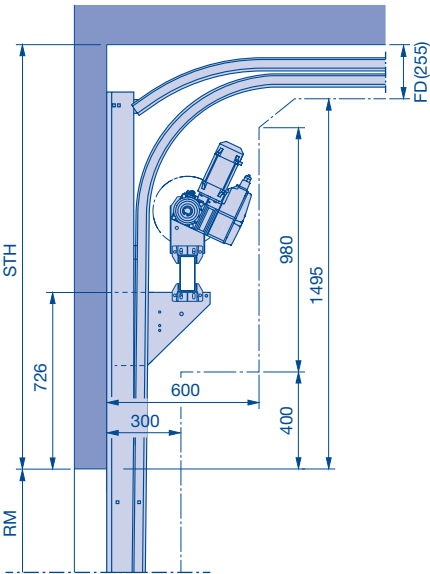
for central mounting

Shaft operator WA 500 / 500 FU for track applications: H, HD, HS and HK



Track application	WA 500 / WA 500 FU	
	Min. DA	FR min.
H 4	480	45
H 5	485	45
H 8	565	45
HD / HS / HK	On request	

Shaft operator WA 500 / 500 FU for track applications: HU, RD, RS and RK



Track application	WA 500 / WA 500 FU
RS / RK	On request

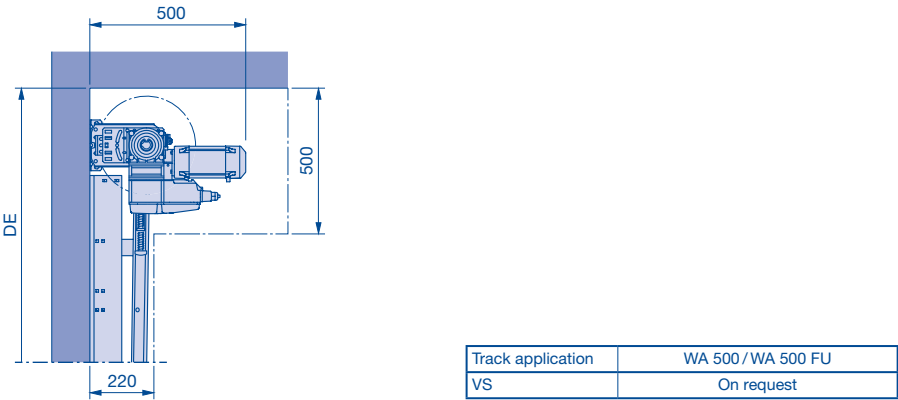
Note:
Centre motor in conjunction with double spring shaft on request!

DA	Distance to ceiling	LH	Track height	STH	Headroom
FR	Clearance ceiling / shaft operator	RM	Grid height		

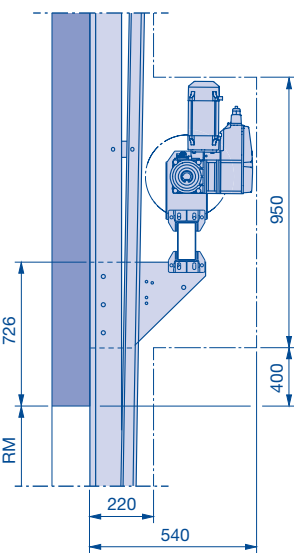
Shaft operator WA 500 / 500 FU

for central mounting

Shaft operator WA 500 / 500 FU for track applications: V and VS



Shaft operator WA 500 / 500 FU for track applications: VU and WS



Note:

Centre motor in conjunction with double spring shaft on request!

DA

Distance to ceiling

RM

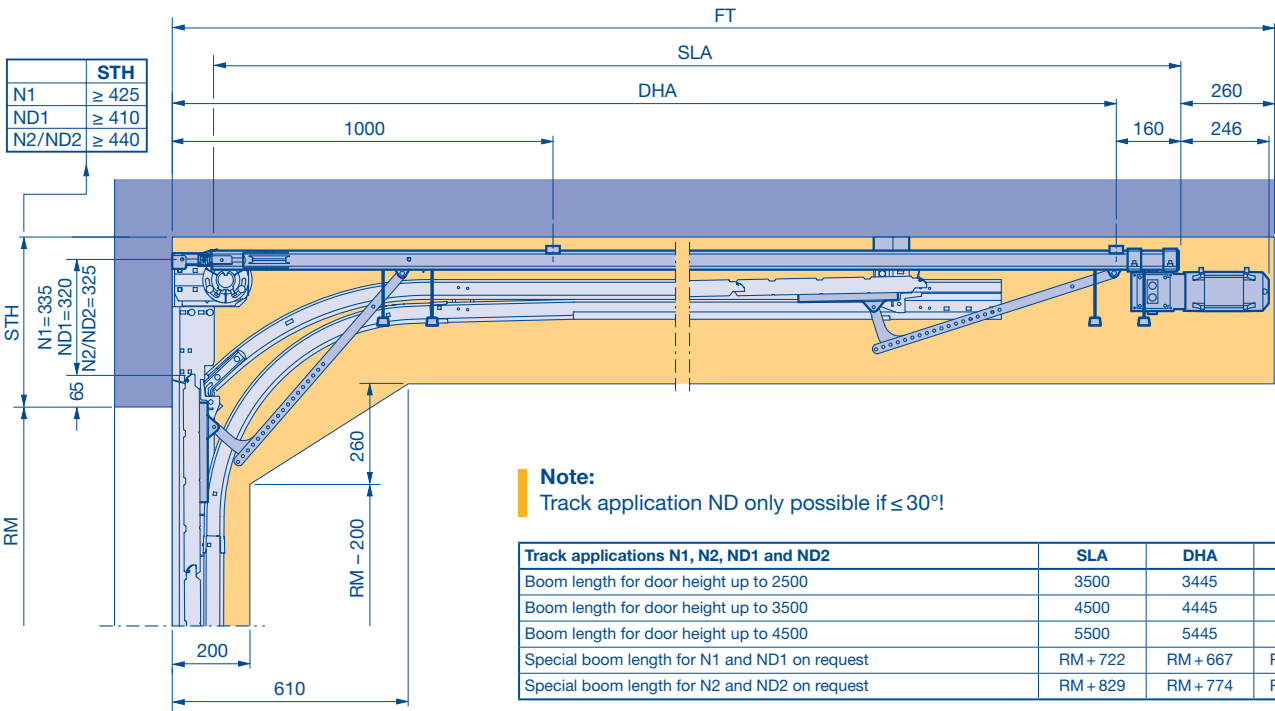
Grid height

LH

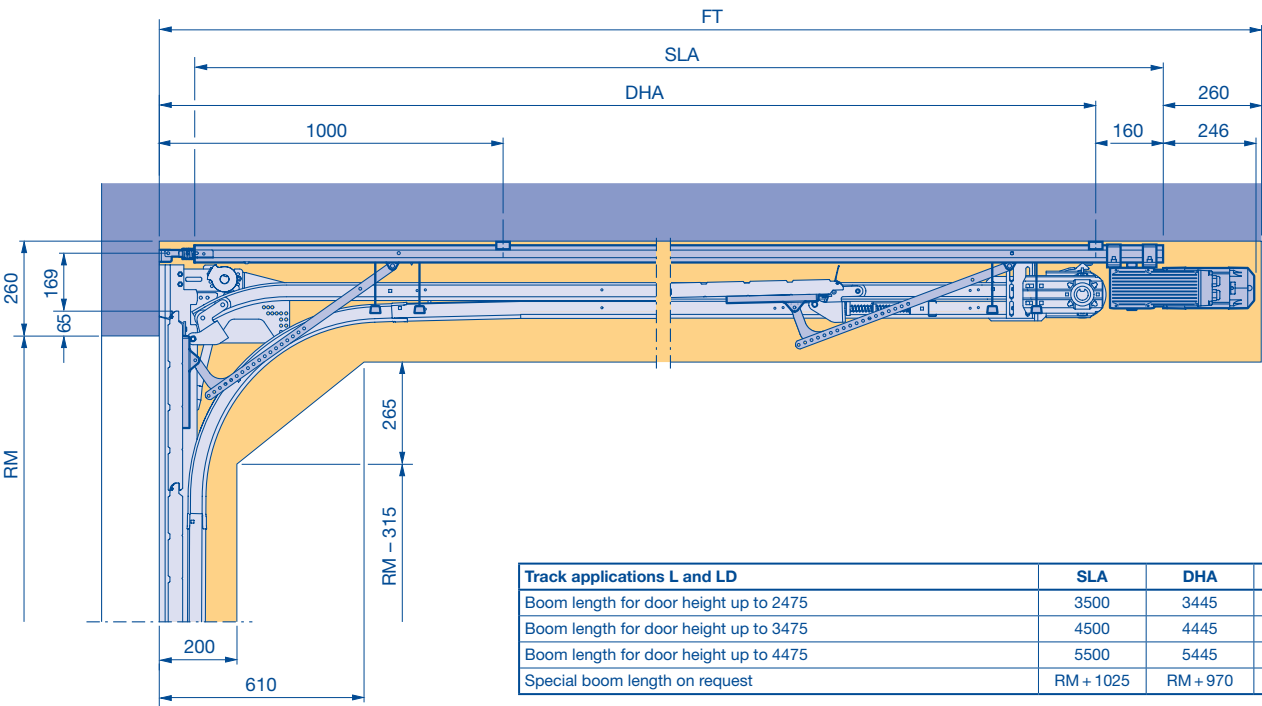
Track height

Chain drive operator ITO 500 FU

ITO 500 FU track applications N and ND (doors with wicket door on request)



ITO 500 FU track applications L and LD (doors with wicket door on request)

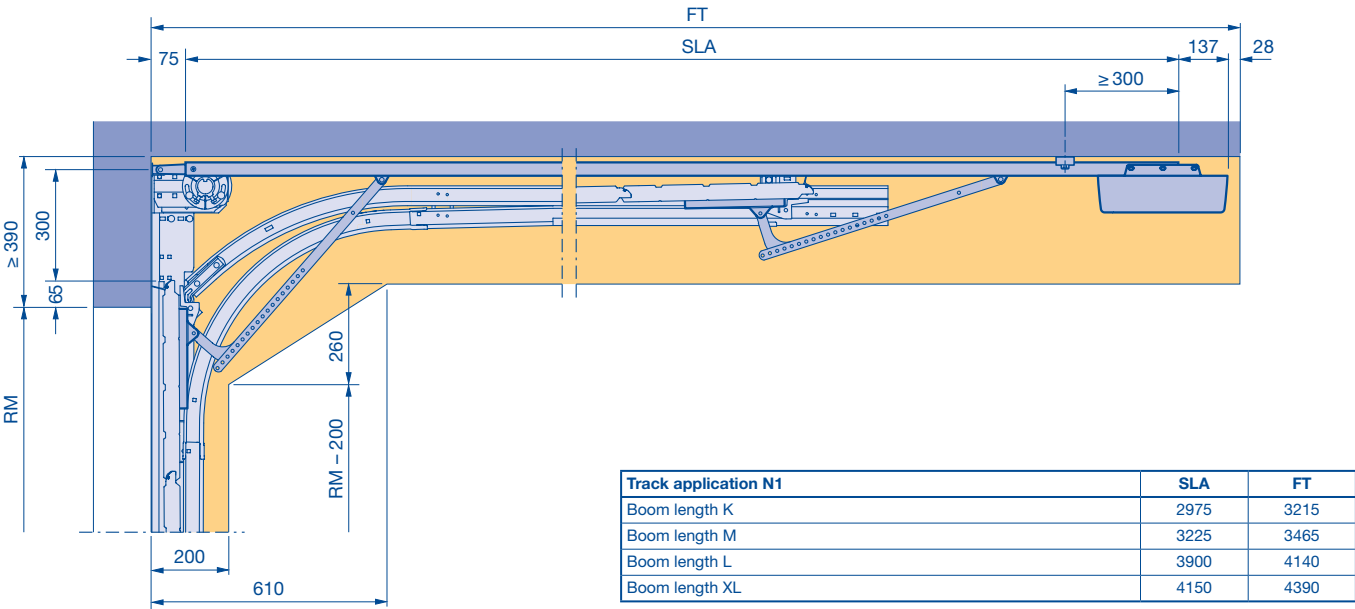


DHA Operator rear ceiling anchor
FT Clearance for door operator
RM Grid height
SLA Operator boom length

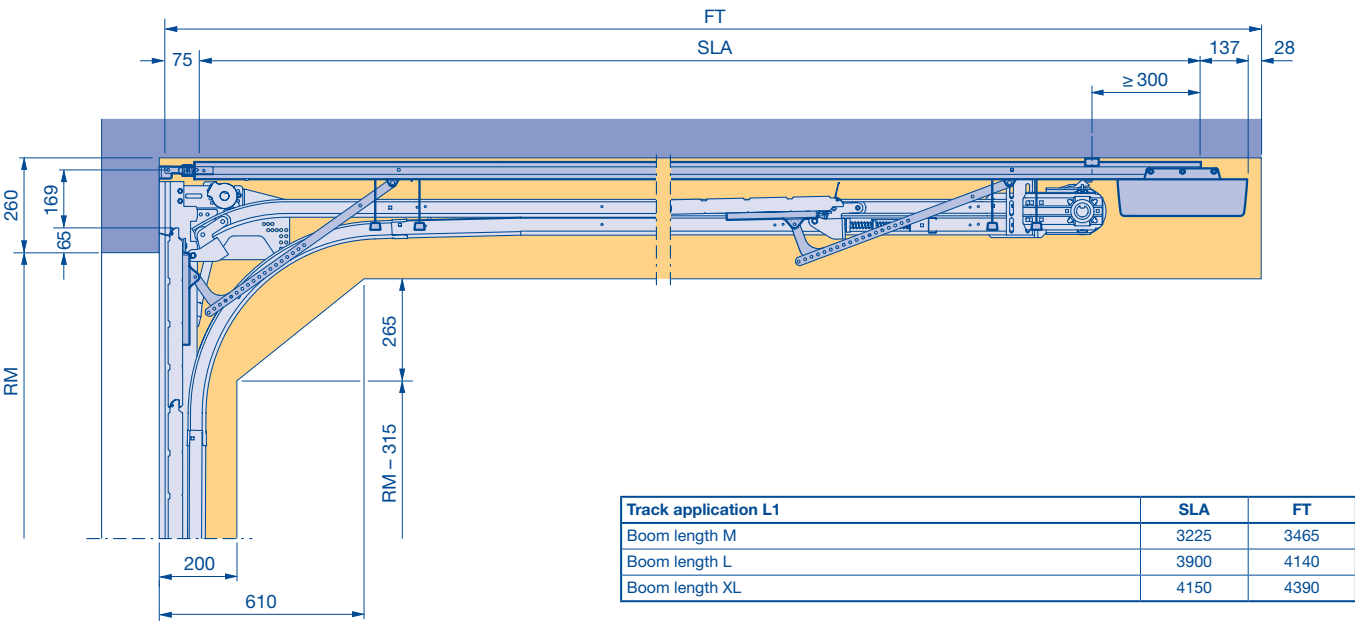
STH Headroom

Operator SupraMatic HT

SupraMatic HT track application N
(doors with wicket door, ALR F42 Glazing, ALR F42 Vitraplan and doors with real glass infill on request)*



SupraMatic HT track application L
(doors with wicket door, ALR F42 Glazing, ALR F42 Vitraplan and doors with real glass infill on request)*



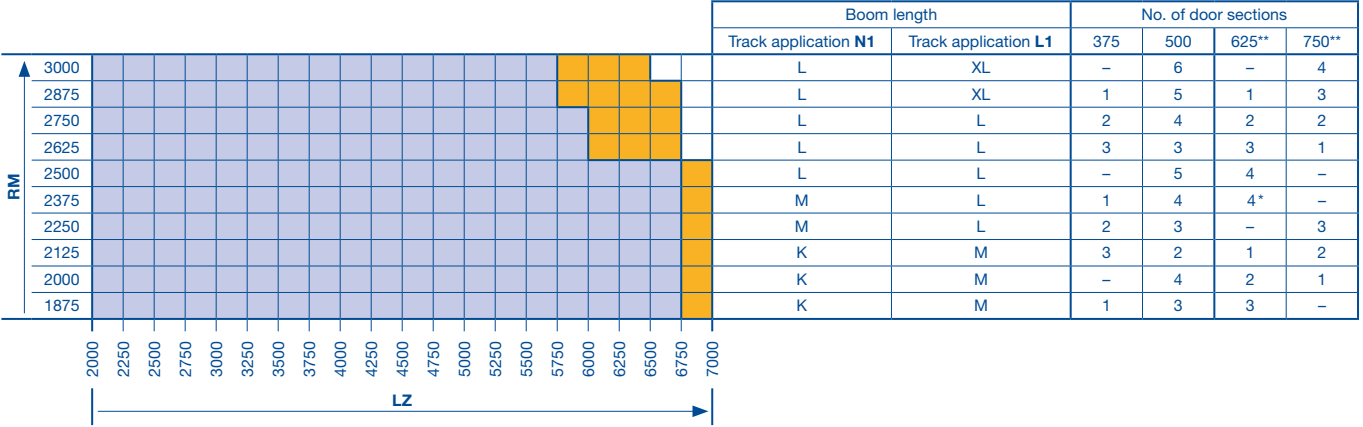
(See the next page for the size range for SupraMatic HT)

*** Notice:**
Operator not possible for doors with a depth of 67 mm!

DHA Operator rear ceiling anchor
FT Clearance for door operator
RM Grid height
SLA Operator boom length

Operator SupraMatic HT

SupraMatic HT size range



- SupraMatic HT not possible.
- SupraMatic HT possible.
- SupraMatic HT on request.

LZ

Clear frame dimensions

RM

Grid height

*

Top door section 500 mm

**

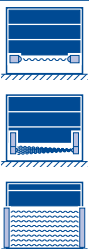
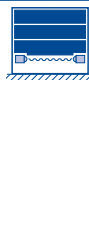
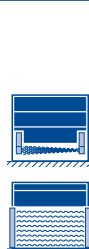
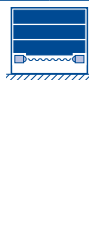
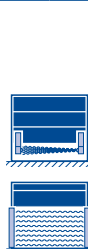
Only without wicket door

Dimensions in mm

Door leaf speeds

WA 300 / WA 500

ATTENTION! The stated speeds can **only be achieved under optimum conditions** regarding door size and track size. More detailed information on request, as this is dependent on fitting, door and track heights.

Track range	WA 300 S4		WA 500							
	Integrated / external control 360		Control 545 and 560							
			Frame-mounted operator / centre motor				Chain box operator			
										
										
N1, NA1, NS1, ND1 ≤ 30°, NK1	190	95	30	190	30	190	30	190	30	190
GD1, GK1, GS1, NH1	190	95	16	100	16	100	16	100	16	100
ND6 > 30°	160 / 190 [1]	80 / 95 [1]	16	170 [1]	24	300 [1]	16	170 [1]	24	300 [1]
N2, NA2, NS2, ND2 ≤ 30°, NK2	210	105	24	210	30	265	24	210	30	265
GD2, GK2, GS2, NH2	210	105	16	142	16	142	16	142	16	142
ND7 > 30°	190 [1]	95 [1]	19 [2]	275 [1, 2]	19	275 [1]	13	180 [1]	19	275 [1]
N3, NH3, ND3 < 6°	-		-				-			
ND3 ≥ 6°	-		-				13	160	19	190
L1, LD1	210	105	-				24	150	24	150
L2, LD2							24	150	24	150
H4, HA4, HK4, HS4, HU4, HD4, RD4, RK4, RS4	160 / 190 [1]	80 / 95 [1]	19 / 16	170 [1]	30 / 24	290 [1]	19 / 16	170 [1]	30 / 24	290 [1]
H5, HA5, HU5, HD5, RD5	210 [1]	105 [1]	24 / 19 [2]	290 [1, 2]	24 / 19		16 / 13		24 / 19	
H8, HD8, HK8, HS8, HU8	-		-				16 [2]	250 [2]	16	250
V6, VA6, VU6, VS6, WG6, WS6	160 / 190 [1]	80 / 95 [1]	16	170 [1]	24	300 [1]	16	170 [1]	24	300 [1]
V7, VU7, VS7, WG7, WS7	190 [1]	95 [1]	19 [2]	275 [1, 2]	19	275 [1]	13		19	275 [1]
V9, VU9, VS9, WS9	-		-				16 [2]	250 [2]	16	250

- [1] Max. door leaf speed depending on the high-lift / door height (RM) / door width (LZ)
- [2] Only possible with press-and-hold operation
- [3] Speed reduction in the range from 2500 mm above FFL to FFL to comply with EN 13241.

Notice
Double spring shaft only possible in conjunction with WA 500 FU!

	Speed in mm/s		Open / close direction of movement		Optosensors, 8k2 strip
	Speed in rotations per minute		Open direction of movement		Leading photocell VL1/VL2
	Power limit		Close direction of movement		Light grille HLG

Door leaf speeds

WA 500 FU

ATTENTION! The stated speeds can **only be achieved under optimum conditions** regarding door size and track size. More detailed information on request, as this is dependent on fitting, door and track heights.

Track range	WA 500 FU							
	Control 545							
	Frame-mounted operator / centre motor				Chain box operator			
								
		   				   		
N1, NA1, NS1, ND1 ≤30°, NK1	350	200	250		350	200	250	
GD1, GK1, GS1, NH1								
ND6 > 30°								
N2, NA2, NS2, ND2 ≤30°, NK2	500	500			500	500		
GD2, GK2, GS2, NH2		200	300	500		200	300	500
ND7 > 30°		500				500		
N3, ND3								
NH3		200	300	500		200	300	500
L1, LD1	—				375	200	300	375
L2, LD2						375		
H4, HA4, HK4, HS4, HU4, HD4, RD4, RK4, RS4	350	200	250		350	200	250	
H5, HA5, HU5, HD5, RD5	500	500			500	500		
H8, HD8, HK8, HS8, HU8								
V6, VA6, VU6, VS6, WS6	350	200	250		350	200	250	
V7, VU7, VS7, WS7	500	500			500	500		
V9, VU9, VS9, WS9								

Max. door leaf speed from the Open end-of-travel position in the Close direction up to approx. 3200 mm above FFL

Max. door leaf speed from the Open end-of-travel position in the Close direction up to approx. 500 mm above FFL

Notice
Double spring shaft only possible in conjunction with control WA 500 FU!

	Speed in mm/s		Open / close direction of movement		Optosensors, 8k2 strip
	Speed in rotations per minute		Open direction of movement		Leading photocell VL1/VL2
	Power limit		Close direction of movement		Light grille HLG

Door leaf speeds

WA 500 FU

ATTENTION! The stated speeds can **only be achieved under optimum conditions** regarding door size and track size. More detailed information on request, as this is dependent on fitting, door and track heights.

Track range	WA 500 FU											
	Control 560											
	Frame-mounted operator / centre motor				Chain box operator				Top speed (mm/s) [4]			
												
												
N1, NA1, NS1, ND1 ≤ 30°, NK1	500 575 [4]	200	300	500	500 575 [4]	200	300	500	700 [4]	200	300	500
GD1, GK1, GS1, NH1	500				500				–			
ND6 > 30°	500				500				700 [4]	200	300	500
N2, NA2, NS2, ND2 ≤ 30°, NK2	500 825 [4]	500	500	500 825	500 825 [4]	500	500	500 825	1000 [4]	500	500	1000
GD2, GK2, GS2, NH2	500	200	300	500	500	200	300	500	–			
ND7 > 30°	500 825 [4]	500	500	500 825	500 825 [4]	500	500	500 825	1000 [4]	500	500	1000
N3, ND3	1000 [4]	500	500	500	1000 [4]	500	500	500	1000 [4]	500	500	1000
NH3	500	200	300	500	500	200	300	500	–			
L1, LD1	–				375	200	300	375	1000 [4]	200	300	500
L2, LD2	–				575 [4]			500		500	500	1000
H4, HA4, HK4, HS4, HU4, HD4, RD4, RK4, RS4	500 700 [4]	200	300	500	500 700 [4]	200	300	500	700 [4]	200	300	500
H5, HA5, HU5, HD5, RD5	500 825 [4]	500	500	500 825	500 825 [4]	500	500	500 825	1000 [4]	500	500	1000
H8, HD8, HK8, HS8, HU8	500	500	500	500	500	500	500	500	1000 [4]	500	500	1000
V6, VA6, VU6, VS6, WS6	500 700 [4]	200	300	500	500 700 [4]	200	300	500	700 [4]	200	300	500
V7, VU7, VS7, WS7	500 825 [4]	500	500	500 825	500 825 [4]	500	500	500 825	1000 [4]	500	500	1000
V9, VU9, VS9, WS9	500	500	500	500	500	500	500	500	1000 [4]	500	500	1000

[4] Max. door leaf speed with door width (LZ) ≤ 6000 mm; For door width (LZ) > 6000 mm only after technical inspection; not possible with roller holder type S
Max. door leaf speed from the Open end-of-travel position in the Close direction up to approx. 3200 mm above FFL

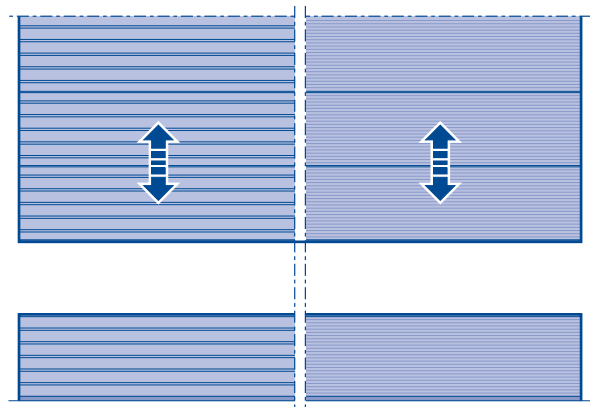
Max. door leaf speed from the Open end-of-travel position in the Close direction up to approx. 500 mm above FFL

Notice
Double spring shaft only possible in conjunction with control WA 500 FU!

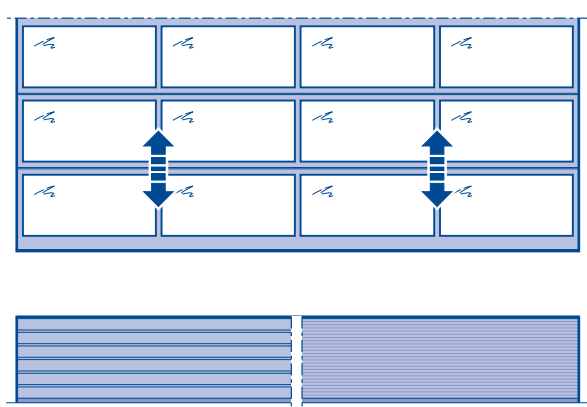
Sectional door

Parcel

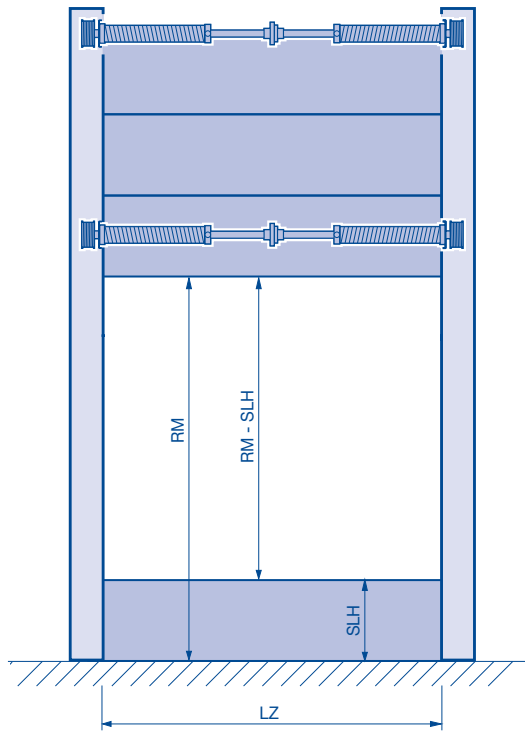
SPU F42



APU F42

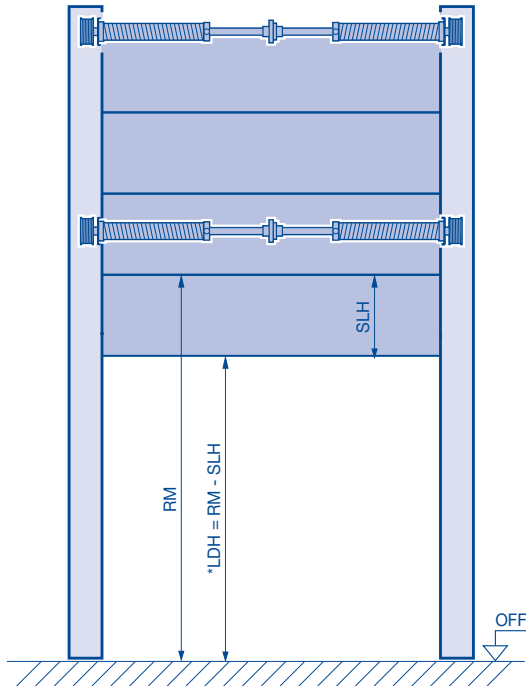


Functional principle



For loading lorries and swap trailers, the bottom section with the catwalk remains on the ground when the door is open.

*LDH = RM possible on request for Parcel



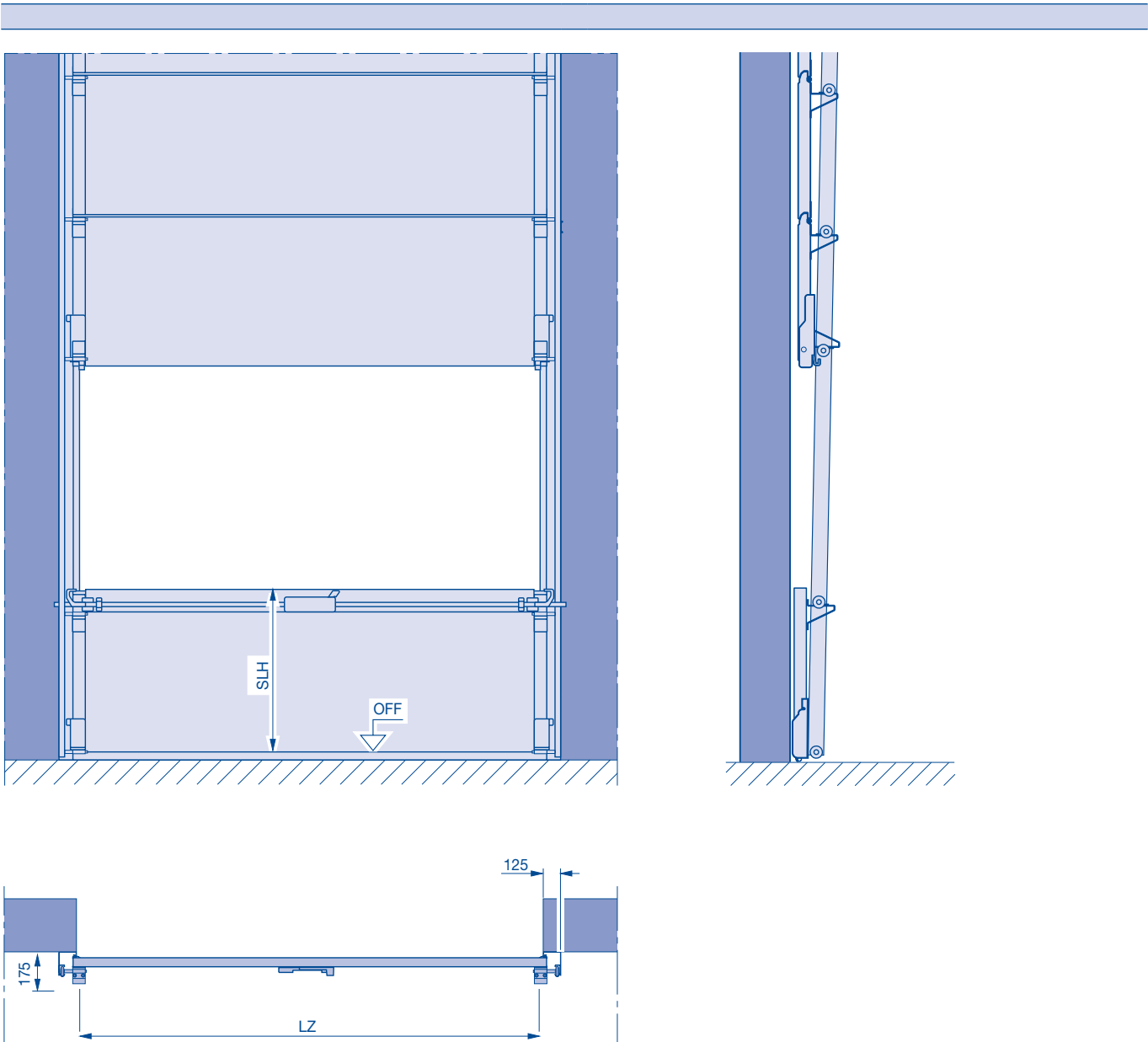
Vans are loaded at floor level. For this purpose, the door is opened completely including the bottom section. When the coupled door is open, the bottom section with the catwalk remains in the top part of the door opening.

- LDH Clear passage height
- LZ Clear frame dimensions
- RM Grid height
- SLH Bottom section height

Dimensions in mm

Sectional door

Parcel

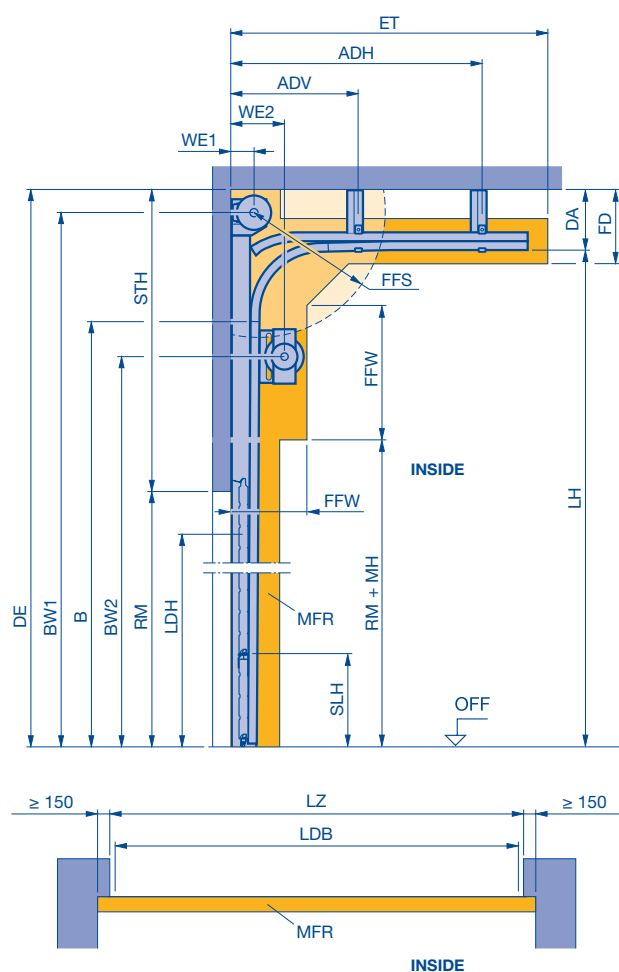


LZ Clear frame dimensions
SLH Bottom section height
Dimensions in mm

Track application: HP

High-lift track application

for sectional door Parcel with high- and low-mounted torsion spring shaft



ADH Distance to rear ceiling anchor on request
ADV Distance to front ceiling anchor
B Start of double radius
BW Position of shaft support
DA Distance to ceiling
DE Ceiling height
ET Distance back on request
FD Min. ceiling clearance
FFS Spring compression clearance
FFW Spring shaft clearance
LDB Clear passage width with ThermoFrame (see page 82)

LDH Clear passage height
 For Parcel, LDH = RM is available on request
LH Track height (see table)
LZ Clear frame dimensions (from 1500)
MFR Space for fitting the door on request
MH Fitting height
OFF Finished floor level
RM Grid height
SLH Bottom section height
STH Min. headroom (see page 56)
WE Shaft centre from lintel (see table)

Please note:

1. Select required track height according to the door height in table.
2. A technical inspection is required!

Notes:

- Only for door types SPU F42 and APU F42
- Operators WA 300 and WA 500 are only possible in press-and-hold operation.
- A frame below the door division is not possible
- Application range from LZ 1500–3000 mm and RM from 3125–4250 mm.
- Doors with wicket door are not possible.
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.

Notes:

- Follow the instructions for the approved size ranges for door types SPU F42 and APU F42 from the table!

Table: track heights (LH)

Door height	Min. LH	Max. LH
RM		
4250	5810	On request
4125	5685	
4000	5560	
3875	5435	
3750	5310	
3625	5185	On request
3500	5060	
3375	4935	
3250	4810	
3125	4685	

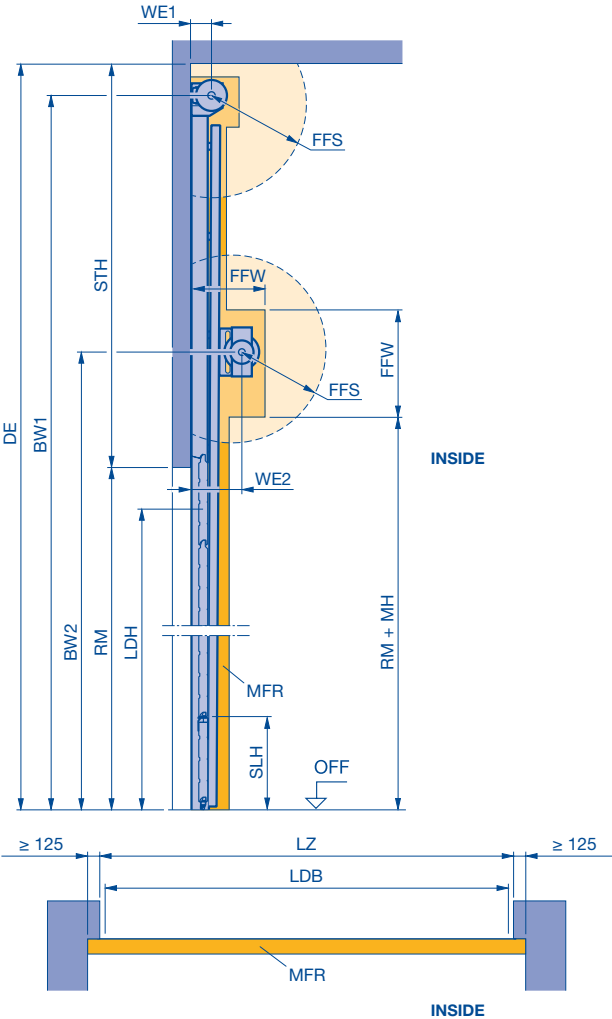
	B	BW1	BW2	DA	WE1	WE2
HP 4	LH - 366	LH + 231	RM + 940	min. 370	160	315
HP 5				min. 400	180	

DAL	FD	FFS	FFW	LDH	MH	SLH
DE - LH - 15	DA + 65	Min. 90° (745)	460 × 850	RM - SLH	400	500 – 1450

Track application: VP

Vertical track application

for sectional door Parcel with high- and low-mounted torsion spring shaft



BW	Position of shaft support, BW1 on request	LZ	Clear frame dimensions (from 1500)
DE	Ceiling height, on request	MFR	Space for fitting the door, on request
FFS	Spring compression clearance	MH	Fitting height
FFW	Spring shaft clearance	OFF	Finished floor level
LDB	Clear passage width with ThermoFrame (see page 82)	RM	Grid height
LDH	Clear passage height For Parcel, LDH = RM is possible	SLH	Bottom section height
		STH	Headroom, on request
		WE	Shaft centre from lintel

Please note:
A technical inspection is required!

- Notes:**
- Only for door types SPU F42 and APU F42
 - Operators WA 300 and WA 500 are only possible in press-and-hold operation.
 - A frame below the door division is not possible
 - Application range from LZ 1500–3000 mm and RM from 3125–4250 mm.
 - Doors with wicket door are not possible.
 - The clearance required for fitting the door must be free of supply lines, heater fans, etc.

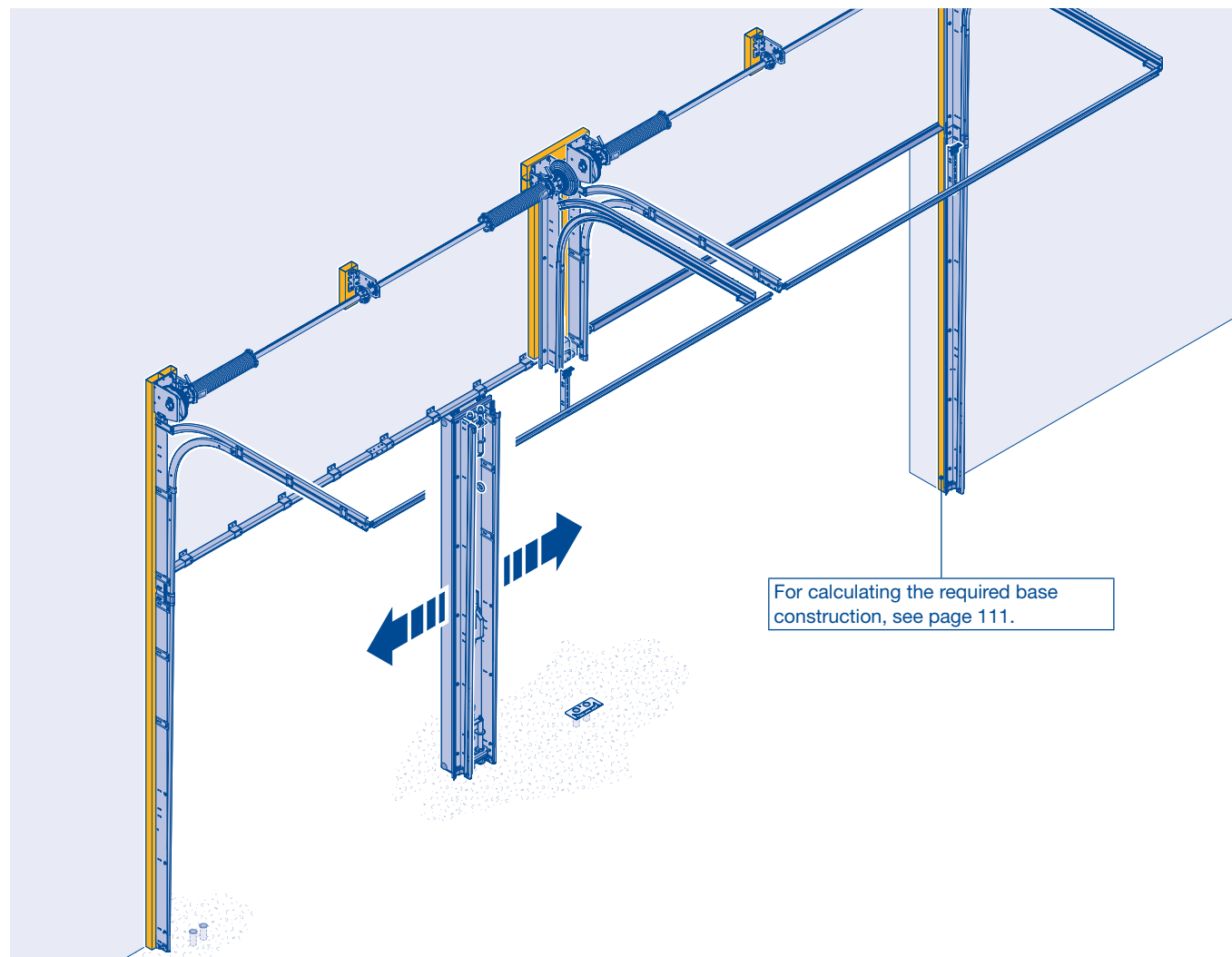
Observe min. sideroom, see page 82.

	BW2	FFS	FFW	LDH	MH	SLH	WE1	WE2
VP 6							160	
VP 7	RM + 940	Min. 90° (745)	460 x 850	RM - SLH	400	500 – 1450	180	315

Movable centre support

for industrial sectional doors with an opening width of up to 24 m

- This door combination allows for particularly large openings to be closed conveniently and economically by coupling two or three industrial sectional doors.
- This door combination is especially economical during transport, fitting and service.
- For complete opening, the doors are opened and the centre support is then unlocked and pushed to the side.
- The individual doors can also be opened independently of each other so that the opening can also be done in segments.



Notes:

- Only with track application H.
- All door types possible.
- Depth 42 mm, application areas from LZ ≤ 8000 mm and RM ≤ 7500 mm.
- Please refer to the technical manual for the depths!
- Version with plastic frame shoe.
- Wicket door version only possible with high threshold rail.
- Panel as lintel fitting not possible.
- No special versions (e.g. chamfered bottom section, lowered section, Parcel) possible.

Notes:

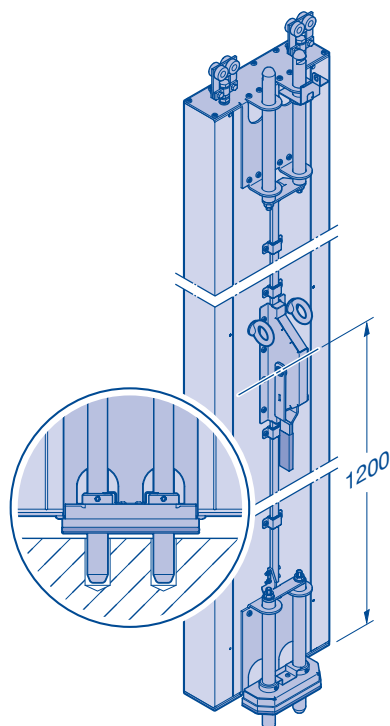
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.
- Factory drawing required. Approval only with drawing! Information about the structural conditions is relevant.
- Door fitting recommended for unheated buildings. Air permeability, acoustic value and thermal resistance – npd (not specified)
- Wind class 2 – 4 according to the technical manual.
- Available in standard programme!

LZ Clear frame dimensions
RM Grid height

Movable centre support

for industrial sectional doors with an opening width of up to 24 m

Centre support



Notes:

- Aluminium material version based on RAL 9002, exterior with line design.
- Wet coating on exterior and interior surface.
- Width: 375 mm
- Height: RM – 60 mm
- Shifting direction for a centre support, outer left or outer right.
- Shifting direction for two centre supports, outer left or outer right.
- The shifting direction depends on which door system the centre support is ordered for.
- Cladding of the centre support is not possible.

Door operation:

- Only power-driven with WA 500 FU.
- Flange, chain box and emergency operation are only possible with the exterior door systems.
- A centre door system can only be used as a chain box with fitting example 5.

Safety equipment:

- Safety edge is only possible with optosensors or 8K2 strip.

Operator accessories:

- A radio activating kit must be used for the centre door system!
- Further accessories on request.

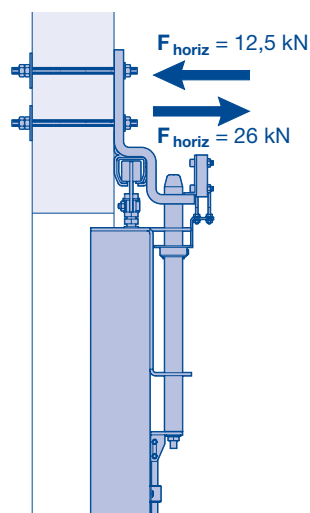
Fitting:

- The door system with centre support may only be assembled when the floor is finished.
- A base construction of 60 mm is required in the area of the door frame and the spring shaft.

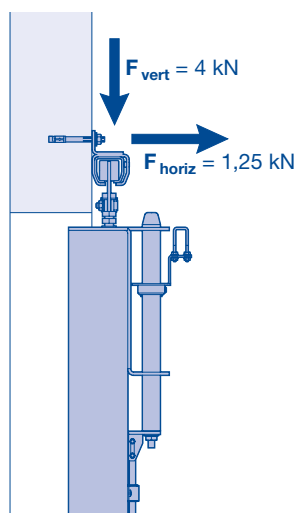
Recommendation: Industrial additional post 120/60/2.

Maximum load

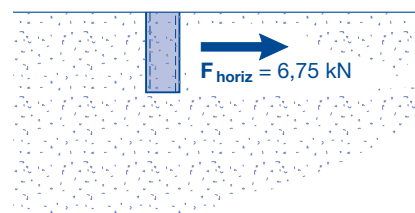
– on the head plate



– on the track



– per floor sleeve

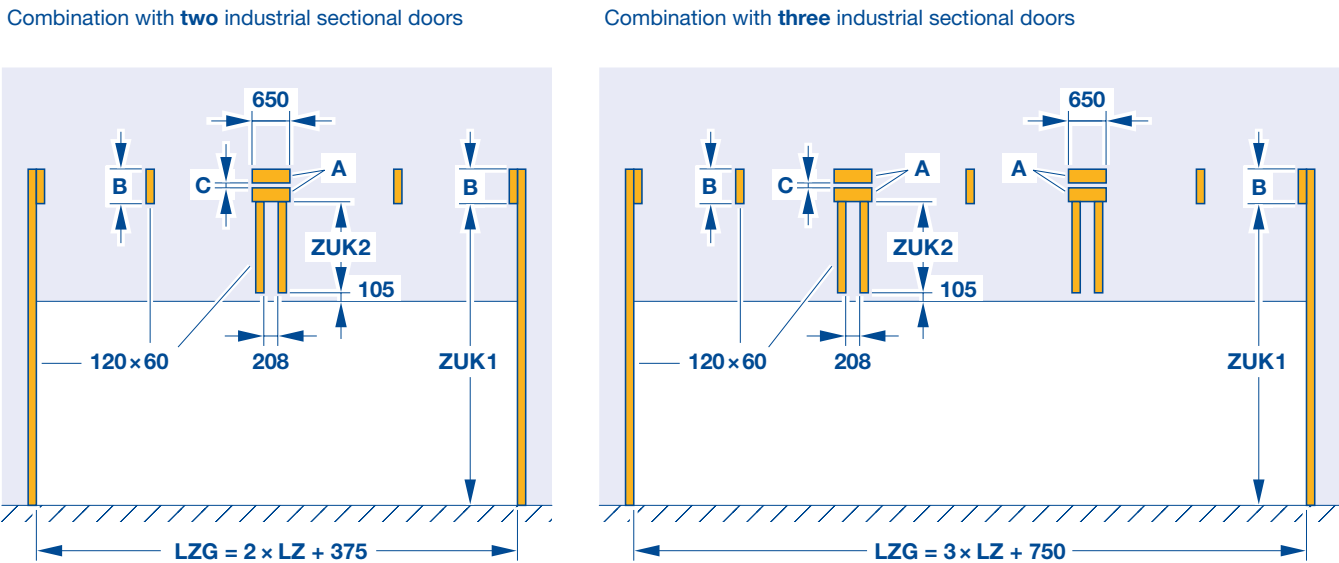


F_{horiz}	Horizontal force at the fixing point
F_{vert}	Vertical force at the fixing point
LZ	Clear frame dimensions
RM	Grid height

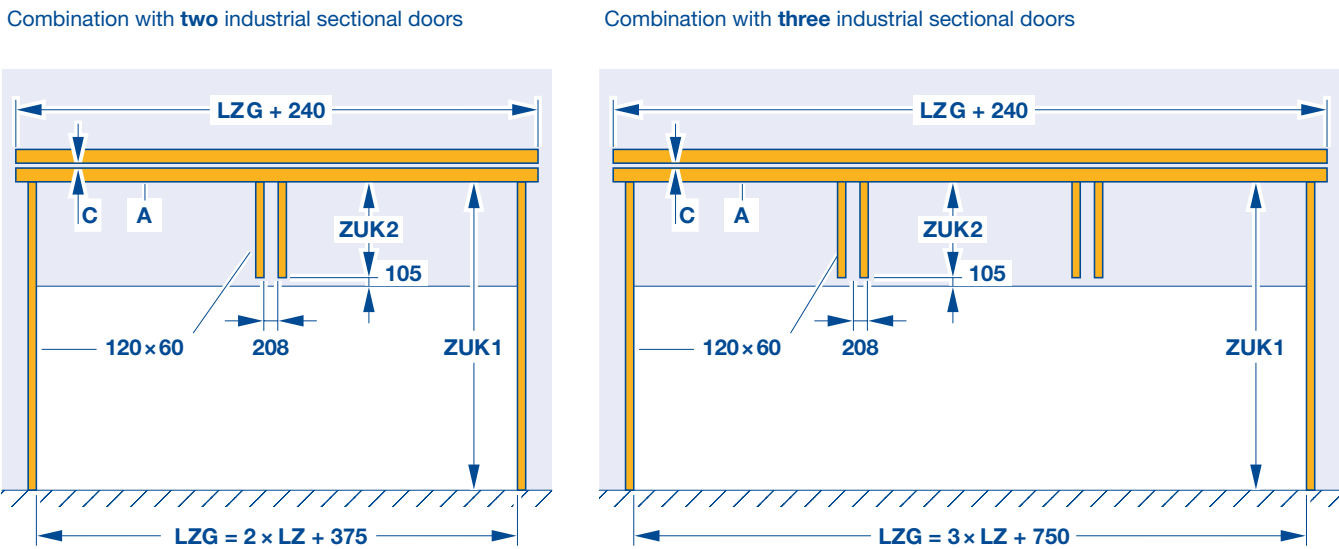
Movable centre support

Possible variants of the base construction

Segmented base construction



Solid base construction



Note:
Position of shaft support **BW**, see page 112.

	A	B	C	ZUK 1	ZUK 2
Simple spring shaft	120 × 60	300	0	BW – 205	BW – RM – 250
Double spring shaft	200 × 60	500	45	BW – 170	BW – RM – 220

BW

LZ

LZG

RM

Position of shaft support
Clear frame dimensions
Total clear frame dimensions
Grid height

ZUK

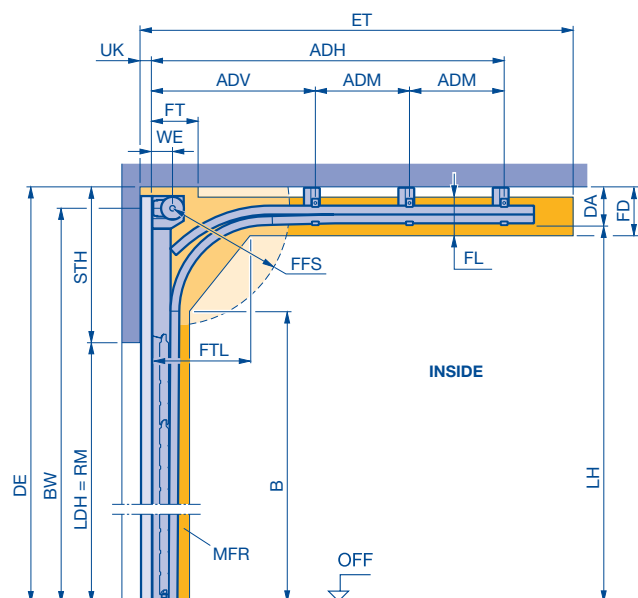
Door frame, base construction

Track application: H

High-lift track application

for sectional doors for and with centre support

Detailed technical data can be found in the product configurator.



ADH	Distance to rear ceiling anchor	LDBG	Total clear passage width
ADM	Distance to central ceiling anchor	LDH	Clear passage height
ADV	Distance to front ceiling anchor	LH	Track height
B	Start of double radius	LZ	Clear frame dimensions (from 1200)
BW	Position of shaft support	LZG	Total clear frame dimensions
DA	Min. distance to ceiling	MFR	Space for fitting the door
DE	Min. ceiling height	Mn₁	Number of centre supports
ET	Min. distance back	MST	Centre support
F	Fix	OFF	Finished floor level
FD	Min. ceiling clearance	RM	Grid height
FFS	Spring compression clearance	STH	Min. headroom
FL	Track clearance	UK	Base construction
FT	Clearance for door operation	V	Variable
FTL	Clearance door section in the double radius	WE	Shaft centre from lintel
LDB	Clear passage width with ThermoFrame (see page 83)		

Please note:

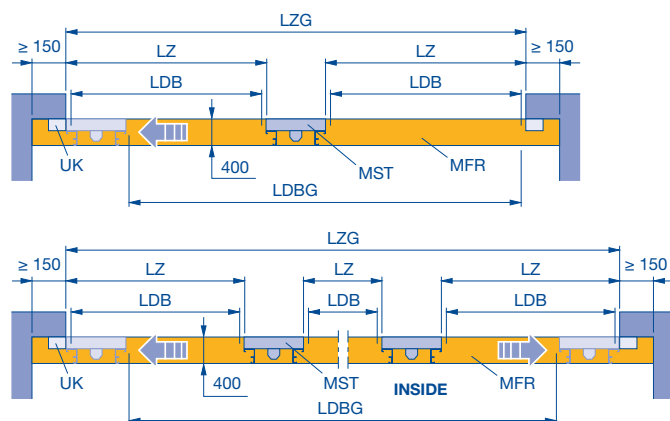
- A technical inspection is required!
- Select required track height according to the door height in table.

Notes:

- The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account.
- The clearance required for fitting the door must be free of supply lines, heater fans, etc.
- If using the spring buffer below the track, the clear height under the track in the area of the spring buffer is reduced by 70 mm.
- Be sure to observe the permissible size ranges of the door types on pages 10–15 and 18–35!
- ALR F42 Vitraplan and ALR F42 Glazing on request.

Table: track heights (LH)

RM	F	Min. LH	Max. LH		RM	F	Min. LH	Max. LH
5000	RM + 740	6345	8350					
4875	5615	6220	8225					
4750	5490	6095	8100					
4625	5365	5970	7975					
4500	5240	5845	7850					
4375	5115	5720	7725					
4250	4990	5595	7600					
4125	4865	5470	7475					
4000	4740	5345	7350					
3875	4615	5220	6985					
3750	4490	5095	6735					
3625	4365	4970	6485					
3500	4240	4845	6235					
3375	4115	4720	5985					
3250	3990	4595	5735					
3125	3865	4470	5485					
3000	3740	4345	5235					
2875	3615	4220	4985					
2750	3490	4095	4735					
2625	3365	3970	4485					
2500	3240	3845	4235					
2375	3115	3720	3985					
2250	2990	3595	3735					
2125	2865	3470	3485					
2000	2740	-	-					



		STH	WE	DA	BW
H 4	F	1060		320	RM + 890
	V	LH - RM + 290	160 + 60	290	LH + 150
H 5	F	1090 (1265*)		350 (525*)	RM + 920
	V	LH - RM + 350 (525*)	180 + 60	340 (515*)	LH + 180
H 8	F	1130 (1290*)		390 (550*)	RM + 945
	V	LH - RM + 390 (550*)	205 + 60	380 (540*)	LH + 195

* with double spring shaft

F = RM + 740, (LH - RM) < 1345, version generally with spring buffers underneath the track

V = (LH - RM) ≥ 1345

B	DE	FD	FFS	FL	FT	FTL
LH - 513	STH + RM	DA + 65	Min. 90° (745)	250	2 x WE	650 + 60

ET**		
H 4 / H 5 / H 8	2 x RM - LH + 692 + 60	Shaft operator WA 500 FU

** Simplified calculation

Clear passage:

- LDH = RM
- LDBG = LZG - (Mn₁ × 400)

Infill overview

Determination of the roof slope

Infill overview	SPU F42	APU F42	APU F42 Thermo	ALR F42	ALR F42 Thermo	ALR F42 Glazing	ALR F42 Vitraplan	ALR F42 Vitraplan AT
Infill type	Abbreviation							
Clear synthetic pane, 3 mm [1] [3]	FK	FK	–	FK	–	–	–	–
Crystal structure synthetic pane, 3 mm [1] [3]	KR	KR	–	KR	–	–	–	–
Clear polycarbonate pane, 6 mm [3]	P	P	–	P	–	–	–	–
Multiple moulded pane, 16 mm, U _g = 1.9 W/m²·K [3]	S	S	S	S	S	–	–	–
PU infill, 26 mm with aluminium sheet cover Stucco-textured on both sides, U _g = 1.0 W/m²·K	–	FU	FU	FU	FU	–	–	FU
PU infill, 26 mm with smooth, anodised aluminium sheet cover on both sides, U _g = 1.0 W/m²·K	–	XU	XU	XU	XU	–	–	XU
PU infill, 26 mm with smooth, anodised aluminium sheet cover on both sides, U _g = 1.2 W/m²·K [6]	TU	TU	TU	TU	TU	–	–	–
Clear synthetic double pane, 26 mm, U _g = 2.6 W/m²·K	S2	S2	S2	S2	S2	–	S2	–
Synthetic double pane, crystal structure, 26 mm, U _g = 2.6 W/m²·K	U2	U2	U2	U2	U2	–	U2	–
Synthetic double pane, grey tinted, 26 mm, U _g = 2.6 W/m²·K	A2	A2	A2	A2	A2	–	A2	–
Synthetic double pane, white tinted (opal), 26 mm, U _g = 2.6 W/m²·K	M2	M2	M2	M2	M2	–	–	–
Clear synthetic triple pane, 26 mm, U _g = 1.9 W/m²·K	S3	S3	S3	S3	S3	–	S3	–
Synthetic triple pane, crystal structure, 26 mm, U _g = 1.9 W/m²·K	U3	U3	U3	U3	U3	–	U3	–
Synthetic triple pane, grey tinted, 26 mm, U _g = 1.9 W/m²·K	A3	A3	A3	A3	A3	–	A3	–
Synthetic triple pane, white tinted (opal), 26 mm, U _g = 1.9 W/m²·K	M3	M3	M3	M3	M3	–	–	–
Clear polycarbonate double pane, 26 mm, U _g = 2.7 W/m²·K	C2	C2	C2	C2	C2	–	C2	–
Single pane made of laminated safety glass, 6 mm [2] [3]	VG	VG	–	VG	–	VG	–	–
Double pane made of single-pane safety glass, 26 mm, U _g = 2.6 W/m²·K [2]	E2	E2	E2	E2	E2	E2	–	–
Double pane made of laminated safety glass P4A, 26 mm, U _g = 1.3 W/m²·K [6]	W2	W2	W2	W2	W2	–	–	–
Climatic double pane made of single-pane safety glass, 26 mm, U _g = 1.1 W/m²·K [2]	G2	G2	G2	G2	G2	G2	–	–
Stainless steel expanded mesh, 5 mm [1] [3] [4]	SE	SE	–	SE	–	–	–	–
Perforated stainless steel sheet, 1.5 mm, perforation 8 mm [1] [3] [4]	LB	LB	–	LB	–	–	–	–
Prepared for on-site infill [5]	BS	BS	BS	BS	BS	–	–	–

- [1]

Note: max. field width 1230 mm, if required add an additional field
- [2]

Only for door width up to 6000 mm; on request
- [3]

Not possible for aluminium frames in Thermo version
- [4]

No colour coating possible
- [5]

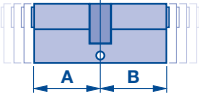
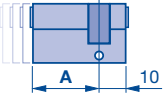
On request; infill weight and thickness must be specified (anodised glazing beads required)
- [6]

Only for NT60 and NT80 Thermo with RC2 version and door version with glazing type A

Determining the roof slope in increments of two degrees (a°)								
								
a°	%	X (mm)	a°	%	X (mm)	a°	%	X (mm)
2	3,49	34,9	16	28,67	286,7	30	57,74	577,4
4	6,99	69,9	18	32,49	324,9	32	62,49	624,9
6	10,51	105,1	20	36,40	364,0	34	67,46	674,6
8	14,05	140,5	22	40,40	404,0	36	72,66	726,6
10	17,63	176,3	24	44,52	445,2	38	78,13	781,3
12	21,26	212,6	26	48,77	487,7	40	83,91	839,1
14	24,93	249,3	28	53,17	531,7	42	90,05	900,5
						44	96,57	965,7
						46	103,55	1035,5

Overview

Profile cylinders

Product type	 Double cylinder	 Half cylinder	Glazing frame	Door lock		Wicket door	Optional extras	Operator accessories
	PC length (L): Interior (A) + exterior (B)	PC length (L): Closing side (A) + blind side	Infill	Standard	Recessed		Bolt lock	Key switch
SPU F42 APU F42 APU F42 Thermo	L = 35 + 30	—	—	—	—	●	●	—
	—	L = 30 + 10	—	—	●	●	—	●
	—	L = 35 + 10	—	—	—	—	●	—
	—	L = 70 + 10	—	●	—	—	—	—
ALR F42 ALR F42 Thermo	L = 35 + 30	—	—	—	—	●	●	—
	—	L = 30 + 10	—	—	—	●	—	●
	—	L = 35 + 10	—	—	—	—	●	—
	—	L = 55 + 10	FU and XU	●	—	—	—	—
NT 60	L = 40 + 40	L = 40 + 10	—	—	—	—	—	—
NT 80	L = 35 + 70	L = 35 + 10	—	—	—	—	—	—
NT 60 RC2	L = 35 + 40*	—	—	—	—	—	—	—
NT 80 RC2	L = 35 + 60*	—	—	—	—	—	—	—

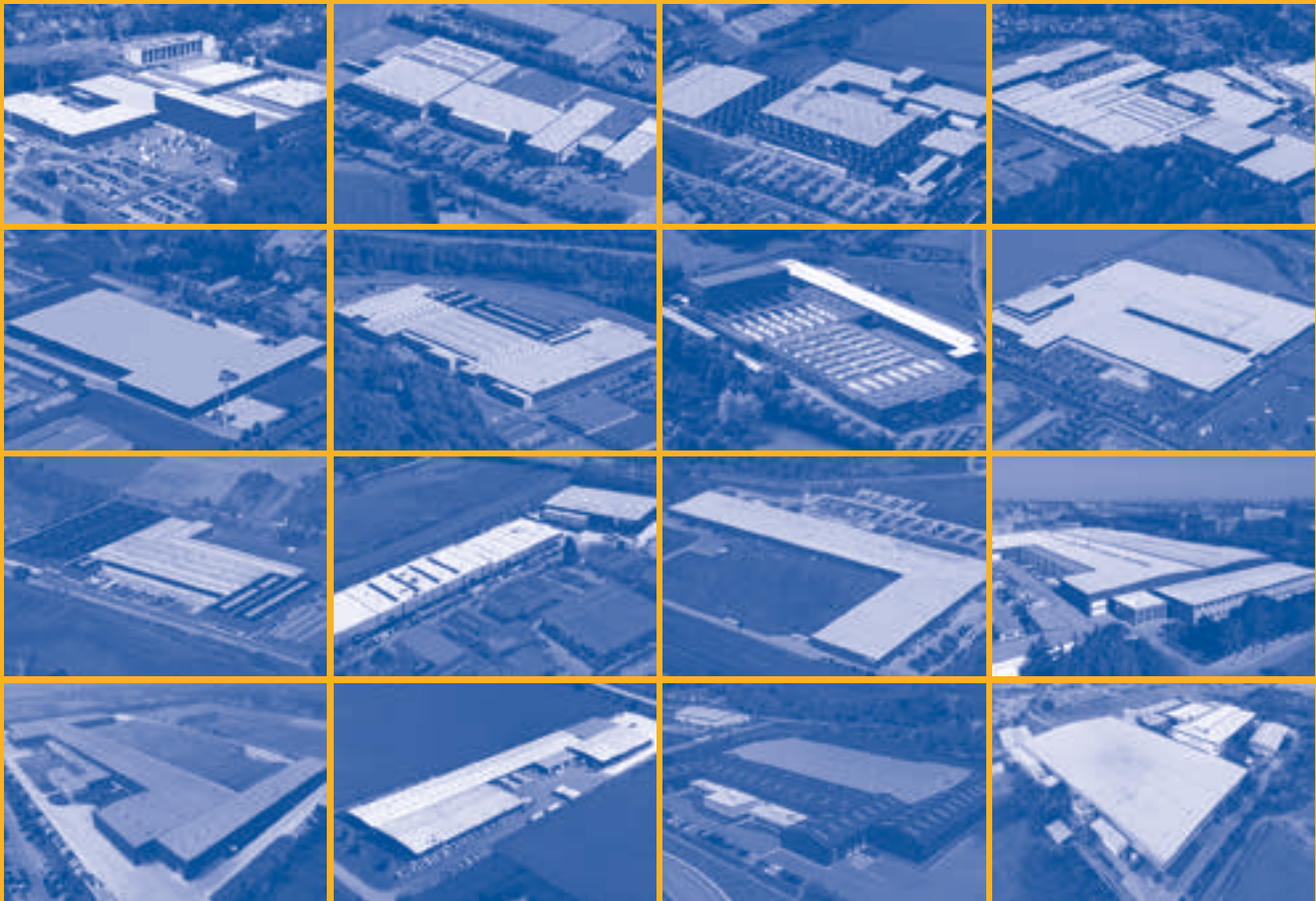
* Profile cylinder in acc. with DIN 1303
(digit 7 = grade 5, digit 8 = grade 1)

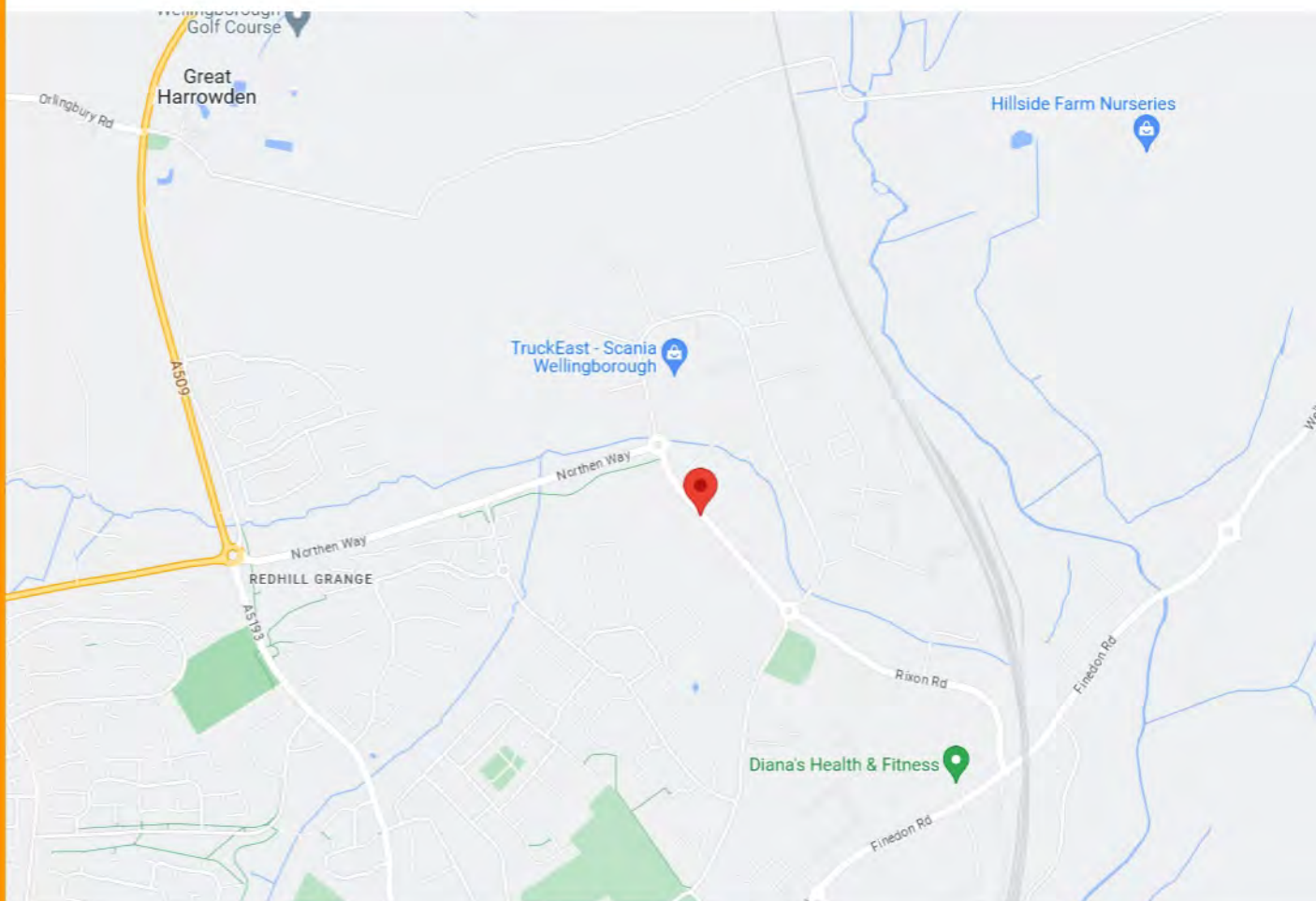
Notes

A large rectangular area filled with a fine grid of blue lines, resembling graph paper, intended for taking notes.

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 the latest production technologies. Furthermore, our employees work intensively on new products, continual further developments and improvements to details. The results are patents and one-of-a-kind products you can depend on.





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