Hormann Industrial Sectional Doors 67mm Technical Manual

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Technical manual

As of 01.10.2024

Industrial sectional doors

Series 60
Depth 67 mm

HÖRMANN

Contents

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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.

Product descriptions

Door type	Door leaf / wicket door
Sectional door SPU 67 Thermo: double-skinned steel sectional door with thermal break, Stucco-textured / Micrograin, door sections 625 and 750 mm high	
Door leaf	Door sections made of double-skinned, PU-foamed steel sections with thermal break (made of hot-galvanized steel). 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 67 mm. All door sections without finger trap protection. Surface protection with high-quality exterior coil coating and interior primer coating.
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. **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): For grid heights 2000, 2125 and 2250 mm, the clear opening height must not be lower than the door height.**
Glazing	Glazing frames made of anodised aluminium extrusion profiles in the version with thermal break or alternatively sections with compound glazing are possible within the indicated fitting area. 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 67 Thermo: double-skinned steel sectional door with thermal break, Stucco-textured / Micrograin, door sections 375 and 500 mm high	
Door leaf	Door sections made of double-skinned, PU-foamed steel sections with thermal break (made of hot-galvanized steel). 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 67 mm. All door sections without finger trap protection. Surface protection with high-quality exterior coil coating and interior primer coating.
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. **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): For grid heights 2000 and 2125 mm, the clear opening height must not be lower than the door height.**
Glazing	Glazing frames made of anodised aluminium extrusion profiles in the version with thermal break or alternatively sections with compound glazing are possible within the indicated fitting area. 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 67 Thermo: glazed aluminium sectional door with thermal break with steel bottom section	
Door leaf	Bottom section made of double-skinned, PU-foamed steel section with thermal break (made of hot-galvanized steel), 750 mm (standard) or 1500 mm high, Stucco-textured on 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 anodised aluminium extrusion profiles with thermal break. Depth: 67 mm. All door sections without finger trap protection. Infill: Clear synthetic triple pane, 51 mm (S 3).
Wicket door	Depending on the door type, made of anodised aluminium extrusion profiles 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. **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 67 Thermo: glazed aluminium sectional door with thermal break	
Door leaf	Door sections of anodised aluminium extrusion profiles with thermal break. Depth: 67 mm. All door sections without finger trap protection. Bottom door section made of PU-foamed infill with 51 mm Stucco-textured aluminium sheet cover on both sides (FU), other door sections with 51 mm clear synthetic triple panes (S3).
Wicket door	Depending on the door type, made of anodised aluminium extrusion profiles 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. **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 67 Thermo Glazing: extensive glazing, aluminium sectional door with thermal break, real glass	
Door leaf	Door sections of anodised aluminium extrusion profiles with thermal break. Depth: 67 mm. All door sections without finger trap protection. All door section infills with double panes made of single-pane safety glass 26 mm. Uniform infill heights.

Frame / track application
Enclosed, moulded angle frame, made of hot-galvanized steel with screwed track and double radius 510 mm.

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Product descriptions

Door lock	
Manually operated	Inside locking using a shootbolt, rotary latch (for track applications with low-mounted torsion spring shaft on request) or 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 for N, ND, NS, NK, NA, NH, GD and GS track applications are designed for at least 25,000 closing cycles and for all other track applications for at least 50,000 closing cycles.
For version with direct drive operator via the operator, 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 (not for version with direct drive operator) *)
- Power-driven doors with break-in-resistant anti-lift kit

* European patent

Notice on trap guard:
To comply with the safety requirements of door product standard DIN EN 13241-1, the following door systems require an operator and a light grille HLG 550. The light grille must be fitted in the reveal to secure gaps resulting during door travel. This safeguarding must take place up to a height of 2500 mm above FFL or a different permanent access level:

Door type:		SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing
Track applications:	N, NA, ND, NS, NK	Door height ≤ 3125	Door height ≤ 3165		
	NH, GD, GS, GK	Door height ≤ 3000	Door height ≤ 3040		
	L, LD	Door height ≤ 3250	Door height ≤ 3290		
	H, HA, HD, HS, HK, VS after technical inspection	Door height ≤ 3125	Door height ≤ 3165		

Seals

Bottom seal made of 1-chamber profile internally and 3-chamber EPDM profile externally with flexible adjustment lip, side seal, lintel seal, intermediate seal between the door sections.

Note regarding surface coating

For the following colours, sectional doors SPU 67 Thermo, APU 67 Thermo and ALR 67 Thermo with door widths from 5010 to 5500 mm in combination with track applications NH, GD, GS, GK, H, HD, HS, HK, HA, HU, RD, RS, RK, V, VA, VS, VU and WS are equipped with door leaf reinforcements to reduce the possibility of 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

			SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing
Resistance to wind load EN 12424	Door without wicket door	LZ ≤ 4000, class	4 [5) 10)]	4 [5)]	4 [5)]	4 [4) 5)]
		LZ ≤ 8000, class	3 [6) 10)]	3 [6)]	3 [6)]	3 [4.6)]
		LZ > 8000, class	3 [6) 10)]	3 [6)]	3 [6)]	–
		LZ > 9000, class	2 [7) 10)]	2 [7)]	2 [7)]	–
	Door with wicket door	LZ ≤ 4000, class	4 [6) 10)]	4 [6)]	4 [6)]	–
		LZ > 4000, class	2 [7) 10)]	2 [7)]	2 [7)]	–
Water tightness EN 12425	Door without / with wicket door, class		3 (70 Pa)	3 (70 Pa)	3 (70 Pa)	3 (70 Pa)
Air permeability EN 12426	Door without wicket door, class		2 [8)]	2 [8)]	2 [8)]	2 [8)]
	Door with wicket door, class		1 [9)]	1 [9)]	1 [9)]	1 [9)]
Acoustic value EN 717-1	Door without wicket door R_w = . . . dB		25 [11)]	23	23 (30 [1)])	30 [1)]
	Door with wicket door R_w = . . . dB		24 [11)]	22 (29 [1)])	22 (29 [1)])	–
Thermal resistance EN 13241-1, appendix B EN 12428	Door without wicket door, U = W/m²·K [2)]		0.62 (0.51 [3)])	2.1 (2.0 [3)])	2.2 (2.1 [3)])	–
	- Optional PU sandwich infill, U = W/m²·K [2)]		–	1.4 (1.3 [3)])	1.4 (1.3 [3)])	–
	- Optional quadruple panes U = W/m²·K [2)]		–	1.8 (1.7 [3)])	1.9 (1.8 [3)])	–
	- Optional climatic double panes made of single-pane safety glass, U = W/m²·K [2)]		–	1.6 (1.5 [3)])	1.7 (1.6 [3)])	1.8 (1.7 [3)])
	- Optional double glazing made of single-pane safety glass U = W/m²·K [2)]		–	2.6 (2.5 [3)])	2.7 (2.6 [3)])	3.0 (2.9 [3)])
	Door with wicket door, U = W/m²·K [2)]		0.82 (0.75 [3)])	2.3 (2.2 [3)])	2.4 (2.3 [3)])	–
	- Optional quadruple panes U = W/m²·K [2)]		–	2.0 (1.9 [3)])	2.1 (2.1 [3)])	–
	– Section, U = W/m²·K		0,33	–	–	–
Design	Self-supporting		●	●	●	●
	Depth, mm		67	67	67	67
Door sizes	Max. width mm, LZ		10000	10000	10000	5500
	Max. height mm, RM		7500	7500	7500	4000
Space requirement	From page 39					
Material, door leaf	Steel, double-skinned, 67 mm		●	●	–	–
	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		○	●	●	●
	Aluminium, high-quality coating in RAL to choose		○	○	○	○
Door leaf reinforcement	From LZ mm		5510	5510	5510	3340
	Note regarding surface coating, see page 5 from LZ mm		5010	5010	5010	3340
Wicket door			○	○	○	–
Side door	Matching the door		○	○	○	○
Glazings	Section window type A		○	–	–	–
	Section window type D		○	–	–	–
	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 features	Anti-lift kit		●	●	●	●
	RC2 security features		○	–	–	–
Safety features in acc. with EN 13241	Side trap guard		●	●	●	●
	Safety catch		●	●	●	●
Fastening options	Concrete		●	●	●	●
	Steel		●	●	●	●
	Brickwork		●	●	●	●
	Others on request		○	○	○	○

● Standard
○ Optional
1) With optional double pane (single-pane safety glass)
2) For a door surface of 5000 × 5000 mm
3) Optionally with ThermoFrame
4) Door width up to 5500 mm
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
8) Class 2 = 12 m³/m²h
9) Class 1 = 24 m³/m²h
10) Lower class rating may apply for doors with compound glazing
11) For doors without glazing frame

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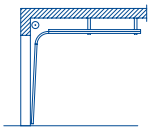
Overview of track applications

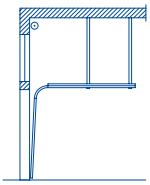
N



Normal track application

A WA 500 FU is required for track application N3 with operator!

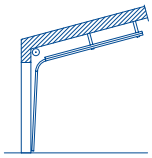
NA



As with track application N, with high-mounted torsion spring shaft

Door height RM ≤ 5000 mm

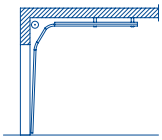
ND



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°!

NS

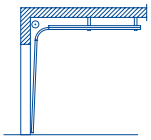


As with track application N with double radius

Door height RM ≤ 5000 mm

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

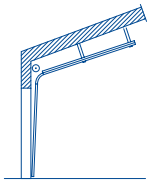
NH



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!

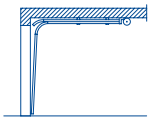
GD



As with track application NH with inclination (maximum 28°)
Double radius 361 mm

Door height RM ≤ 5000 mm

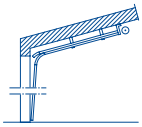
L



Low headroom track application

Door height RM ≤ 5000 mm

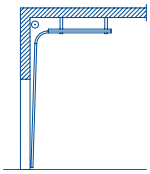
LD



As with track application L with inclination (maximum 30°)

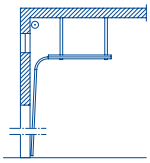
Door height RM ≤ 5000 mm

H



High-lift track application

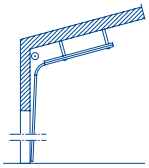
HA



As with track application H, with high-mounted torsion spring shaft

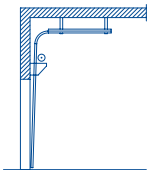
Door height RM ≤ 3500 mm

HD



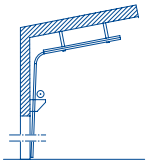
As with track application H with inclination (maximum 30°)

HU



As with track application H, with low-mounted torsion spring shaft

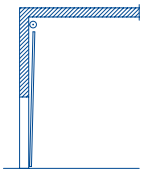
RD



As with track application HU, with inclination

Door height RM ≤ 5000 mm

V



Vertical track application
(Additional hand pulley required for manually operated doors!)

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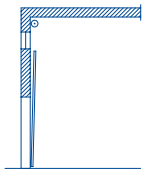
Overview of track applications

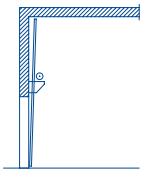
VA



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

Door height RM ≤ 3500 mm

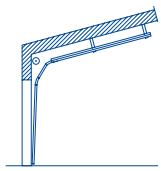
VU



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

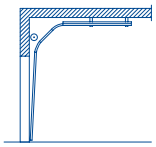


As with track application NS, but the degree values of both radii are adapted to the situation on-site

Door height RM ≤ 5000 mm

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

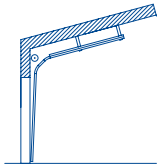
GS



As with track application NH with double radius

Door height RM ≤ 5000 mm

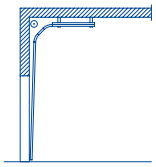
GK



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

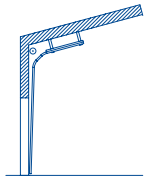
Door height RM ≤ 5000 mm

HS



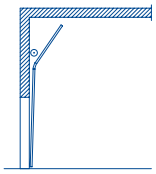
As with track application H with double radius

HK



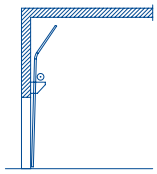
As with track application H, with double radius and inclination

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!)

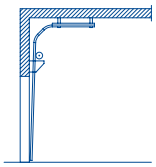
WS



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 ≥ 2250 mm

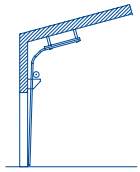
RS



As with track application HU with double radius

Door height RM ≤ 5000 mm

RK



As with track application HU, with double radius and inclination

Door height RM ≤ 5000 mm

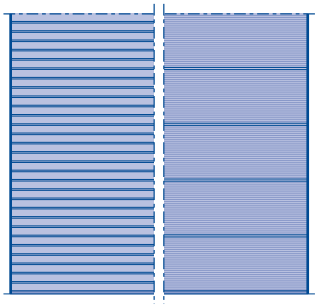
Sectional door SPU 67 Thermo

Double-skinned steel sectional door with thermal break

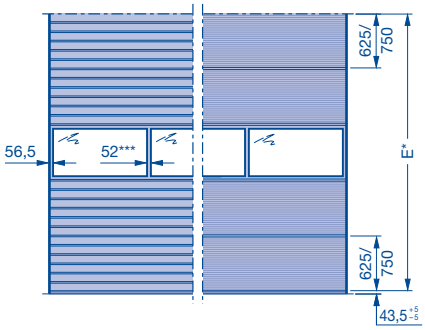
Stucco-textured / Micrograin

Door sections 625 and 750 mm high

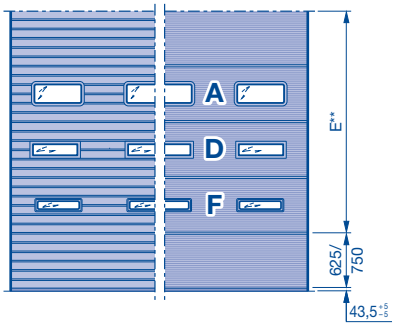
External views



Glazing frame



Compound window type A, D, F



For dimensions of the compound windows, see page 15.

E* Fitting area for frames with glazing
E** Fitting area for compound glazing

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	n_1 TH 625		n_1 TH 750
7500	3	–		10
7375	3	1	+	9
7250	3	2	+	8
7125	3	3	+	7
7000	3	4	+	6
6875	3	5	+	5
6750	3	–		9
6625	3	1	+	8
6500	3	2	+	7
6375	3	3	+	6
6250	3	4	+	5
6125	3	5	+	4
6000	3	–		8
5875	3	1	+	7
5750	3	2	+	6
5625	3	3	+	5
5500	3	4	+	4
5375	3	5	+	3
5250	3	–		7
5125	3	1	+	6
5000	2	2	+	5
4875	2	3	+	4
4750	2	4	+	3
4625	2	5	+	2
4500	2	–		6
4375	2	1	+	5
4250	2	2	+	4
4125	2	3	+	3
4000	2	4	+	2
3875	2	5	+	1
3750	2	–		5
3625	2	1	+	4
3500	1	2	+	3
3375	1	3	+	2
3250	1	4	+	1
3125	1	5		–
3000	1	–		4
2875	1	1	+	3
2750	1	2	+	2
2625	1	3	+	1
2500	1	4		–
2375	1	4****		–
2250	1	–		3
2125	1	1	+	2
2000	1	2	+	1
1875	1	3		–

1	2		3	4	5	Number of infills / fields per aluminium frame
[1]	2		3	4	5	Number of compound glazings per door section

1500 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 with wicket door see pages 26 – 28.
- Doors with more than 2 glazing frames on request.
- Versions with glazing S4, U4, A4, B4, M4, C4 on request.

On request: torsion spring shaft or direct drive operator

Versions with glazing frame on request

For notice on trap guard, see page 5

[1] **Type A** → 1670, **Type D, F** → 1630
n_1 No. of door sections
RM Grid height
LZ Clear frame dimensions **(from 1200)**
→ up to LZ
SPB Rail width
TH Door section height
******** Top door section 500 mm

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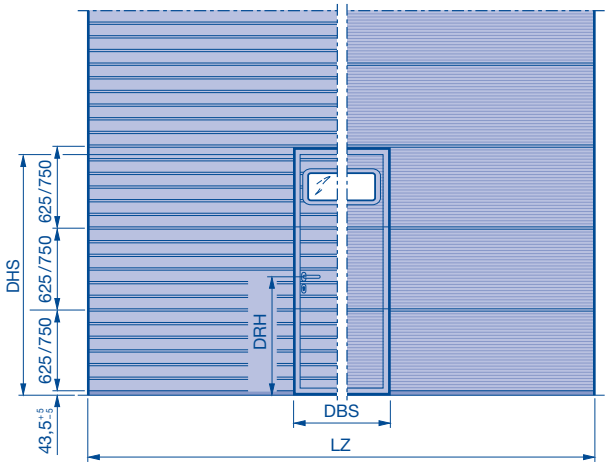
Sectional door SPU 67 Thermo with wicket door and trip-free threshold

Double-skinned steel sectional door with thermal break

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.

Wicket door clear passage width (DBS) = 905 mm*

* For a door width of 1750 - 1840 mm, the clear passage width is 798 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!

RM	SH	n_1 TH 625		n_1 TH 750	DHS
Range 3	7500	–		10	2195
	7375	1	+	9	2195
	7250	2	+	8	2195
	7125	3	+	7	2195
	7000	4	+	6	2195
	6875	5	+	5	2195
	6750	–		9	2195
	6625	1	+	8	2195
	6500	2	+	7	2195
	6375	3	+	6	2195
	6250	4	+	5	2195
	6125	5	+	4	2195
	6000	–		8	2195
	5875	1	+	7	2195
	5750	2	+	6	2195
	5625	3	+	5	2195
	5500	4	+	4	2195
	5375	5	+	3	2195
	5250	–		7	2195
	5125	1	+	6	2195
Range 2	5000	2	+	5	2195
	4875	3	+	4	2195
	4750	4	+	3	2195
	4625	5	+	2	2070
	4500	–		6	2195
	4375	1	+	5	2195
	4250	2	+	4	2195
	4125	3	+	3	2195
	4000	4	+	2	2070
	3875	5	+	1	1945
	3750	–		5	2195
	3625	1	+	4	2195
Range 1	3500	2	+	3	2195
	3375	3	+	2	2070
	3250	4	+	1	1945
	3125	5		–	1820
	3000	–		4	2195
	2875	1	+	3	2195
	2750	2	+	2	2070
	2625	3	+	1	1945
	2500	4		–	1820
	2375	4***		–	1820
	2250	–		3	2115
	2125	1	+	2	1990
	2000	2	+	1	1865

Number of infills / fields per glazing frame	3	4	5	
Number of compound glazings per door section**	2	3	4	5

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 26 – 28.
- Doors with more than 2 glazing frames on request.
- Versions with glazing S4, U4, A4, B4, M4, C4 on request.

On request: torsion spring shaft or direct drive operator
Versions with glazing frame on request
For notice on trap guard, see page 5
Glazings on request
Range change
Range change with glazing frame

n_1	No. of door sections
DHS	Clear passage heights of wicket door to grid height
SH	Threshold height **(rising from 5 to 10)**
SPB	Rail width
TH	Door section height
DHS	Wicket door clear passage height
RM	Grid height
DBS	Wicket door clear passage width
DRH	Lever height
LZ	Clear frame dimensions **(from 1500)**
***	Top door section 500 mm

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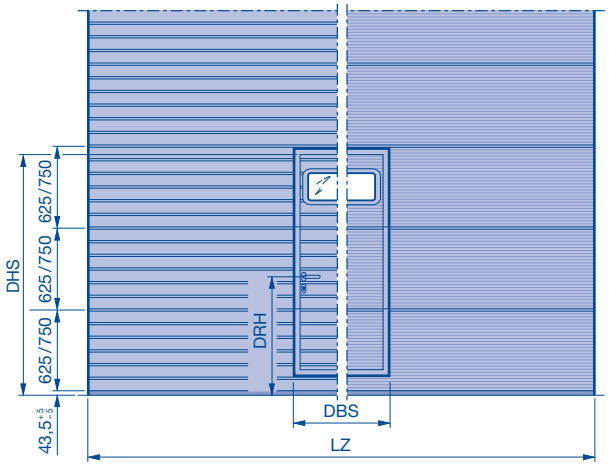
Sectional door SPU 67 Thermo with wicket door and threshold rail

Double-skinned steel sectional door with thermal break

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.

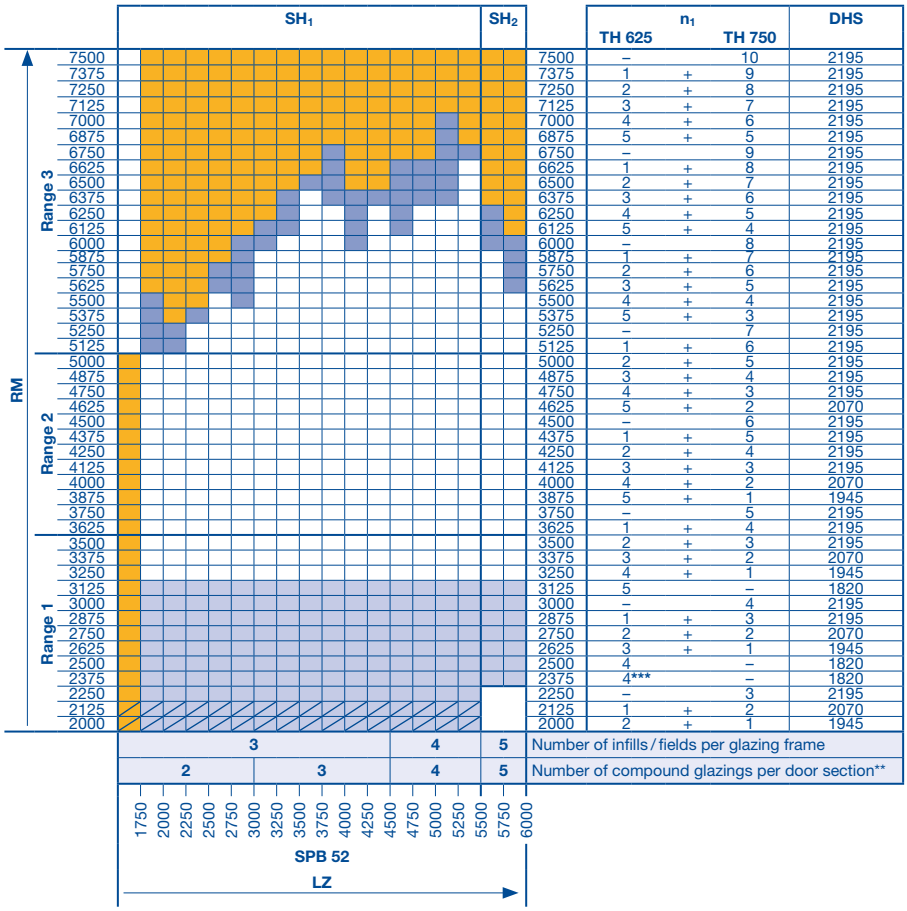
Wicket door clear passage width (DBS) = 905 mm*

* For a door width of 1750 - 1840 mm, the clear passage width is 798 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. Possible for any door width in 10 mm increments. Intermediate heights using glazing frames or a shortened top door section above the wicket door are possible!



	n_1			DHS
	TH 625		TH 750	
7500	–		10	2195
7375	1	+	9	2195
7250	2	+	8	2195
7125	3	+	7	2195
7000	4	+	6	2195
6875	5	+	5	2195
6750	–		9	2195
6625	1	+	8	2195
6500	2	+	7	2195
6375	3	+	6	2195
6250	4	+	5	2195
6125	5	+	4	2195
6000	–		8	2195
5875	1	+	7	2195
5750	2	+	6	2195
5625	3	+	5	2195
5500	4	+	4	2195
5375	5	+	3	2195
5250	–		7	2195
5125	1	+	6	2195
5000	2	+	5	2195
4875	3	+	4	2195
4750	4	+	3	2195
4625	5	+	2	2070
4500	–		6	2195
4375	1	+	5	2195
4250	2	+	4	2195
4125	3	+	3	2195
4000	4	+	2	2070
3875	5	+	1	1945
3750	–		5	2195
3625	1	+	4	2195
3500	2	+	3	2195
3375	3	+	2	2070
3250	4	+	1	1945
3125	5		–	1820
3000	–		4	2195
2875	1	+	3	2195
2750	2	+	2	2070
2625	3	+	1	1945
2500	4		–	1820
2375	4***		–	1820
2250	–		3	2195
2125	1	+	2	2070
2000	2	+	1	1945

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 26 – 28.
- Doors with more than 2 glazing frames on request.
- Versions with glazing S4, U4, A4, B4, M4, C4 on request.
- For versions with real glass infill in the wicket door, the threshold height SH2 begins at LZ 4510 mm.

On request: torsion spring shaft or direct drive operator
Versions with glazing frame on request
For notice on trap guard, see page 5
Glazings on request

n_1	No. of door sections
DHS	Clear passage heights of wicket door to grid height
SH_1	Threshold height **(220)**
SH_2	Threshold height **(317)**, bottom door section with 250 mm aluminium bottom section,
SPB	Rail width
TH	Door section height
DHS	Wicket door clear passage height
RM	Grid height
DBS	Wicket door clear passage width
DRH	Lever height
LZ	Clear frame dimensions **(from 1500)**
***	Top door section 500 mm

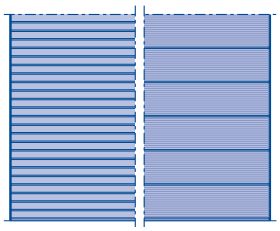
Sectional door SPU 67 Thermo

Double-skinned steel sections

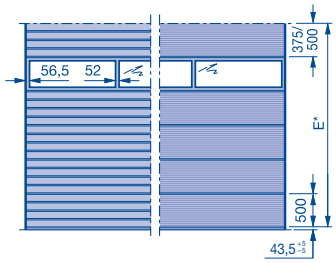
Double-skinned steel sectional door with thermal break

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

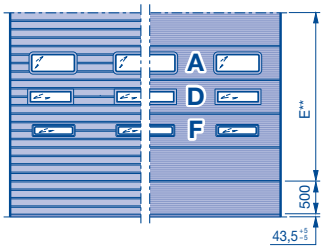
External views



Glazing frame



Compound window type A, D, F



For dimensions of the compound windows, see page 15.

E* Fitting area for frame 500 with glazing
E** Fitting area for compound glazing

Size range

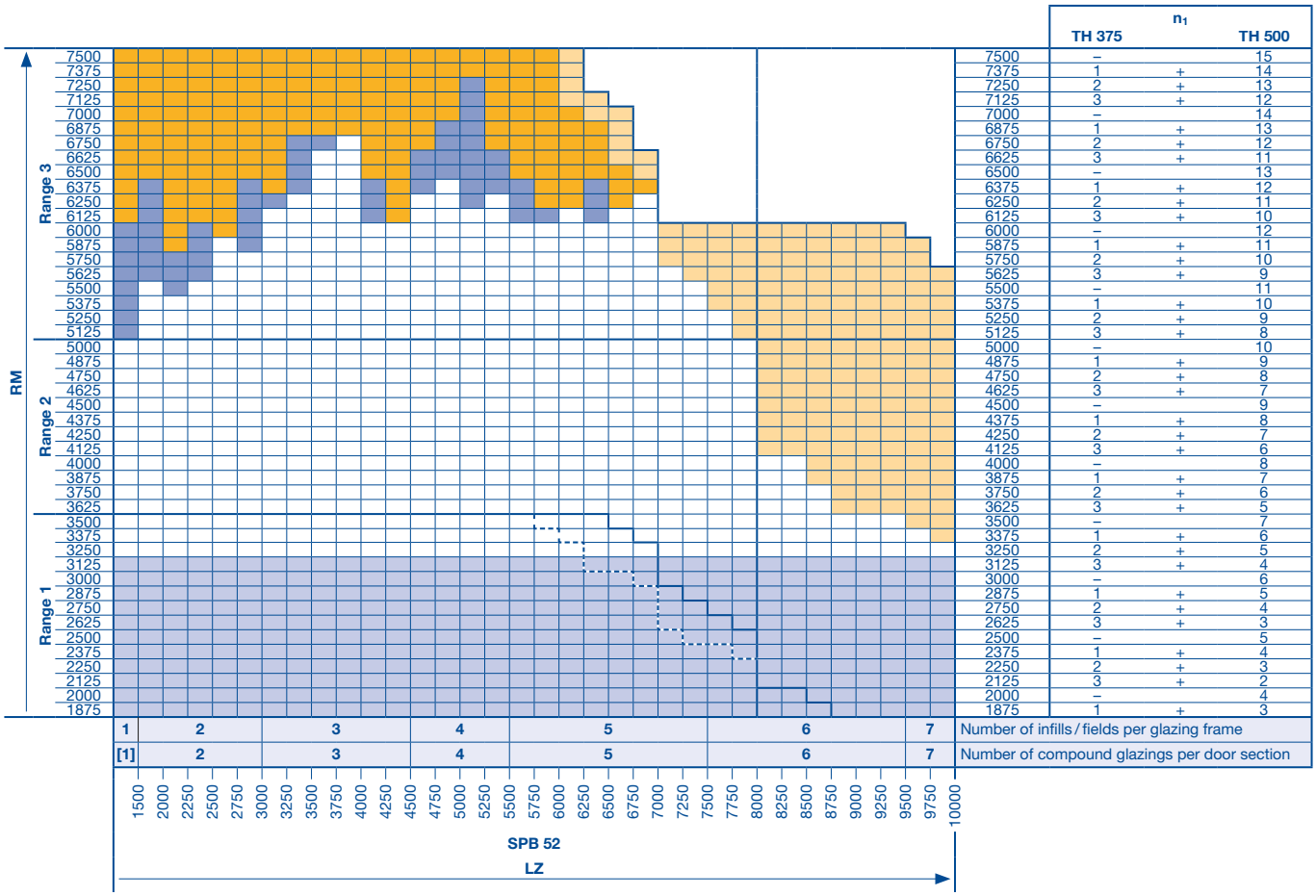
The validity tables with the size range shown are based on the standard door type version (see product description). In case of deviations, the valid size ranges in the product configurator must be taken into account. Any door width in 10 mm increments possible. Intermediate heights using glazing frames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

Notes:

- For a view of the matching appearance with doors with wicket door see pages 26 – 28.
- Doors with more than 2 glazing frames on request.
- Versions with glazing S4, U4, A4, B4, M4, C4 on request.

On request: torsion spring shaft or direct drive operator
On request and only direct drive operator S140 with track application H
Versions with glazing frame on request
For notice on trap guard, see page 5
Range change
Range change with glazing frame

[1] **Type A** → 1670, **Type D, F** → 1630
n_1 No. of door sections
RM Grid height
LZ Clear frame dimensions **(from 1200)**
→ up to LZ
SPB Rail width
TH Door section height



RM	n_1 TH 375	n_1 TH 500
7500	–	15
7375	1 +	14
7250	2 +	13
7125	3 +	12
7000	–	14
6875	1 +	13
6750	2 +	12
6625	3 +	11
6500	–	13
6375	1 +	12
6250	2 +	11
6125	3 +	10
6000	–	12
5875	1 +	11
5750	2 +	10
5625	3 +	9
5500	–	11
5375	1 +	10
5250	2 +	9
5125	3 +	8
5000	–	10
4875	1 +	9
4750	2 +	8
4625	3 +	7
4500	–	9
4375	1 +	8
4250	2 +	7
4125	3 +	6
4000	–	8
3875	1 +	7
3750	2 +	6
3625	3 +	5
3500	–	7
3375	1 +	6
3250	2 +	5
3125	3 +	4
3000	–	6
2875	1 +	5
2750	2 +	4
2625	3 +	3
2500	–	5
2375	1 +	4
2250	2 +	3
2125	3 +	2
2000	–	4
1875	1 +	3

1	2	3	4	5	6	7	Number of infills / fields per glazing frame
[1]	2	3	4	5	6	7	Number of compound glazings per door section

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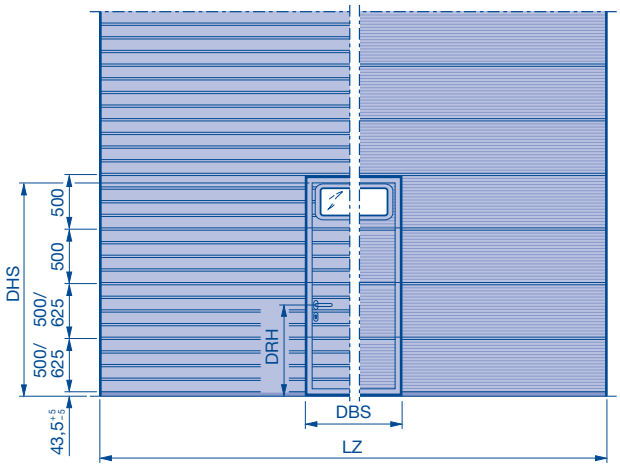
Sectional door SPU 67 Thermo with wicket door and trip-free threshold

Double-skinned steel sectional door with thermal break

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.

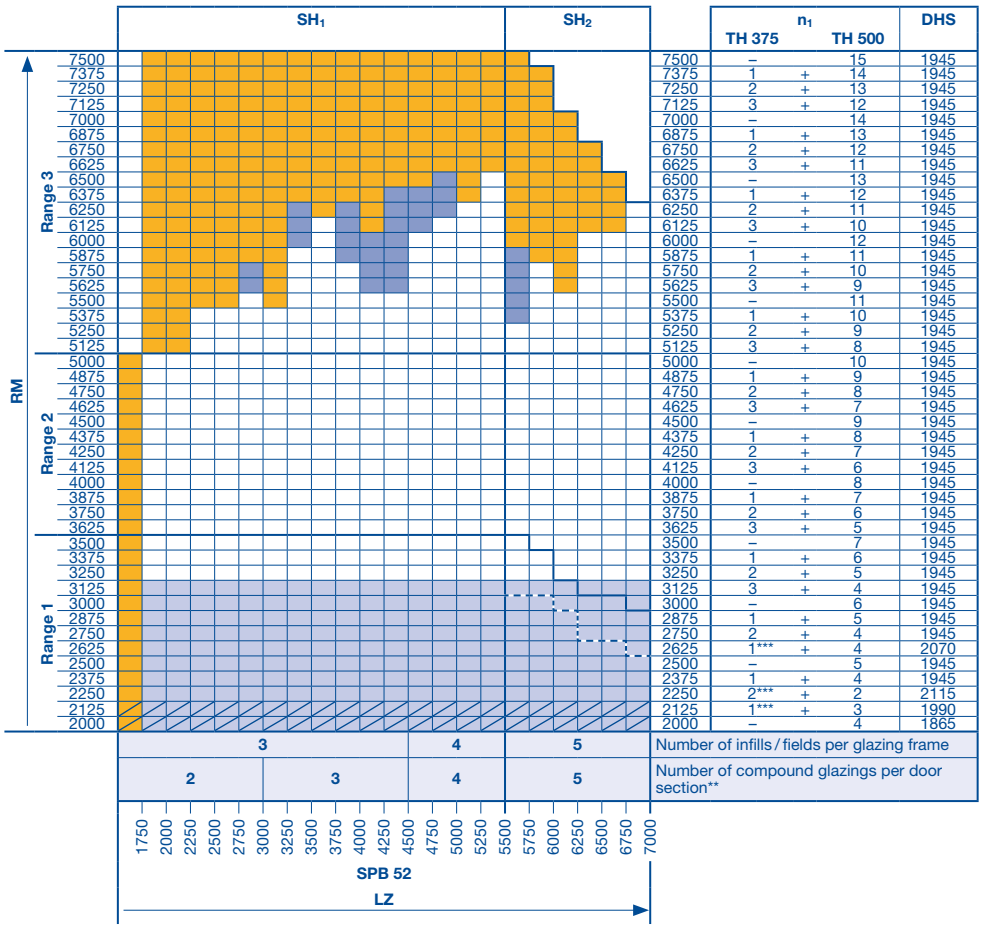
Wicket door clear passage width (DBS) = 905 mm*

* For a door width of 1750 - 1840 mm, the clear passage width is 798 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

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!



RM	n_1 TH 375		n_1 TH 500	DHS
7500	–		15	1945
7375	1	+	14	1945
7250	2	+	13	1945
7125	3	+	12	1945
7000	–		14	1945
6875	1	+	13	1945
6750	2	+	12	1945
6625	3	+	11	1945
6500	–		13	1945
6375	1	+	12	1945
6250	2	+	11	1945
6125	3	+	10	1945
6000	–		12	1945
5875	1	+	11	1945
5750	2	+	10	1945
5625	3	+	9	1945
5500	–		11	1945
5375	1	+	10	1945
5250	2	+	9	1945
5125	3	+	8	1945
5000	–		10	1945
4875	1	+	9	1945
4750	2	+	8	1945
4625	3	+	7	1945
4500	–		9	1945
4375	1	+	8	1945
4250	2	+	7	1945
4125	3	+	6	1945
4000	–		8	1945
3875	1	+	7	1945
3750	2	+	6	1945
3625	3	+	5	1945
3500	–		7	1945
3375	1	+	6	1945
3250	2	+	5	1945
3125	3	+	4	1945
3000	–		6	1945
2875	1	+	5	1945
2750	2	+	4	1945
2625	1***	+	4	2070
2500	–		5	1945
2375	1	+	4	1945
2250	2***	+	2	2115
2125	1***	+	3	1990
2000	–		4	1865

Number of infills / fields per glazing frame

Number of compound glazings per door section**

Note:

- For a view of the matching appearance with doors without wicket door, see pages 26–28.
- Doors with more than 2 glazing frames on request.
- For versions with real glass infill in the wicket door, the threshold height **SH2** begins at LZ 4510 mm.
- Versions with glazing S4, U4, A4, B4, M4, C4 on request.

On request: torsion spring shaft or direct drive operator
Versions with glazing frame on request
For notice on trap guard, see page 5
Glazings on request
Range change
Range change with glazing frame

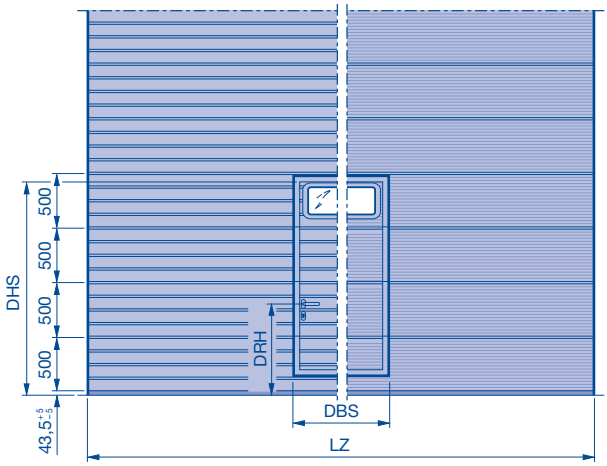
n_1	No. of door sections
DHS	Clear passage heights of wicket door to grid height
RM	Grid height
LZ	Clear frame dimensions **(from 1500)**
SH_1	Threshold height **(rising from 5 to 10)**
SH_2	Threshold height **(approx. 13)**
SPB	Rail width
TH	Door section height
DHS	Wicket door clear passage height
DBS	Wicket door clear passage width
DRH	Lever height
***	Bottom door section TH = 625

Sectional door SPU 67 Thermo with wicket door and threshold rail

Double-skinned steel sectional door with thermal break

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.

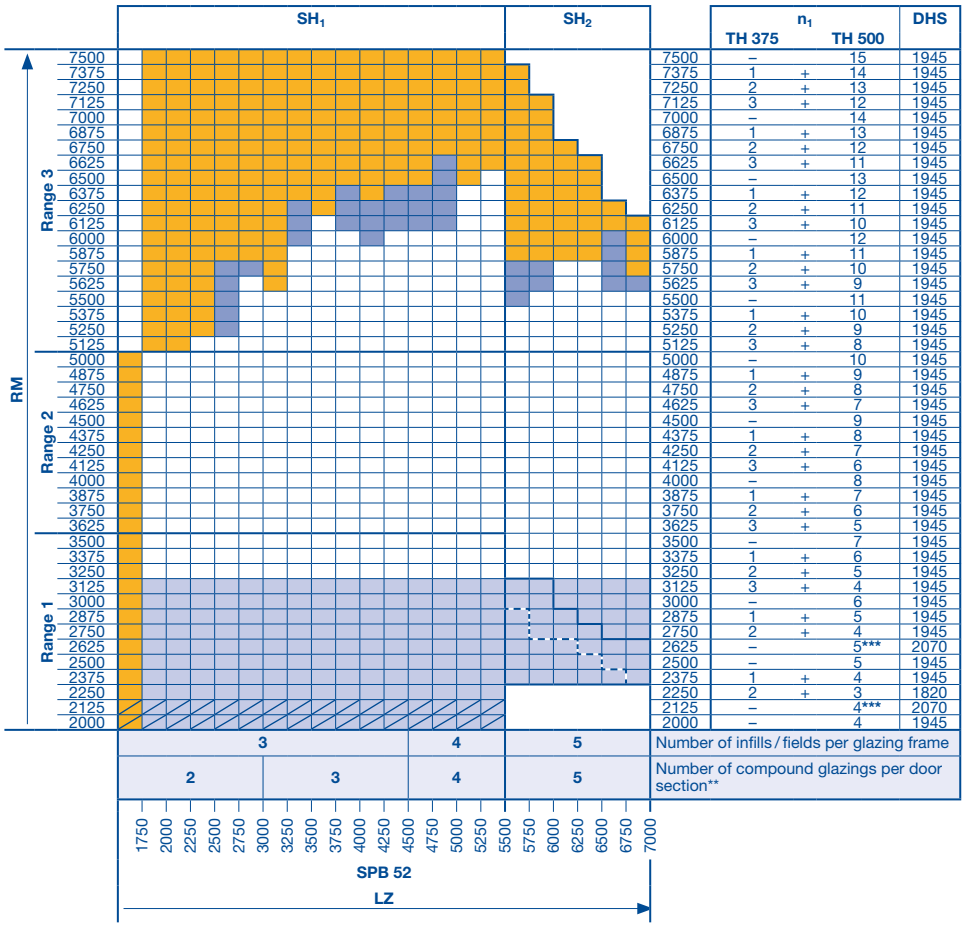
Wicket door clear passage width (DBS) = 905 mm*

* For a door width of 1750 - 1840 mm, the clear passage width is 798 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 SH_2)

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!



	n_1 TH 375		n_1 TH 500	DHS
7500	–		15	1945
7375	1	+	14	1945
7250	2	+	13	1945
7125	3	+	12	1945
7000	–		14	1945
6875	1	+	13	1945
6750	2	+	12	1945
6625	3	+	11	1945
6500	–		13	1945
6375	1	+	12	1945
6250	2	+	11	1945
6125	3	+	10	1945
6000	–		12	1945
5875	1	+	11	1945
5750	2	+	10	1945
5625	3	+	9	1945
5500	–		11	1945
5375	1	+	10	1945
5250	2	+	9	1945
5125	3	+	8	1945
5000	–		10	1945
4875	1	+	9	1945
4750	2	+	8	1945
4625	3	+	7	1945
4500	–		9	1945
4375	1	+	8	1945
4250	2	+	7	1945
4125	3	+	6	1945
4000	–		8	1945
3875	1	+	7	1945
3750	2	+	6	1945
3625	3	+	5	1945
3500	–		7	1945
3375	1	+	6	1945
3250	2	+	5	1945
3125	3	+	4	1945
3000	–		6	1945
2875	1	+	5	1945
2750	2	+	4	1945
2625	–		5***	2070
2500	–		5	1945
2375	1	+	4	1945
2250	2	+	3	1820
2125	–		4***	2070
2000	–		4	1945

Number of infills / fields per glazing frame
Number of compound glazings per door section**

Notes:

- From LZ > 5500 mm bottom door section with deviating heights TH = 625 / 750 mm (made of 375 / 500 mm sections and 2 × 125 mm aluminium bottom profile).
- For a view of the matching appearance with doors without wicket door, see pages 26–28.
- Doors with more than 2 glazing frames on request.
- For versions with real glass infill in the wicket door, the threshold height **SH2** begins at LZ 4510 mm.
- Versions with glazing S4, U4, A4, B4, M4, C4 on request.

On request: torsion spring shaft or direct drive operator
Versions with glazing frame on request
For notice on trap guard, see page 5
Glazings on request
Range change
Range change with glazing frame

n_1	No. of door sections
DHS	Clear passage heights of wicket door to grid height
RM	Grid height
LZ	Clear frame dimensions **(from 1500)**
SH_1	Threshold height **(220)**
SH_2	Threshold height **(317)**, bottom door section with 250 mm aluminium bottom section, **glazing from 625 mm**
SPB	Rail width
TH	Door section height
DHS	Wicket door clear passage height
DBS	Wicket door clear passage width
***	Bottom door section TH = 625

Glazing heights for matching external appearance SPU 67 Thermo Stucco-textured / Micrograin

(Centre of window from FFL)

Door section heights 500, 625 and 750 mm

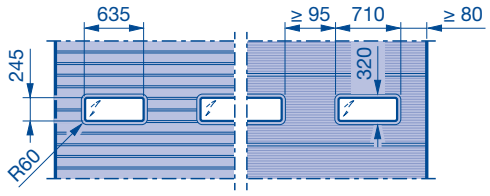
Glazing heights for matching external appearance of compound window type A, D and F.

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				●								

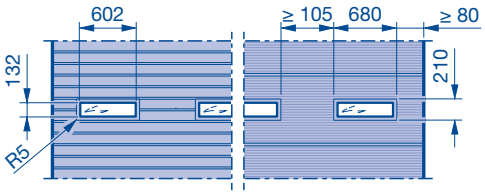
RM Grid height

Dimensions of compound windows

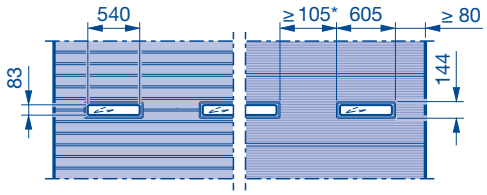
Compound window **type A**, door section height 500, 625 and 750 mm



Compound window **type 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

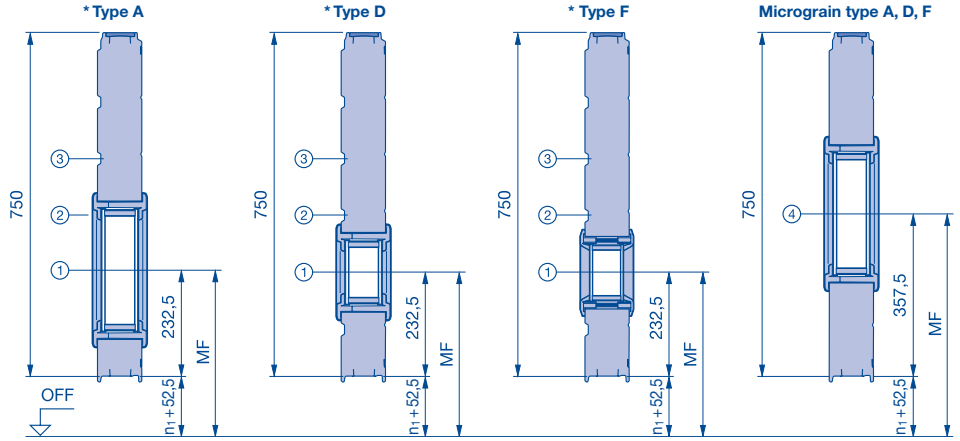
Calculating the glazing heights for SPU 67 Thermo

(Centre of window from FFL)

Door section heights 500, 625 and 750 mm

Calculating the glazing heights for compound glazing type A, D and type F.
See door type for number of door sections and glazing areas! Depth: 67 mm.

Door section height 750 mm

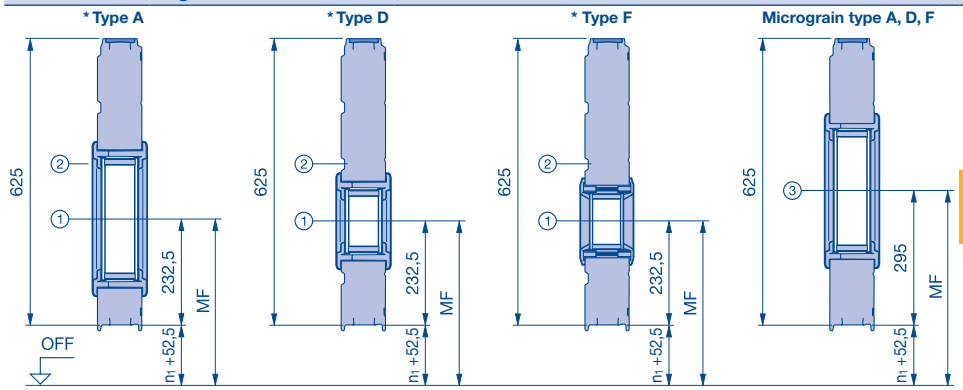


Glazing height type A, D and F

① = n_1 + 52.5 + 232.5
② = n_1 + 52.5 + 232.5 + 125
③ = n_1 + 52.5 + 232.5 + 250
④ = n_1 + 52.5 + 357.5

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

Door section height 625 mm

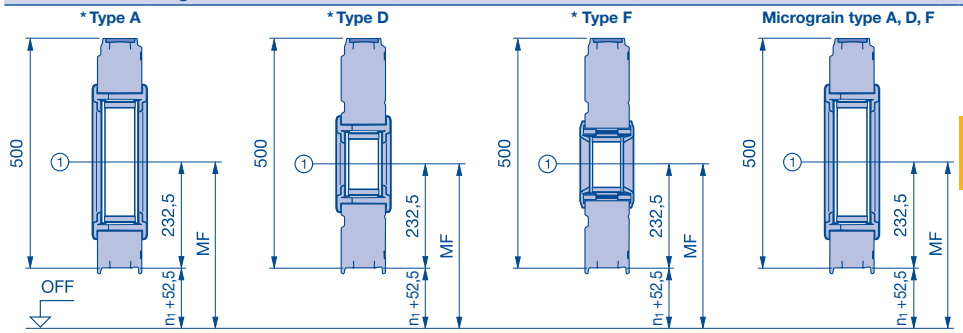


Glazing height type A, D and F

① = n_1 + 52.5 + 232.5
② = n_1 + 52.5 + 232.5 + 125
③ = n_1 + 52.5 + 295

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

Door section height 500 mm

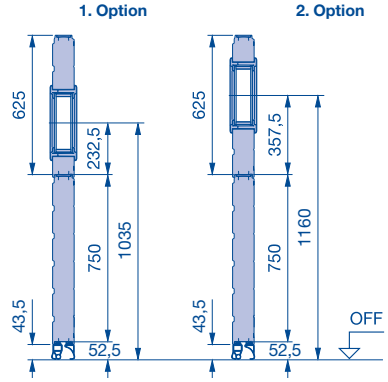


Glazing height type A, D and F

① = n_1 + 52.5 + 232.5

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

Calculation example



Given:

- Door type SPU 67 Thermo; grid height (RM) = 3250 mm; glazing type A; for position see number of door sections below (see table of door types)
- 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 + 52.5 + 232.5 = 1035 mm from FFL
2	in 2rd door section 625 mm at position 2	750 + 52.5 + 232.5 + 125 = 1160 mm from FFL
3	in 3rd door section 625 mm at position 1	750 + 625 + 52.5 + 232.5 = 1660 mm from FFL
4	in 3rd door section 625 mm at position 2	750 + 625 + 52.5 + 232.5 + 125 = 1785 mm from FFL
etc.		

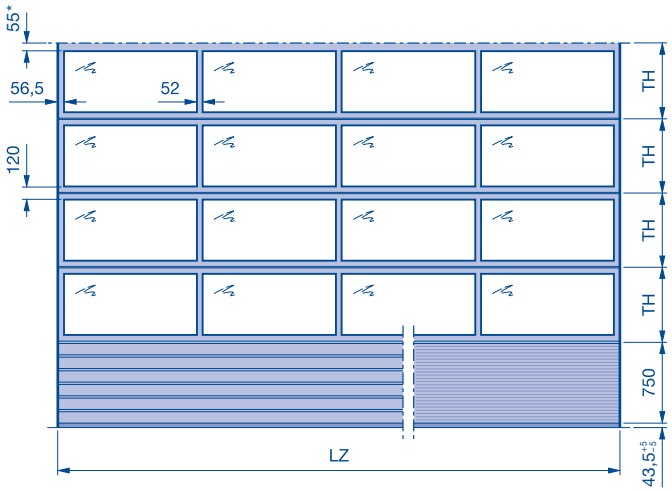
* Stucco / Micrograin
MF Centre of window from FFL
n_1 No. of door sections
OFF Finished floor level

Sectional door APU 67 Thermo

Glazed aluminium sectional door with thermal break

With steel bottom section

Exterior view



$$TH = \frac{\text{Door height} - \text{bottom section height} - 35}{\text{Number of door section frames}}$$

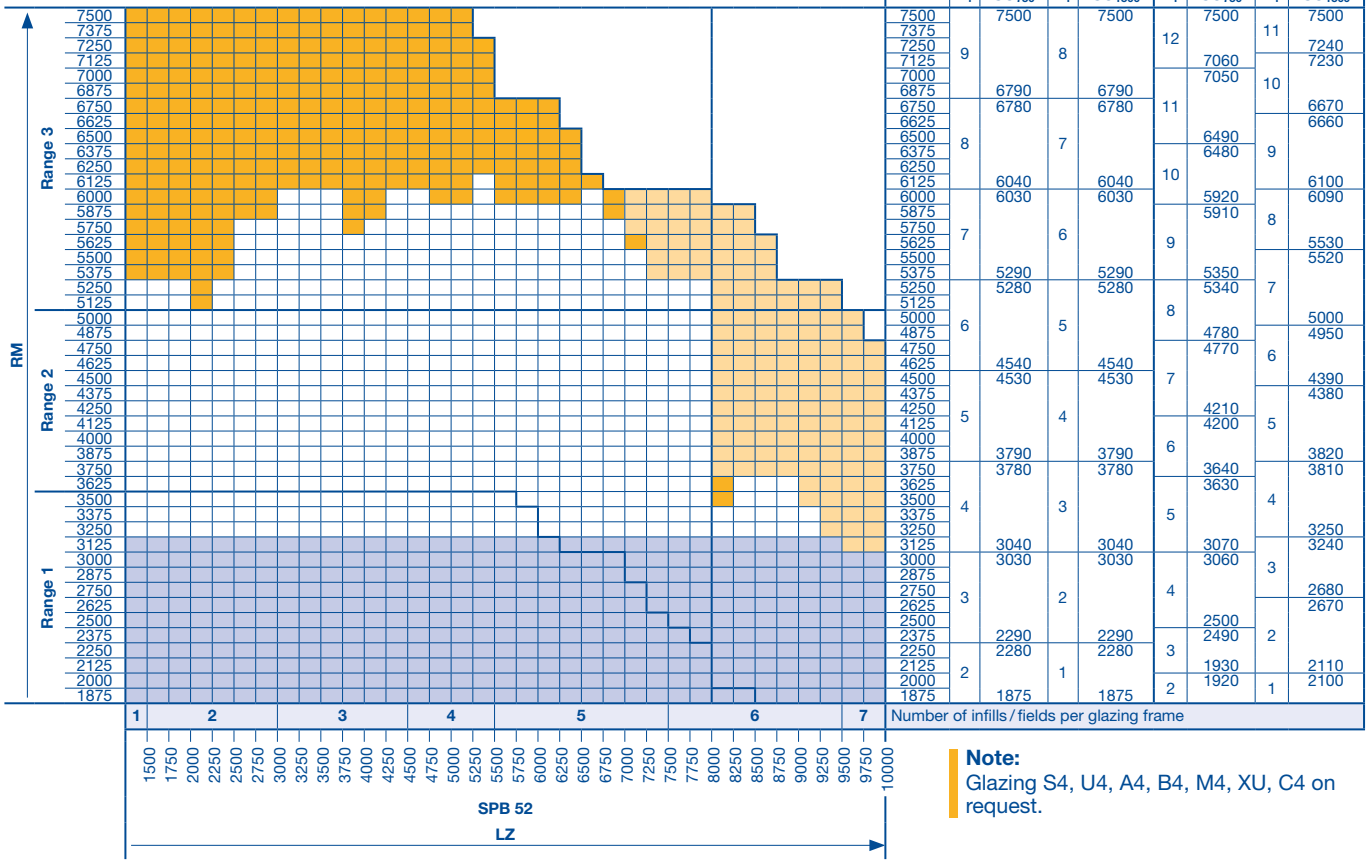
* On request 115 mm in order to match the appearance of a sectional door with wicket door with trip-free threshold with the same door height.

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 26 – 28.

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.



RM	LZ ≤ 8000				LZ > 8000			
	n_1	SO_{750}	n_1	SO_{1500}	n_1	SO_{750}	n_1	SO_{1500}
7500		7500		7500		7500		7500
7375								
7250	9		8		12		11	7500
7125						7060		7240
7000								
6875		6790		6790		7050	10	7230
6750		6780		6780	11			
6625								6670
6500	8		7			6490		6660
6375							9	
6250					10	6480		
6125		6040		6040				6100
6000		6030		6030		5920		6090
5875						5910	8	
5750	7		6		9			
5625								5530
5500							7	5520
5375		5290		5290		5350		
5250		5280		5280		5340		
5125					8			
5000	6		5					5000
4875						4780		4950
4750						4770	6	
4625		4540		4540	7			
4500		4530		4530				4390
4375								4380
4250	5		4			4210	5	
4125						4200		
4000					6			
3875		3790		3790				3820
3750		3780		3780		3640		3810
3625						3630		
3500	4		3		5		4	
3375								3250
3250								
3125		3040		3040		3070		3240
3000		3030		3030		3060	3	
2875					4			
2750	3		2					2680
2625								2670
2500						2500		
2375		2290		2290		2490	2	
2250		2280		2280	3			
2125	2		1			1930		2110
2000					2	1920	1	2100
1875		1875		1875				

Note:
Glazing S4, U4, A4, B4, M4, XU, C4 on request.

On request: torsion spring shaft or direct drive operator

On request and only direct drive operator S140 with track application H

For notice on trap guard, see page 5

Range change

SO_{750}	Bottom section height 750 mm (standard)
SO_{1500}	Bottom section height 1500 mm
n_1	Number of glazing frames
RM	Grid height
LZ	Clear frame dimensions **(from 1200)**
SPB	Rail width
TH	Door section height

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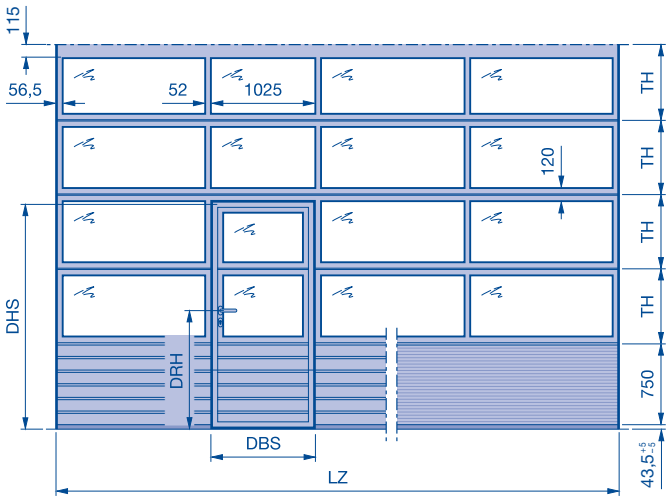
Sectional door APU 67 Thermo with wicket door and trip-free threshold

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) = 905 mm**

Clear passage height of wicket door (DHS) = Sn_1 × TH + (bottom section height – 55*)

Sn_1 Number of frames in the wicket door

* Attention: If there is no frame above the wicket door, then – 100 instead of – 55.

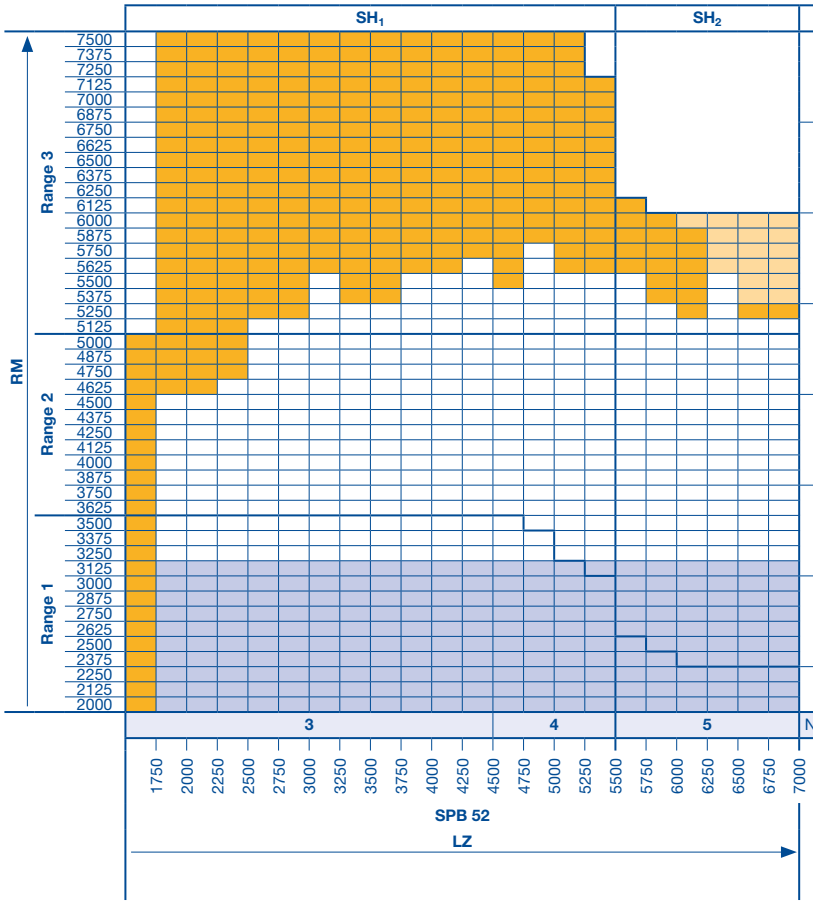
** For a door width of 1750 - 1840 mm, the clear passage width is 798 mm.
For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

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 26 – 28.

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	DHS	Sn_1	Height
9	7500	7500	2187	2	
		7375	2159		
		7250	2132		
		7125	2104		
		7000	2076		
	6790	6875	2048		
8	6780	6750	2186	2	
		6625	2155		
		6500	2124		
		6375	2093		
		6250	2061		
	6040	6125	2030		
7	6030	6000	2185	2	
		5875	2149		
		5750	2114		
		5625	2078		
		5500	2042		
	5290	5375	2006		
6	5280	5250	2183	2	
		5125	2142		
		5000	2100		
		4875	2058		
		4750	2017		
	4540	4625	1975		
5	4530	4500	2181	2	
		4375	2131		
		4250	2081		
		4125	2031		
		4000	1981		
	3790	3875	1931		
4	3780	3750	2178	2	
		3625	2115		
		3500	2053		
		3375	1990		
		3250	1928		
	3040	3125	1865		
3	3030	3000	2172	2	
		2875	2088		
		2750	2005		
		2625	1922		
		2500	1838		2430
	2290	2375	2240	3	2420
2	2280	2250	2115	2	
		2125	1990		
	2000	2000	1865		2000

Number of infills / fields per glazing frame

Notes:

- For versions with real glass infill in the wicket door, the threshold height **SH_2** begins at LZ 4510 mm.
- Glazing S4, U4, A4, B4, M4, XU, C4 on request.

On request: torsion spring shaft or direct drive operator

On request and only direct drive operator S140 with track application H

For notice on trap guard, see page 5

Range change

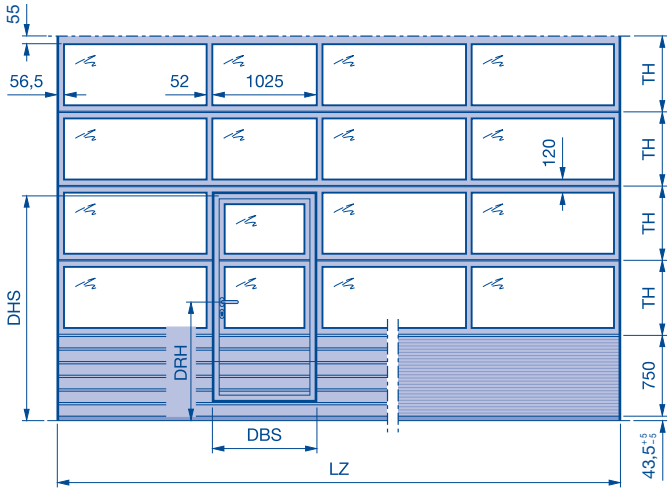
DHS Wicket door clear passage height
DBS Wicket door clear passage width
DRH Lever height
LZ Clear frame dimensions **(from 1500)**
RM Grid height
SPB Rail width
SH_1 Threshold height **(rising from 5 to 10)**
SH_2 Threshold height **(approx. 13)**
n_1 Number of glazing frames
Sn_1 Number of glazing frames in the wicket door
TH Door section height

Sectional door APU 67 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) = 905 mm*

Wicket door passage height (DHS) = Sn_1 × TH + (bottom section height – 55)

Sn_1 Number of frames in the wicket door

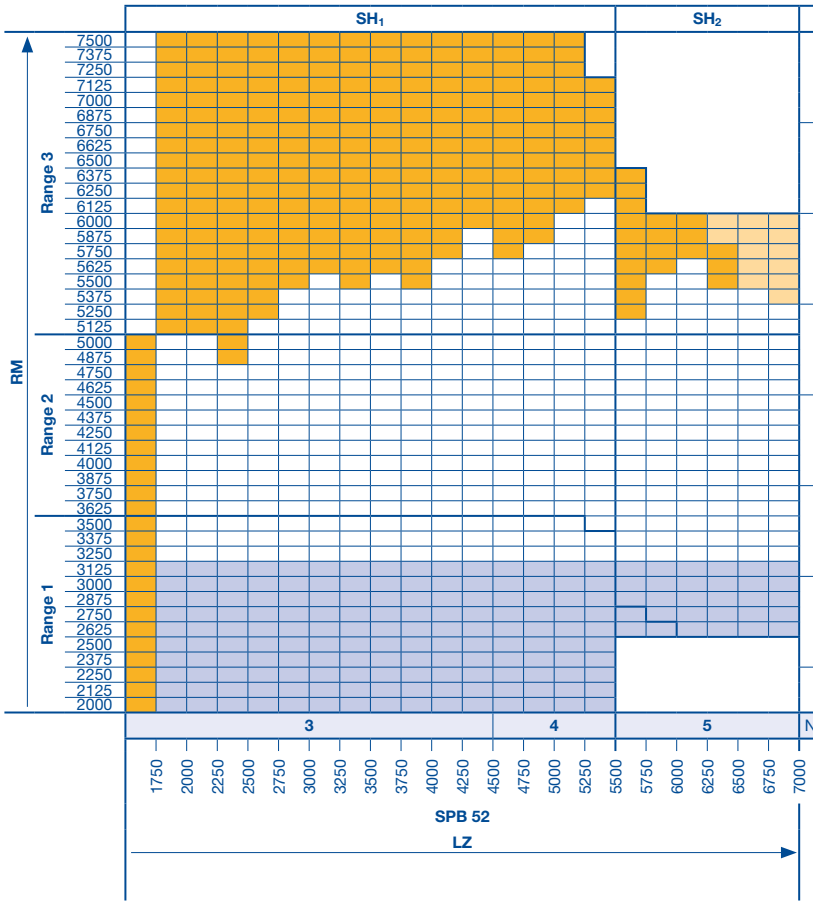
* For a door width of 1750 - 1840 mm, the clear passage width is 798 mm.
For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

Note:

- When using a shaft operator (installation example 5), the door locking is always opposite the operator side.
- Bottom door section made of 375 / 500 mm section and 2 × 125 mm aluminium bottom profile for door widths > 5500 mm.
- For a view of the matching appearance with doors without wicket door see pages 26 – 28.

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_2	n_1	Height	RM	DHS	Sn_1	Height
	9	7500	7500	2187	2	
			7375	2159		
			7250	2132		
			7125	2104		
			7000	2076		
		6790	6875	2048		
	8	6780	6750	2186	2	
			6625	2155		
			6500	2124		
			6375	2093		
			6250	2061		
		6040	6125	2030		
	7	6030	6000	2185	2	
			5875	2149		
			5750	2114		
			5625	2078		
			5500	2042		
		5290	5375	2006		
	6	5280	5250	2183	2	
			5125	2142		
			5000	2100		
			4875	2058		
			4750	2017		
		4540	4625	1975		
	5	4530	4500	2181	2	
			4375	2131		
			4250	2081		
			4125	2031		
			4000	1981		
		3790	3875	1931		
	4	3780	3750	2178	2	
			3625	2115		
			3500	2053		
			3375	1990		
			3250	1928		
		3040	3125	1865		
	3	3030	3000	2172	2	
			2875	2088		
			2750	2005		
			2625	1922		
			2500	1838		2430
		2290	2375	2285	3	2420
	2	2280	2250	2160		
			2125	2035	2	
		2000	2000	1910		2000
	3	4	5	Number of infills / fields per glazing frame		

Notes:

- For versions with real glass infill in the wicket door, the threshold height **SH_2** begins at LZ 4510 mm.
- Glazing S4, U4, A4, B4, M4, XU, C4 on request.

On request: torsion spring shaft or direct drive operator

On request and only direct drive operator S140 with track application H

For notice on trap guard, see page 5

Range change

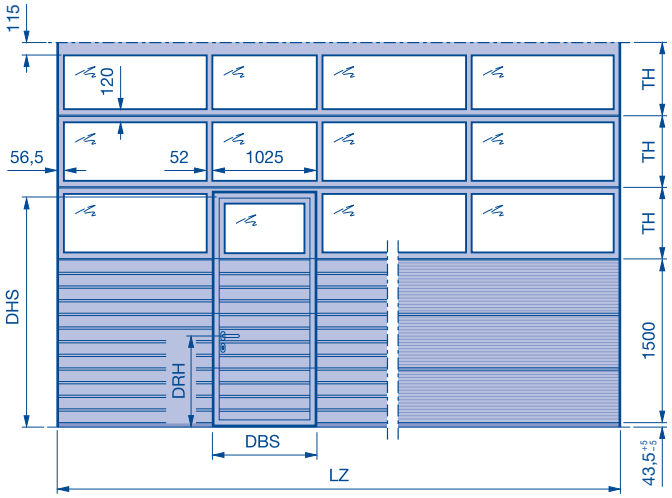
DHS	Wicket door clear passage height
DBS	Wicket door clear passage width
DRH	Lever height
LZ	Clear frame dimensions **(from 1500)**
RM	Grid height
SPB	Rail width
SH_1	Threshold height **(220)**
SH_2	Threshold height **(317)**
n_1	Number of glazing frames
Sn_1	Number of glazing frames in the wicket door
TH	Door section height

Sectional door APU 67 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 ≤ 6000 = 1080,5

LZ > 6000 = 830,5

Wicket door clear passage width (DBS) = 905 mm**

Clear passage height of wicket door (DHS) = Sn_1 × TH + (bottom section height – 55*)

Sn_1 Number of frames in the wicket door

* Attention: If there is no frame above the wicket door, then – 100 instead of – 55.

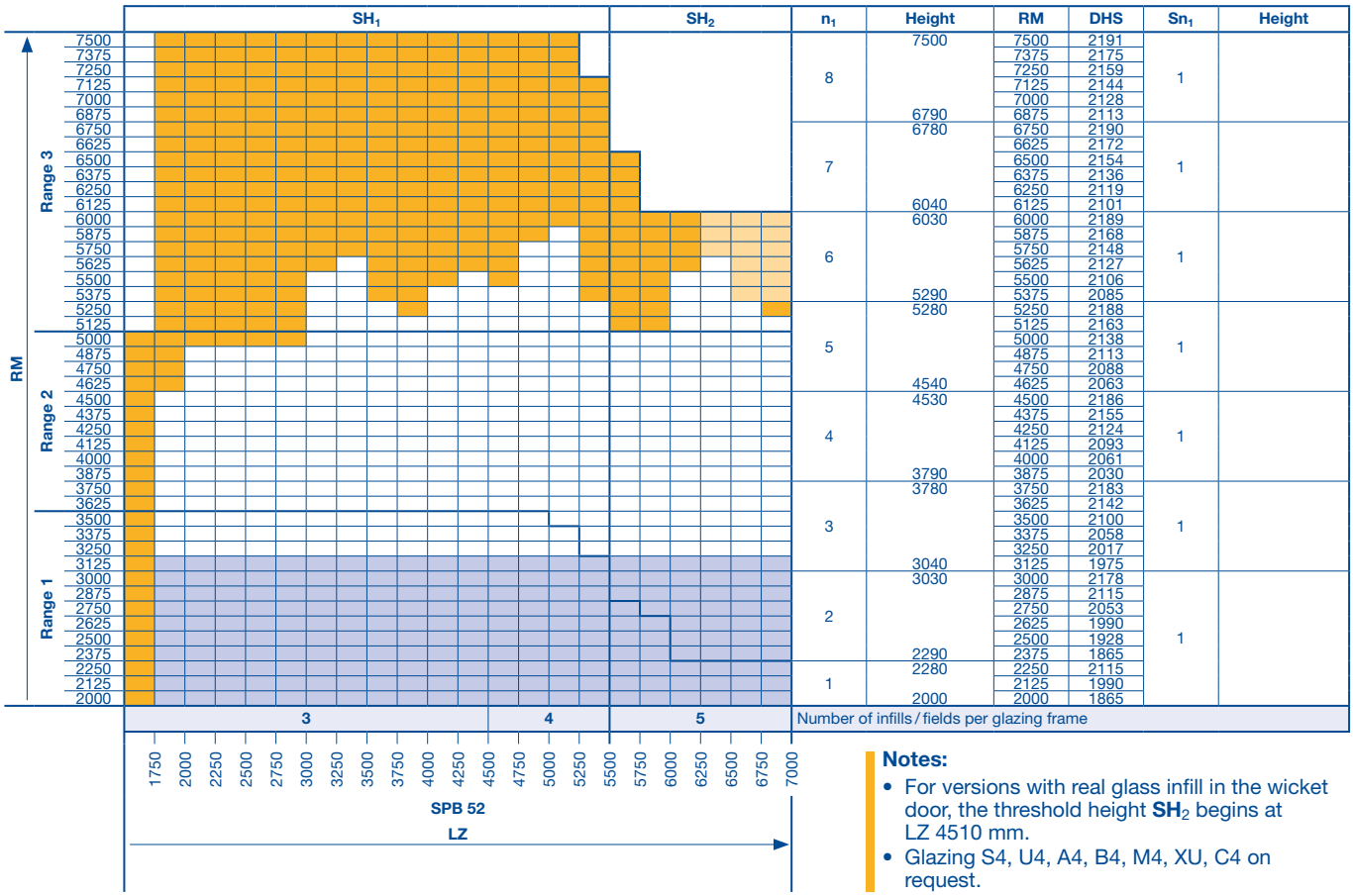
** For a door width of 1750 - 1840 mm, the clear passage width is 798 mm.
For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

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 26 – 28.

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	DHS	Sn_1	Height
8	7500	7500	2191	1	
		7375	2175		
		7250	2159		
		7125	2144		
		7000	2128		
	6790	6875	2113		
7	6780	6750	2190	1	
		6625	2172		
		6500	2154		
		6375	2136		
		6250	2119		
	6040	6125	2101		
6	6030	6000	2189	1	
		5875	2168		
		5750	2148		
		5625	2127		
		5500	2106		
	5290	5375	2085		
5	5280	5250	2188	1	
		5125	2163		
		5000	2138		
		4875	2113		
		4750	2088		
	4540	4625	2063		
4	4530	4500	2186	1	
		4375	2155		
		4250	2124		
		4125	2093		
		4000	2061		
	3790	3875	2030		
3	3780	3750	2183	1	
		3625	2142		
		3500	2100		
		3375	2058		
		3250	2017		
	3040	3125	1975		
2	3030	3000	2178	1	
		2875	2115		
		2750	2053		
		2625	1990		
		2500	1928		
	2290	2375	1865		
1	2280	2250	2115		
		2125	1990		
	2000	2000	1865		

Notes:

- For versions with real glass infill in the wicket door, the threshold height **SH_2** begins at LZ 4510 mm.
- Glazing S4, U4, A4, B4, M4, XU, C4 on request.

On request: torsion spring shaft or direct drive operator

On request and only direct drive operator S140 with track application H

For notice on trap guard, see page 5

Range change

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

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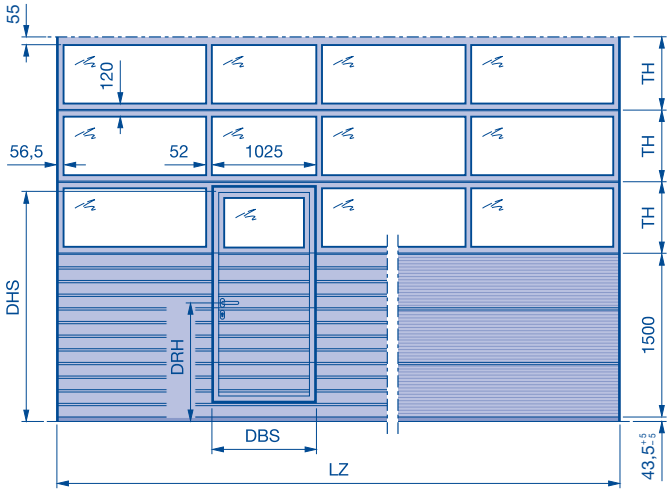
Sectional door APU 67 Thermo with wicket door and threshold rail

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) = 905 mm*

Wicket door passage height (DHS) = Sn_1 × TH + (bottom section height – 55)

Sn_1 Number of frames in the wicket door

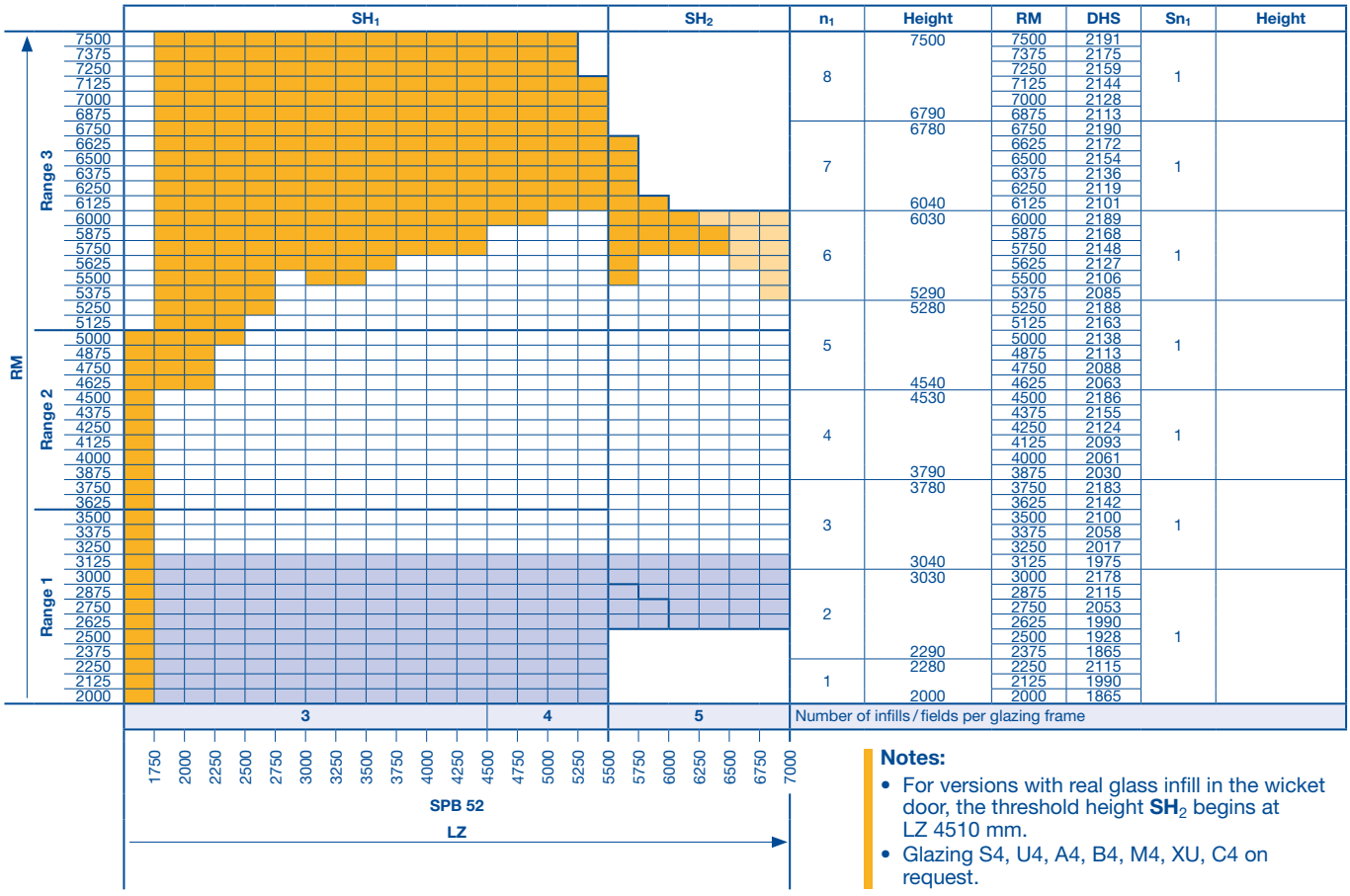
* For a door width of 1750 - 1840 mm, the clear passage width is 798 mm.
For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

Note:

- When using a shaft operator (installation example 5), the door locking is always opposite the operator side.
- Bottom door section made of 375 / 500 mm section and 2 × 125 mm aluminium bottom profile for door widths > 5500 mm.
- For a view of the matching appearance with doors without wicket door see pages 26 – 28.

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	DHS	Sn_1	Height
8	7500	7500	2191	1	
		7375	2175		
		7250	2159		
		7125	2144		
		7000	2128		
	6790	6875	2113		
7	6780	6750	2190	1	
		6625	2172		
		6500	2154		
		6375	2136		
		6250	2119		
	6040	6125	2101		
6	6030	6000	2189	1	
		5875	2168		
		5750	2148		
		5625	2127		
		5500	2106		
	5290	5375	2085		
5	5280	5250	2188	1	
		5125	2163		
		5000	2138		
		4875	2113		
		4750	2088		
	4540	4625	2063		
4	4530	4500	2186	1	
		4375	2155		
		4250	2124		
		4125	2093		
		4000	2061		
	3790	3875	2030		
3	3780	3750	2183	1	
		3625	2142		
		3500	2100		
		3375	2058		
		3250	2017		
	3040	3125	1975		
2	3030	3000	2178	1	
		2875	2115		
		2750	2053		
		2625	1990		
		2500	1928		
	2290	2375	1865		
1	2280	2250	2115		
		2125	1990		
	2000	2000	1865		

Number of infills / fields per glazing frame

Notes:

- For versions with real glass infill in the wicket door, the threshold height **SH_2** begins at LZ 4510 mm.
- Glazing S4, U4, A4, B4, M4, XU, C4 on request.

On request: torsion spring shaft or direct drive operator

On request and only direct drive operator S140 with track application H

For notice on trap guard, see page 5

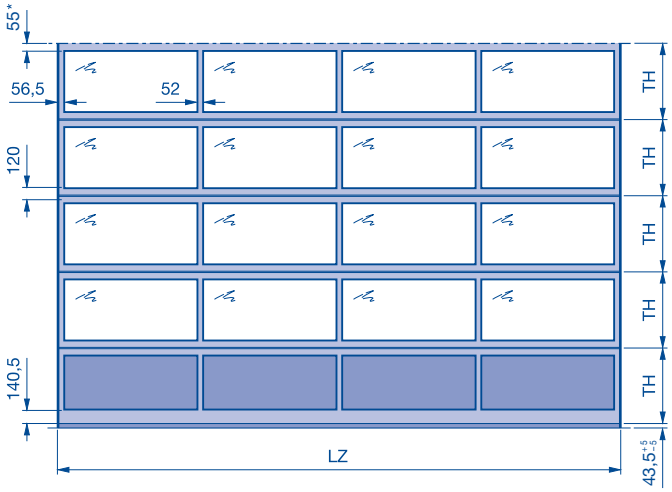
Range change

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 **(220)**
SH_2 Threshold height **(317)**
n_1 Number of glazing frames
Sn_1 Number of glazing frames in the wicket door
TH Door section height

Sectional door ALR 67 Thermo

Glazed aluminium sectional door with thermal break

Exterior view



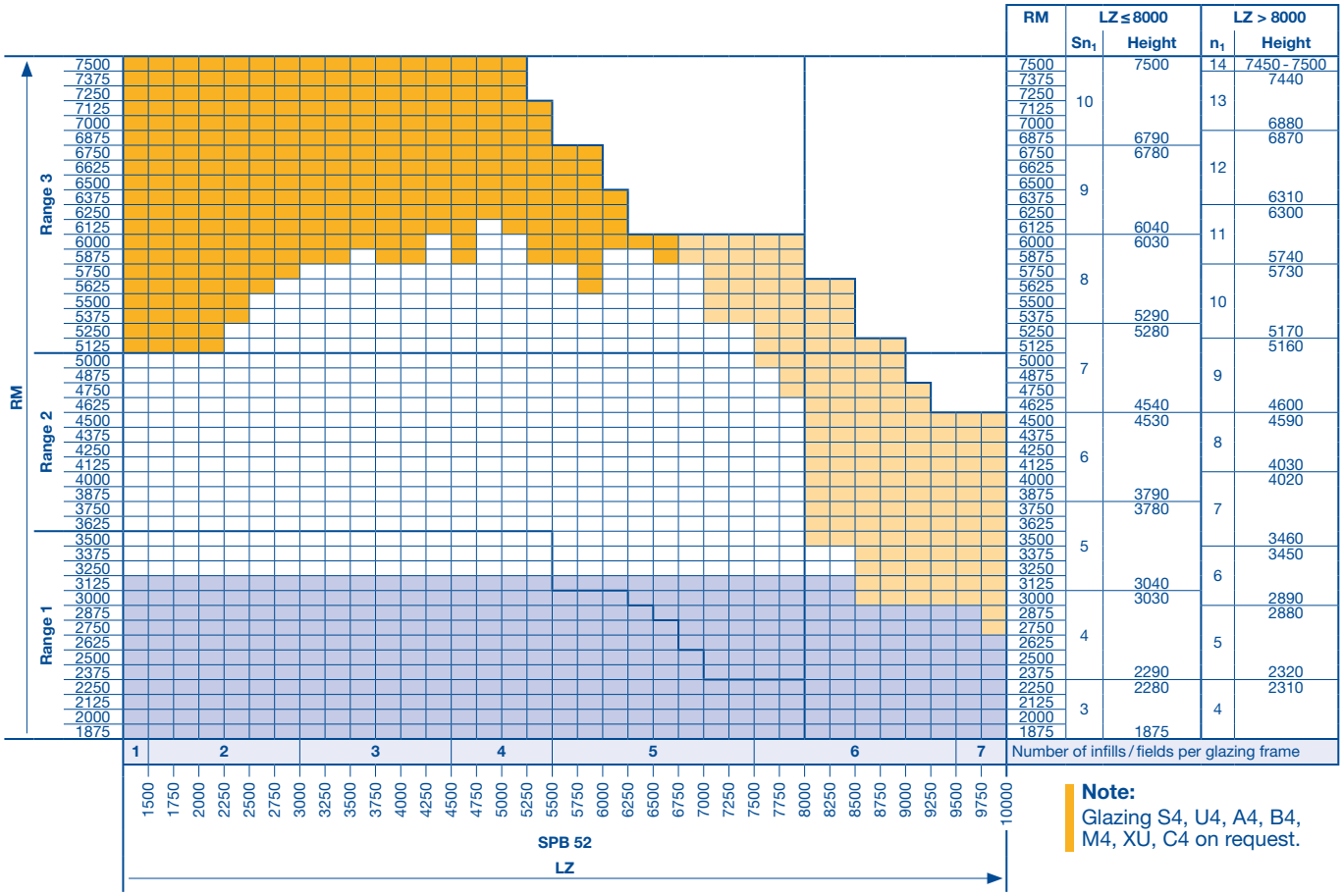
$$TH = \frac{\text{Door height} - 35}{\text{Number of door section frames}}$$

* 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.

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 26 – 28.

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.



RM	LZ ≤ 8000 Sn_1	LZ ≤ 8000 Height	LZ > 8000 n_1	LZ > 8000 Height
7500	10	7500	14	7450 - 7500
7375				7440
7250			13	
7125				6880
7000				
6875		6790		6870
6750	9	6780	12	
6625				
6500				6310
6375				6300
6250			11	
6125		6040		5740
6000	8	6030		5730
5875			10	
5750				5170
5625				5160
5500			9	
5375		5290		4600
5250	7	5280		4590
5125			8	
5000				4030
4875				4020
4750			7	
4625		4540		3460
4500	6	4530		3450
4375			6	
4250				2890
4125				2880
4000			5	
3875		3790		2320
3750	5	3780		2310
3625			4	
3500				
3375				
3250				
3125		3040		
3000	4	3030		
2875				
2750				
2625				
2500				
2375		2290		
2250	3	2280		
2125				
2000				
1875		1875		

Note:
Glazing S4, U4, A4, B4, M4, XU, C4 on request.

On request: torsion spring shaft or direct drive operator

On request and only direct drive operator S140 with track application H

For notice on trap guard, see page 5

Range change

n_1	Number of glazing frames
Sn_1	Number of glazing frames in the wicket door
RM	Grid height
LZ	Clear frame dimensions **(from 1200)**
SPB	Rail width
TH	Door section height

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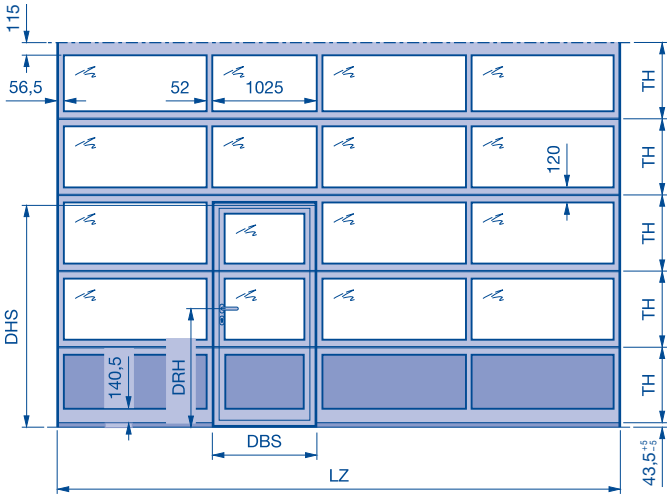
Sectional door ALR 67 Thermo with wicket door and trip-free threshold

Glazed aluminium sectional door with thermal break

Exterior view



Lever height on request

Wicket door clear passage width (DBS) = 905 mm**

Clear passage height of wicket door (DHS) = $Sn_1 \times TH - 55$*

Sn_1 Number of frames in the wicket door

* Attention: If there is no frame above the wicket door, then – 100 instead of – 55.

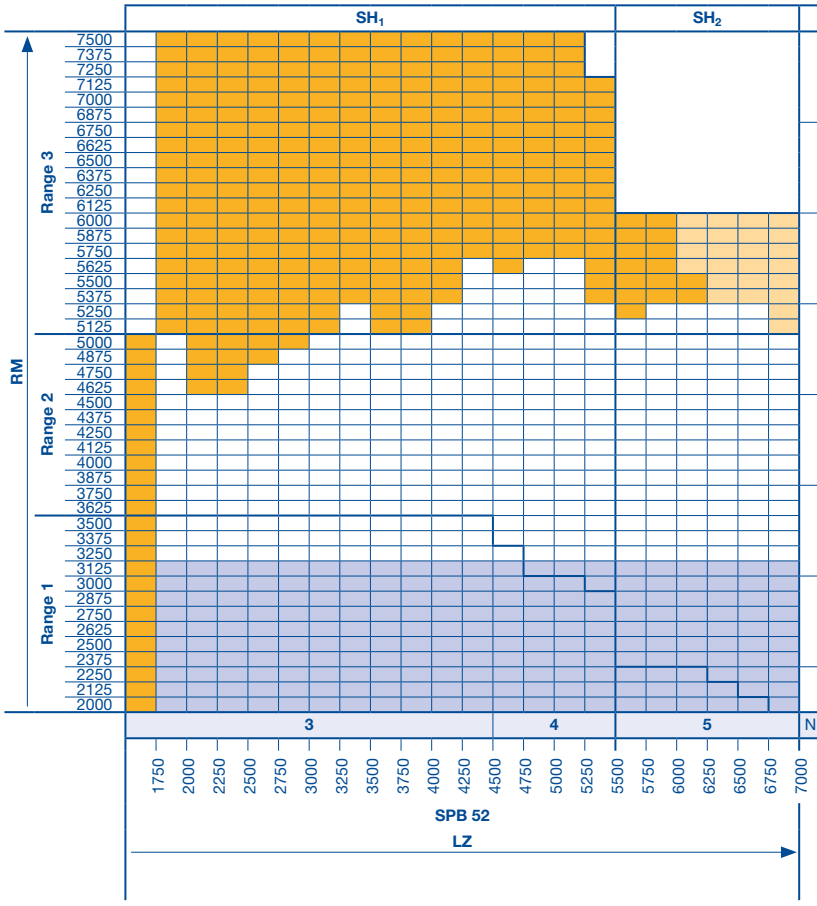
** For a door width of 1750 - 1840 mm, the clear passage width is 833 mm. For door widths below 1750 mm, the clear passage width (DBS) depends on the door width and is much smaller than standard dimensions.

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 26 – 28.

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
7500			7500	7500	2185		
7375				7375	2147		
7250		10		7250	2110	3	
7125				7125	2072		
7000				7000	2035		
6875			6790	6875	1997		
6750			6780	6750	2183		
6625				6625	2142		
6500		9		6500	2100	3	
6375				6375	2058		
6250				6250	2017		
6125			6040	6125	1975		
6000			6030	6000	2182		
5875				5875	2135		
5750		8		5750	2088	3	
5625				5625	2041		
5500				5500	1994		
5375			5290	5375	1948		
5250			5280	5250	2180		
5125				5125	2126		
5000		7		5000	2073	3	
4875				4875	2019		
4750				4750	1966		
4625			4540	4625	1912		
4500			4530	4500	2178		
4375				4375	2115		
4250		6		4250	2053	3	
4125				4125	1990		
4000				4000	1928		
3875			3790	3875	1865		
3750			3780	3750	2174		
3625				3625	2099		
3500		5		3500	2024	3	
3375				3375	1949		
3250				3250	1874		
3125			3040	3125	1799		
3000			3030	3000	2169		
2875				2875	2075		
2750		4		2750	1981	3	
2625				2625	1888		
2500				2500	1794		2500
2375			2290	2375	2285	4	2490
2250			2280	2250	2115		
2125		3		2125	1990	3	
2000			2000	2000	1865		
3	4	5	Number of infills / fields per glazing frame				

Notes:

- For versions with real glass infill in the wicket door, the threshold height **SH_2** begins at LZ 4510 mm.
- Glazing S4, U4, A4, B4, M4, XU, C4 on request.

On request: torsion spring shaft or direct drive operator

On request and only direct drive operator S140 with track application H

For notice on trap guard, see page 5

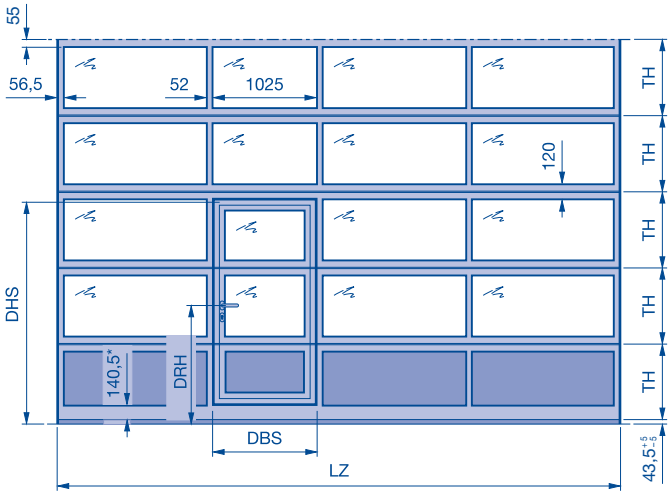
Range change

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 67 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) = 905 mm**

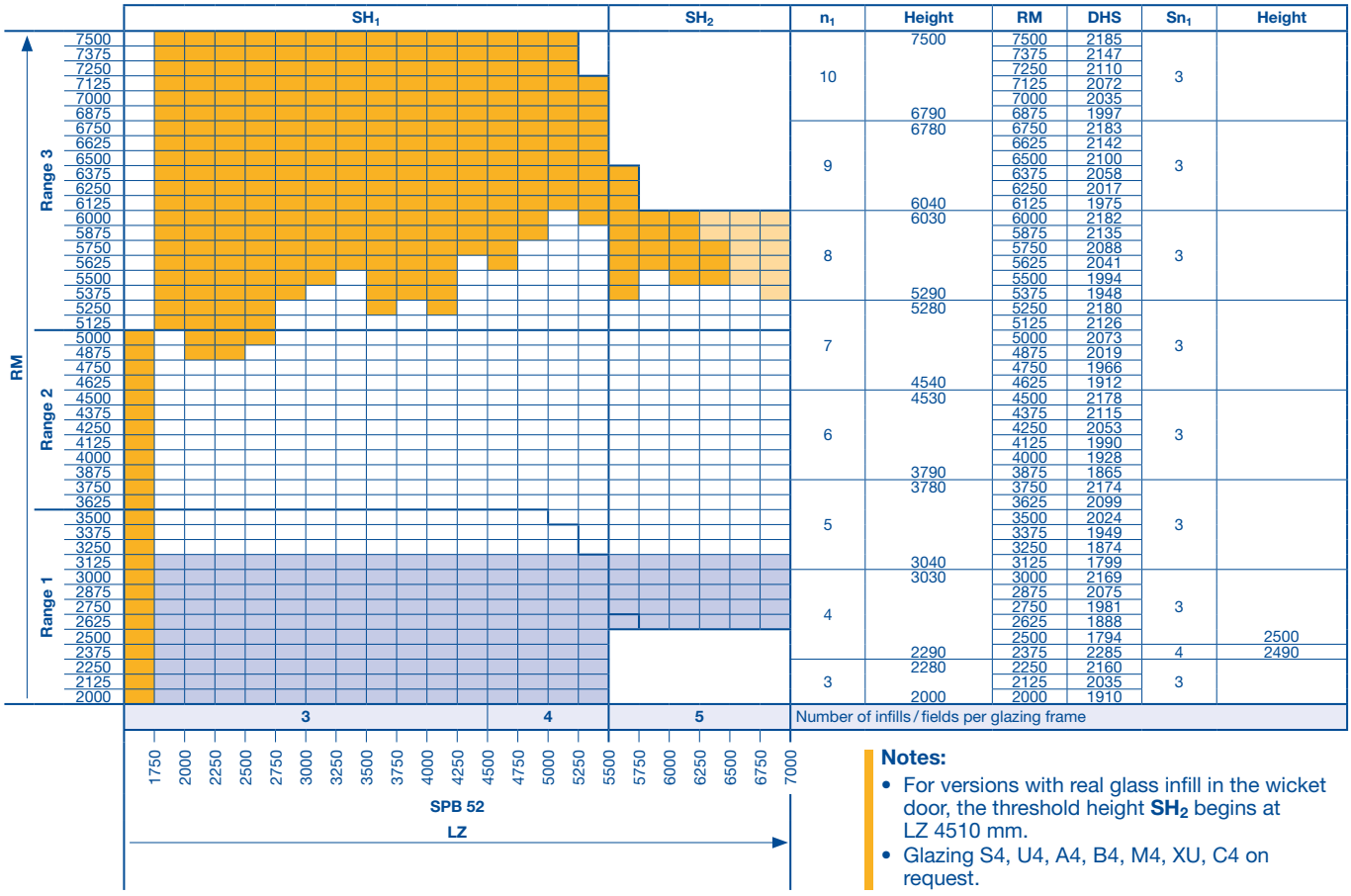
Clear passage height of wicket door (DHS) = $Sn_1 \times TH - 55$

Sn_1 Number of frames in the wicket door
* 265.5 with SH_2
** For a door width of 1750 - 1840 mm, the clear passage width is 798 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 26 – 28.

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	DHS	Sn_1	Height
10	7500	7500	2185	3	
		7375	2147		
		7250	2110		
		7125	2072		
		7000	2035		
	6790	6875	1997		
9	6780	6750	2183	3	
		6625	2142		
		6500	2100		
		6375	2058		
		6250	2017		
	6040	6125	1975		
8	6030	6000	2182	3	
		5875	2135		
		5750	2088		
		5625	2041		
		5500	1994		
	5290	5375	1948		
7	5280	5250	2180	3	
		5125	2126		
		5000	2073		
		4875	2019		
		4750	1966		
	4540	4625	1912		
6	4530	4500	2178	3	
		4375	2115		
		4250	2053		
		4125	1990		
		4000	1928		
	3790	3875	1865		
5	3780	3750	2174	3	
		3625	2099		
		3500	2024		
		3375	1949		
		3250	1874		
	3040	3125	1799		
4	3030	3000	2169	3	
		2875	2075		
		2750	1981		
		2625	1888		
		2500	1794		2500
	2290	2375	2285	4	2490
3	2280	2250	2160	3	
		2125	2035		
	2000	2000	1910		

Number of infills / fields per glazing frame

Notes:
- For versions with real glass infill in the wicket door, the threshold height **SH_2** begins at LZ 4510 mm.
- Glazing S4, U4, A4, B4, M4, XU, C4 on request.

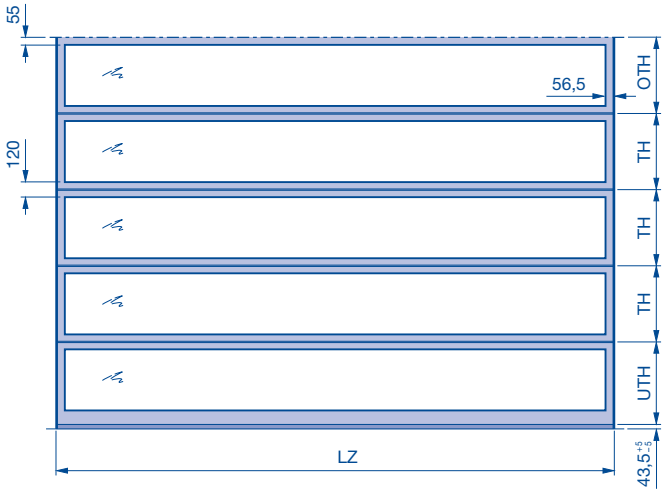
On request: torsion spring shaft or direct drive operator
On request and only direct drive operator S140 with track application H
For notice on trap guard, see page 5
Range change

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 **(192)**
SH_2	Threshold height **(317)**
n_1	Number of glazing frames
Sn_1	Number of glazing frames in the wicket door
TH	Door section height

Sectional door ALR 67 Thermo Glazing

Aluminium sectional door with extensive glazing with thermal break, real glass

Exterior view



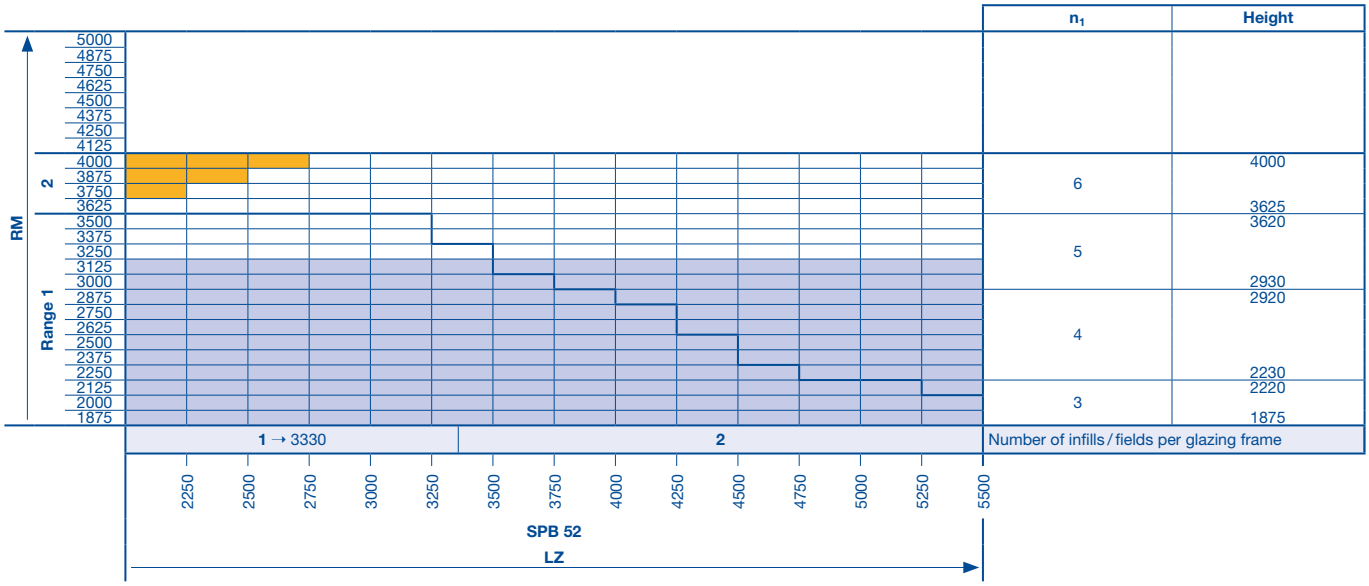
$$TH = \frac{\text{Door height} - 119}{\text{Number of door section frames}}$$

$UTH = TH + 84 \leq 785$
$OTH = TH + 35$

Note:
- When using a shaft operator (installation example 5), the door locking is always opposite the operator side.
- All track applications on request.

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

For notice on trap guard, see page 5

Range change

RM Grid height
LZ Clear frame dimensions **(from 2000)**

→ up to LZ
SPB Rail width
n_1 Number of glazing frames
UTH Bottom door section height
TH Door section height
OTH Upper door section height

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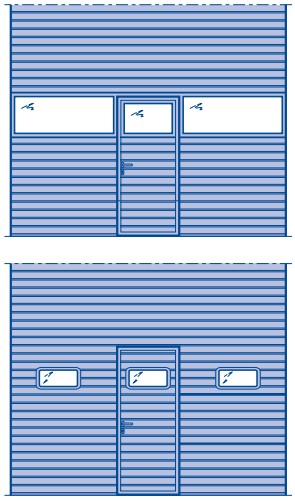
Glazing and wicket door arrangements

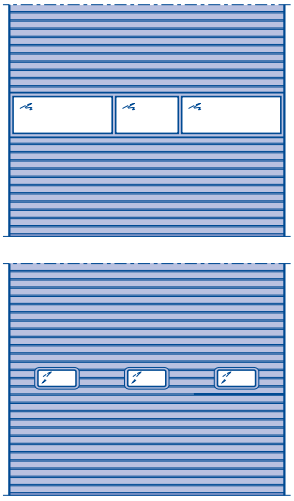
Sectional doors with 3 infills, fields

Glazing arrangements – external view

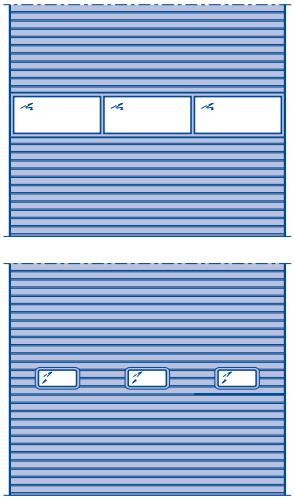
Sectional door SPU 67 Thermo with wicket door with trip-free threshold



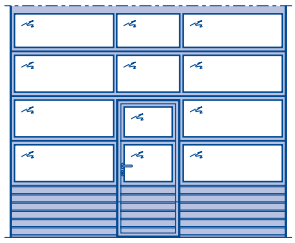
Sectional door SPU 67 Thermo, matching the wicket door versions



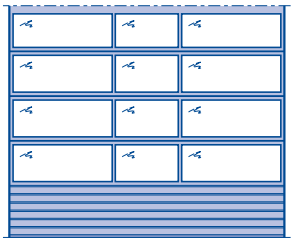
Sectional door SPU 67 Thermo with standard window division



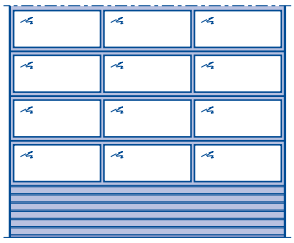
Sectional door APU 67 Thermo with wicket door with trip-free threshold



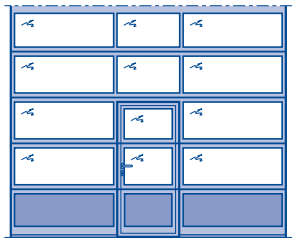
Sectional door APU 67 Thermo, matching the wicket door versions



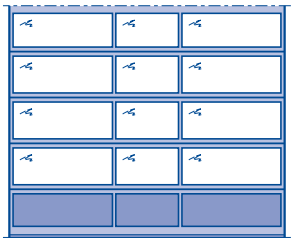
Sectional door APU 67 Thermo with standard window division



Sectional door ALR 67 Thermo with wicket door with trip-free threshold

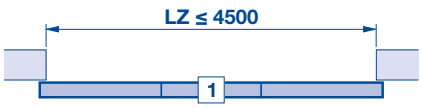


Sectional door ALR 67 Thermo, matching the wicket door versions



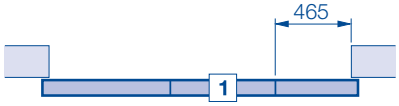
Sectional door ALR 67 Thermo with standard window division

Arrangement of the wicket door



Notes:
- Wicket door clear passage width (DBS) = 905 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.

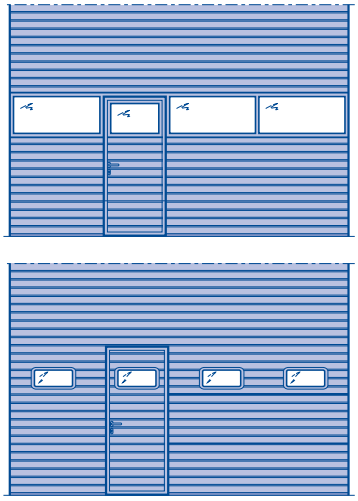
Note:
- Not possible for doors with real glass.

Glazing and wicket door arrangements

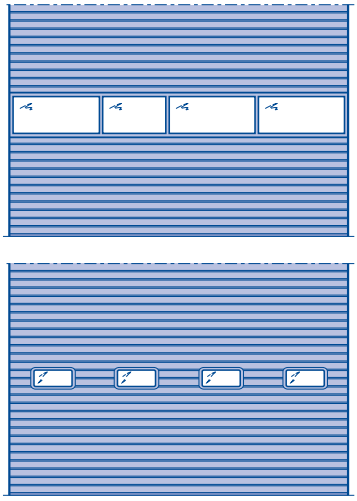
Sectional doors with 4 infills, fields

Glazing arrangements – external view

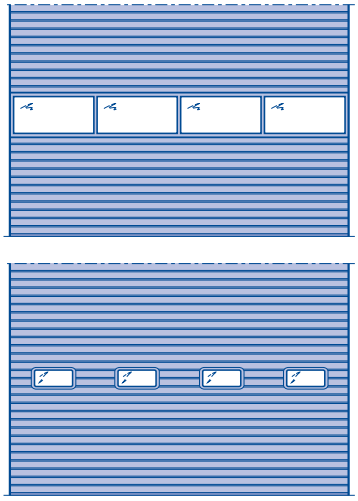
Sectional door SPU 67 Thermo with wicket door with trip-free threshold



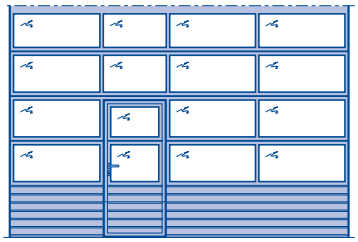
Sectional door SPU 67 Thermo, matching the wicket door versions



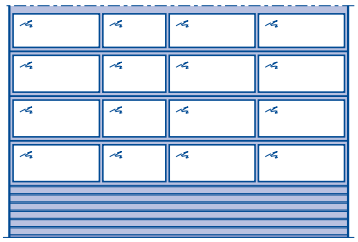
Sectional door SPU 67 Thermo with standard window division



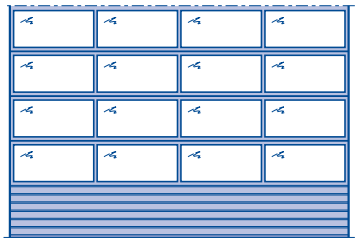
Sectional door APU 67 Thermo with wicket door with trip-free threshold



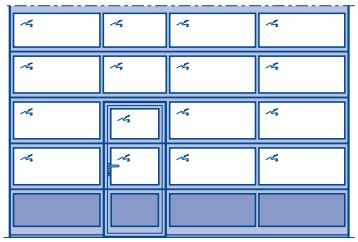
Sectional door APU 67 Thermo, matching the wicket door versions



Sectional door APU 67 Thermo with standard window division

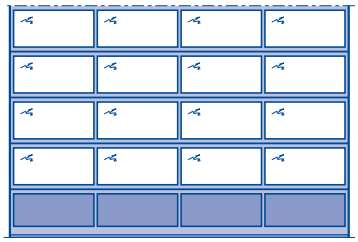


Sectional door ALR 67 Thermo with wicket door with trip-free threshold

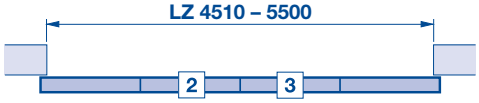


Sectional door ALR 67 Thermo, matching the wicket door versions

Sectional door ALR 67 Thermo with standard window division

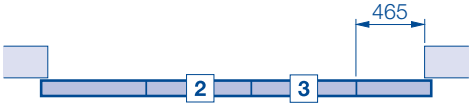


Arrangement of the wicket door



Notes:
- Wicket door clear passage width (DBS) = 905 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.

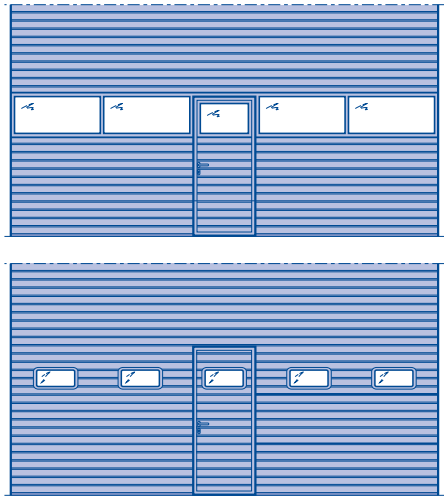
Note:
- Not possible for doors with real glass.

Glazing and wicket door arrangements

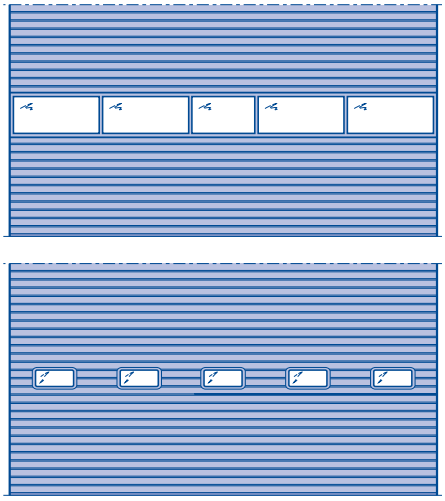
Sectional doors with 5 infills, fields

Glazing arrangements – external view

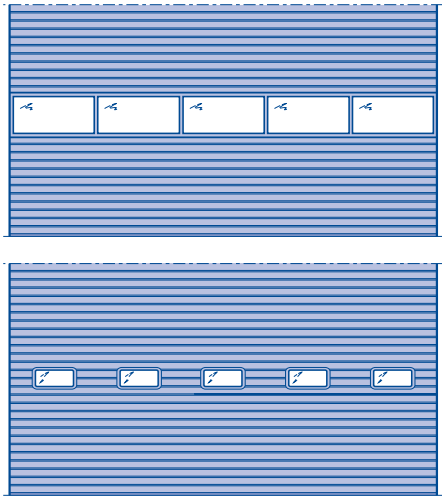
Sectional door SPU 67 Thermo with wicket door with trip-free threshold



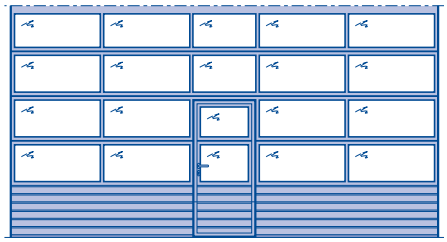
Sectional door SPU 67 Thermo, matching the wicket door versions



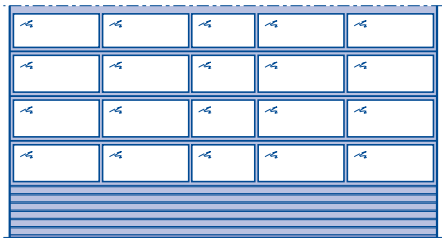
Sectional door SPU 67 Thermo with standard window division



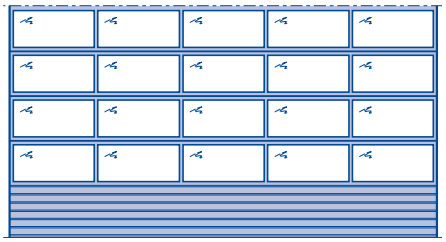
Sectional door APU 67 Thermo with wicket door with trip-free threshold



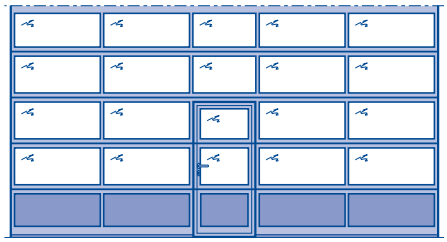
Sectional door APU 67 Thermo, matching the wicket door versions



Sectional door APU 67 Thermo with standard window division

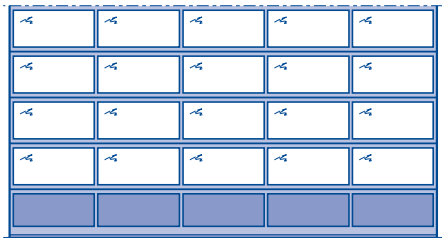


Sectional door ALR 67 Thermo with wicket door with trip-free threshold

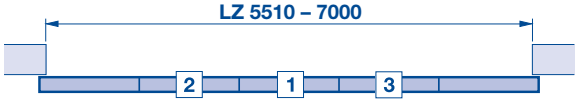


Sectional door ALR 67 Thermo, matching the wicket door versions

Sectional door ALR 67 Thermo with standard window division

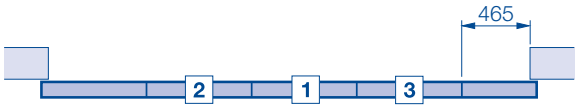


Arrangement of the wicket door



Notes:
- Wicket door clear passage width (DBS) = 905 mm.
- Wicket door only opening outwards.

Wicket door with short distance to outside door edge



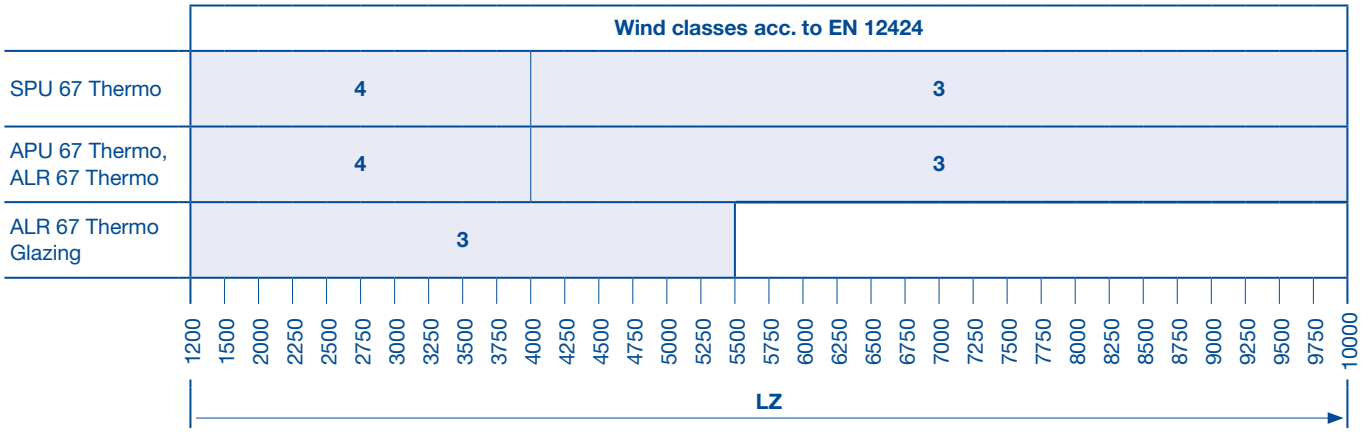
The short distance to the outside door edge is optionally possible on the left or right.

Note:
- Not possible for doors with real glass.

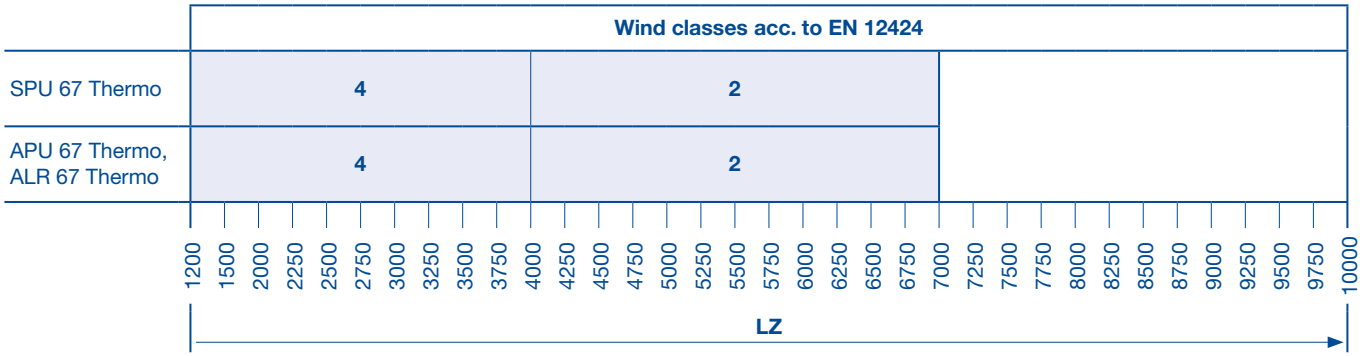
Wind load class

Resistance to wind load

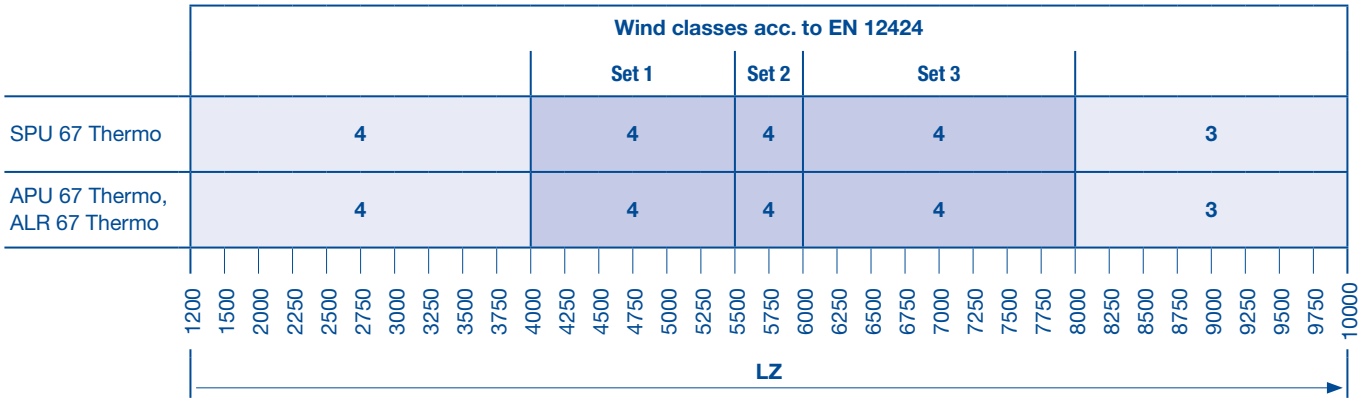
Detailed technical data can be found in the product configurator.



Wind load class for sectional doors with wicket door



Increased wind load class only for sectional doors without wicket door



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 67 mm.
- Not possible for ALR 67 Glazing.

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

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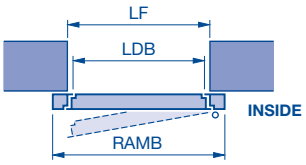
Side door NT 80 Thermo

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 × RAMH
875 × 2000	855 × 1990
875 × 2125	855 × 2115
1000 × 2000	980 × 1990
1000 × 2125	980 × 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	

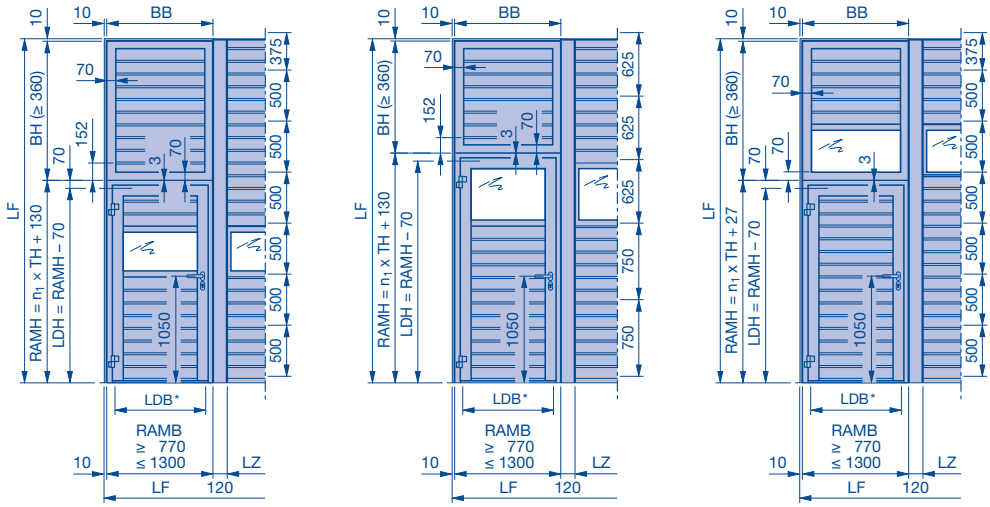
Clear passage dimensions:

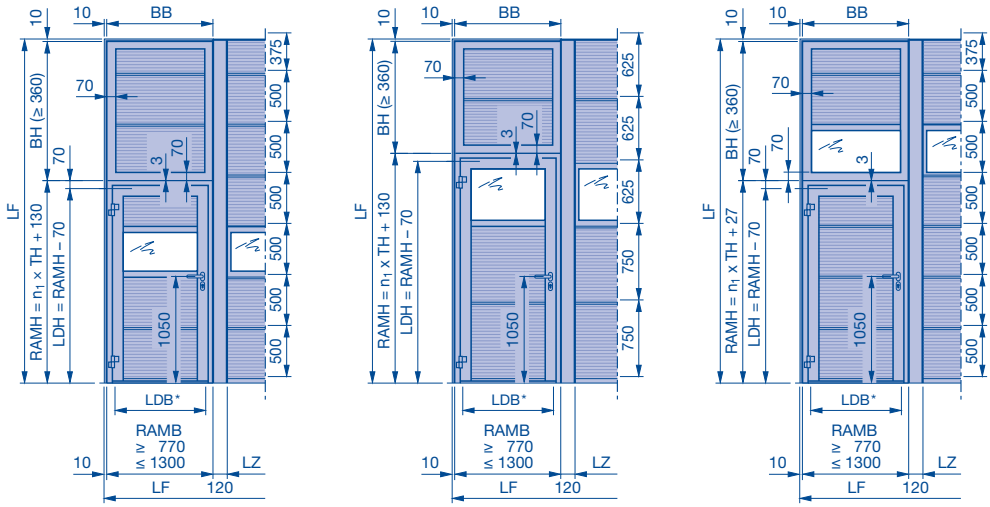
Opening angle	Width	Height
136°	RAMB – 164	RAMH – 70
90°	RAMB – 215	

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

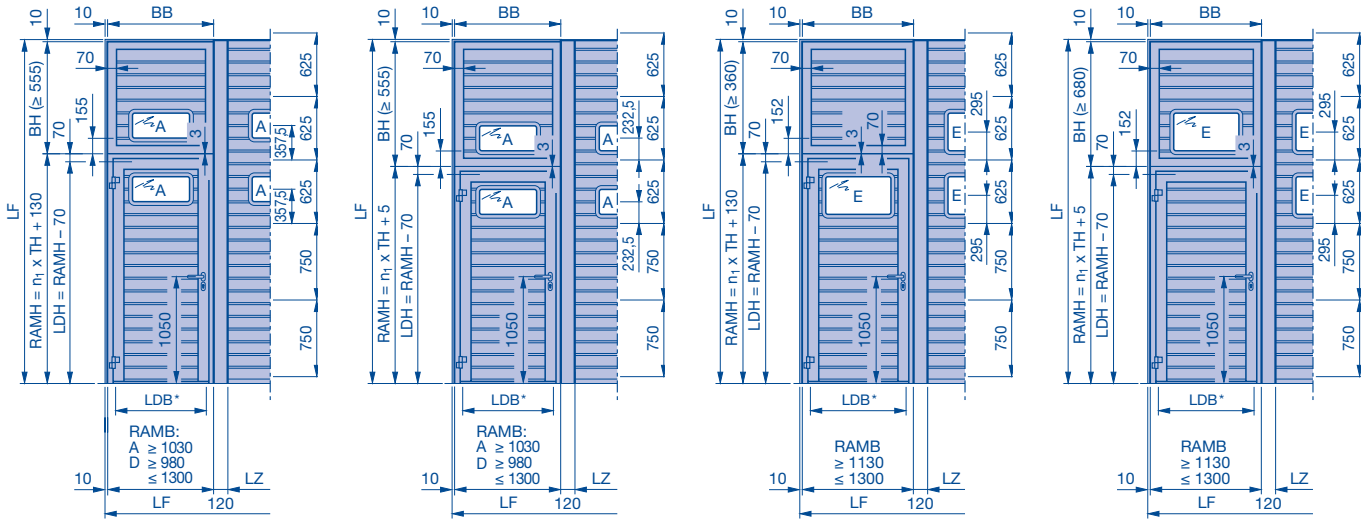
Side door NT 80 Thermo

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





Note:
- Compound window with RC2 version not possible.

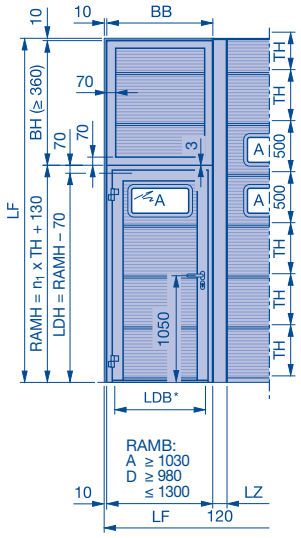


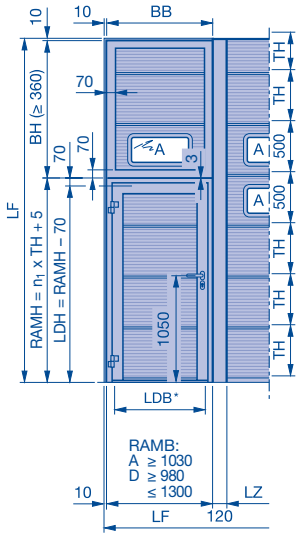
*	See page 30	**BH**	Panel height	**TH**	Door section height
LF	Structural opening	**BB**	Panel width	**SO**	Bottom section height
RAMB	Overall frame width	**LDB**	Clear passage width	**LZ**	Clear frame dimensions
RAMH	Overall frame height	**LDH**	Clear passage height	n_1	Number of door sections / glazing frames

Side door NT 80 Thermo

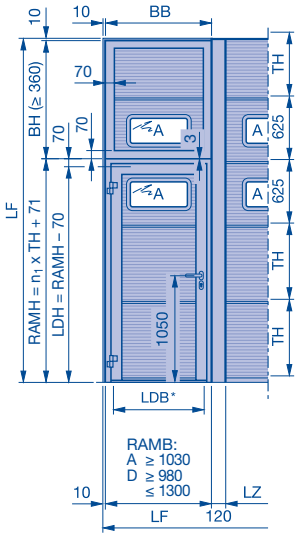
with L-ribbed Micrograin infills

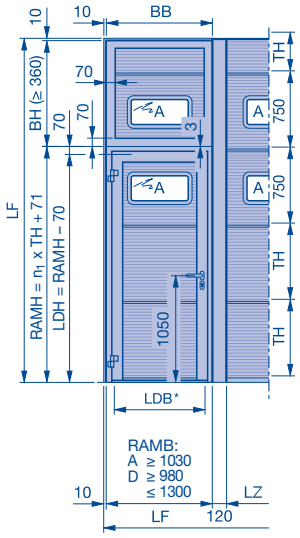
Compound glazing type A TH = 500



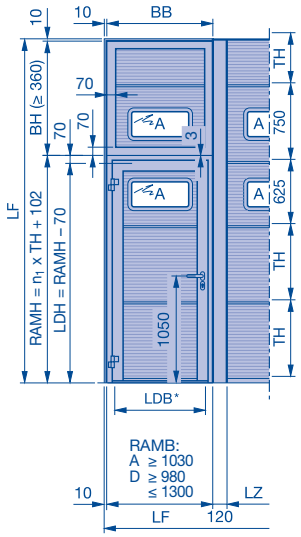


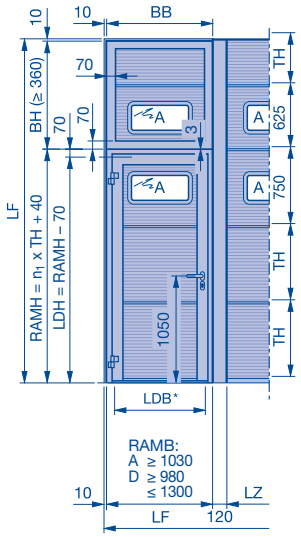
Compound glazing type A TH = 625 and 750



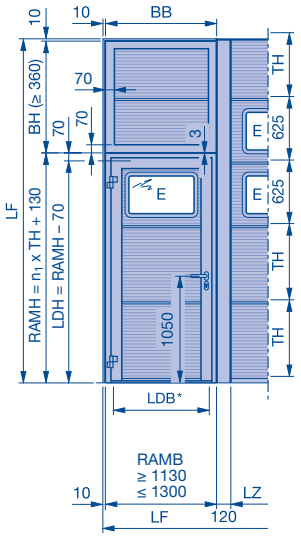


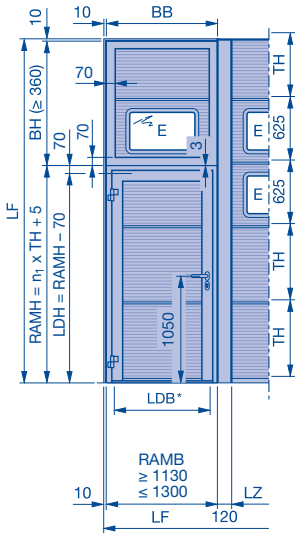
Compound glazing type A TH = 625 / 750 and 750 / 625



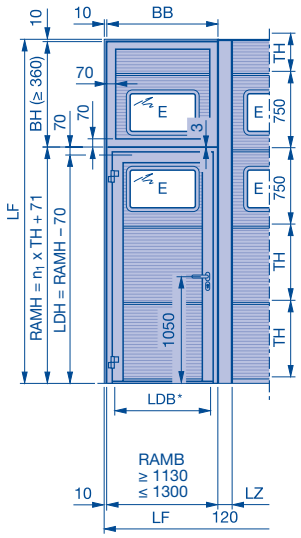


Compound glazing type E TH = 625





Compound glazing type E TH = 750



Note:

- Compound window with RC2 version not possible.

(Legend see page 31)

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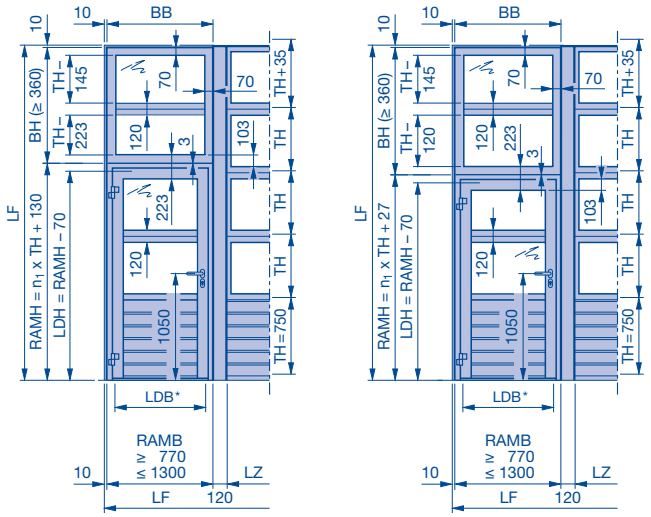
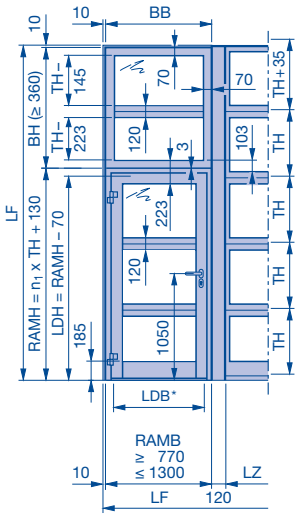
Side door NT 80 Thermo

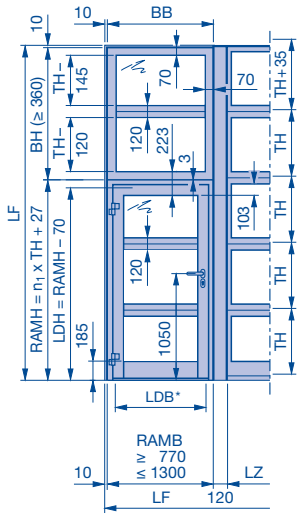
with S-ribbed Stucco-textured / L-ribbed Micrograin infills

Side door NT 80 Thermo matching door type APU 67 Thermo



Side door NT 80 Thermo matching door type ALR 67 Thermo





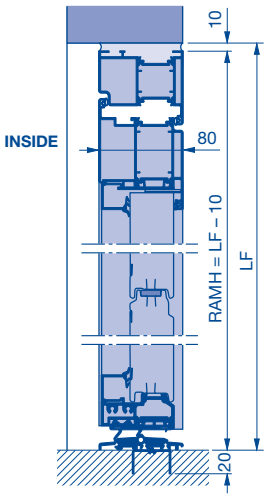
*	See page 30	**BH**	Panel height	**TH**	Door section height
LF	Structural opening	**BB**	Panel width	**SO**	Bottom section height
RAMB	Overall frame width	**LDB**	Clear passage width	**LZ**	Clear frame dimensions
RAMH	Overall frame height	**LDH**	Clear passage height	n_1	Number of door sections / glazing frames

Side door NT 80 Thermo

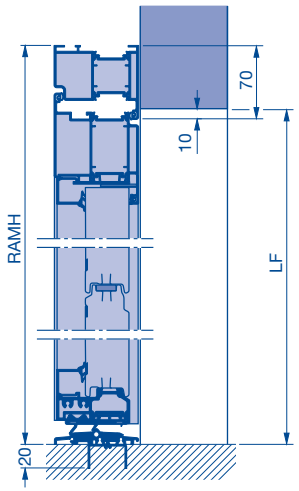
Possible fitting options

Possible fitting options

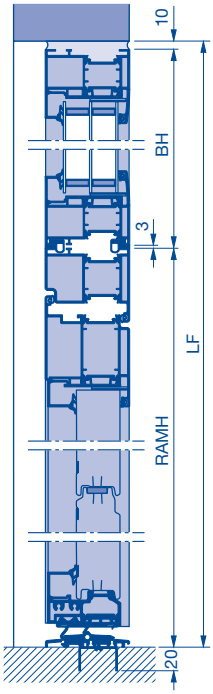
SPU in the opening
No window section, no compound glazing



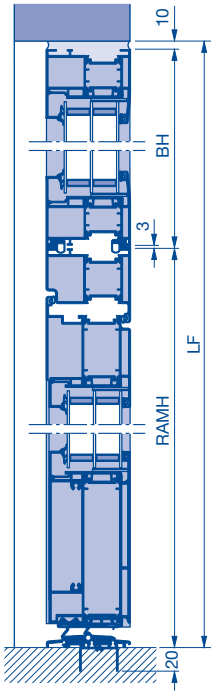
SPU behind the opening
No window section, no compound glazing



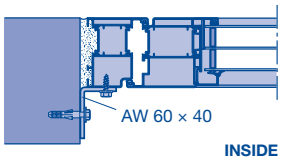
SPU, APU with fascia panel



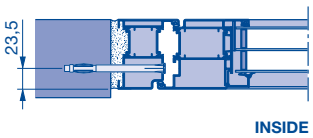
ALR with fascia panel



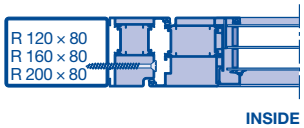
In the opening



Plugs for metal frame

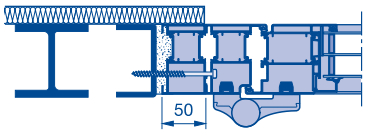


Tapping screw with countersunk head
B 6.3 × 80

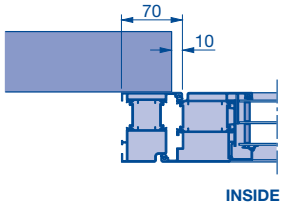


(Bottom illustration with 50 mm* extension profile for all-over insulation)

* Optionally with 25 mm



Behind the opening



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

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

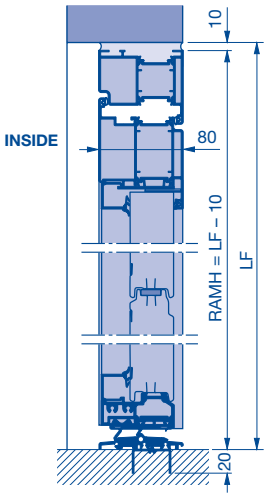
Side door NT 80 Thermo RC2

Possible fitting options

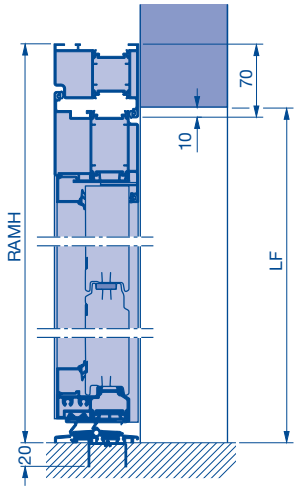
Possible fitting options

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

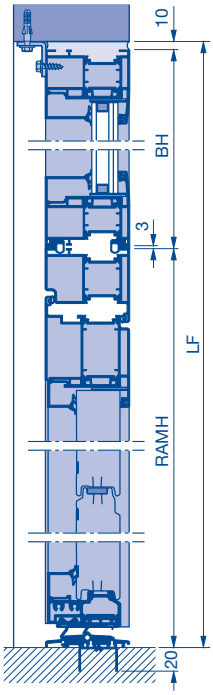
SPU in the opening
No window section, no compound glazing



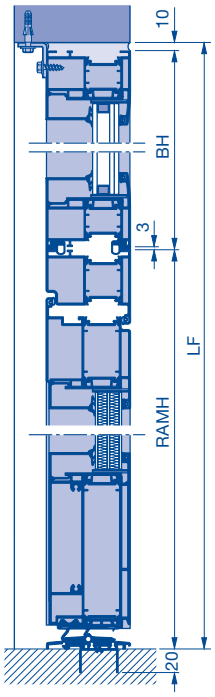
SPU behind the opening
No window section, no compound glazing



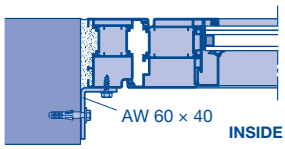
SPU, APU with fascia panel

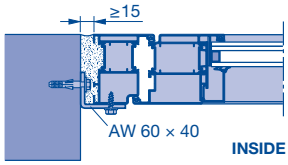


ALR with fascia panel

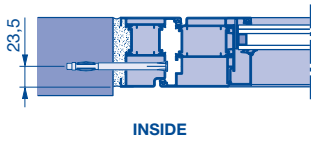


In the opening

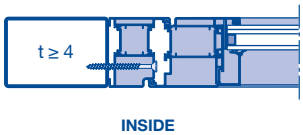


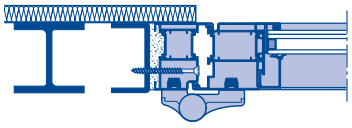


Plugs for metal frame



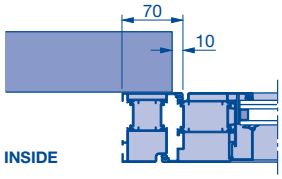
Tapping screw with countersunk head
B 6.3 × 80





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.

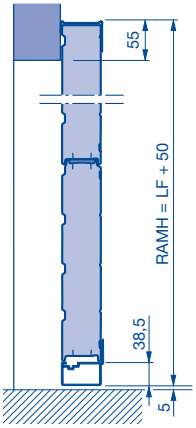
R	Box section	**BH**	Panel height	**LF**	Structural opening
AW	Aluminium angle	**RAMH**	Overall frame height		
SW	Steel angle	**LDB**	Clear passage width		

Fixed elements

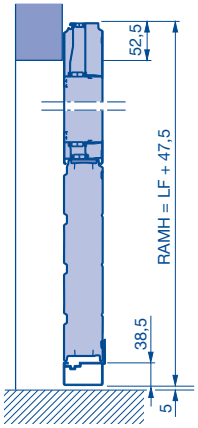
Possible fitting options and fitting examples

Possible fitting options

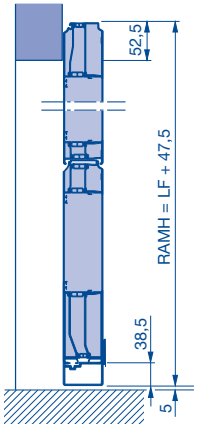
SPU 67 Thermo behind the opening
No window section, no compound glazing



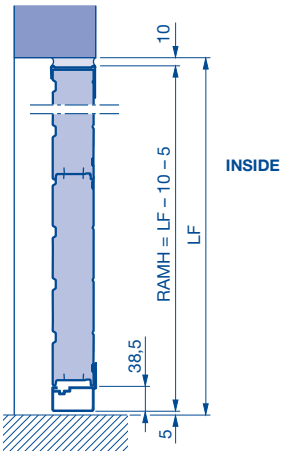
APU 67 Thermo behind the opening



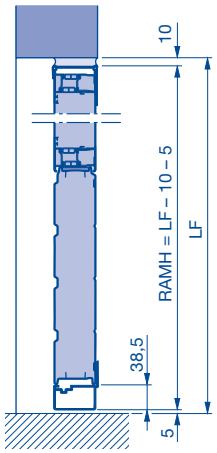
ALR 67 Thermo behind the opening



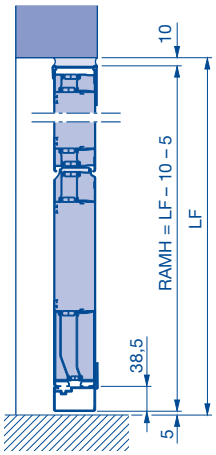
SPU 67 Thermo in the opening
No window section, no compound glazing



APU 67 Thermo in the opening

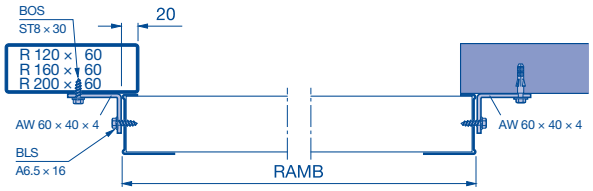


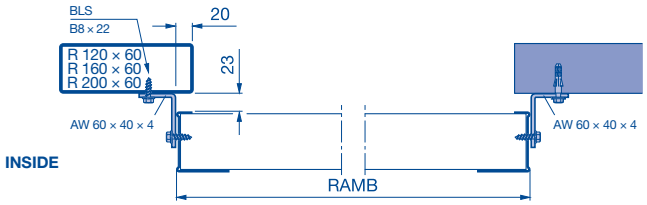
ALR 67 Thermo in the opening



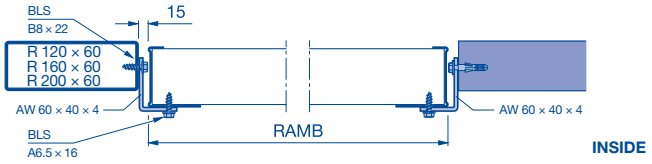
Fitting examples

Behind the opening

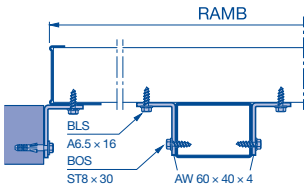




In the opening



In front of the opening



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

AW Aluminium angle
LF Structural opening
RAMB Overall frame width
RAMH Overall frame height

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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
LZ > 8000				
Without wicket door	RM - 100	RM - 100	–	–

Track application L with swivel mechanism

	without operator and without chain hoist	HKZ or WA 500 / 500 FU	WA 300	ITO
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 - 130	RM - 160	RM
Wicket door **with** threshold rail	RM - 375	RM - 150	RM - 180	RM - 50
Wicket door **without** threshold rail	RM - 440	RM - 190	RM - 240	RM - 85
LZ > 5500				
Without wicket door	RM - 375	RM - 180	RM - 210	RM - 50
Wicket door **with** threshold rail	RM - 375	RM - 200	RM - 230	RM - 100
Wicket door **without** threshold rail ***	RM - 475	RM - 260	RM - 290	RM - 165

* For ALR / ALR Thermo with real glass infill VG, E2 and G2 and ALR Vitraplan LZ > 3000;
ALR Glazing LZ > 3330 and ALR / ALR 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

– Not possible
a° Inclination
HKZ Chain hoist
LZ Clear frame dimensions
RM Grid height

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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
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°	2° – 16°	18° – 30°
LZ ≤ 5500							
Without wicket door	RM - 325	RM - 125 + (a° × 2,86)	RM - 110 + (a° × 2,08)	RM - 155 + (a° × 2,86)	RM - 140 + (a° × 2,08)	RM - (a° × 2,86)	RM - (a° × 2,08)
Wicket door **with** threshold rail	RM - 375	RM - 150 + (a° × 3,2)	RM - 165 + (a° × 3,75)	RM - 180 + (a° × 3,2)	RM - 195 + (a° × 3,75)	RM - 50 + (a° × 2,86)	RM - 65 + (a° × 2,08)
Wicket door **without** threshold rail	RM - 440	RM - 190 + (a° × 3,2)	RM - 210 + (a° × 3,75)	RM - 240 + (a° × 3,2)	RM - 260 + (a° × 3,75)	RM - 85 + (a° × 3,2)	RM - 100 + (a° × 3,75)
LZ > 5500							
Without wicket door	RM - 375	RM - 175 + (a° × 2,86)	RM - 160 + (a° × 2,08)	RM - 205 + (a° × 2,86)	RM - 190 + (a° × 2,08)	RM - 50 + (a° × 2,86)	RM - 65 + (a° × 2,08)
Wicket door **with** threshold rail	RM - 375	RM - 200 + (a° × 3,2)	RM - 215 + (a° × 3,75)	RM - 230 + (a° × 3,2)	RM - 245 + (a° × 3,75)	RM - 100 + (a° × 3,2)	RM - 115 + (a° × 3,75)
Wicket door **without** threshold rail***	RM - 475	RM - 260 + (a° × 3,2)	RM - 280 + (a° × 3,75)	RM - 290 + (a° × 3,2)	RM - 310 + (a° × 3,75)	RM - 165 + (a° × 3,2)	RM - 180 + (a° × 3,75)

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

– Not possible
a° Inclination
HKZ Chain hoist
LZ Clear frame dimensions
RM Grid height

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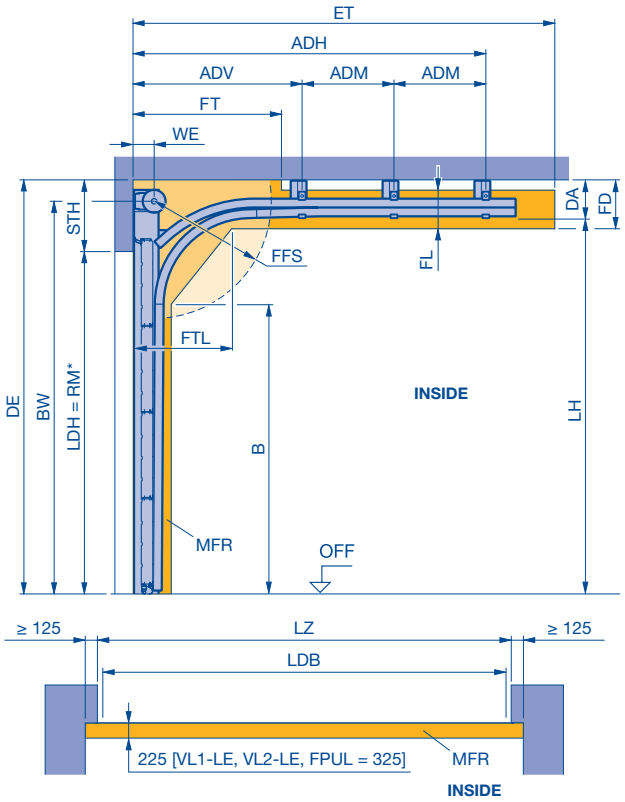
Track application: N

Normal track application

Detailed technical data 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
B Start of double radius
BW Position of shaft support
DA Min. distance to ceiling
DAL Anchor length
DE Min. ceiling height
ET Min. distance back
FD Min. ceiling clearance
FFS Spring compression clearance
FL Track clearance
FPUL Spring buffers below the track
FT Clearance for door operation
FTL Clearance door section in the double radius
LDB Clear passage width with ThermoFrame (see page 65)
LDH Clear passage height
LH Track height
LZ Clear frame dimensions
MFR Space for fitting the door
OFF Finished floor level
RM Grid height
STH Min. headroom
WE Shaft centre from lintel

Door weights for roof loads:

SPU 67 Thermo	= 450 N/m²
APU 67 Thermo / ALR 67 Thermo	= 500 N/m²
ALR 67 Thermo Glazing	= 600 N/m²

Observe min. sideroom, see page 65.

Notes:

- Be sure to observe the permissible size ranges of the door types on pages 9 – 14 and 17 – 25!
- 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!

* Note:

Observe clear passage height LDH, see page 37.

	STH	WE	DA	BW	FT
N 1	425	140	205	RM + 345	2 × WE
N 2	475	160	253	RM + 370	
N 3	585	180	363	RM + 450	
with double spring shaft	795		563	RM + 450	

B	DE	FFS	FD	FL	FTL	LH
RM - 295	STH + RM	Min. 90° (745)	DA + 65	250	695	RM + 222

	ET***	
N 1 / N 2	RM + 415	Manual operation with short spring buffer
	RM + 685	Shaft operator with long spring buffer
N 3	RM + 685	For manual operation and shaft operator with long spring buffer

*** Simplified calculation

Min. headroom

Track size	Headroom	Track size	Headroom	Track size	Headroom
N 1, NS 1, NK 1	425	GS 1, GK 1	567	V 6	RM + 560
N 2, NS 2, NK 2	475	GS 1, GK 2	617	V 7	RM + 600
N 3	585	L 1, LD 1, L 2, LD 2	250	V 9	RM + 695
NA 1	435	H 4, HD 4	780	VA 6	RM + 570
NA 2	485	H 5, HD 5	840	VS 6, VS 7	**
ND 1	445	H 8, HD 8	880	VS 9	**
ND 2	475	HA 4	790	VU 6	RM + 330
ND 3	585	HU 4, HU 5, HU 8, RD 4, RD 5, RD 8	1775	VU 7	RM + 330
ND 6	525	HS 4, HK 4	805	VU 9	RM + 330
ND 7	545	HS 5, HK 5	835	WS 6, WS 7,WS 9	**
NH 1, GD 1	579	HS 8, HK 8	875		
NH 2, GD 2	644	RS 4, RK 4, RS 5, RK 5	1477		
NH 3	719				Dimensions in mm

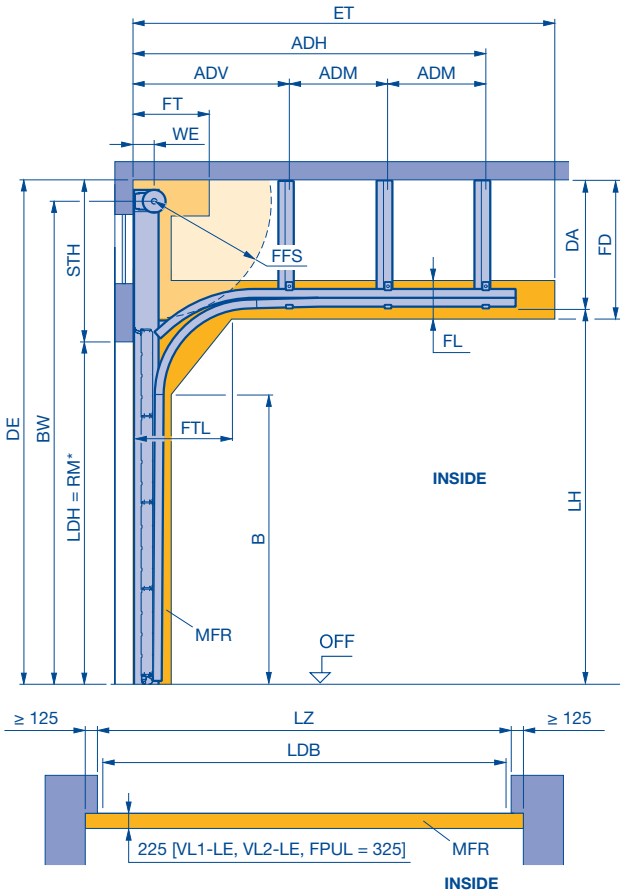
** Dimensions can be found in the product configurator.

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
ADM Distance to central ceiling anchor
ADV Distance to front ceiling anchor
B Start of double radius
BW Position of shaft support
DA Min. distance to ceiling (depends on order)
DE Ceiling height (depends on order)
ET Min. distance back
FD Ceiling clearance
FFS Spring compression clearance
FL Track clearance
FPUL Spring buffers below the track
FT Clearance for door operation
FTL Clearance door section in the double radius
LDB Clear passage width with ThermoFrame (see page 65)
LDH Clear passage height
LH Track height
LZ Clear frame dimensions
MFR Space for fitting the door
OFF Finished floor level
RM Grid height
STH Max. headroom (depends on order)
WE Shaft centre from lintel

Door weights for roof loads:

SPU 67 Thermo	= 450 N/m²
APU 67 Thermo / ALR 67 Thermo	= 500 N/m²
ALR 67 Thermo Glazing	= 600 N/m²

Observe min. sideroom, see page 65.

Notes:

- Be sure to observe the permissible size ranges of the door types on pages 9 – 14 and 17 – 25!
- 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.

*** Note:**

Observe clear passage height LDH, see page 37.

	STH	WE	DA	BW min.	BW max
NA 1	435	140	(BW + 80) - (RM + 222)	RM + 355	7820, DE - 80
NA 2	485	160	(BW + 105) - (RM + 222)	RM + 380	7995, DE - 105

FT	DE	B	FFS
2 × WE	STH + RM	RM - 295	Min. 90° (745)

FD	FL	FTL	LH
DA + 65	250	695	RM + 222

ET**		
NA 1 / NA 2	RM + 415	Manual operation with short spring buffer
	RM + 685	Shaft operator with long spring buffer

** Simplified calculation

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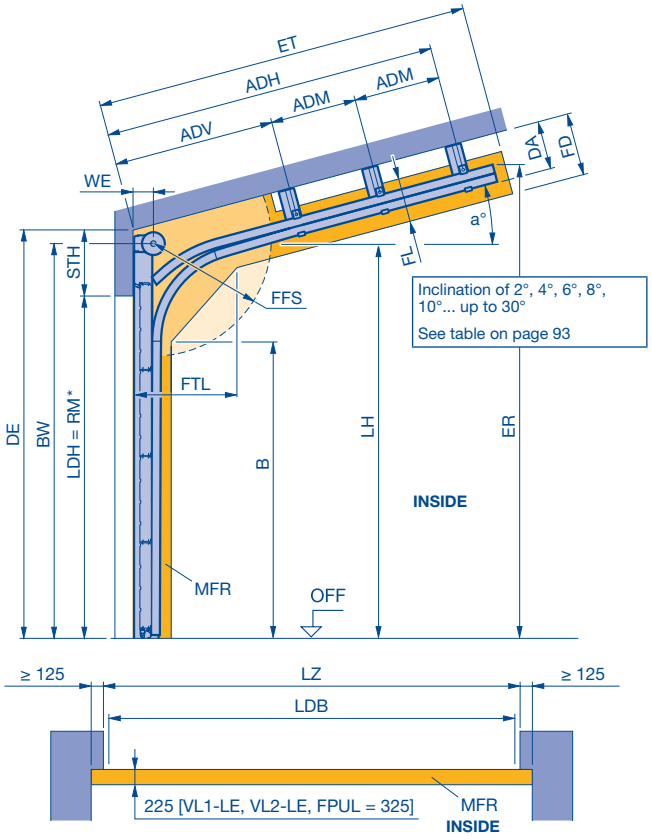
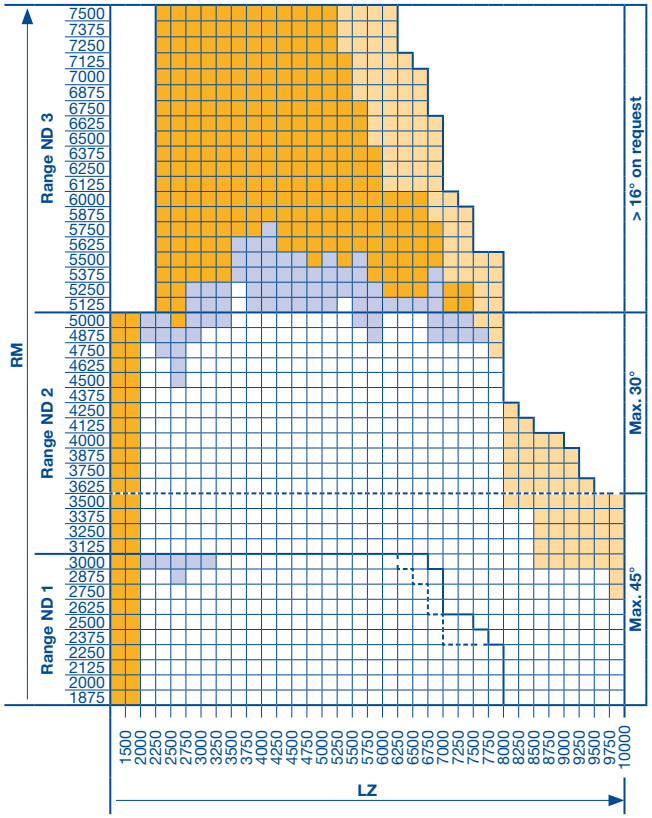
Track application: ND

Normal track application with 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
BW	Position of shaft support
DA	Distance to ceiling on request
DE	Ceiling height
ER	Corner point, top edge of track (depth and height)
ET	Min. distance back
FD	Ceiling clearance
FFS	Spring compression clearance
FL	Track clearance
FPUL	Spring buffers below the track
FTL	Clearance door section in the double radius
LDB	Clear passage width with ThermoFrame (see page 65)
LDH	Clear passage height
LH	Track height
LZ	Clear frame dimensions **(from 1200)**
MFR	Space for fitting the door
OFF	Finished floor level
RM	Grid height
STH	Min. headroom
WE	Shaft centre from lintel

Door weights for roof loads:

SPU 67 Thermo	= 450 N/m²
APU 67 Thermo / ALR 67 Thermo	= 500 N/m²
ALR 67 Thermo Glazing	= 600 N/m²

Observe min. sideroom, see page 65.

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.

*** Note:**

Observe clear passage height LDH, see page 37.

Note:

- Be sure to observe the permissible size ranges of the door types on pages 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing and doors with wicket door on request.
- To determine the roof slope see page 93.
- Roof slope on request for RM ≤ 3500 and > 30° or > 3500° and > 16°.

	STH	WE	BW	FT	FTL
ND 1, ≤ 30°	435	140	RM + 365	2 × WE	695, < 16° 525, ≥ 16°
ND 2, ≤ 30°	475	160	RM + 370		
ND 3, ≤ 30°	585	180	RM + 450		695, < 16° 525, ≥ 16°
With double spring shaft	795		RM + 450		

ET	DA	DE	FFS	FD	FL	LH	ER	B
**	**	STH + RM	Min. 90° (745)	DA + 65	250	**	**	**

** Dimensions can be found in the product configurator.

All door types available in any version.

Door types APU 67 Thermo and ALR 67 Thermo on request.

Door type SPU 67 Thermo on request (APU 67 Thermo and ALR 67 Thermo not possible).

On request

Track limit for SPU 67 Thermo

Track limit for APU 67 Thermo and ALR 67 Thermo

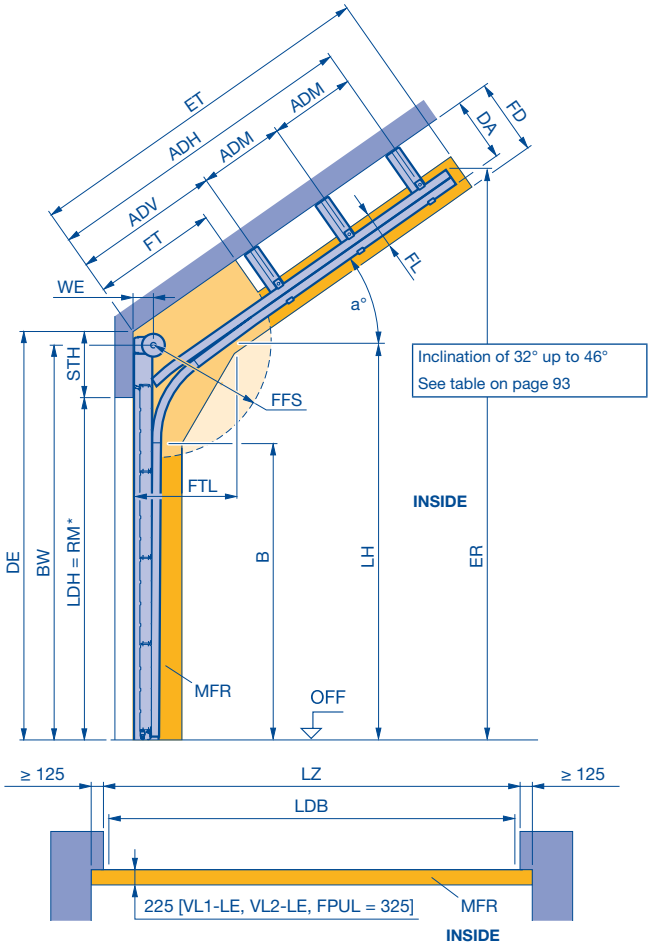
Dimensions in mm

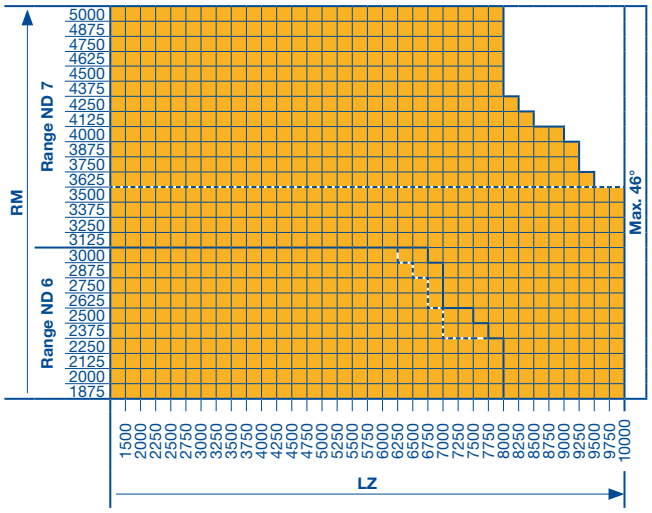
Track application: ND

Normal track application

With inclination of 32° up to max. 46

Detailed technical data can be found in the product configurator.





a°	Inclination
ADH	Distance to rear ceiling anchor
ADM	Distance to central ceiling anchor
ADV	Distance to front ceiling anchor
B	Start of double radius
BW	Position of shaft support
DA	Distance to ceiling on request
DE	Ceiling height
ER	Corner point, top edge of track (depth and height)
ET	Min. distance back
FD	Ceiling clearance
FFS	Spring compression clearance
FL	Track clearance
FPUL	Spring buffers below the track
FTL	Clearance door section in the double radius
LDB	Clear passage width with ThermoFrame (see page 65)
LDH	Clear passage height
LH	Track height
LZ	Clear frame dimensions **(from 1200)**
MFR	Space for fitting the door
OFF	Finished floor level
RM	Grid height
STH	Min. headroom
WE	Shaft centre from lintel

Door weights for roof loads:

SPU 67 Thermo	= 450 N/m²
APU 67 Thermo / ALR 67 Thermo	= 500 N/m²
ALR 67 Thermo Glazing	= 600 N/m²

Observe min. sideroom, see page 65.

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.

*** Note:**

Observe clear passage height LDH, see page 37.

Note:

- Be sure to observe the permissible size ranges of the door types on pages 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing and doors with wicket door on request.
- To determine the roof slope see page 93.

	STH	WE	BW	FT	FTL
ND 6, ≥ 32°	525	160	RM + 420	2 × WE	525
ND 7, ≥ 32°	535	180	RM + 440		

ET	DA	DE	FFS	FD	FL	LH	ER	B
**	**	STH + RM	Min. 90° (745)	DA + 65	250	**	**	**

** Dimensions can be found in the product configurator.

On request

Track limit for SPU 67 Thermo

Track limit for APU 67 Thermo and ALR 67 Thermo

Dimensions in mm

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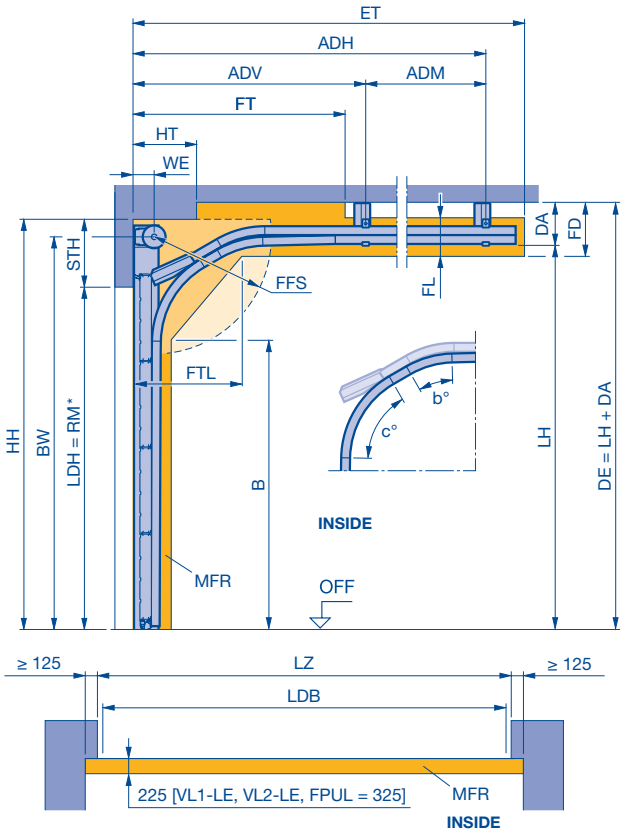
Track application: NS

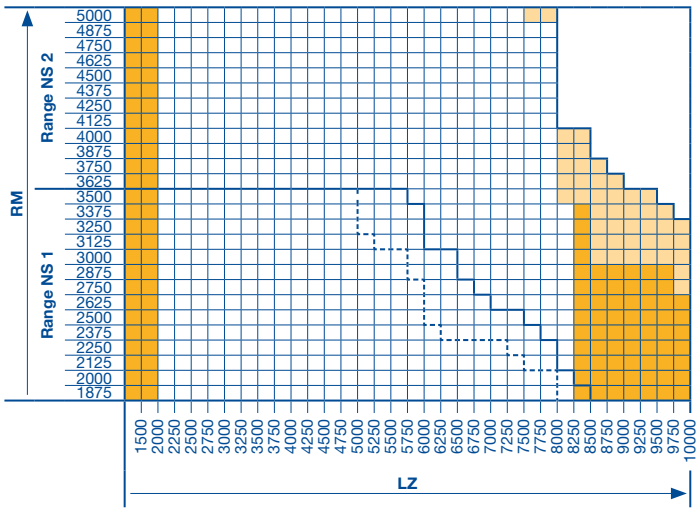
Normal track application with double radius

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 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing and doors with wicket door on request



b°/c° Contour angle
ADH Distance to rear ceiling anchor
ADM Distance to central ceiling anchor
ADV Distance to front ceiling anchor
B Start of double radius
BW Position of shaft support
DA Min. distance to ceiling
DE Ceiling height
ET Min. distance back on request
FD Ceiling clearance
FFS Spring compression clearance
FPUL Spring buffers below the track
FT Clearance for door operation
FTL Clearance door section in the double radius
HH Obstruction height
HT Obstruction depth
LH Track height
LDB Clear passage width with ThermoFrame (see page 65)
LDH Clear passage height
LZ Clear frame dimensions **(from 1200)**
MFR Space for fitting the door
OFF Finished floor level
RM Grid height
STH Min. headroom
WE Shaft centre from lintel

Door weights for roof loads:

SPU 67 Thermo	= 450 N/m²
APU 67 Thermo / ALR 67 Thermo	= 500 N/m²
ALR 67 Thermo Glazing	= 600 N/m²

Observe min. sideroom, see page 65.

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.

*** Note:**

Observe clear passage height LDH, see page 37.

	STH	WE	DA	BW
NS 1	425	140	205	RM + 345
NS 2	475	160		RM + 370

FT	DE	B	ET	FFS	FD	FL	FTL	LH
2 × WE	LH + 203	**	**	Min. 90° (745)	DA + 65	250	**	**

** Dimensions can be found in the product configurator.

All door types available in any version.

Door type SPU 67 Thermo on request (APU 67 Thermo and ALR 67 Thermo not possible).

On request

Track limit for SPU 67 Thermo

Track limit for APU 67 Thermo and ALR 67 Thermo

Dimensions in mm

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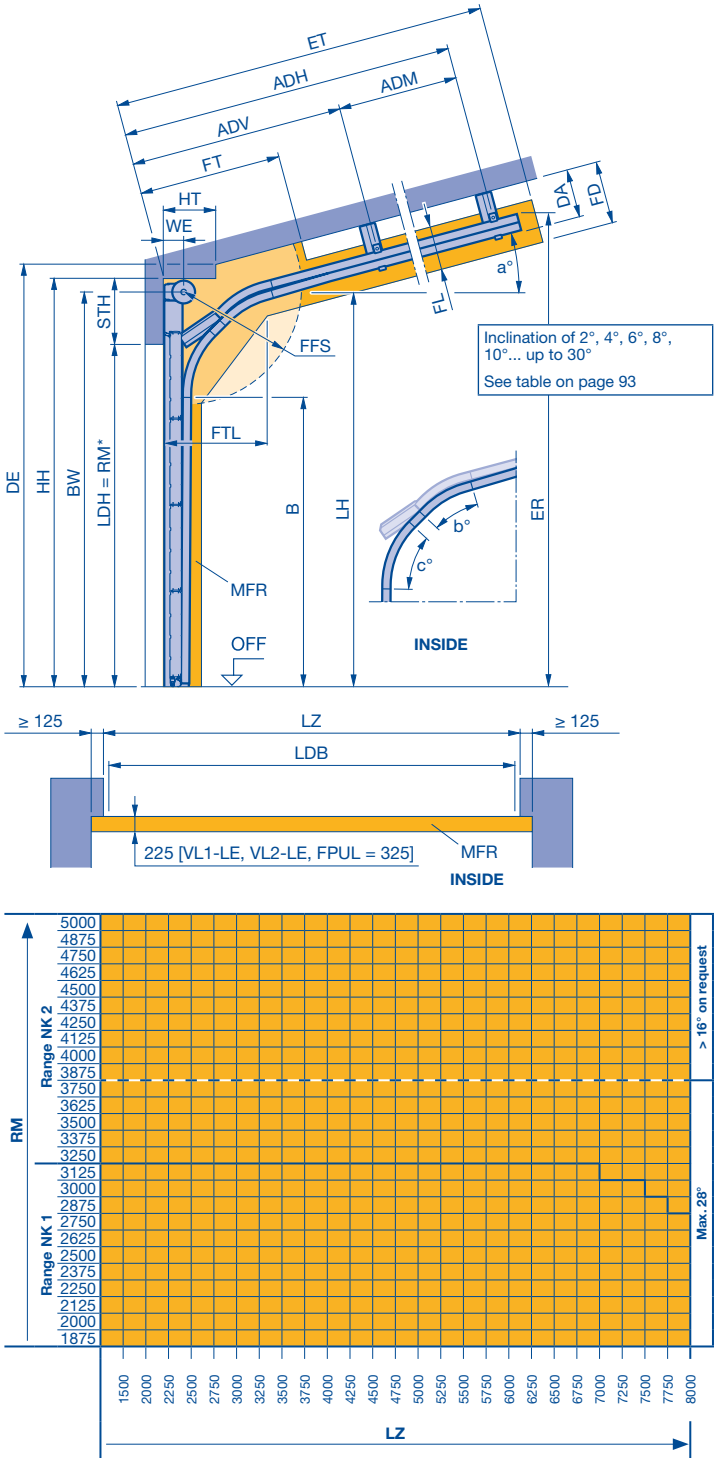
Track application: NK

Normal track application
with double radius and inclination up to max. 30°

Detailed technical data can be found in the product configurator.



a° Inclination
b°/c° Contour angle
ADH Distance to rear ceiling anchor
ADM Distance to central ceiling anchor
ADV Distance to front ceiling anchor
B Start of double radius
BW Position of shaft support
DA Distance to ceiling on request
DE Ceiling height
ER Top edge corner point Track height (depth and height)
ET Min. distance back
FD Ceiling clearance
FFS Spring compression clearance
FL Track clearance
FPUL Spring buffers below the track
FT Clearance for door operation
FTL Clearance door section in the double radius
HH Obstruction height
HT Obstruction depth
LDB Clear passage width with ThermoFrame (see page 65)
LDH Clear passage height
LH Track height
LZ Clear frame dimensions **(from 1200)**
MFR Space for fitting the door
OFF Finished floor level
RM Grid height
STH Min. headroom
WE Shaft centre from lintel

Door weights for roof loads:

SPU 67 Thermo	= 450 N/m²
APU 67 Thermo / ALR 67 Thermo	= 500 N/m²
ALR 67 Thermo Glazing	= 600 N/m²

Observe min. sideroom, see page 65.

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 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing and doors with wicket door on request.
- To determine the roof slope see page 93.

* Note:

Observe clear passage height LDH, see page 37.

	STH	WE	DA	BW
NK 1	425	140	205	RM + 345
NK 2	475	160		RM + 370

FT	DE	B	ET	FFS	FD	FL	FTL	LH
2 × WE	LH + 203	**	**	Min. 90° (745)	DA + 65	250	**	**

** Dimensions can be found in the product configurator.

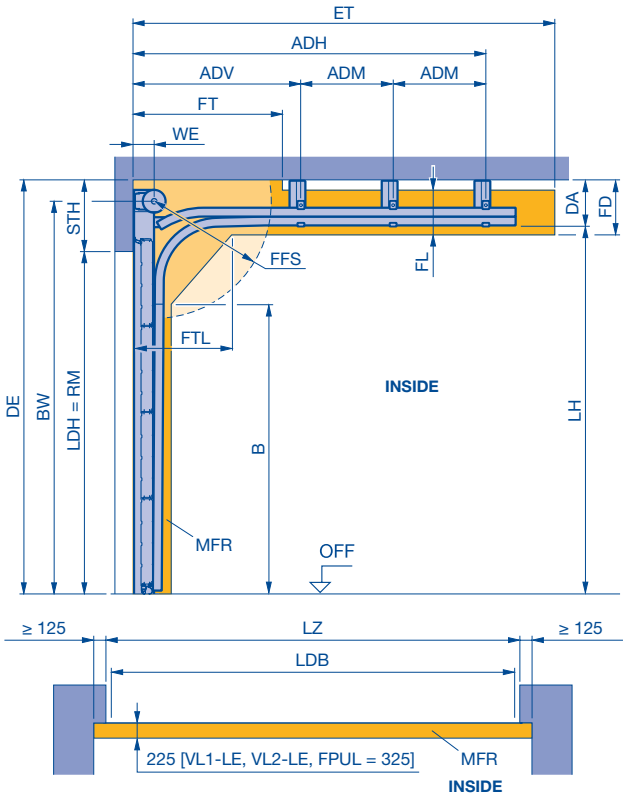
All door types and versions on request.

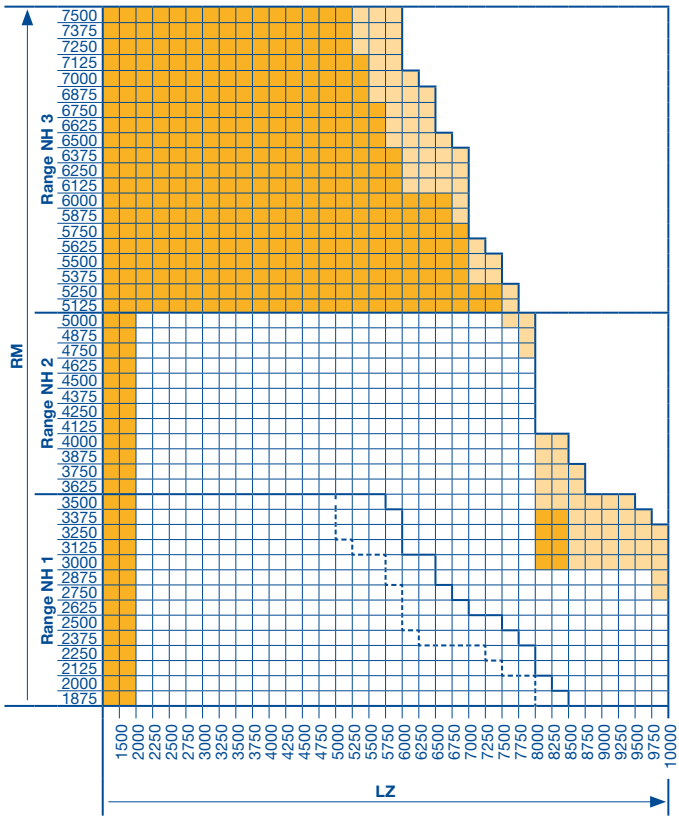
Dimensions in mm

Track application: NH

Normal track application with minimum high-lift

Detailed technical data 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
B	Start of double radius
BW	Position of shaft support
DA	Min. distance to ceiling
DE	Ceiling height
ET	Min. distance back
FD	Ceiling clearance
FFS	Spring compression clearance
FL	Track clearance
FPUL	Spring buffers below the track
FT	Clearance for door operation
FTL	Clearance door section in the double radius
L	Anchor length
LDB	Clear passage width with ThermoFrame (see page 65)
LDH	Clear passage height
LH	Track height
LZ	Clear frame dimensions **(from 1200)**
MFR	Space for fitting the door
OFF	Finished floor level
RM	Grid height
STH	Min. headroom
WE	Shaft centre from lintel
RM	Grid height
STH	Min. headroom
WE	Shaft centre from lintel

Door weights for roof loads:

SPU 67 Thermo	= 450 N/m²
APU 67 Thermo / ALR 67 Thermo	= 500 N/m²
ALR 67 Thermo Glazing	= 600 N/m²

Observe min. sideroom, see page 65.

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 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing and doors with wicket door on request.

	STH	WE	DA	BW
NH 1	579	140	225	LH + 140
NH 2	644	160	290	LH + 180
NH 3	719	180	365	LH + 225
with double spring shaft	760		565	

FT	DE	B	FFS	FD	FL	FTL	LH	ET
2 × WE	STH + RM	LH - 366	Min. 90° (745)	DA + 65	275	670	Min. RM + 354 Max. RM + 500	**

** Dimensions can be found in the product configurator.

All door types available in any version.

Door type SPU 67 Thermo on request (APU 67 Thermo and ALR 67 Thermo not possible).

On request

Track limit for SPU 67 Thermo

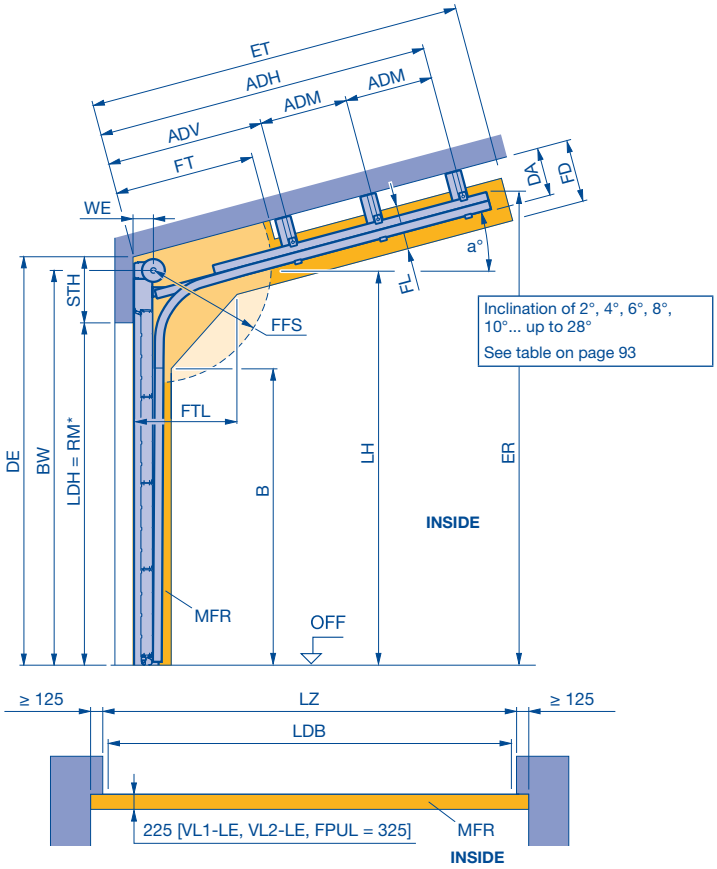
Track limit for APU 67 Thermo and ALR 67 Thermo

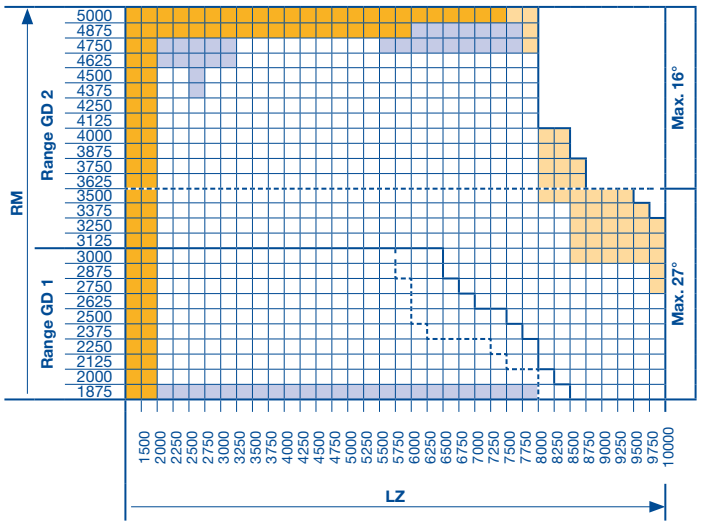
Dimensions in mm

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
ADH	Distance to rear ceiling anchor
ADM	Distance to central ceiling anchor
ADV	Distance to front ceiling anchor
B	Start of double radius, factory specification
BW	Position of shaft support
DA	Distance to ceiling on request
DE	Ceiling height
ER	Top edge corner point Track height (depth and height)
ET	Min. distance back
FD	Ceiling clearance
FFS	Spring compression clearance
FL	Track clearance
FPUL	Spring buffers below the track
FT	Clearance for door operation
FTL	Clearance door section in the double radius
LDB	Clear passage width with ThermoFrame (see page 65)
LDH	Clear passage height
LH	Track height
LZ	Clear frame dimensions **(from 1200)**
MFR	Space for fitting the door
OFF	Finished floor level
RM	Grid height
STH	Min. headroom
WE	Shaft centre from lintel

Door weights for roof loads:

SPU 67 Thermo	= 450 N/m²
APU 67 Thermo / ALR 67 Thermo	= 500 N/m²
ALR 67 Thermo Glazing	= 600 N/m²

Observe min. sideroom, see page 65.

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 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing and doors with wicket door on request.
- To determine the roof slope see page 93.

	STH	WE	DA	BW	FT	DE
GD 1	579	140	**	LH + 140	2 × WE	STH + RM
GD 2	644	160		LH + 180		

ET	B	FFS	FD	FL	FTL	LH	ER
**	LH -366	Min. 90° (745)	DA + 65	275	670	Min. RM + 354 Max. RM + 500	**

** Dimensions can be found in the product configurator.

All door types available in any version.

Door types APU 67 Thermo and ALR 67 Thermo on request.

Door type SPU 67 Thermo on request (APU 67 Thermo and ALR 67 Thermo not possible).

On request

Track limit for SPU 67 Thermo

Track limit for APU 67 Thermo and ALR 67 Thermo

Dimensions in mm

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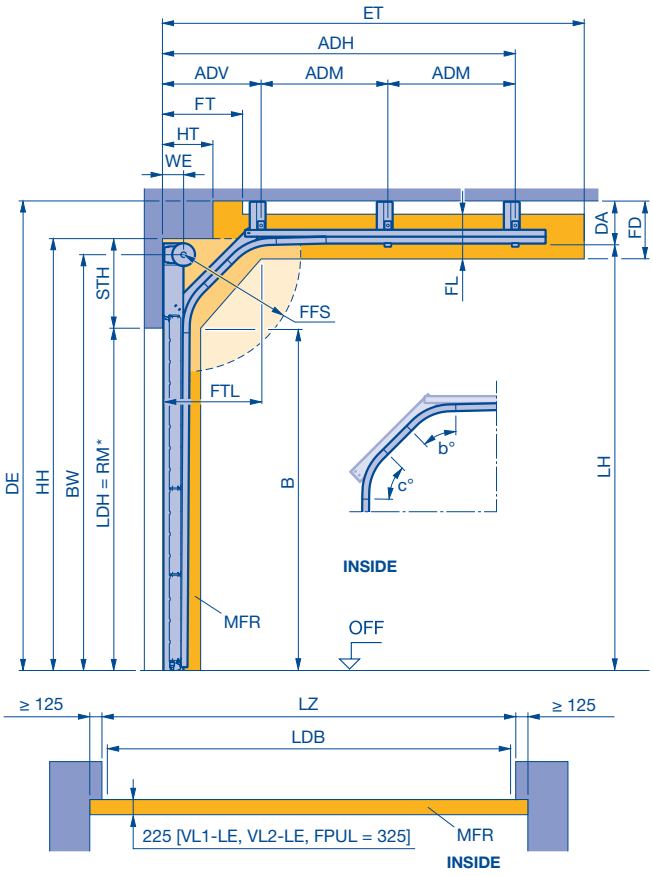
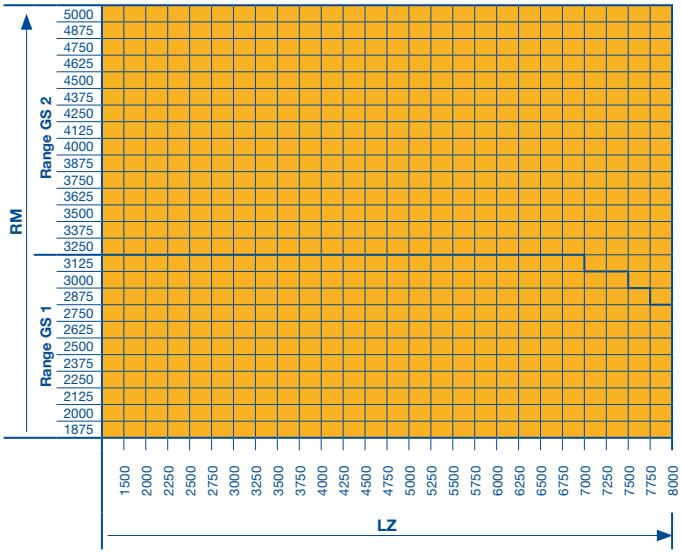
Track application: GS

Normal track application
with double radius and minimum high-lift

Detailed technical data can be found in the product configurator.





b°/c°	Contour angle
ADH	Distance to rear ceiling anchor
ADM	Distance to central ceiling anchor
ADV	Distance to front ceiling anchor
B	Start of double radius, factory specification
BW	Position of shaft support
DA	Distance to ceiling on request
DE	Ceiling height
ET	Min. distance back
FD	Ceiling clearance
FFS	Spring compression clearance
FL	Track clearance
FPUL	Spring buffers below the track
FT	Clearance for door operation
FTL	Clearance door section in the double radius
HH	Obstruction height
HT	Obstruction depth
LDB	Clear passage width with ThermoFrame (see page 65)
LDH	Clear passage height
LH	Track height
LZ	Clear frame dimensions **(from 1200)**
MFR	Space for fitting the door
OFF	Finished floor level
RM	Grid height
STH	Min. headroom
WE	Shaft centre from lintel

Door weights for roof loads:

SPU 67 Thermo	= 450 N/m²
APU 67 Thermo / ALR 67 Thermo	= 500 N/m²
ALR 67 Thermo Glazing	= 600 N/m²

Observe min. sideroom, see page 65.

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 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing and doors with wicket door on request.
- To determine the roof slope see page 93.

	STH	WE	DA	BW	FT	DE
GS 1	567	140	205	B + 510	2 × WE	LH + 183
GS 2	617	160		B + 535		

FFS	FD	FL	FTL	LH	ET
Min. 90° (745)	DA + 65	275	**	**	**

** Dimensions can be found in the product configurator.

All door types and versions on request.

Dimensions in mm

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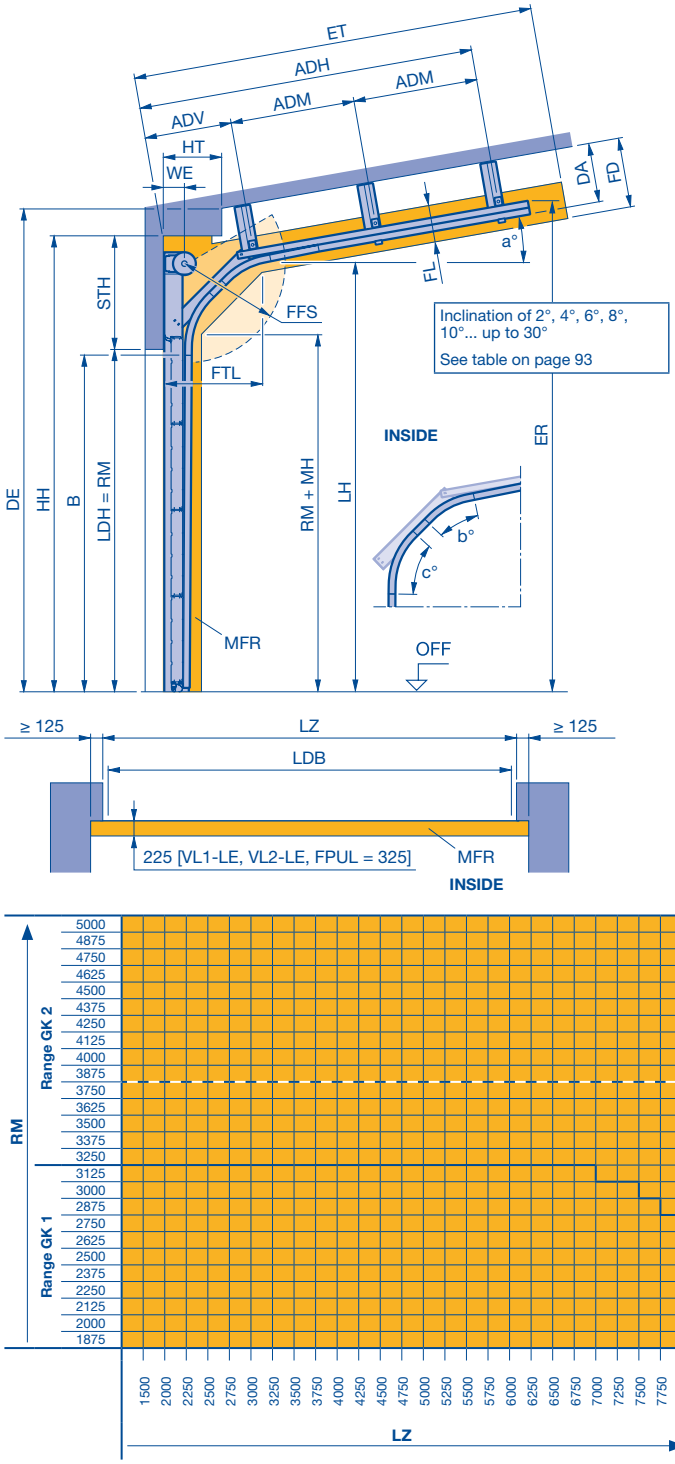
Track application: GK

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
b°/c°	Contour angle
ADH	Distance to rear ceiling anchor
ADM	Distance to central ceiling anchor
ADV	Distance to front ceiling anchor
B	Start of double radius, factory specification
BW	Position of shaft support
DA	Distance to ceiling on request
DE	Ceiling height
ER	Top edge corner point Track height (depth and height)
ET	Min. distance back
FD	Ceiling clearance
FFS	Spring compression clearance
FL	Track clearance
FPUL	Spring buffers below the track
FT	Clearance for door operation
FTL	Clearance door section in the double radius
HH	Obstruction height
HT	Obstruction depth
LDB	Clear passage width with ThermoFrame (see page 65)
LDH	Clear passage height
LH	Track height
LZ	Clear frame dimensions **(from 1200)**
MFR	Space for fitting the door
OFF	Finished floor level
RM	Grid height
STH	Min. headroom
WE	Shaft centre from lintel

Door weights for roof loads:

SPU 67 Thermo	= 450 N/m²
APU 67 Thermo / ALR 67 Thermo	= 500 N/m²
ALR 67 Thermo Glazing	= 600 N/m²

Observe min. sideroom, see page 65.

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 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing and doors with wicket door on request.
- To determine the roof slope see page 93.

	STH	WE	DA	BW	FT	DE
GK 1	567	140	205	B + 510	2 × WE	LH + 183
GK 2	617	160		B + 535		

FFS	FD	FL	FTL	LH	ET
Min. 90° (745)	DA + 65	275	**	**	**

** Dimensions can be found in the product configurator.

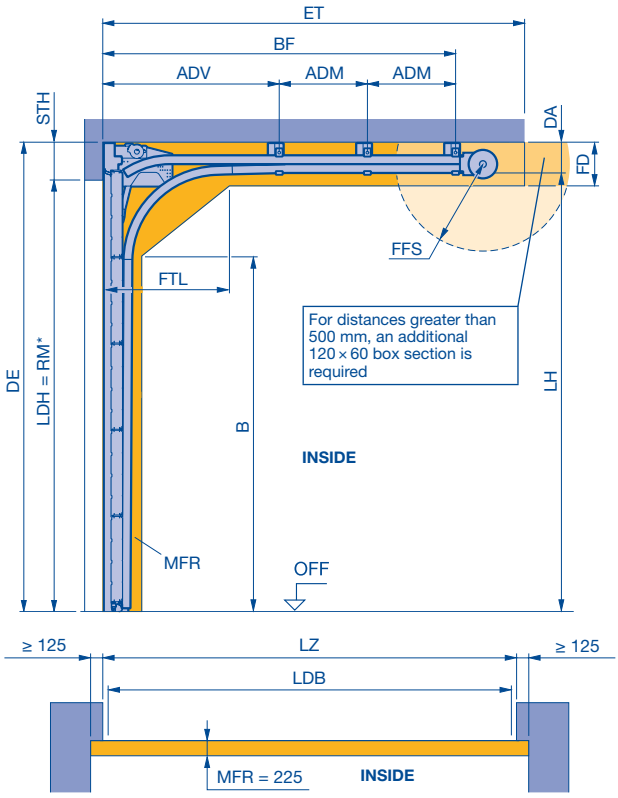
All door types and versions on request.

Dimensions in mm

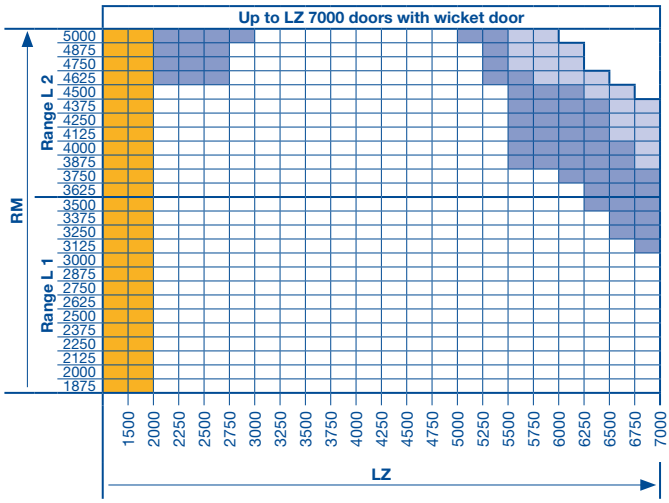
Track application: L

Low headroom track application

Detailed technical data can be found in the product configurator.



MFR = 285	Trap protection for swivel mechanism RM < 2800
MFR = 325	Leading photocell VL1/VL2



ADM	Distance to central ceiling anchor
ADV	Distance to front ceiling anchor
B	Start of double radius
BF	Position of spring shaft
ET	Min. distance back
DA	Min. distance to ceiling
DE	Min. ceiling height
FD	Min. ceiling clearance
FFS	Spring compression clearance
FTL	Clearance door section in the double radius
LH	Track height
LDB	Clear passage width with ThermoFrame (see page 65)
LDH	Clear passage height
LZ	Clear frame dimensions **(from 1200)**
MFR	Space for fitting the door
OFF	Finished floor level
RM	Grid height
STH	Min. headroom

Door weights for roof loads:

SPU 67 Thermo	= 450 N/m²
APU 67 Thermo / ALR 67 Thermo	= 500 N/m²
ALR 67 Thermo Glazing	= 600 N/m²

Observe min. sideroom, see page 65.

Door operation:

- Manually operated: rope or chain hoist (recommended for manual operation!)
- Power-driven: WA 500 / 500 FU only with chain box! ITO only possible without swivel mechanism!
- WA 300 on request!

Notes:

- 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.
- 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 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing on request.

* Note:

Observe clear passage height LDH, see page 37.

B	BF **	DA ***	DE	ET **
LH - 517	RM + 695	191	STH + RM	RM + 1007
FD	**FFS**	**FTL**	**LH**	**STH**
DA + 65	Min. 90° (745)	675	RM + 59	250

** With swivel mechanism, ET = RM + 916 and BF = RM + 604
*** ≥ 500 – 1092 suspension in special length
> 1092 base construction required

All door types available in any version.

All door types on request.

Door type APU 67 Thermo and ALR 67 Thermo on request.

All doors with wicket doors on request.

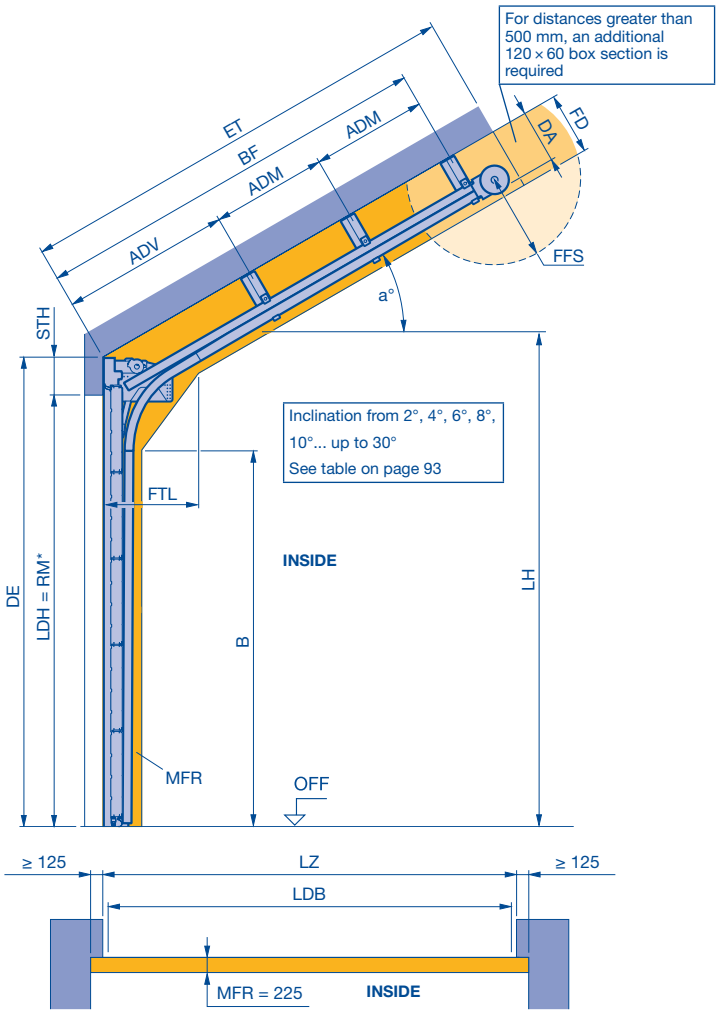
Track limit

Dimensions in mm

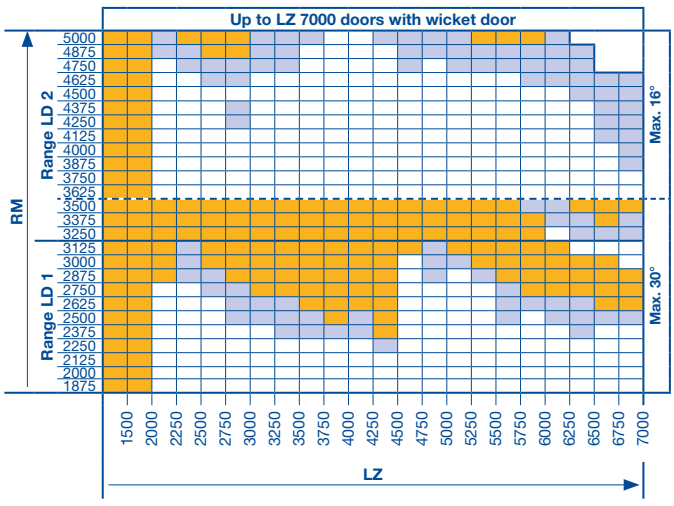
Track application: LD

Low headroom track application with inclination up to max. 30

Detailed technical data can be found in the product configurator.



MFR = 285	Trap protection for swivel mechanism RM < 2800
MFR = 325	Leading photocell VL1/VL2



a°	Inclination
ADM	Distance to central ceiling anchor on request
ADV	Distance to front ceiling anchor
B	Start of double radius on request
BF	Position of spring shaft on request
DA	Distance to ceiling on request
DE	Min. ceiling height
ET	Min. distance back
FD	Min. ceiling clearance
FFS	Spring compression clearance
FTL	Clearance door section in the double radius
LDB	Clear passage width with ThermoFrame (see page 65)
LDH	Clear passage height
LZ	Clear frame dimensions **(from 1200)**
MFR	Space for fitting the door
OFF	Finished floor level
RM	Grid height
STH	Min. headroom

Door weights for roof loads:

SPU 67 Thermo	= 450 N/m²
APU 67 Thermo / ALR 67 Thermo	= 500 N/m²
ALR 67 Thermo Glazing	= 600 N/m²

Observe min. sideroom, see page 65.

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!

Notes:

- 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.
- 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 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing and doors with wicket door as well as glazings with S4, U4, A4, B4, M4, E2, G2, C4 must be requested.
- Doors with WA 300 on request!
- To determine the roof slope see page 93.

* Notes:

- Observe clear passage height LDH, see page 37.
- The swivel mechanism is only possible up to 10°.

	DE	LH	STH	FD
LD 1 / LD 2	STH + RM	**	250	DA + 65

B	DA	FFS	FTL
**	**	Min. 90° (745)	675

** Dimensions can be found in the product configurator.

ET			
LD 1 / LD 2	(RM + 1089) - (3,6 × a°)	a° = 2° - 16°	**without** swivel mechanism
	(RM + 1128) - (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 on request.

Door types APU 67 Thermo and ALR 67 Thermo on request.

Track limit

Dimensions in mm

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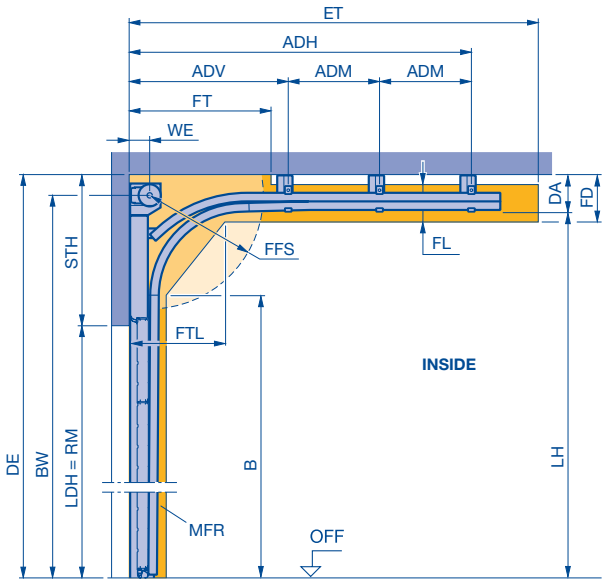
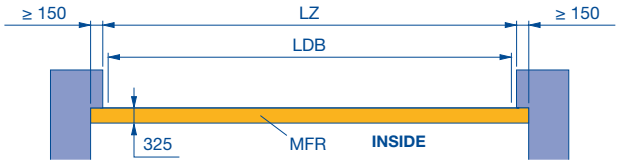
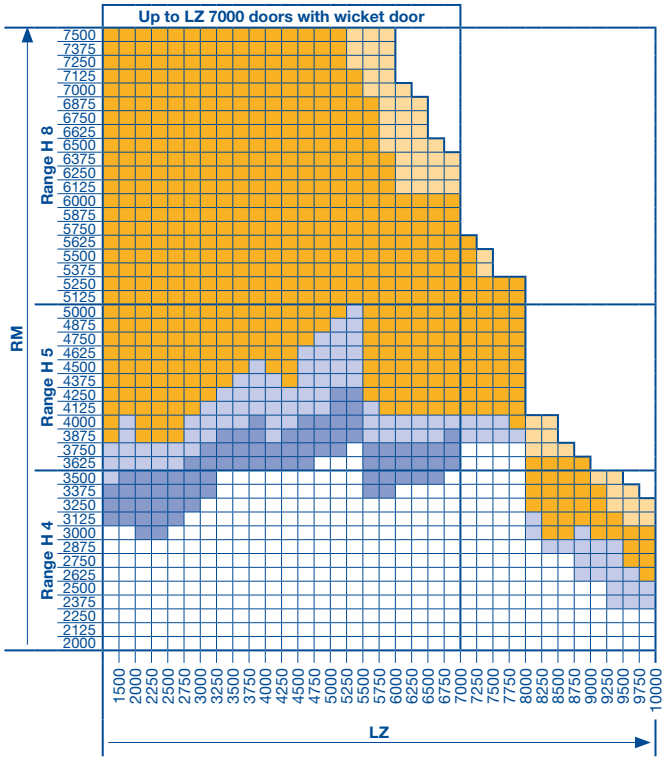
Track application: H

High-lift track application

Detailed technical data can be found in the product configurator.







All door types available in any version.

Door types APU 67 Thermo and ALR 67 Thermo on request.

All door types with wicket door on request.

Door type SPU 67 Thermo on request (APU 67 Thermo and ALR 67 Thermo not possible).

All door types on request.

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 65)
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 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing on request.

Observe min. sideroom, see page 65.

	STH	WE	DA	BW
H 4	LH - RM + 280	160	280	LH + 140
H 5	LH - RM + 340 (515*)	180	340 (515*)	LH + 170
H 8	LH - RM + 380 (540*)	205	380 (540*)	LH + 195

* with double spring shaft

B	DE	FD	FFS	FL	FT	FTL
LH - 513	STH + RM	DA + 65	Min. 90° (745)	275	2 × WE	675

	ET*	
H 4 / H 5	2 × RM - LH + 982 + 297	For manual operation with long spring buffer (standard)
	2 × RM - LH + 712 + 297	For shaft operator with long spring buffer LH – RM ≤ 1000
	2 × RM - LH + 712 + 297	For shaft operator WA 300 with long spring buffer LH – RM > 1000
	2 × RM - LH + 712 + 27	For shaft operator WA 500 / WA 500 FU with spring buffer, short LH – RM > 1000
H 8	2 × RM - LH + 712 + 297	All versions

* Simplified calculation

Table: track heights (LH)

Door height RM	Min. LH	Max. LH		Door height RM	Min. LH	Max. LH	
5000	5500	8350					
4875	5375	8225					
4750	5250	8100					
4625	5125	7975					
4500	5000	7850					
4375	4875	7725	H 5	7500	8605	10250	H 8
4250	4750	7600	H 5	7375	8480	10250	H 8
4125	4625	7475	H 5	7250	8355	10250	H 8
4000	4500	7235	H 5	7125	8230	10250	H 8
3875	4375	6985	H 5	7000	8105	10250	H 8
3750	4250	6735	H 5	6875	7980	10250	H 8
3625	4125	6485	H 5	6750	7855	10200	H 8
3500	4000	6235	H 4	6625	7730	10075	H 8
3375	3875	5985	H 4	6500	7605	9950	H 8
3250	3750	5735	H 4	6375	6875	9825	H 8
3125	3625	5485	H 4	6250	6750	9700	H 8
3000	3500	5235	H 4	6125	6625	9575	H 8
2875	3375	4985	H 4	6000	6500	9450	H 8
2750	3250	4735	H 4	5875	6375	9325	H 8
2625	3125	4485	H 4	5750	6250	9200	H 8
2500	3000	4235	H 4	5625	6125	9075	H 8
2375	2875	3985	H 4	5500	6000	8950	H 8
2250	2750	3735	H 4	5375	5875	8825	H 8
2125	2625	3485	H 4	5250	5750	8700	H 8
2000	2500	3235	H 4	5125	5625	8575	H 8

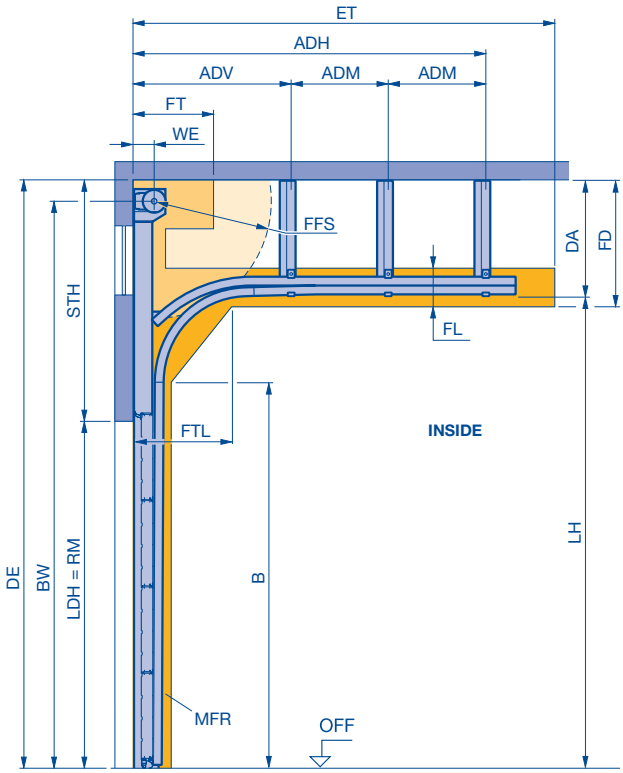
All door types and versions available on request

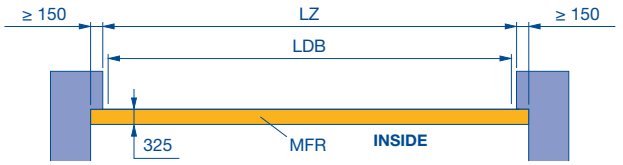
Track application: HA

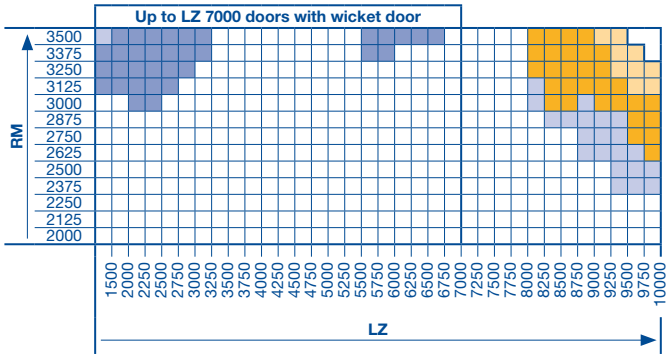
High-lift track application

With high-mounted torsion spring shaft

Detailed technical data can be found in the product configurator.







	ET*	
HA 4	2 × RM - LH + 982 + 297	For manual operation with long spring buffer (standard)
	2 × RM - LH + 712 + 297	For shaft operator with long spring buffer LH – RM ≤ 1000
	2 × RM - LH + 712 + 297	For shaft operator WA 300 with long spring buffer LH – RM > 1000
	2 × RM - LH + 712 + 27	For shaft operator WA 500 / WA 500 FU with spring buffer, short LH – RM > 1000

* Simplified calculation

ADH Distance to rear ceiling anchor
ADM Distance to central ceiling anchor (see page 71)
ADV Distance to front ceiling anchor
B Start of double radius
BW Position of shaft support
DA Min. distance to ceiling
DE Min. ceiling height
ET Min. distance back
FD Ceiling clearance
FFS Spring compression clearance
FL Track clearance
FT Clearance for door operation
FTL Clearance door section in the double radius
LDB Clear passage width with ThermoFrame (see page 65)
LDH Clear passage height
LH Track height
LZ Clear frame dimensions **(from 1200)**
MFR Space for fitting the door
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 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 65.

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

BW max.	FD	FFS	FL	FT	FTL	WE
8120, DE - 140	DA + 65	Min. 90° (745)	275	2 × WE	675	160

Table: track heights (LH)

Door height RM	Min. LH	Max. LH	
3500	4000	6215	HA 4
3375	3875	5965	
3250	3750	5715	
3125	3625	5465	
3000	3500	5215	
2875	3375	4965	
2750	3250	4715	
2625	3125	4465	
2500	3000	4215	
2375	2875	3965	
2250	2750	3715	
2125	2625	3465	
2000	2500	3215	

Notes:
- Be sure to observe the permissible size ranges of the door types on pages 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing on request.

All door types available in any version.

Door types APU 67 Thermo and ALR 67 Thermo on request.

All door types with wicket door on request.

Door type SPU 67 Thermo on request (APU 67 Thermo and ALR 67 Thermo not possible).

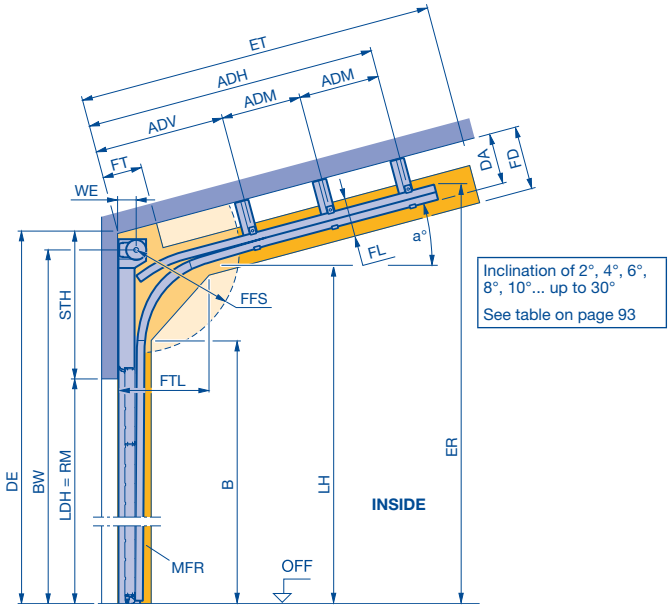
All door types on request.

Dimensions in mm

Track application: HD

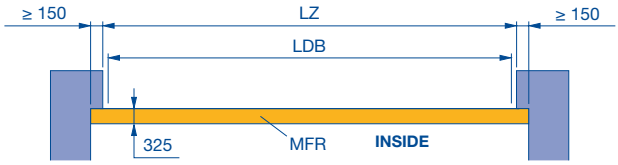
High-lift track application with inclination up to max. 30

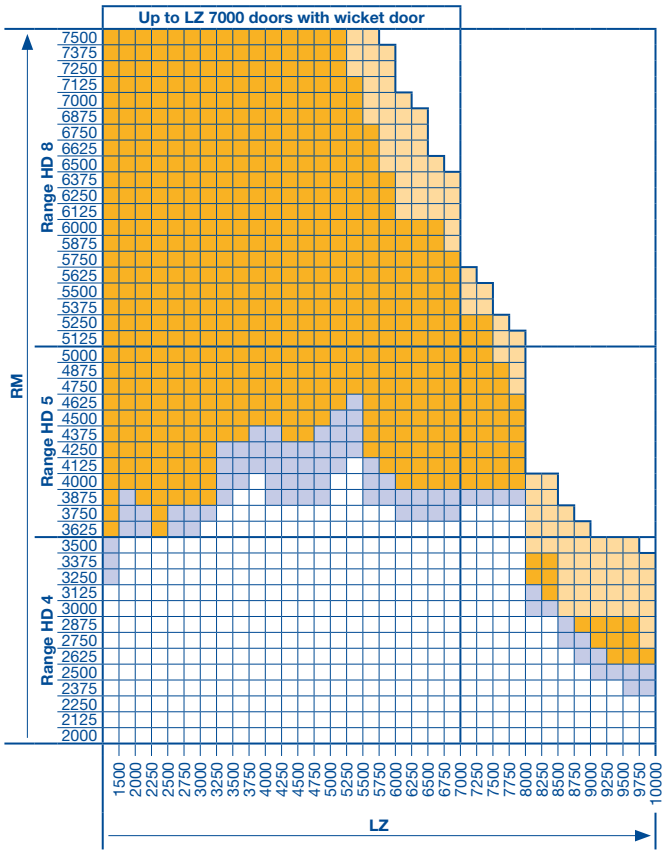
Detailed technical data can be found in the product configurator.



Inclination of 2°, 4°, 6°, 8°, 10°... up to 30°

See table on page 93





a°	Inclination
ADH	Distance to rear ceiling anchor
ADM	Distance to central ceiling anchor on request
ADV	Distance to front ceiling anchor
B	Start of double radius
BW	Position of shaft support
DA	Distance to ceiling on request
DE	Min. ceiling height
ER	Top edge corner point Track height (depth and height)
ET	Min. distance back
FD	Ceiling clearance
FFS	Spring compression clearance
FL	Track clearance
FT	Clearance for door operation
FTL	Clearance door section in the double radius
LDB	Clear passage width with ThermoFrame (see page 65)
LDH	Clear passage height
LH	Track height (see table on page 51)
LZ	Clear frame dimensions **(from 1200)**
MFR	Space for fitting the door
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 51.

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 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing on request.
- To determine the roof slope see page 93.
- Inclination > 10° to 30° on request.

Observe min. sideroom, see page 65.

	STH	BW	WE	DA	B
HD 4	780	LH + 140	160	**	LH - 513
HD 5	840	LH + 170	180		
HD 8	880	LH + 195	205		

FT	FL	FTL	FFS	FD	ET	ER
2 × WE	275	675	Min. 90° (745)	DA + 65	**	**

** Dimensions can be found in the product configurator.

All door types available in any version.

Door types APU 67 Thermo and ALR 67 Thermo on request.

Door type SPU 67 Thermo on request (APU 67 Thermo and ALR 67 Thermo not possible).

All door types on request.

Dimensions in mm

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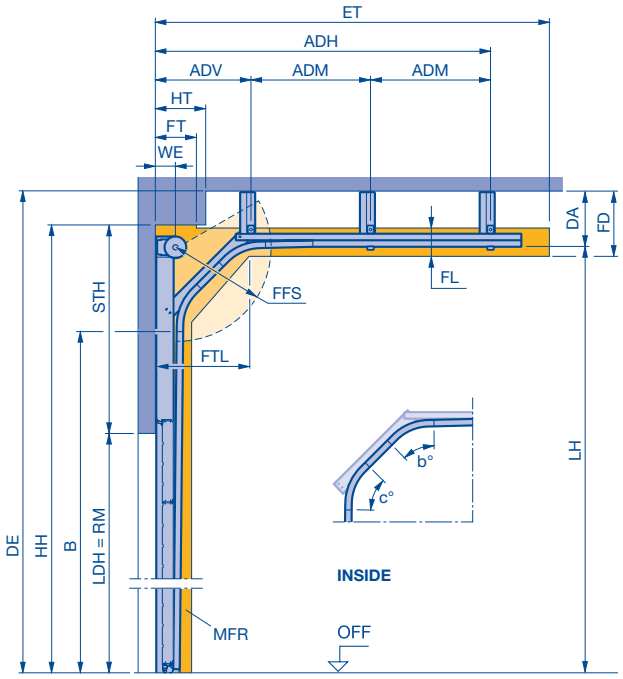
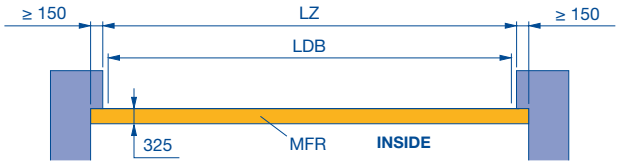
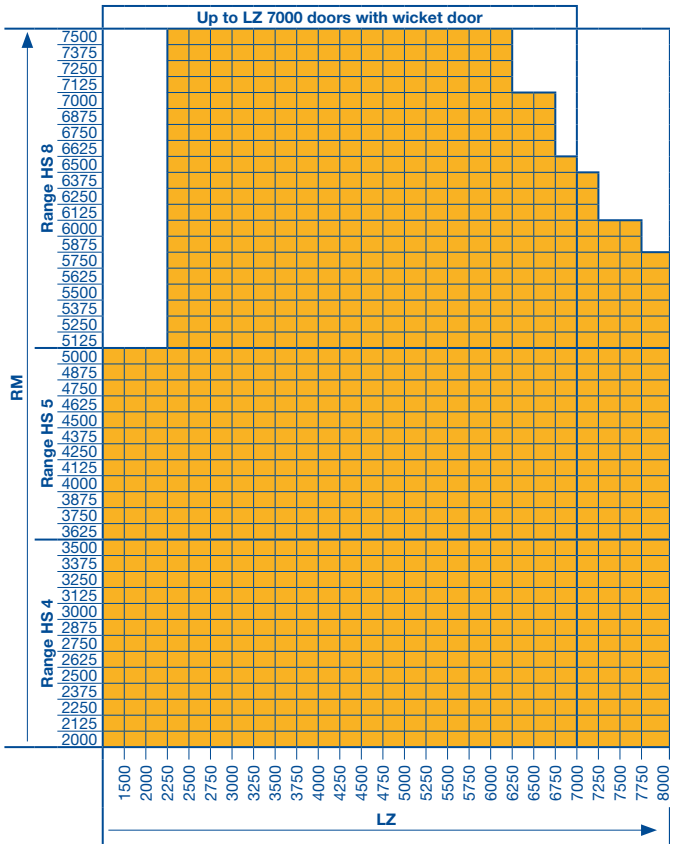
Track application: HS

High-lift track application with double radius

Detailed technical data can be found in the product configurator.







b°/c°	Contour angle
ADH	Distance to rear ceiling anchor
ADM	Distance to central ceiling anchor
ADV	Distance to front ceiling anchor
B	Start of double radius, factory specification
DA	Distance to ceiling on request
DE	Min. ceiling height
ET	Distance back
FD	Ceiling clearance
FFS	Spring compression clearance
FL	Track clearance
FT	Clearance for door operation, on request
FTL	Clearance door section in the double radius
FFW	Spring shaft clearance
HH	Obstruction height
HT	Obstruction depth
LDB	Clear passage width with ThermoFrame (see page 65)
LDH	Clear passage height
LH	Track height
LZ	Clear frame dimensions **(from 1200)**
MFR	Space for fitting the door
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 51.

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 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing on request.

Observe min. sideroom, see page 65.

	STH	WE	DA	DE	B
HS 4	785	160	**	LH + 203	**
HS 5	812	180			
HS 8	852	205			

BW	FT	FL	FTL	FFS	FD	ET	ER
**	2 × WE	275	**	Min. 90° (745)	DA + 65	**	**

** Dimensions can be found in the product configurator.

All door types and versions on request.

Dimensions in mm

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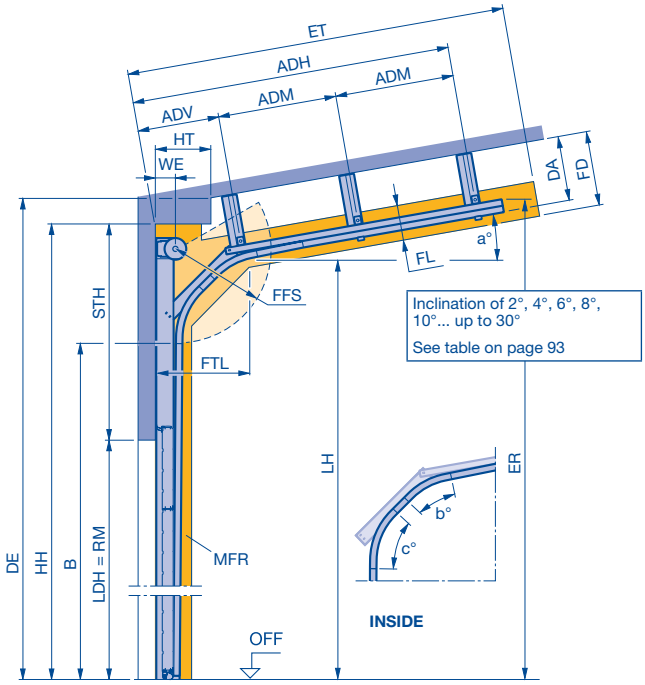
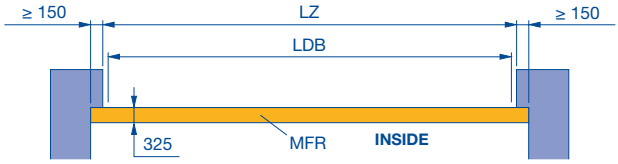
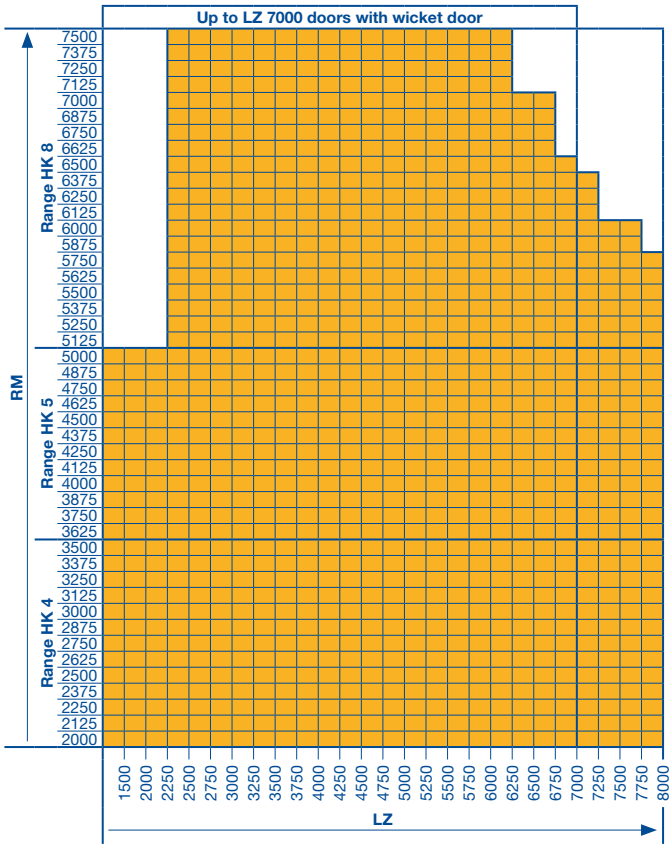
Track application: HK

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
b°/c°	Contour angle
ADH	Distance to rear ceiling anchor
ADM	Distance to central ceiling anchor
ADV	Distance to front ceiling anchor
B	Start of double radius, factory specification
DA	Distance to ceiling on request
DE	Min. ceiling height
ER	Top edge corner point Track height (depth and height)
FD	Ceiling clearance
FFS	Spring compression clearance
FL	Track clearance
FT	Clearance for door operation, on request
FTL	Clearance door section in the double radius
FFW	Spring shaft clearance
HH	Obstruction height
HT	Obstruction depth
LDB	Clear passage width with ThermoFrame (see page 65)
LDH	Clear passage height
LH	Track height
LZ	Clear frame dimensions **(from 1200)**
MFR	Space for fitting the door
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 51.

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 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing on request.
- To determine the roof slope see page 93.
- Roof slope > 10° to 30° on request.

Observe min. sideroom, see page 65.

	STH	WE	DA	DE	B
HK 4	785	160	**	LH + 203	**
HK 5	812	180			
HK 8	852	205			

BW	FT	FL	FTL	FFS	FD	ET	ER
**	2 × WE	275	**	Min. 90° (745)	DA + 65	**	**

** Dimensions can be found in the product configurator.

All door types and versions on request.

Dimensions in mm

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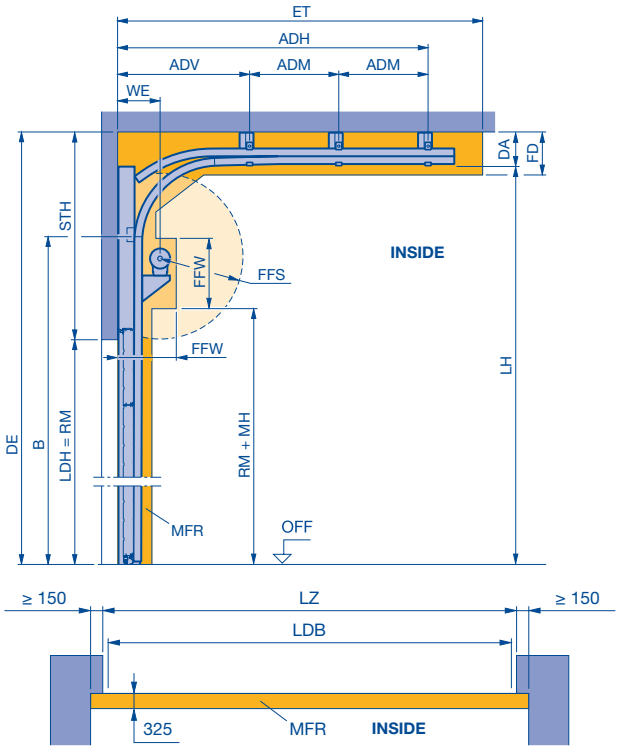
Track application: HU

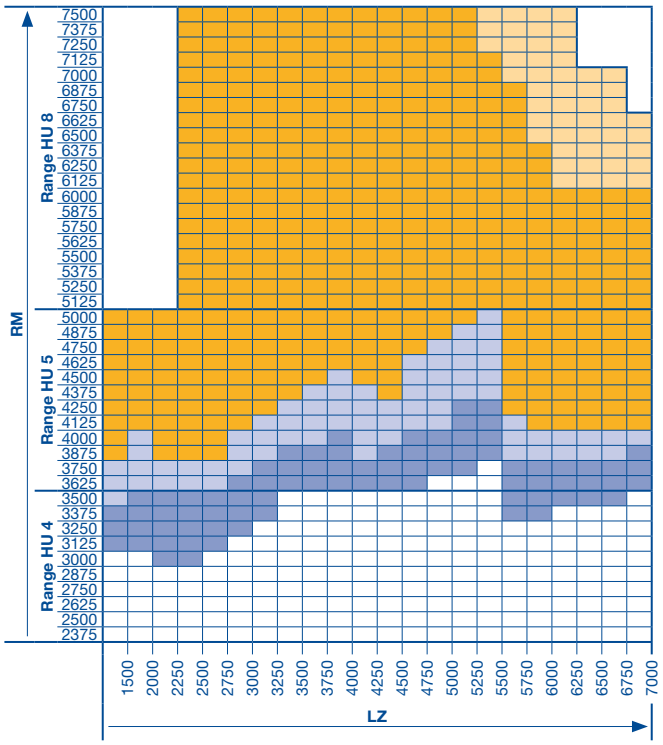
High-lift track application
with low-mounted torsion spring shaft

Detailed technical data can be found in the product configurator.



	ET*	
HU 5	2 × RM - LH + 982 + 297	For manual operation with long spring buffer (standard)
HU 4 / HU 5	2 × RM - LH + 712 + 297	For shaft operator WA 300 with long spring buffer
HU 4 / HU 5	2 × RM - LH + 712 + 27	For shaft operator WA 500 / WA 500 FU with short spring buffer
HU 8	2 × RM - LH + 712 + 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 65)
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 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 65.

	STH	WE	DA	FFW
HU 4	LH - RM + 215	335	215	500 × 850
HU 5		355		540 × 850
HU 8		395		620 × 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					
4875	6435	8225					
4750	6310	8100		7500	9060	10250	
4625	6185	7975		7375	8935	10250	
4500	6060	7850		7250	8810	10250	
4375	5935	7725		7125	8685	10250	
4250	5810	7600	HU 5	7000	8560	10250	HU 8
4125	5685	7475		6875	8435	10250	
4000	5560	7235		6750	8310	10200	
3875	5435	6985		6625	8185	10075	
3750	5310	6735		6500	8060	9950	
3625	5185	6485		6375	7935	9825	
3500	5060	6235		6250	7810	9700	
3375	4935	5985		6125	7685	9575	
3250	4810	5735		6000	7560	9450	
3125	4685	5485		5875	7435	9325	
3000	4560	5235	HU 4	5750	7310	9200	
2875	4435	4985		5625	7185	9075	
2750	4310	4735		5500	7060	8950	
2625	4185	4485		5375	6935	8825	
2500	4060	4235		5250	6810	8700	
2375	3935	3985		5125	6685	8575	

All door types and versions available on request

Notes:
- Be sure to observe the permissible size ranges of the door types on pages 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing on request.

All door types available in any version.

Door types APU 67 Thermo and ALR 67 Thermo on request.

All door types with wicket door on request.

Door type SPU 67 Thermo on request (APU 67 Thermo and ALR 67 Thermo not possible).

All door types on request.

Dimensions in mm

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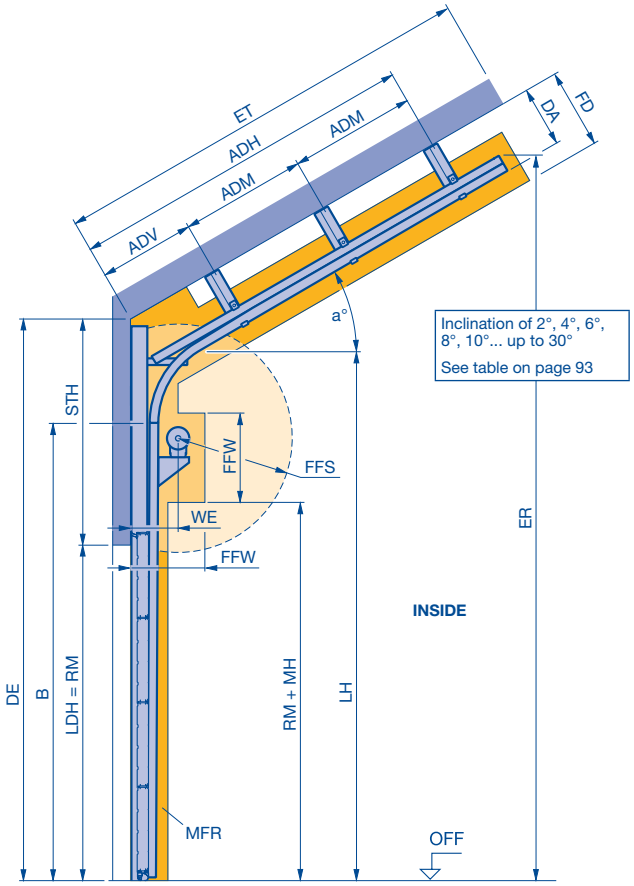
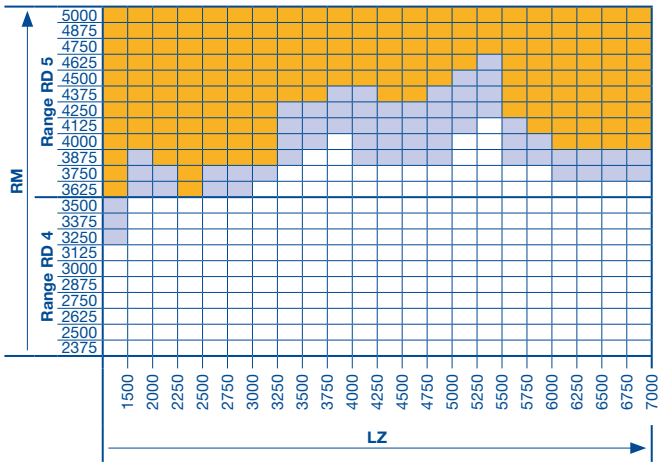
Track application: RD

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 Track height (depth and height)
ET	Min. distance back
FD	Ceiling clearance
FFS	Spring compression clearance
FFW	Spring shaft clearance
LDB	Clear passage width with ThermoFrame (see page 65)
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 56.

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 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing and doors with wicket door on request.
- To determine the roof slope see page 93.
- Inclination > 10° to 30° on request.

Observe min. sideroom, see page 65.

	WE	FFW	STH	DA	DE
RD 4	335	500 × 850	1775	**	STH + RM
RD 5	355	540 × 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.

Door types APU 67 Thermo and ALR 67 Thermo on request.

All door types on request.

All door types and versions on request.

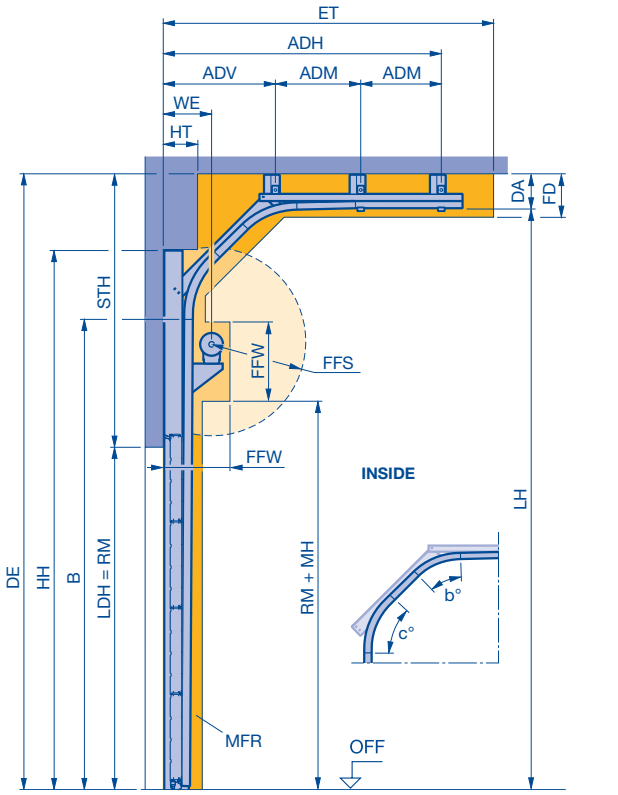
Dimensions in mm

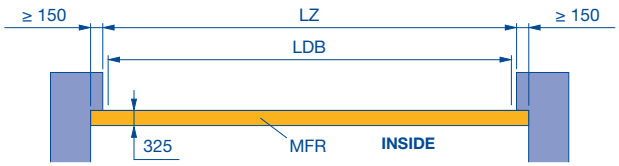
Track application: RS

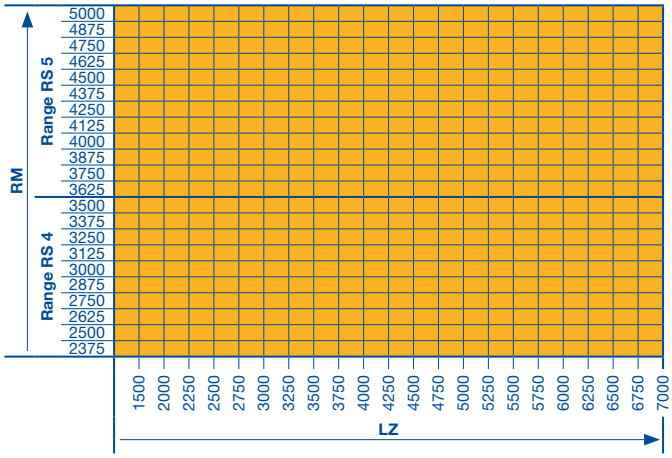
High-lift track application

with double radius and low-mounted torsion spring shaft

Detailed technical data can be found in the product configurator.







b°/c°	Contour angle
ADH	Distance to rear ceiling anchor
ADM	Distance to central ceiling anchor
ADV	Distance to front ceiling anchor
B	Start of double radius, factory specification
DA	Distance to ceiling on request
DE	Min. ceiling height
ET	Distance back
FD	Ceiling clearance
FFS	Spring compression clearance
FFW	Spring shaft clearance
HH	Obstruction height
HT	Obstruction depth
LDB	Clear passage width with ThermoFrame (see page 65)
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 56.

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 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing on request.

Observe min. sideroom, see page 65.

	WE	FFW	STH	DA	DE
RS 4	335	500 × 850	1477	203	LH + 183
RS 5	355	540 × 850			

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

** Dimensions can be found in the product configurator.

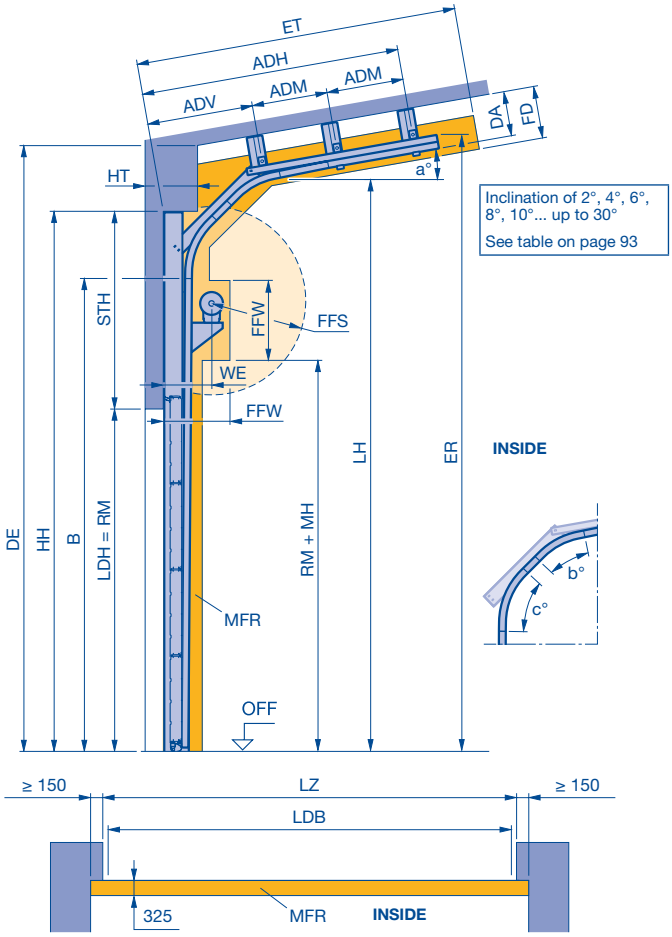
All door types and versions on request.

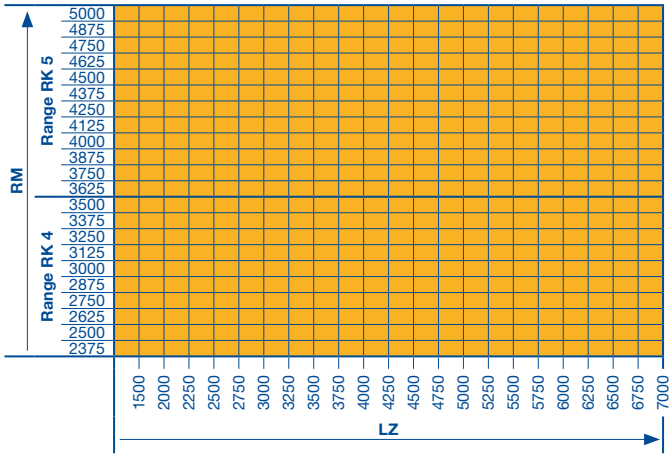
Dimensions in mm

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
b°/c°	Contour angle
ADH	Distance to rear ceiling anchor
ADM	Distance to central ceiling anchor
ADV	Distance to front ceiling anchor
B	Start of double radius, factory specification
DA	Distance to ceiling on request
DE	Min. ceiling height
ER	Top edge corner point Track height (depth and height)
FD	Ceiling clearance
FFS	Spring compression clearance
FFW	Spring shaft clearance
HH	Obstruction height
HT	Obstruction depth
LDB	Clear passage width with ThermoFrame (see page 65)
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 56.

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 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing on request.
- To determine the roof slope see page 93.
- Inclination > 10° to 30° on request.

Observe min. sideroom, see page 65.

	WE	FFW	STH	DA	DE
RK 4	335	500 × 850	1477	203	LH + 183
RK 5	355	540 × 850			

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

** Dimensions can be found in the product configurator.

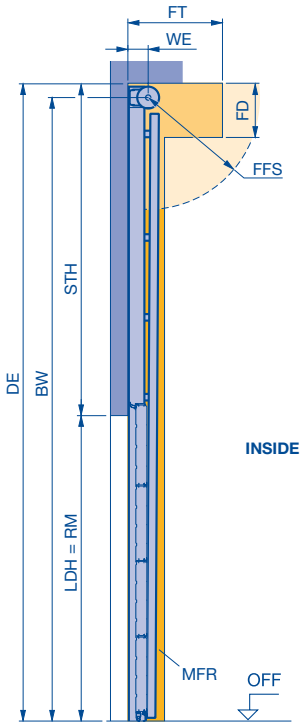
All door types and versions on request.

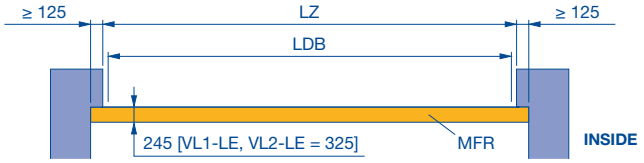
Dimensions in mm

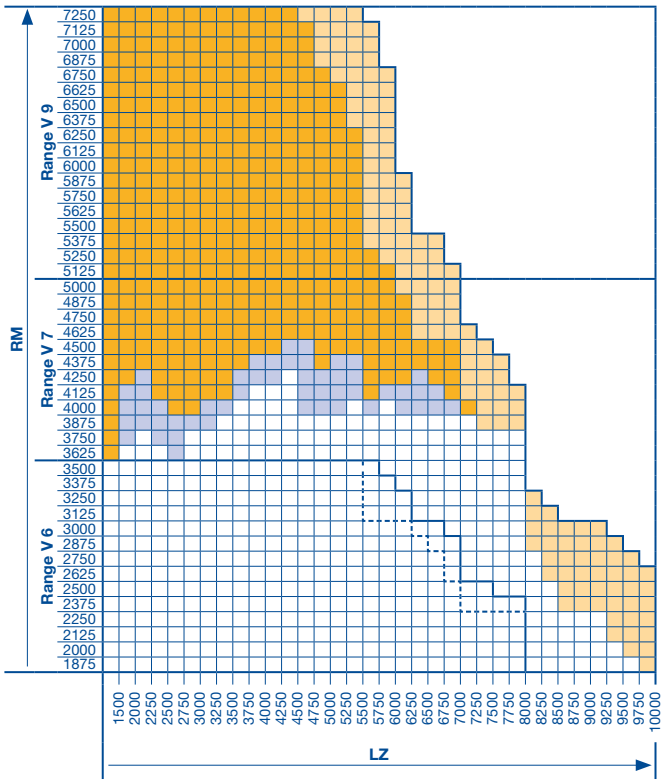
Track application: V

Vertical track application

Detailed technical data can be found in the product configurator.







BW	Position of shaft support
DE	Min. ceiling height
FD	Min. ceiling clearance
FFS	Spring compression clearance
FT	Clearance for door operation
LDB	Clear passage width with ThermoFrame (see page 65)
LDH	Clear passage height
LZ	Clear frame dimensions **(from 1200)**
MFR	Space for fitting the door
OFF	Finished floor level
RM	Grid height
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 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing and doors with wicket door on request.

Observe min. sideroom, see page 65.

	STH	WE	DE	BW
V 6	RM + 560	160	2 × RM + 560	2 × RM + 420
V 7	RM + 600 (790*)	180	2 × RM + 600 (790*)	2 × RM + 445
V 9	RM + 695 (840*)	205	2 × RM + 695 (840*)	2 × RM + 495

* with double spring shaft

FD	FFS	FT
500	Min. 90° (745)	2 × WE

Track limit

Track limit for APU 67 Thermo and ALR 67 Thermo.

All door types available in any version.

Door types APU 67 Thermo and ALR 67 Thermo on request.

Door type SPU 67 Thermo on request (APU 67 Thermo and ALR 67 Thermo not possible).

All door types on request.

Dimensions in mm

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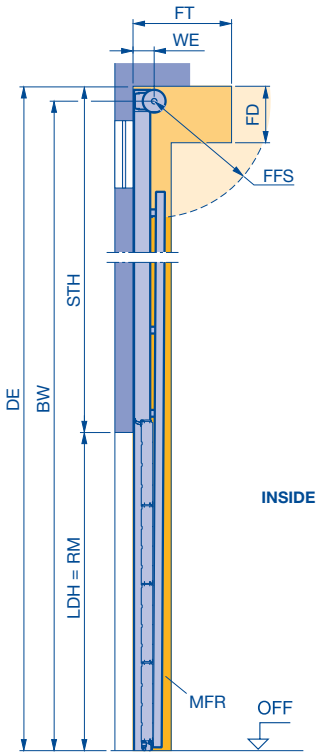
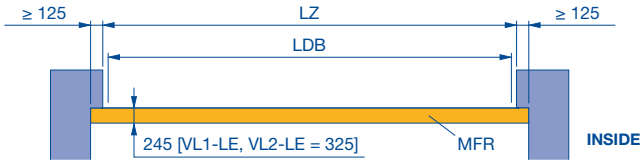
Track application: VA

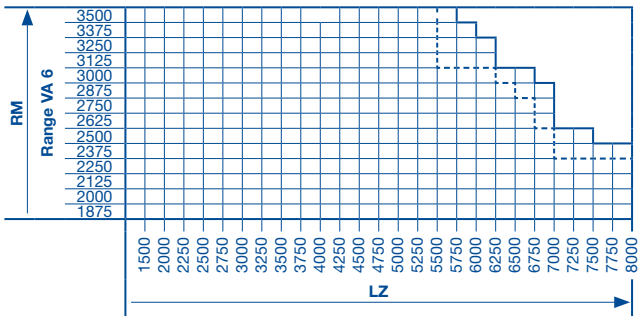
Vertical track application

With high-mounted torsion spring shaft

Detailed technical data can be found in the product configurator.







BW	Position of shaft support
DE	Min. ceiling height
FD	Ceiling clearance
FFS	Spring compression clearance
FT	Clearance for door operation
LDB	Clear passage width with ThermoFrame (see page 65)
LDH	Clear passage height
LZ	Clear frame dimensions **(from 1200)**
MFR	Space for fitting the door
OFF	Finished floor level
RM	Grid height
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 9 – 14 and 17 – 25!

Observe min. sideroom, see page 65.

	STH	DE	BW	WE	FD	FFS	FT
VA 6	RM + 570	BW + 140	Min. 2 × RM + 430 max. DE – 140 (7895)	160	500	min. 90° (745)	2 × WE

Note:
ALR 67 Thermo Glazing and doors with wicket door on request.

Track limit

Track limit for APU 67 Thermo and ALR 67 Thermo.

All door types available in any version.

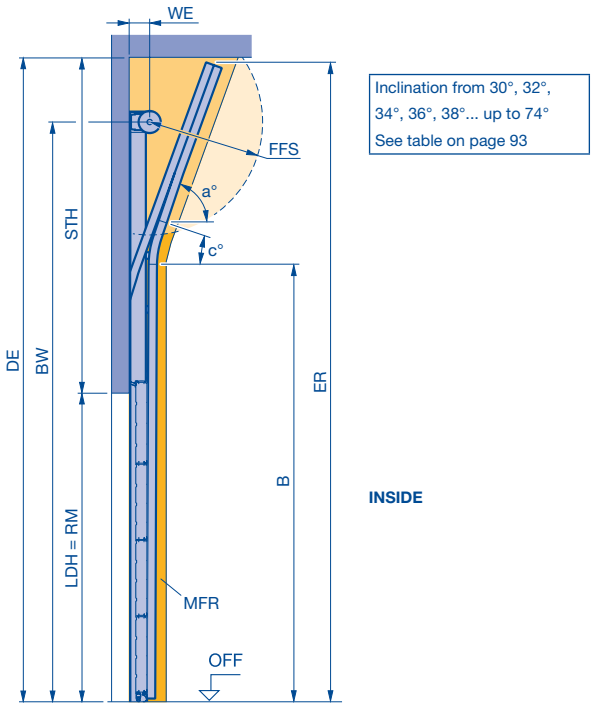
Dimensions in mm

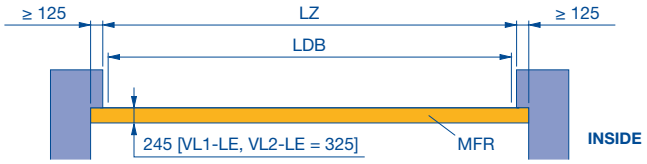
Track application: VS

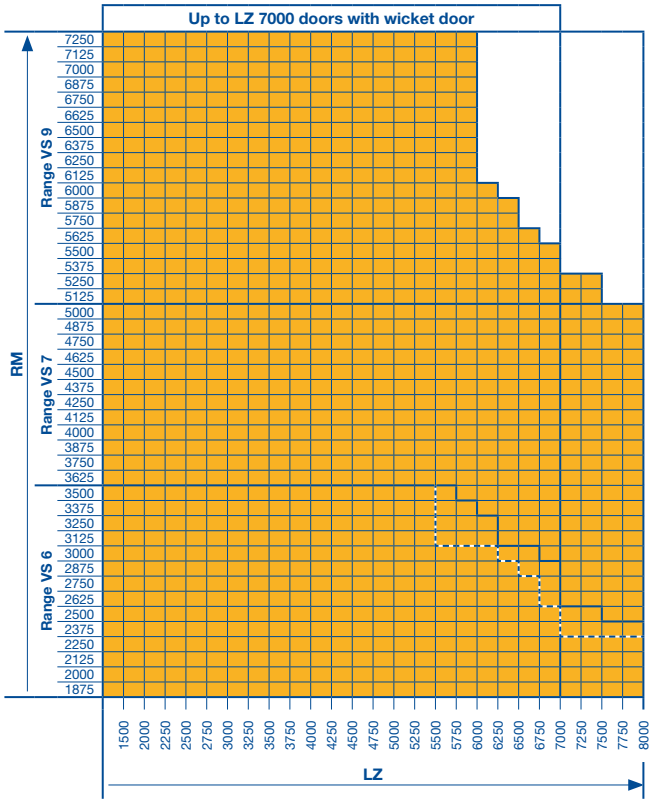
Vertical track application

With inclination

Detailed technical data can be found in the product configurator.







a°	Inclination
c°	Contour angle
B	Start of double radius
BW	Position of shaft support
DE	Min. ceiling height
ER	Top edge corner point Track height (depth and height)
FFS	Spring compression clearance
LDB	Clear passage width with ThermoFrame (see page 65)
LDH	Clear passage height
LZ	Clear frame dimensions **(from 1200)**
MFR	Space for fitting the door
OFF	Finished floor level
RM	Grid height
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.
- A technical inspection is required!
- 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 9 – 14 and 17 – 25!

Observe min. sideroom, see page 65.

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

** Dimensions can be found in the product configurator.

Note:
ALR 67 Thermo Glazing and doors with wicket door on request.

Track limit

Track limit for APU 67 Thermo and ALR 67 Thermo.

All door types on request.

Dimensions in mm

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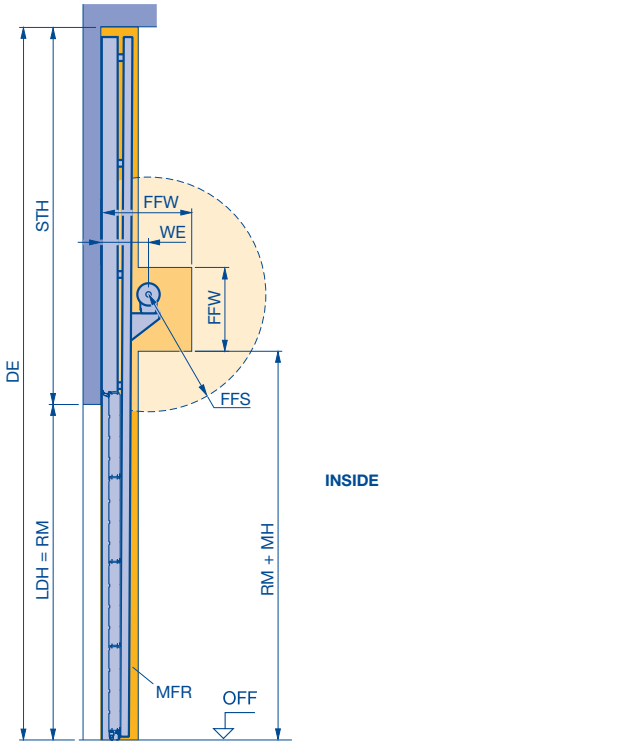
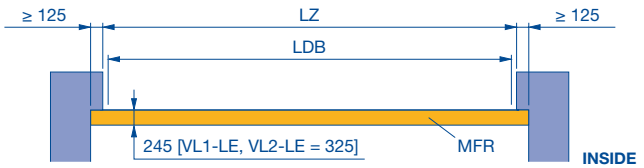
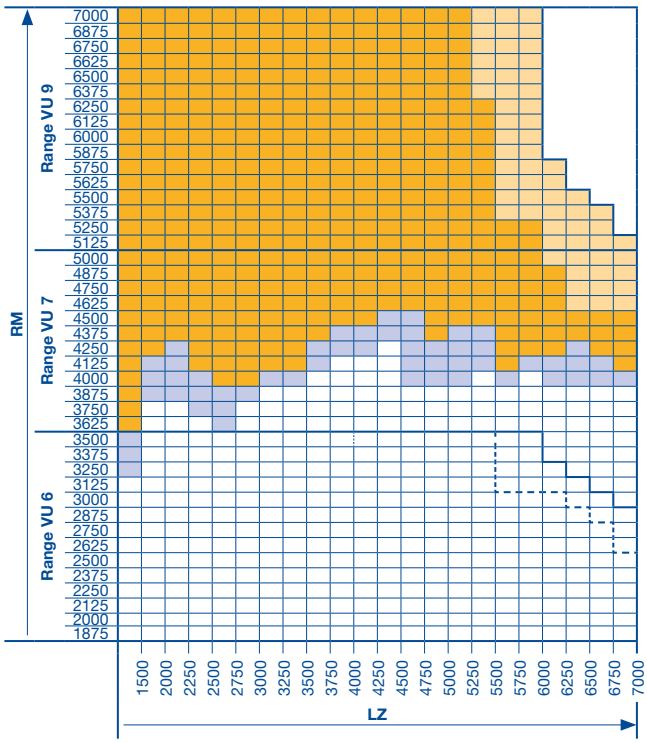
Track application: VU

Vertical track application
with low-mounted torsion spring shaft

Detailed technical data can be found in the product configurator.







DE Min. ceiling height
FFW Spring shaft clearance
FFS Spring compression clearance
LDB Clear passage width with ThermoFrame (see page 65)
LDH Clear passage 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

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 9 – 14 and 17 – 25!

Observe min. sideroom, see page 65.

	STH	DE	WE	FFS	MH	FFW
VU 6	RM + 330	STH + RM	335	Min. 90° (745)	400	500 × 850
VU 7			355			540 × 850
VU 9			395			620 × 850

Note:
ALR 67 Thermo Glazing and doors with wicket door on request.

Track limit

Track limit for APU 67 Thermo and ALR 67 Thermo.

All door types available in any version.

Door types APU 67 Thermo and ALR 67 Thermo on request.

Door type SPU 67 Thermo on request (APU 67 Thermo and ALR 67 Thermo not possible).

All door types on request.

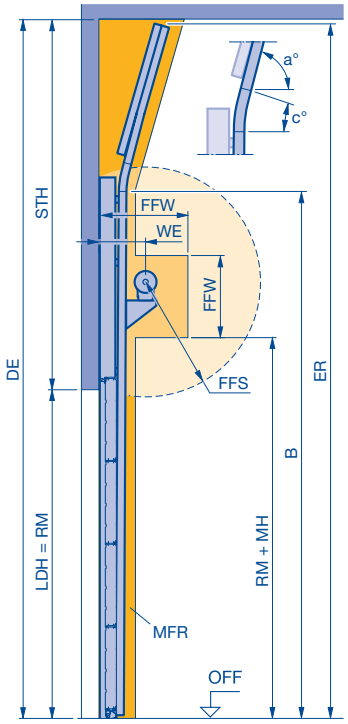
Dimensions in mm

Track application: WS

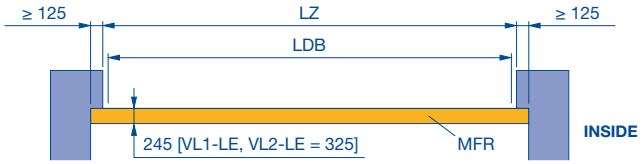
Vertical track application

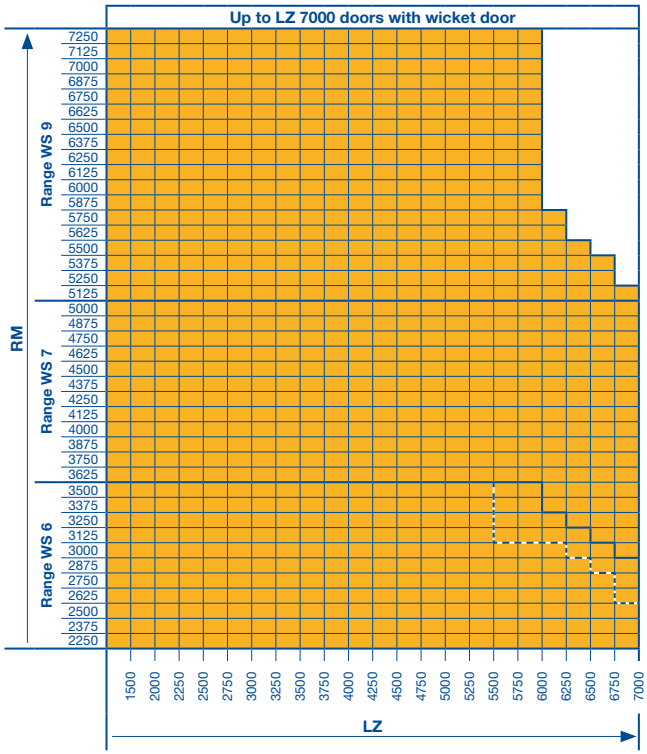
with inclination and low-mounted torsion spring shaft

Detailed technical data can be found in the product configurator.



Inclination from 30°, 32°, 34°, 36°, 38°... up to 74°
See table on page 93





a°	Inclination
c°	Contour angle
B	Start of double radius
DE	Min. ceiling height
ER	Top edge corner point Track height (depth and height)
FD	Ceiling clearance
FFW	Spring shaft clearance
FFS	Spring compression clearance
LDB	Clear passage width with ThermoFrame (see page 65)
LDH	Clear passage 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

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.
- A technical inspection is required!
- 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 9 – 14 and 17 – 25!

Observe min. sideroom, see page 65.

	WE	FFW	STH	B	DE	FFS	MH	ER
WS 6	335	500 × 850	on request	Min. RM + 1200 max. 2 × RM – 1000	on request	Min. 90° (745)	400	on request
WS 7	355	540 × 850						
WS 9	395	620 × 850						

** Dimensions can be found in the product configurator.

All door types and versions on request.

Track limit

Track limit for APU 67 Thermo and ALR 67 Thermo.

Dimensions in mm

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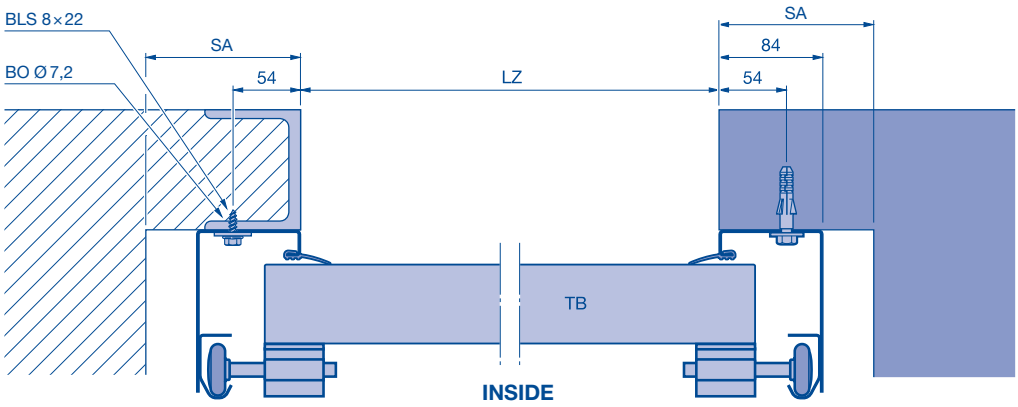
Siderooms

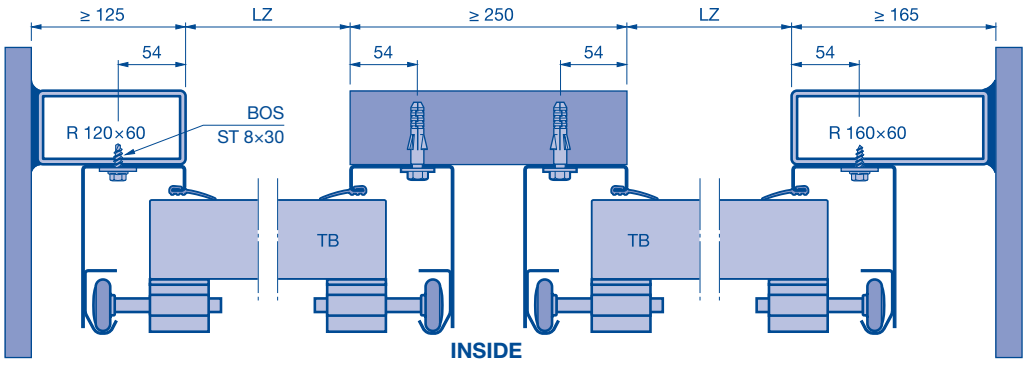
Required sideroom

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 68 – 69)	170	Chain hoist		Page 69
		Shaft operators		Page 74 – 81

* The sideroom changes due to the track application range (see pages 52 – 60).

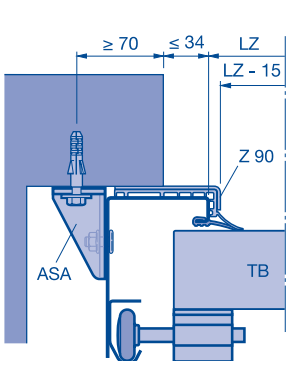
Sideroom

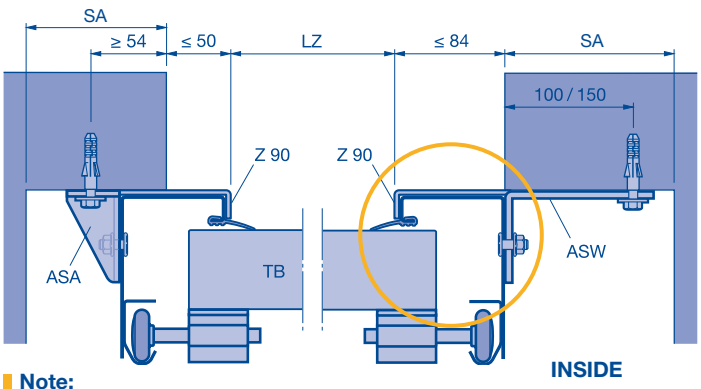




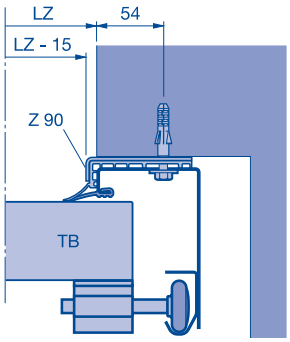
Sideroom with frame covering

ThermoFrame version





ThermoFrame version

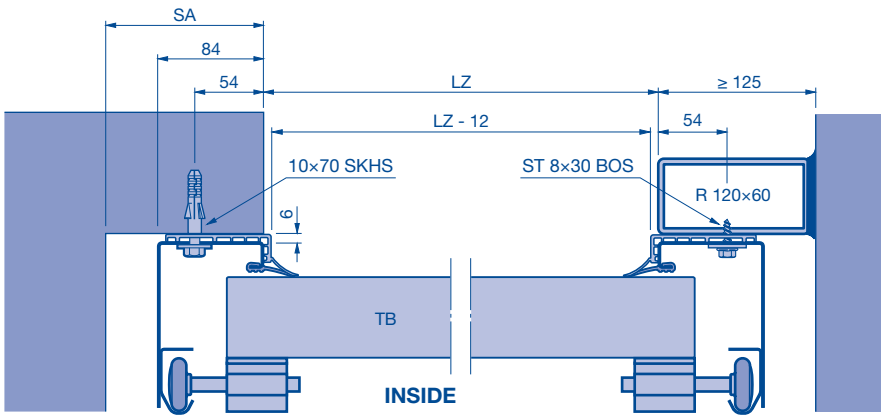


Note:
Clear door frame in the opening is not possible for the RC2 version.

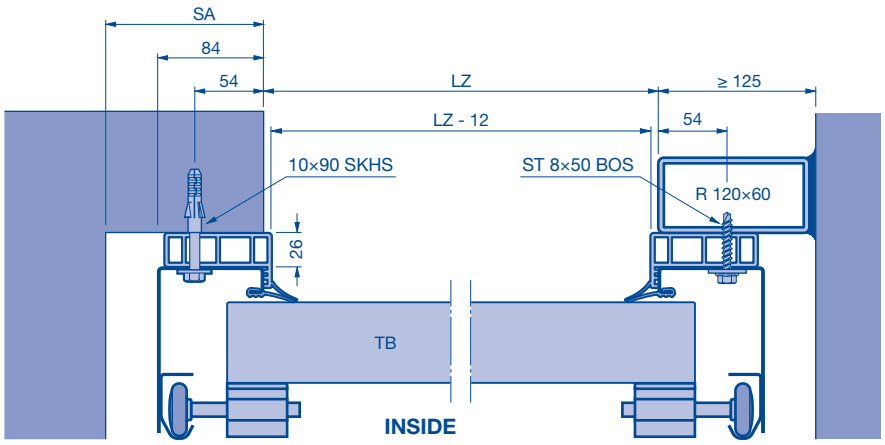
LZ	Clear frame dimensions	**BLS**	self-tapping screw	**SA**	Sideroom
BO	Hole	**TB**	Door leaf	**ASA**	Screw-on anchor 70 × 40
BOS	drilling screw	**R**	Box section	**ASW**	Screw-on bracket 70 × 120/170

Siderooms

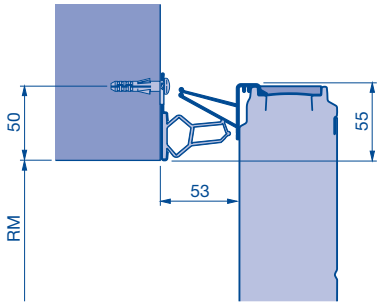
ThermoFrame sideroom 6 mm



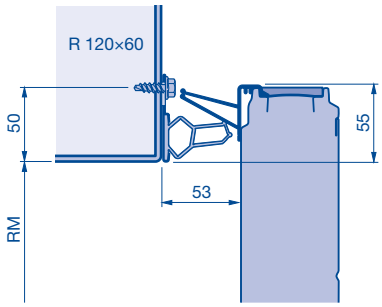
ThermoFrame sideroom 26 mm with lintel counter seal



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		

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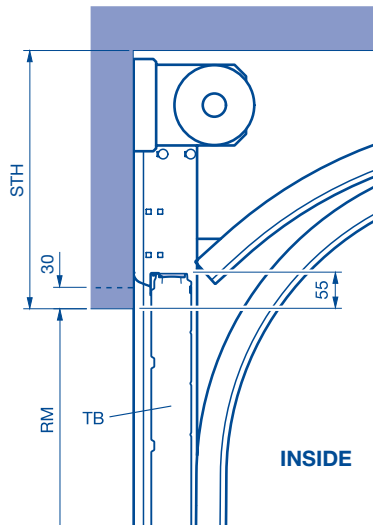
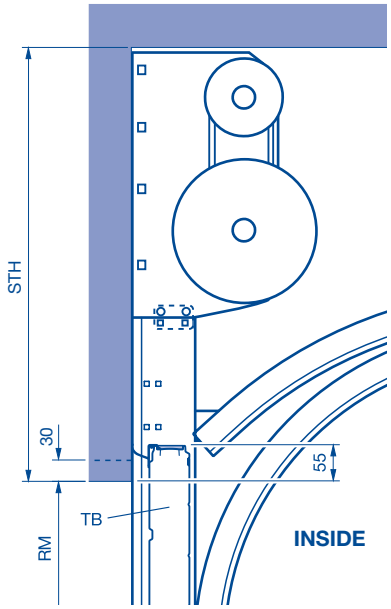
Lintel fittings

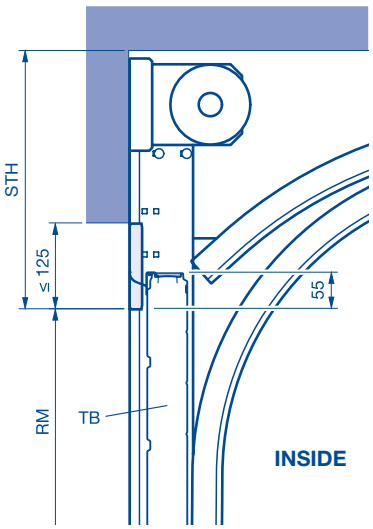
Normal lintel fitting
Insufficient headroom up to 30 mm high



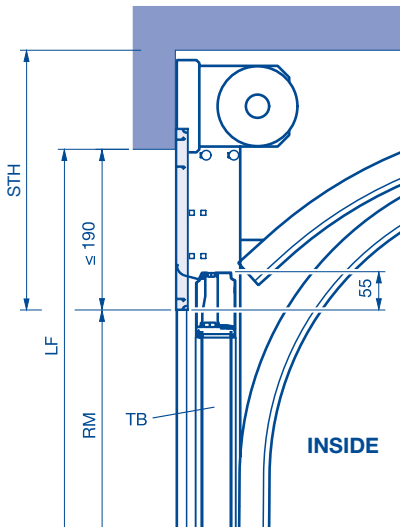
Normal lintel fitting
Double spring shaft



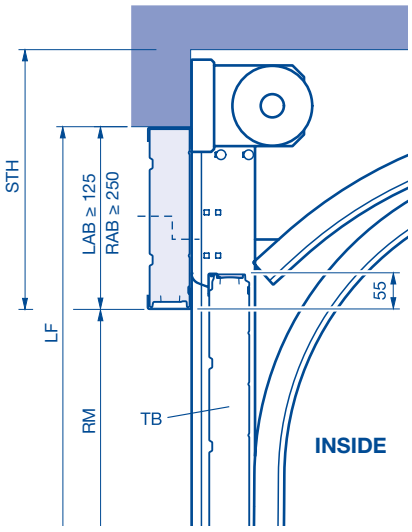
Single-skinned steel fascia for SPU 67 Thermo to make up for insufficient headroom up to 125 mm height and LZ ≤ 8000 mm
(only for track application N)



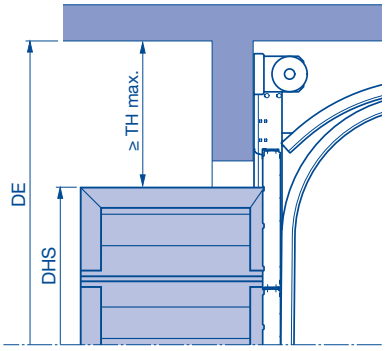
Smooth panel, anodised, for APU 67 Thermo, ALR 67 Thermo and ALR 67 Thermo Glazing to make up for insufficient headroom from 31 to 190 mm and LZ ≤ 7000 mm (only for track application N)



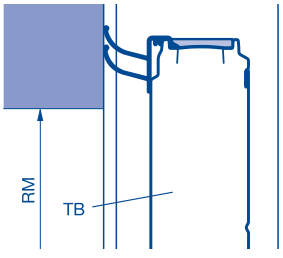
PU fascia panel to make up for insufficient headroom from 125 mm
Aluminium fascia profile to make up for insufficient headroom (see table)



Fitting clearance for multiple-point locking



Lintel fitting with ThermoFrame



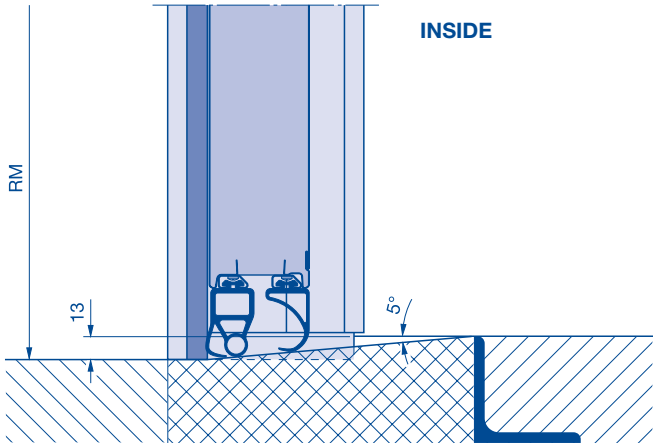
Aluminium fascia panels	
Height	**Infill type**
≥ 250	FU, XU, S3, S4, U3, U4, A3, A4, B3, B4, M3, M4, C3, C4

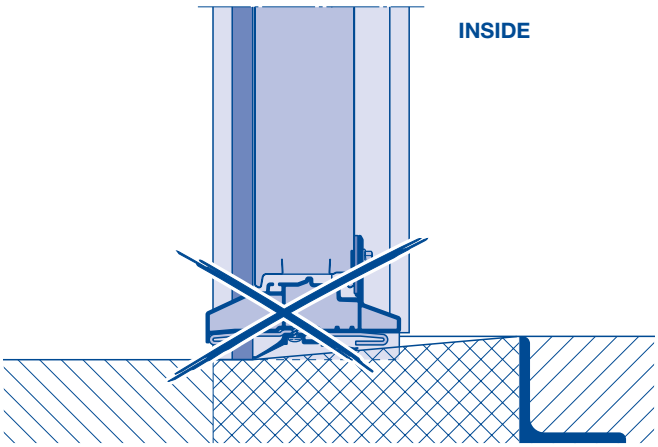
- Aluminium frame fascia panel with real glass infill E2 and G2 on request.

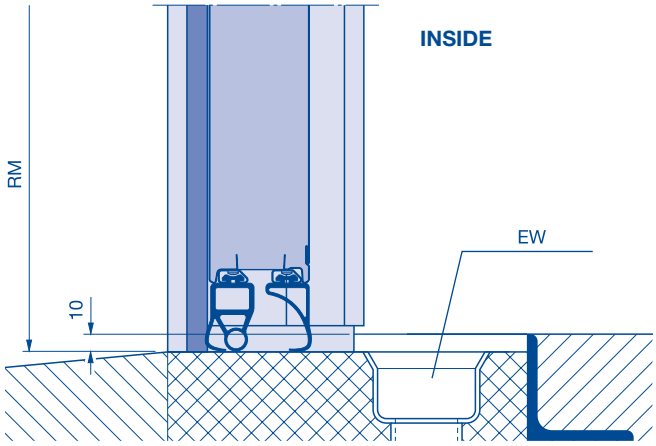
STH	Min. headroom (see page 39)
DHS	Wicket door clear passage height
RM	Grid height
TB	Door leaf
TH	Door section height
LAB	Fascia panel
RAB	Frame fascia panel
LF	Structural opening
LZ	Clear frame dimensions

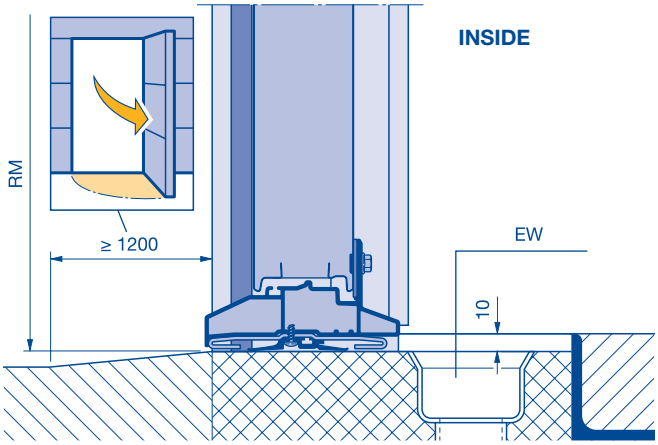
Bottom edge

without wicket door / with wicket door and threshold rail	with wicket door and trip-free threshold





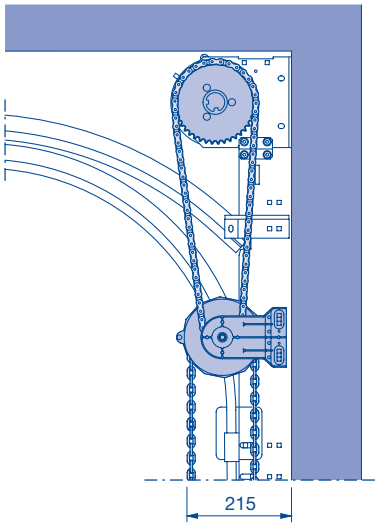


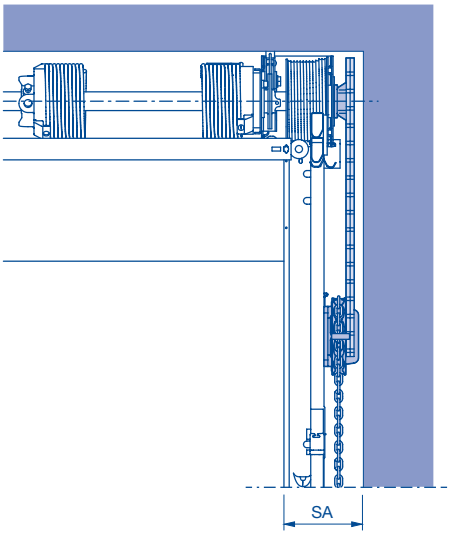


EW Drainage
RM Grid height

Chain hoist

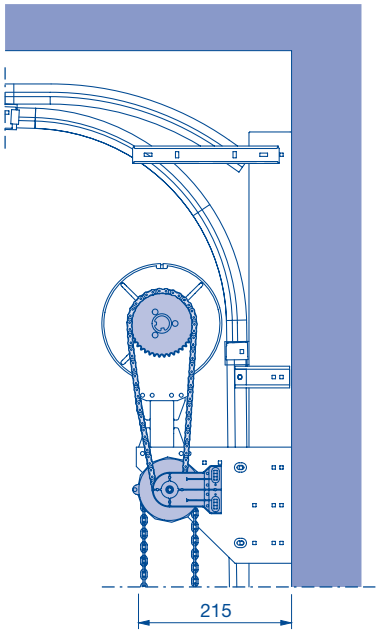
Chain hoist for all track applications except HU, RD, RS, RK, VU, WS

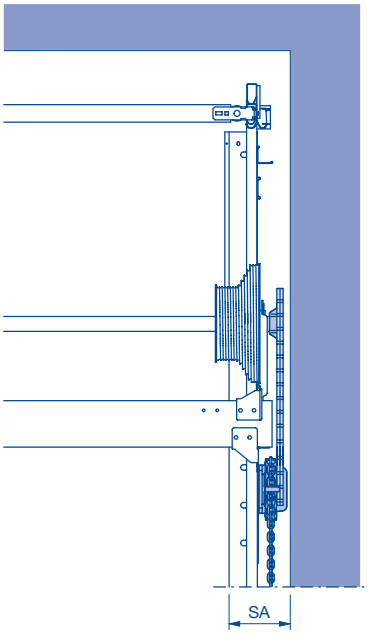




Track application	N, NA, ND, NS, NK	NH, GD, GS, GK	L, LD	H, HA, HD, HS, HK	V, VA, VS
SA	165	165	165	185	165

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





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

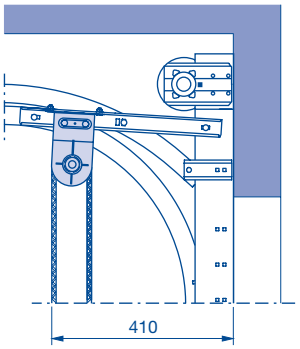
SA Sideroom

Manual

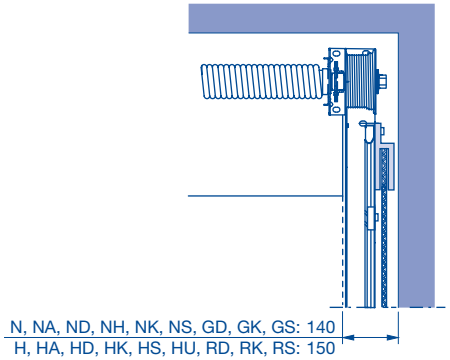
with rope or link steel chain

Track applications up to 20 m² door surface

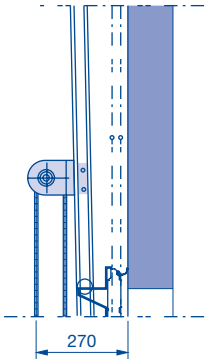
with rope or link steel chain



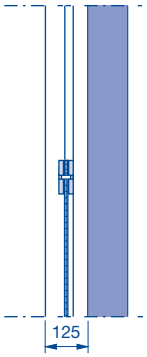
N, NA, ND, NH, NS, GD, H, HA, HD, HU, RD



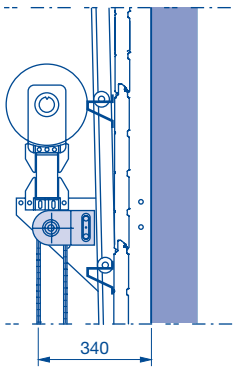
with rope or link steel chain



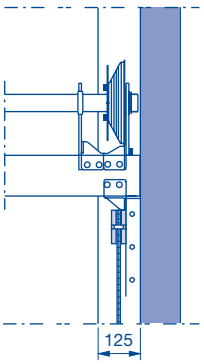
V, VA, VS



with rope or link steel chain



VU, WS



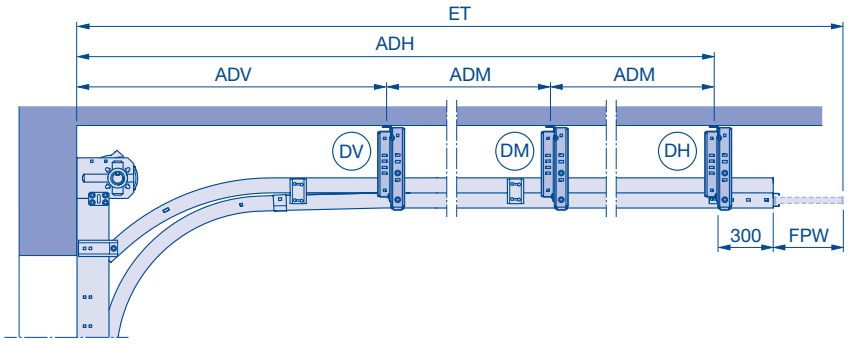
Ceiling anchor

Double track

Track suspensions for all track applications except V, VA, VS, VU and WS

Door weights for roof loads (see pages 39 – 50).

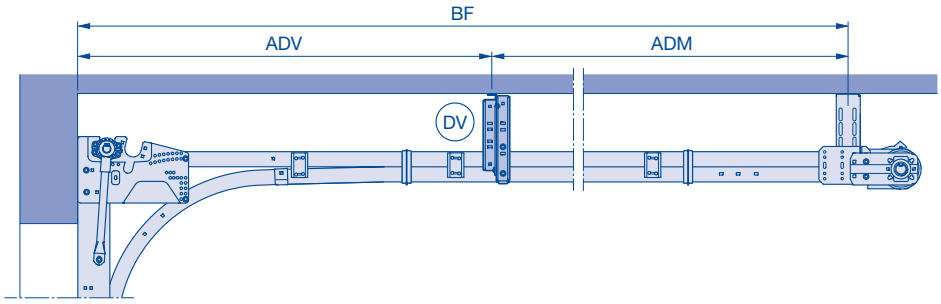
Double track (suspensions), door heights RM ≤ 5000



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	2289 – 3934	2	1	0	1	1400	–	ET - 597	Long
									ET - 327	Short
		3935 – 5685	3	1	1	1	1400	(ET - ADV - 597) / 2	ET - 597	Long
								(ET - ADV - 327) / 2	ET - 327	Short
	> 7000	2289 – 2934	2	1	0	1	1400	–	ET - 597	Long
									ET - 327	Short
		2935 – 4060	3	1	1	1	1400	(ET - ADV - 597) / 2	ET - 597	Long
								(ET - ADV - 327) / 2	ET - 327	Short
		4061 – 5685	4	1	2	1	1400	(ET - ADV - 597) / 3	ET - 597	Long
								(ET - ADV - 327) / 3	ET - 327	Short
L	≤ 7000	2882 – 3540	2	1	0	1	1400	–	RM + 695	–
		3541 – 5666	3	1	1	1	1400	(BF-ADV) / 2		
		5667 – 6007	4	1	2	1	1400	(BF-ADV) / 3		
H, HA, HU	≤ 7000	1915 – 2201	1	0	0	1	–	–	ET - 597	Long
									ET - 327	Short
		2202 – 3982	2	1	0	1	1400	–	ET - 597	Long
									ET - 327	Short
		3983 – 5488	3	1	1	1	1400	(ET - ADV - 597) / 2	ET - 597	Long
								(ET - ADV - 327) / 2	ET - 327	Short
		5489 – 5719	4	1	2	1	1400	(ET - ADV - 327) / 3	ET - 327	Short
	> 7000	1915 – 2201	1	0	0	1	1400	–	ET - 597	Long
									ET - 327	Short
		2202 – 2991	2	1	0	1	1400	–	ET - 597	Long
									ET - 327	Short
		2991 – 3864	3	1	1	1	1400	(ET - ADV - 597) / 2	ET - 597	Long
								(ET - ADV - 327) / 2	ET - 327	Short
		3865 – 5219	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	**DA**	Distance to ceiling	**DV**	Ceiling anchor front
ADM	Distance to central ceiling anchor	**DAL**	Ceiling anchor length	**ET**	Min. distance back
ADV	Distance to front ceiling anchor	**DH**	Rear ceiling anchor	**FPW**	Spring buffer travel
BF	Position of spring shaft	**DM**	Centre ceiling anchor	**LZ**	Clear frame dimensions

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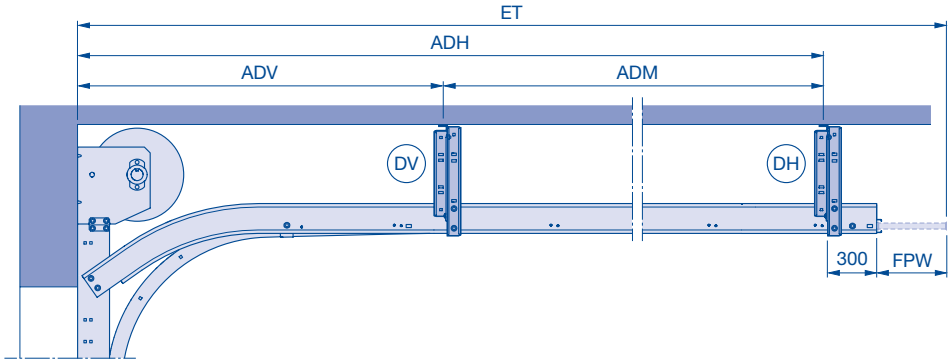
Ceiling anchor

C track

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



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

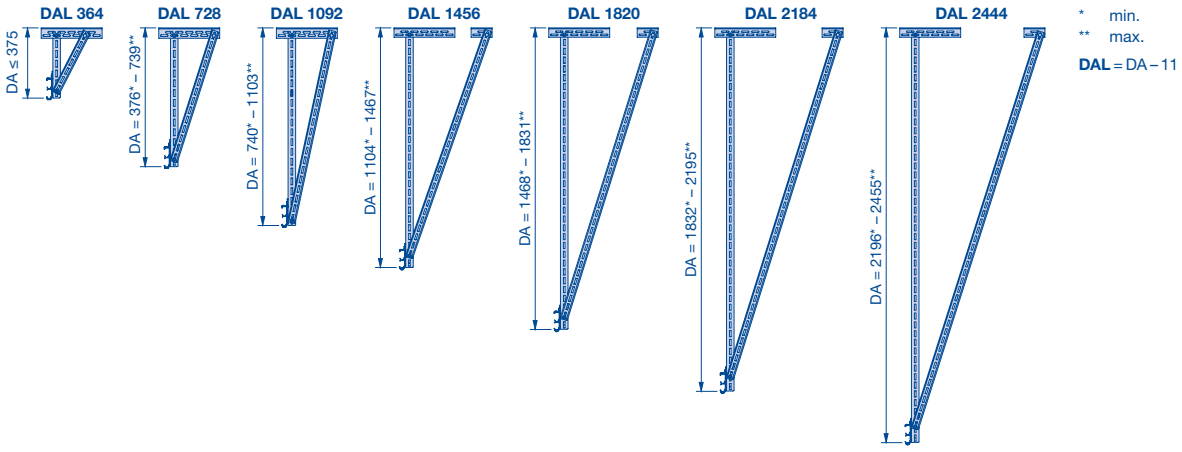
All door types RM > 4500 and LZ > 6250, all door types RM > 5000 except for track application L / LD doors with real glass RM > 3500 and LZ > 5000

Track application	LZ	ET	Number of suspensions per side	DV	DM	DH / BF	ADV	ADM	ADH / BF	FPW
N, NA	≤ 8000	≤ 6685	2	1	0	1	ADH / 2	–	ET - 597	Long
									ET - 327	Short
		> 6685	3	1	1	1	ADH / 3	(ET - ADV - 597) / 2	ET - 597	Long
								(ET - ADV - 327) / 2	ET - 327	Short
L	≤ 7000	≤ 6007	2	1	0	1	BF / 2	–	RM + 695	–
H, HA, HU	≤ 8000	≤ 6739	2	1	0	1	ADH / 2	–	ET - 597	Long
									ET - 327	Short
		> 6739	3	1	1	1	ADH / 3	(ET - ADV - 597) / 2	ET - 597	Long
								(ET - ADV - 327) / 2	ET - 327	Short
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	≤ 3810	1	0	0	1	–	–	ET - 597	Long
									ET - 327	Short
		> 3810	2	1	0	1	ADH / 2	–	ET - 597	Long
									ET - 327	Short
L		≤ 3541	1	0	0	1	–	–	–	–
		3542 – 5916	2	1	0	1	BF / 2	–	RM + 695	
		> 5916	3	1	1	1	BF / 3	(BF - ADV) / 2	RM + 695	
H, HA, HU		≤ 3740	1	0	0	1	–	–	ET - 597	Long
									ET - 327	Short
		> 3740	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



* min.
** max.
DAL = DA – 11

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

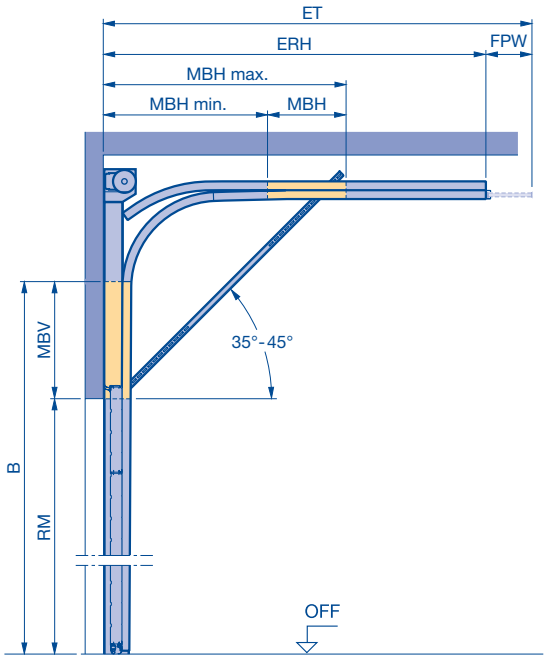
Diagonal strut

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!

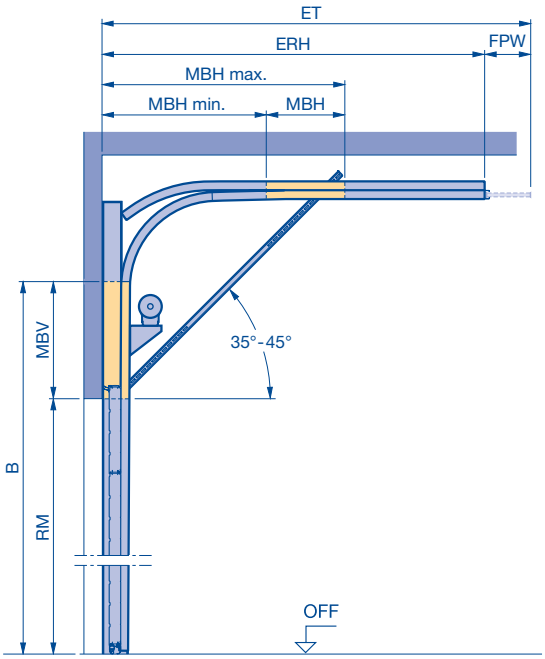
Notes:
- Application range of LZ ≤ 3000 and RM ≤ 3250
- Max. distance back 2297
- Not for door type ALR 67 Thermo Glazing.

Track application H



Other required technical data for track application H must be observed (see page 51).

Track application HU

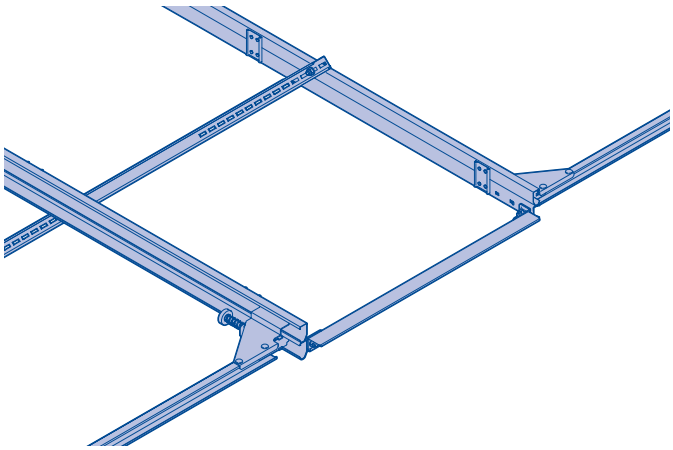


Other required technical data for track application HU must be observed (see page 56).

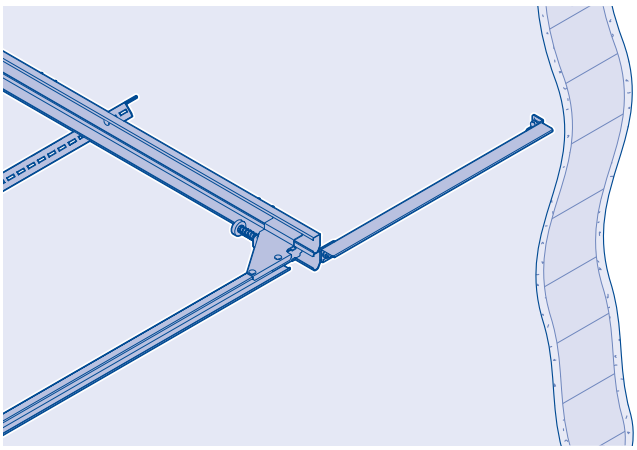
ET	ERH	Min. MBH	Max. MBH	FPW*		MBH	MBV		
				min.	max.		Track application H		Track application HU
Max. 2297	ET – FPW (max. 2000)	ERH / 2	3 × ERH / 4	27	297	Max. MBH – min.	RM Min. MBH	B Max. MBH	on request

* Dimensions can be found in the product configurator.

Connection door – door



Connection door – wall



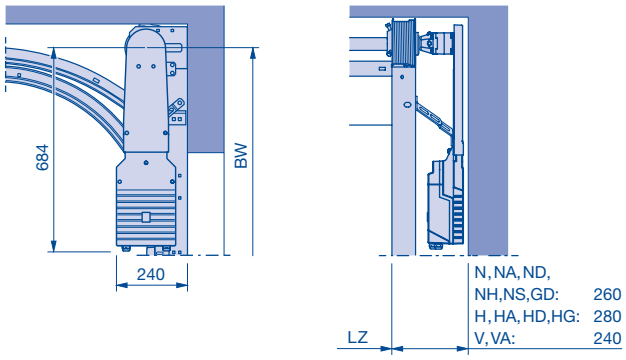
B Start of double radius
ET Min. distance back
ERH Corner point track horizontal
FPW Spring buffer travel
MBH Fitting area horizontal
MBV Fitting area vertical
OFF Finished floor level
RM Grid height

Shaft operator WA 300

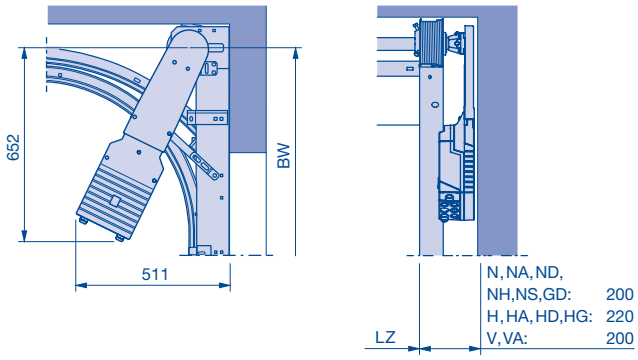
Shaft operator WA 300 for track applications N, NA, ND, NS, NH, NK, GD, GS, GK, H, HA, HD, HS, HK, V, VA and VS

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

Fitting example ⑧ right



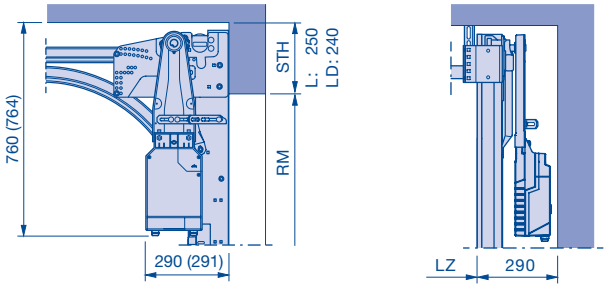
Fitting example ⑨ right



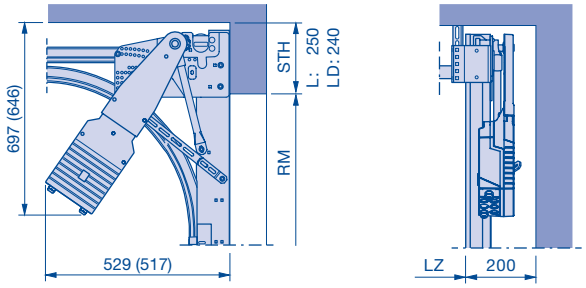
Shaft operator WA 300 for track applications L and LD

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.**

Fitting example ⑧ right



Fitting example ⑨ right

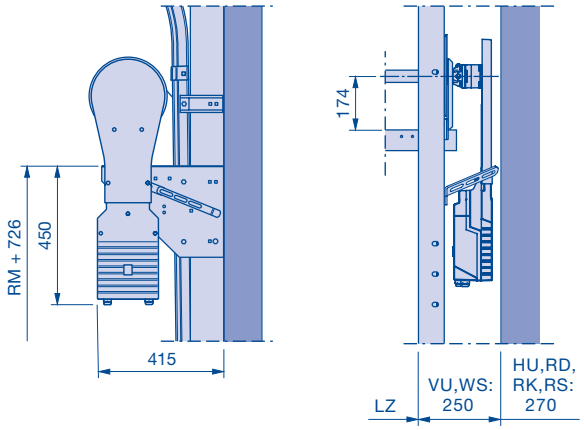


Dimensions in brackets **( )** for low headroom track application with swivel mechanism.

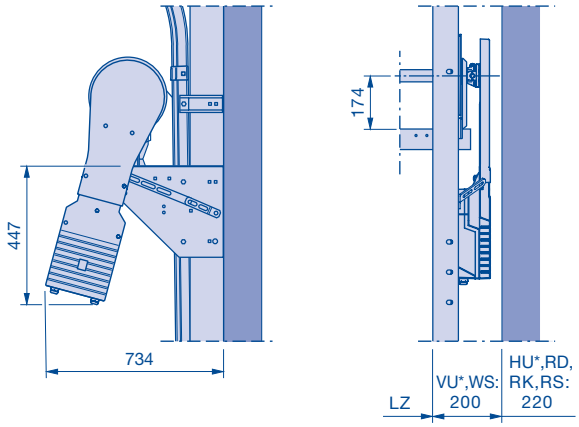
Shaft operator WA 300 for track applications HU, RD, RS, RK, VU and WS

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

Fitting example ⑧ right



Fitting example ⑨ right



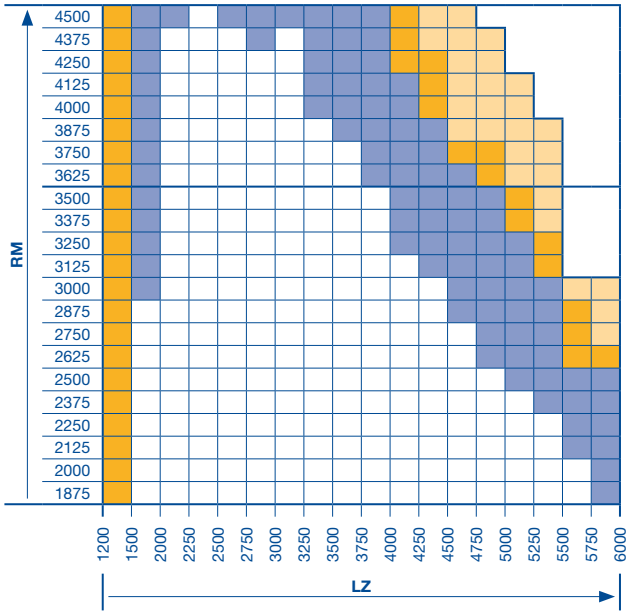
*** Note:**
In the door range LZ ≤ 3000 and RM ≤ 3500 the track applications VU and HU are not possible

BW Position of shaft support
LZ Clear frame dimensions

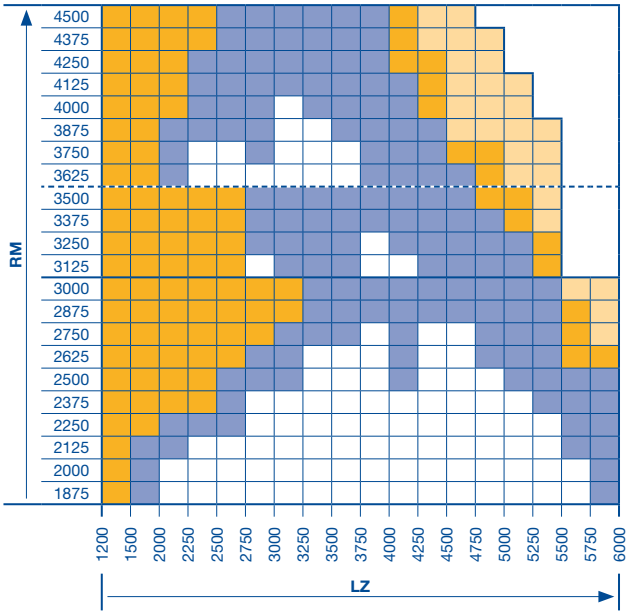
Shaft operator WA 300

Size range WA 300

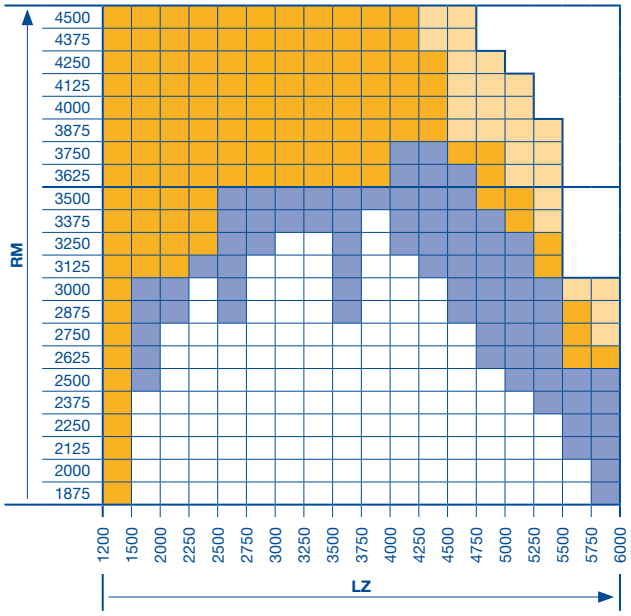
Track applications: N, NA and NH



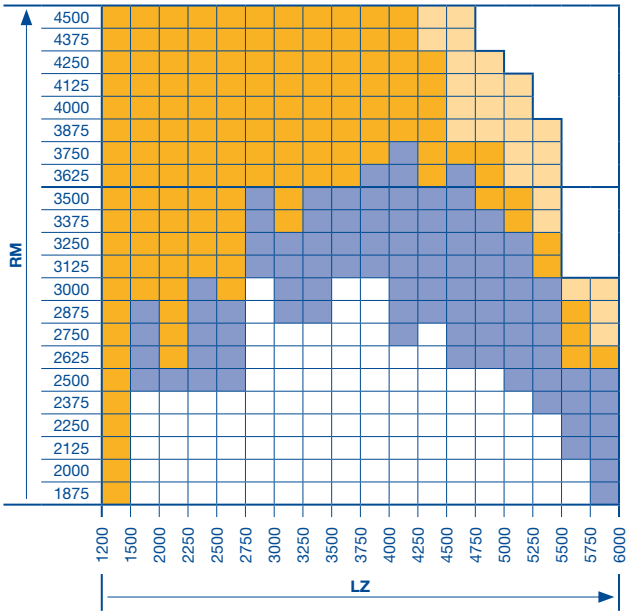
Track applications: ND and GD



Track application: H, HA, HG, HU and RG



Track application: HD and RD



All door types available in any version.

Door types APU 67 Thermo and ALR 67 Thermo on request.

Only door type SPU 67 Thermo on request.
Door type APU 67 Thermo and ALR 67 Thermo not possible.

All door types and versions on request.

Note:
Track application NS on request!

LZ Clear frame dimensions
RM Grid height

Dimensions in mm

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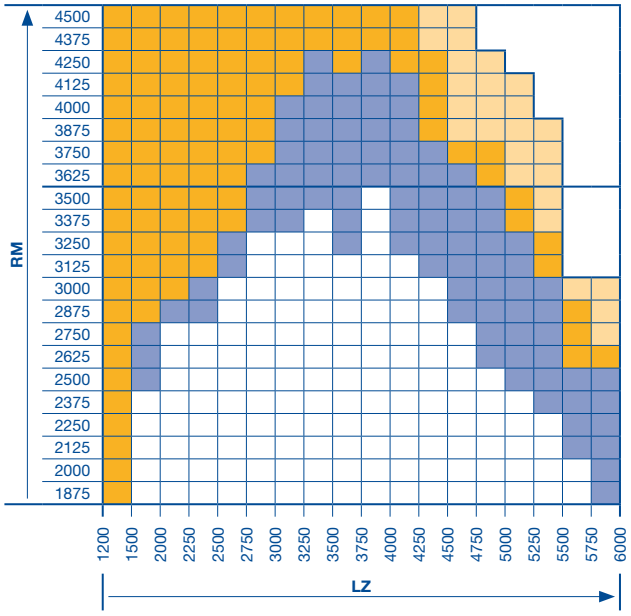
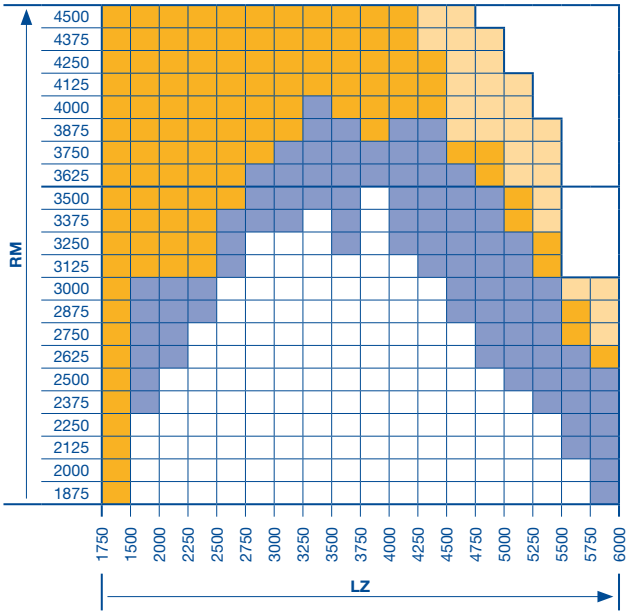
Shaft operator WA 300

Size range WA 300

Track application: V and VA



Track application: VU and WG



All door types available in any version.

Door types APU 67 Thermo and ALR 67 Thermo on request.

Only door type SPU 67 Thermo on request.
Door type APU 67 Thermo and ALR 67 Thermo not possible.

All door types and versions on request.

LZ Clear frame dimensions
RM Grid height

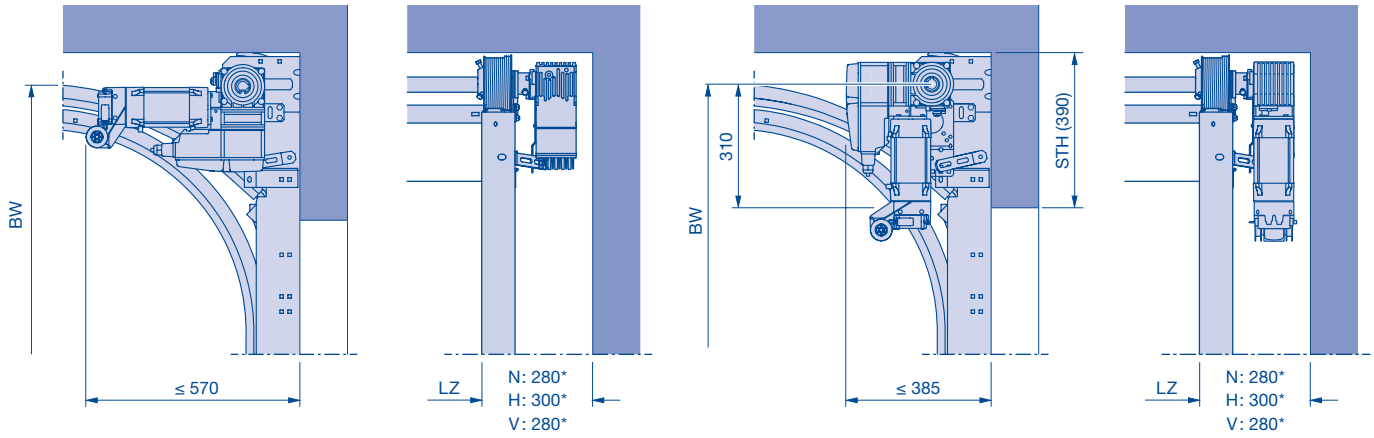
Dimensions in mm

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

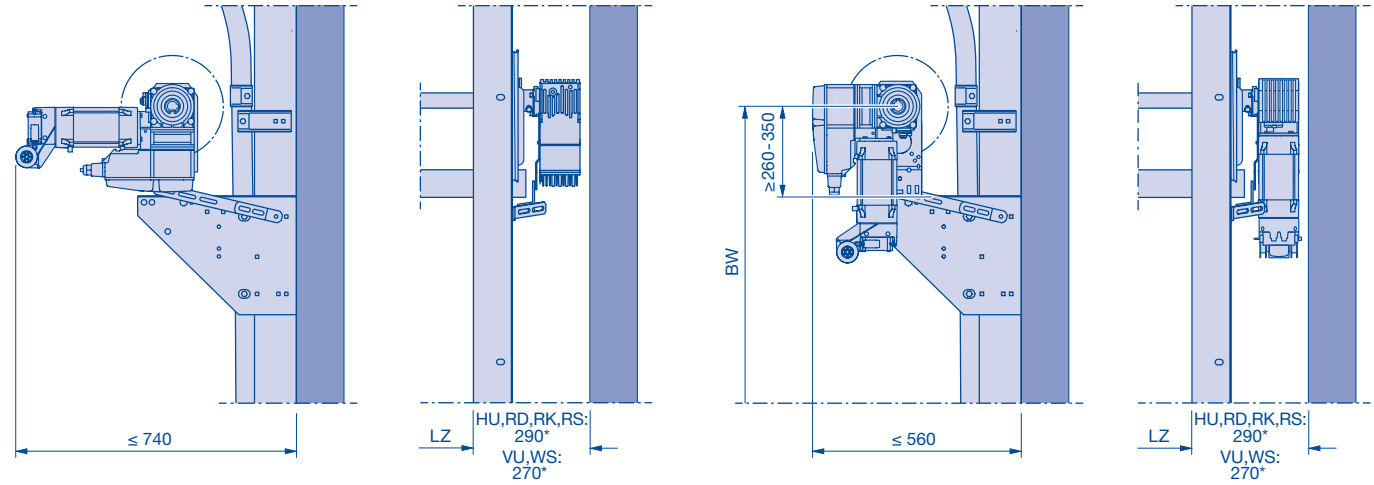
As shown in the figure, the operator can be fitted either left or right, viewed from the inside.



*** Note:**
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.



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

** On request

BW Position of shaft support
LZ Clear frame dimensions

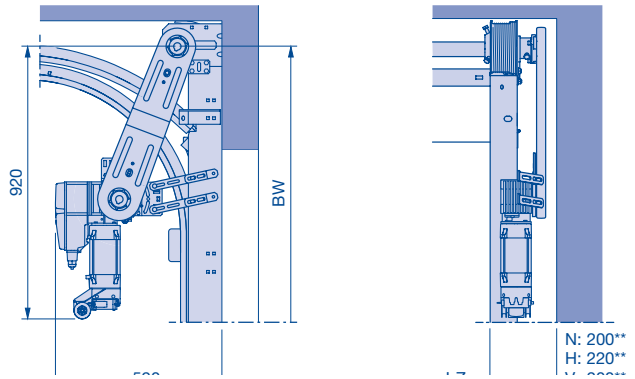
Shaft operator WA 500 / 500 FU

with chain box

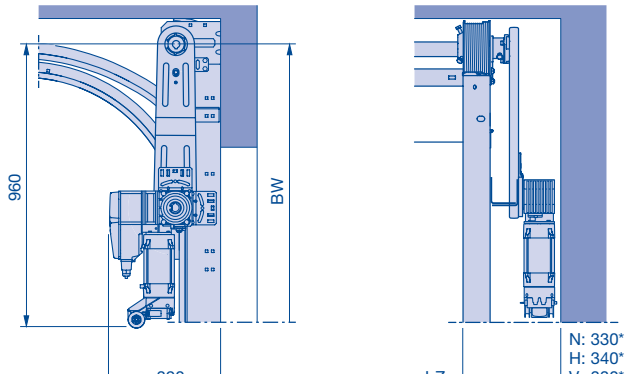
Shaft operator WA 500 / WA 500 FU for all track applications, except L, LD, HU, RD, RS, RK, VU and WS

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



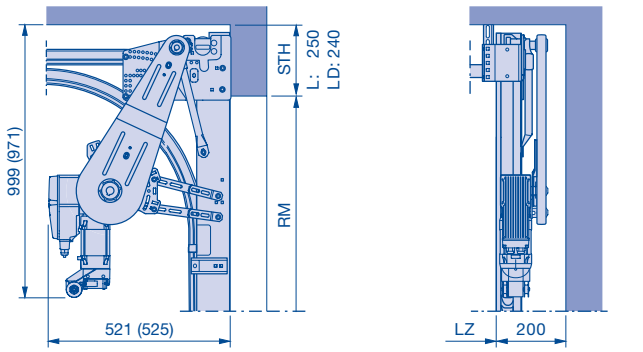
Fitting example ⑥ right



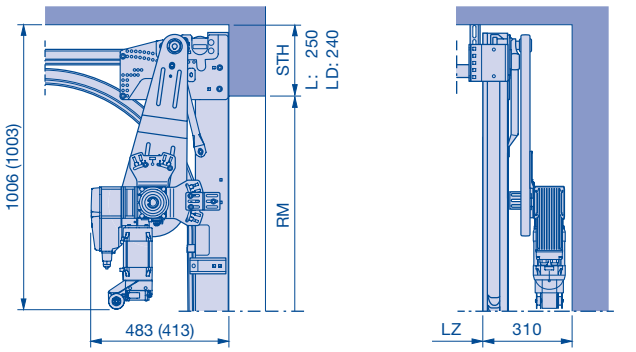
Shaft operator WA 500 / WA 500 FU for the track applications L and LD

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

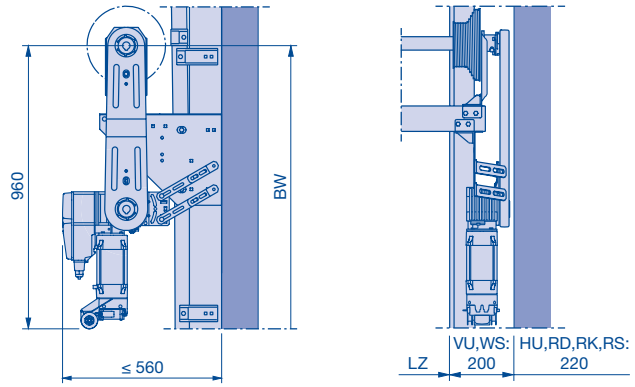


Dimensions in brackets **( )** for low headroom track application with swivel mechanism.

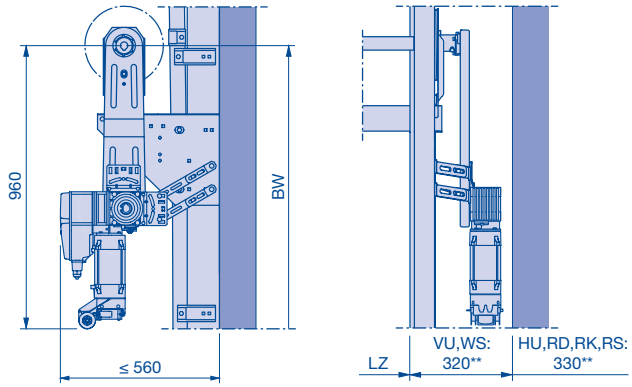
Shaft operator WA 500 / WA 500 FU for track applications HU, RD, RS, RK, VU and WS

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



*** Note:**
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

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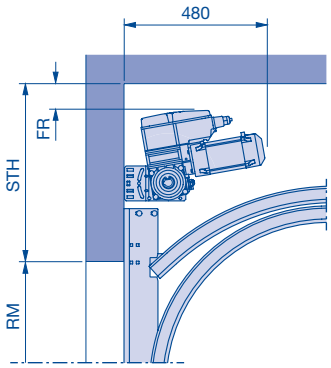
Shaft operator WA 500 / 500 FU

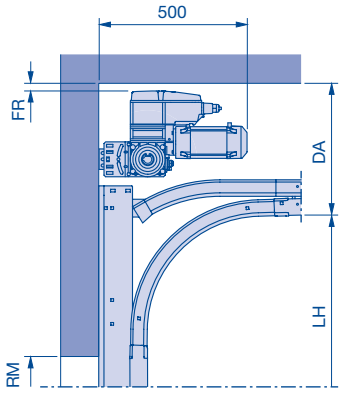
for central mounting

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



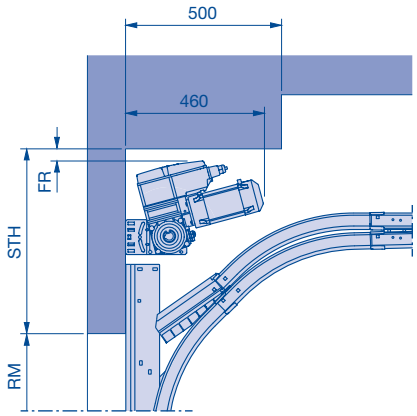
Track application	WA 500 / WA 500 FU	
	STH min.	FR min.
N 1	625	45
N 2	650	45
N 3	710	45
ND 1	585	48
ND 2	605	48
ND 3	710	48
ND 6	595	48
ND 7	675	48

Shaft operator WA 500 / WA 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 / WA 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	650	45
NS 2 / NK 2	675	45
GS / GK	on request	

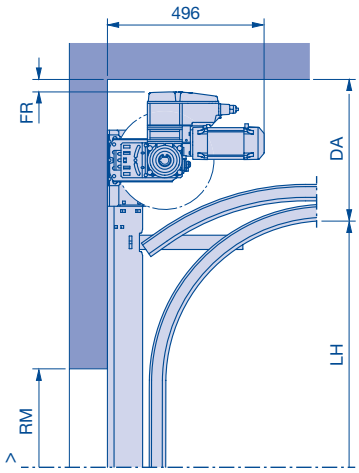
Note:
Centre motor in conjunction with double spring shaft on request!

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

Shaft operator WA 500 / 500 FU

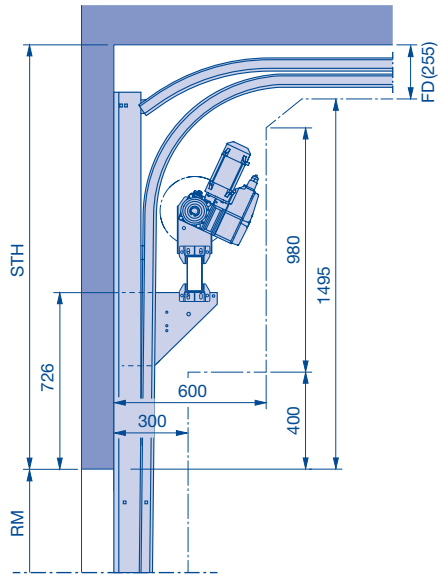
for central mounting

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



Track application	WA 500 / WA 500 FU	
	Min. DA	FR min.
H 4	540	45
H 5	540	45
H 8	565	45
HD / HS / HK	on request	

Shaft operator WA 500 / WA 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
FR	Clearance ceiling / shaft operator	**RM**	Grid height

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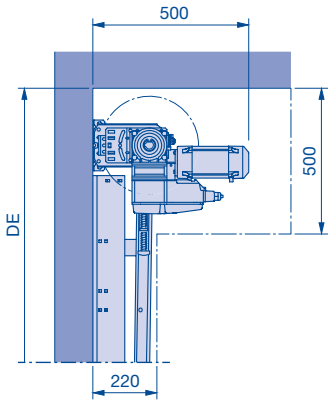
Shaft operator WA 500 / 500 FU

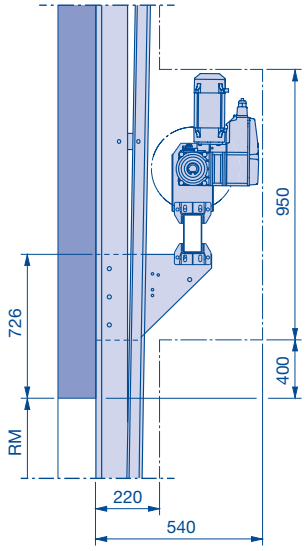
for central mounting

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



Track application	WA 500 / WA 500 FU
VS	on request

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

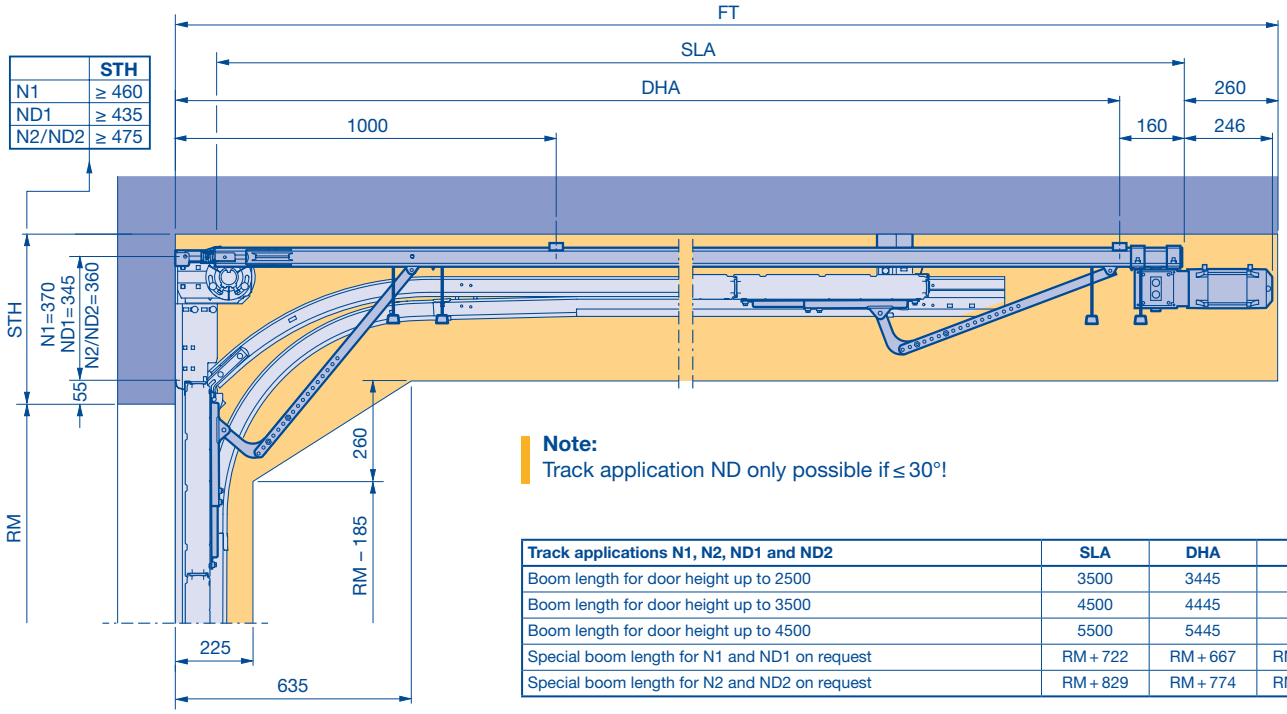


Note:
Centre motor in conjunction with double spring shaft on request!

DA Distance to ceiling
LH Track height
RM Grid height

Chain drive operator ITO 500 FU

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

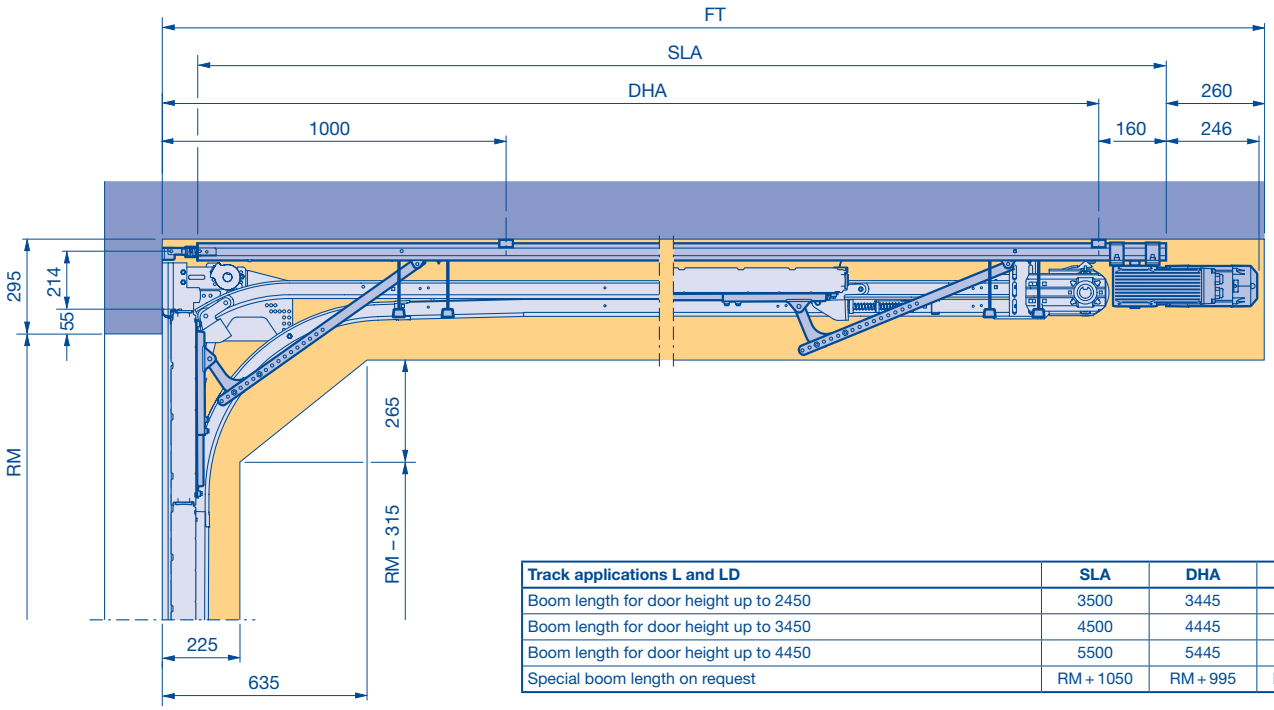


	STH
N1	≥ 460
ND1	≥ 435
N2/ND2	≥ 475

Note:
Track application ND only possible if ≤ 30°!

Track applications N1, N2, ND1 and ND2	SLA	DHA	FT
Boom length for door height up to 2500	3500	3445	3865
Boom length for door height up to 3500	4500	4445	4865
Boom length for door height up to 4500	5500	5445	5865
Special boom length for N1 and ND1 on request	RM + 722	RM + 667	RM + 1087
Special boom length for N2 and ND2 on request	RM + 829	RM + 774	RM + 1194

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



Track applications L and LD	SLA	DHA	FT
Boom length for door height up to 2450	3500	3445	3865
Boom length for door height up to 3450	4500	4445	4865
Boom length for door height up to 4450	5500	5445	5865
Special boom length on request	RM + 1050	RM + 995	RM + 1415

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

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 Integrated / external control 360		WA 500 Control 545 and 560							
			Frame-mounted operator / centre motor				Chain box operator			
		[3]								
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										
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.

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

	Speed in mm/s		Open / Close direction of movement		Optosensors, 8k2 strip
U / min⁻¹	Speed in rotations per minute		Open direction of movement		Leading photocell VL1/VL2
F	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

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

	Speed in mm/s		Open / Close direction of movement		Optosensors, 8k2 strip
U/min	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 **575 [4]**	200	300	375	**1000 [4]**	200	300	500
L2, LD2								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

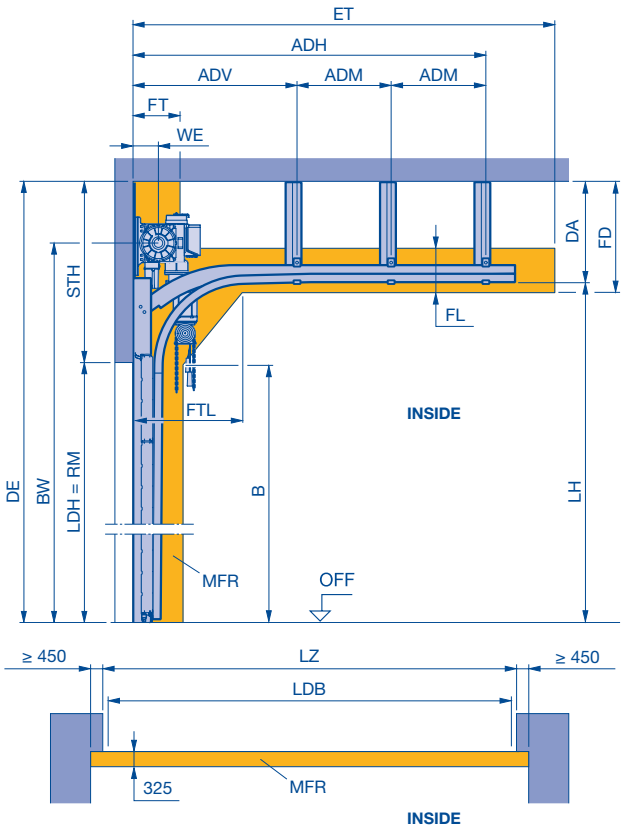
Max. door leaf speed from the Open end-of-travel position in the Close direction up to approx. 3200 mm above FFL

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

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

Track application: H with direct drive operator S75 / S140

High-lift track application



ADH Distance to rear ceiling anchor
ADM Distance to central ceiling anchor
ADV Distance to front ceiling anchor
B Start of double radius
BW Position of shaft support
DA Min. distance to ceiling
DE Min. ceiling height
ET Min. distance back
FD Min. ceiling clearance
FL Track clearance
FT Clearance for door operation
FTL Clearance door section in the double radius
LDB Clear passage width with ThermoFrame (see page 66)
LDH Clear passage height
LH Track height
LZ Clear frame dimensions
MFR Space for fitting the door
OFF Finished floor level
RM Grid height
STH Min. headroom
WE Shaft centre from lintel

Notes:

- The clearance required for fitting the door must be free of supply lines, heater fans, etc.
- The direct drive operator is generally available on request.

Door weights for roof loads:

SPU 67 Thermo	= 450 N/m²
APU 67 Thermo / ALR 67 Thermo	= 500 N/m²
ALR 67 Thermo Glazing	= 600 N/m²

- Other versions on request
- Observe min. sideroom, see page 65

	STH	WE	DA	B	BW
H 10, RM ≤ 6000	LH - RM + 625	145	625	LH - 513	LH + 240
H 11, RM > 6000		205			

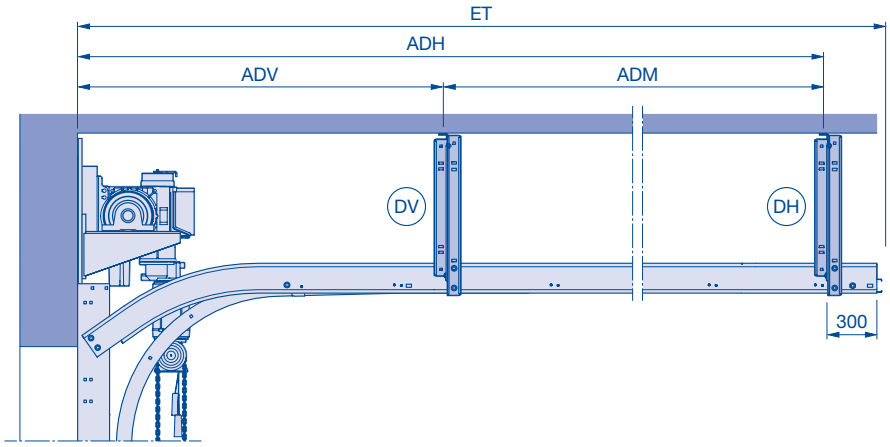
DE	ET *	FD	FL	FT	FTL	LH
STH + RM	2 × RM - LH + 962	DA + 65	275	2 × WE	675	Min. RM + 500 max. 10250

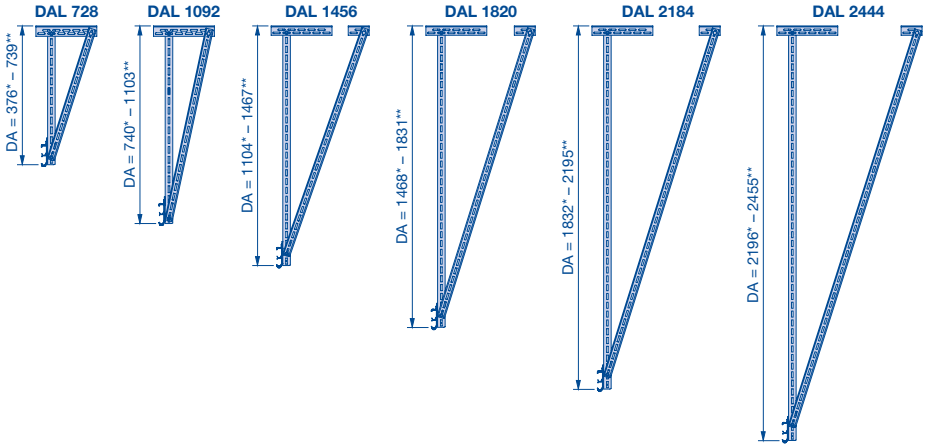
* Simplified calculation

Ceiling anchor

Track suspensions for track application H with direct drive operator

Track suspensions as ceiling anchors in five lengths, standard length 1040 mm.
DH = rear ceiling anchor (see page 86), door weights for roof loads (see page 86).





* min.
** max.

DAL = DA - 11

Suspension with C-rail for track application H with direct drive operator

Track application	LZ	ET	Number of suspensions per side	DV	DM	DH	ADV (max. 3000)	ADM	ADH
H10, H11	≤ 6000	≤ 2142	1	0	0	1	–	–	ET - 300
		2143–5732	2	1	0	1	ADH / 2		
		> 5733	3	1	1	1	ADH / 3	(ET - ADV - 300) / 2	
	> 6000	≤ 1907	1	0	0	1	–	–	
		1908–3492	2	1	0	1	ADH / 2		
		3493–5492	3	1	1	1	ADH / 3	(ET - ADV - 300) / 2	
		> 5493	4	1	2	1	ADH / 4	(ET - ADV - 300) / 3	

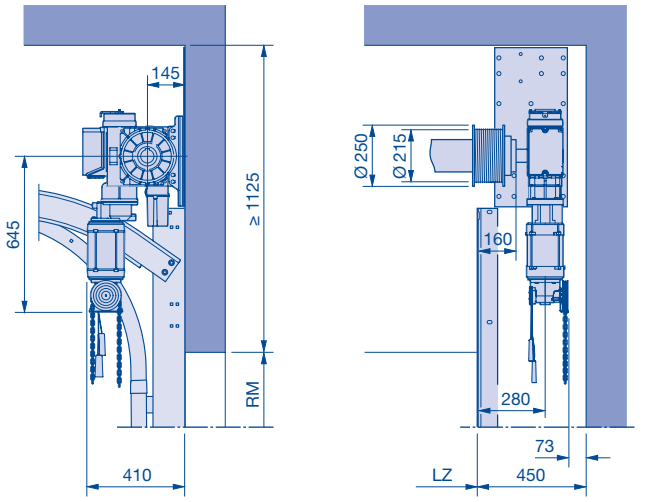
*** Dimensions can be found in the product configurator.

DH Rear ceiling anchor
DM Central ceiling anchor
DV Front ceiling anchor
LZ Clear frame dimensions
DAL Ceiling anchor length
ADH Distance to rear ceiling anchor
ADM Distance to central ceiling anchor
ADV Distance to front ceiling anchor

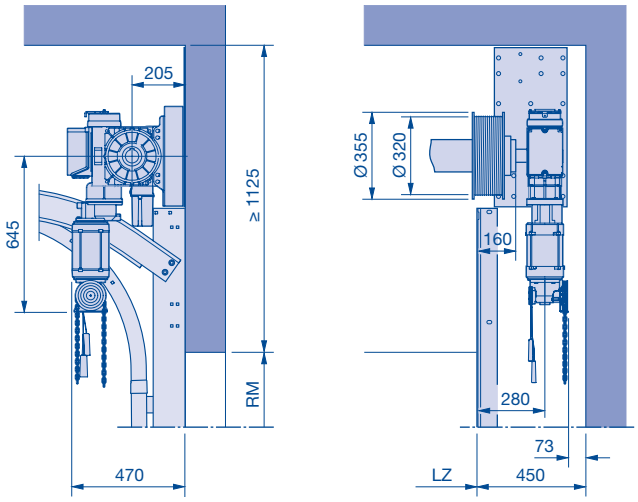
Direct drive operators S75 and S140

Direct drive operators S75 and S140 for track application H

RM ≤ 6000



RM > 6000



Door leaf speeds – Control 445 R and 460 R

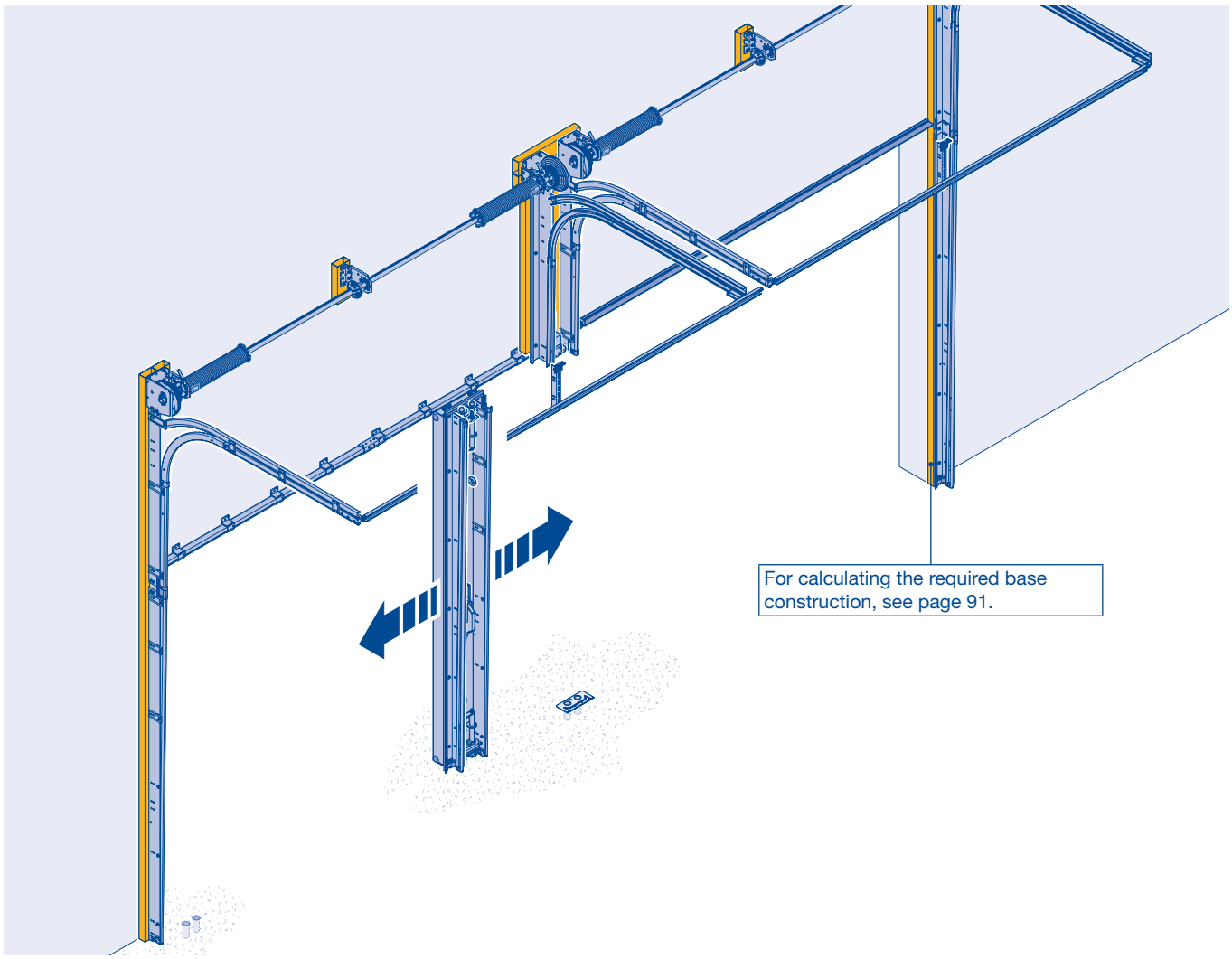
Direct drive operator	Cable drum diameter in mm	Max. speed in mm/s – Open / Close
S75	215	110
S75	320	170
S140	215	80
S140	320	120

LZ Clear frame dimensions
RM Grid height

Movable centre support

for industrial sectional doors with an opening width of up to 30 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.



For calculating the required base construction, see page 91.

Notes:

- Only with track application H.
- All door types possible.
- Depth 67 mm, application areas from LZ ≤ 10000 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

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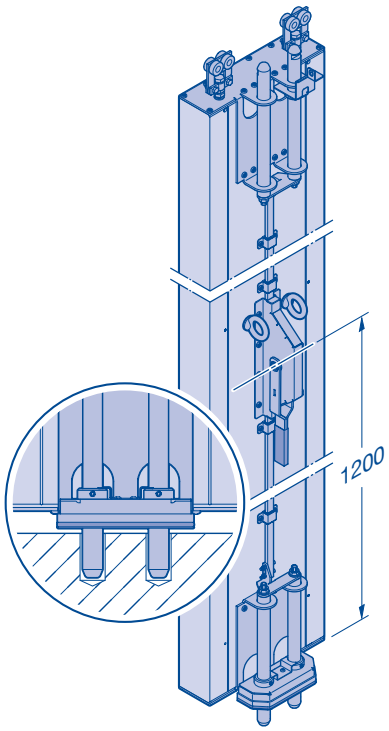
Movable centre support

for industrial sectional doors with an opening width of up to 30 m

Centre support



Notes:
- Aluminium material version based on RAL 9002, exterior with line design.
- Surface with wet coating on exterior and interior
- 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.

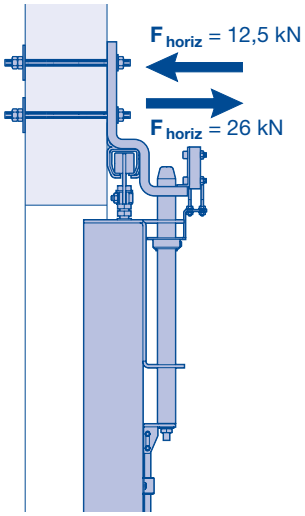
Safety equipment:
- Safety edge is only possible with optosensors or 8K2 strip.

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

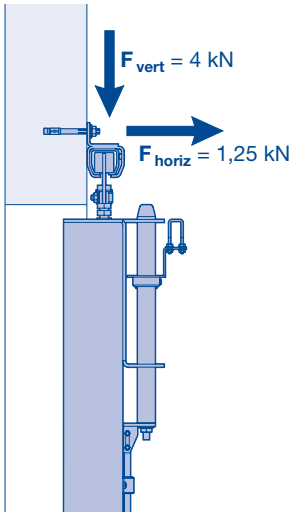
Fitting:
- The door system with centre support may only be assembled when the floor is finished.
- A base construction of 60 mm is required in the area of the door frame and the spring shaft.
  Recommendation: Industrial additional post 120 / 60 / 2.

Maximum load

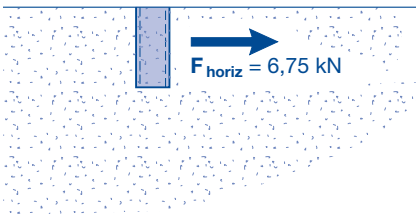
– on the head plate



- on the track



- per floor sleeve



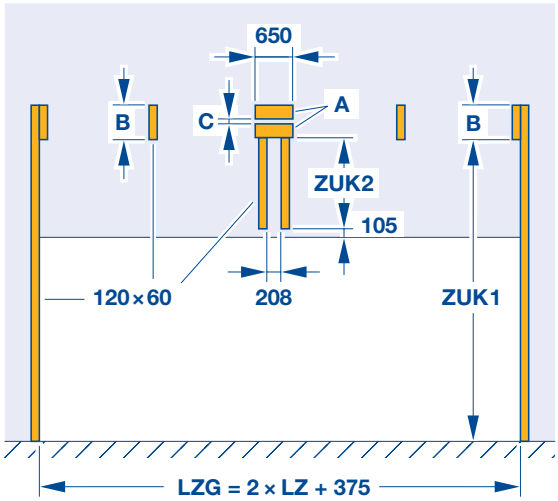
F_{horiz}	Horizontal force at the fixing point
F_{vert}	Vertical force at the fixing point
LZ	Clear frame dimensions
RM	Grid height

Movable centre support

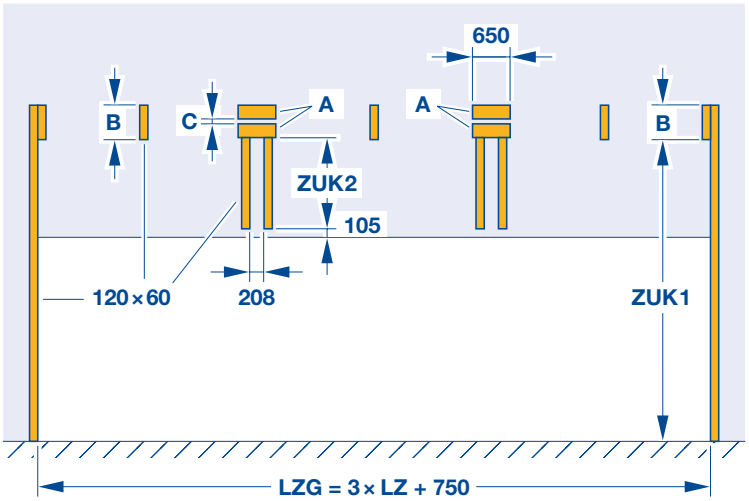
Possible variants of the base construction

Segmented base construction

Combination with **two** industrial sectional doors

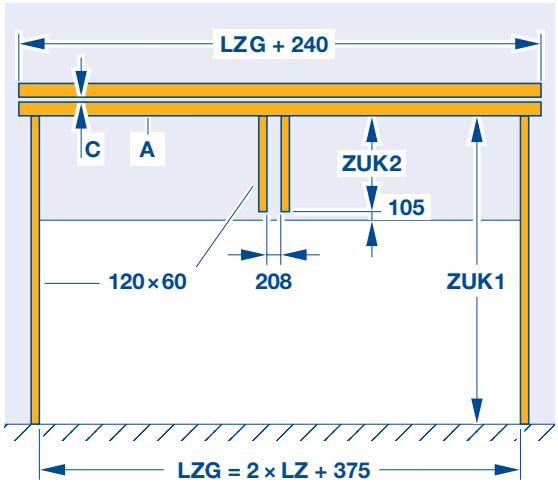


Combination with **three** industrial sectional doors

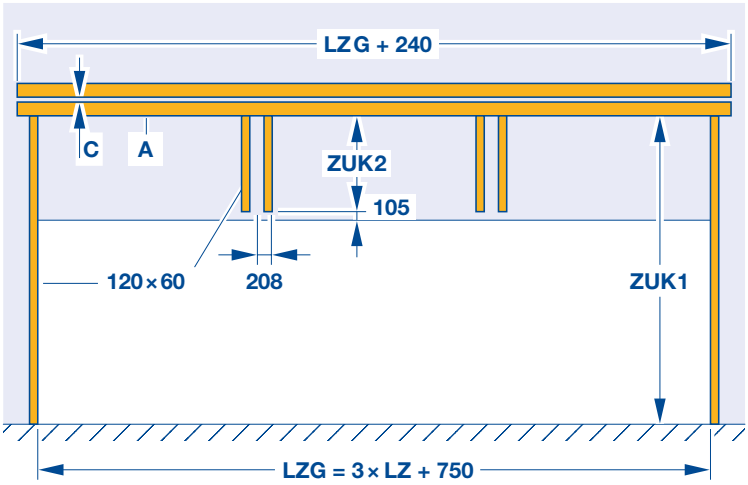


Solid base construction

Combination with **two** industrial sectional doors



Combination with **three** industrial sectional doors



Note:
Position of shaft support **BW**, see page 92.

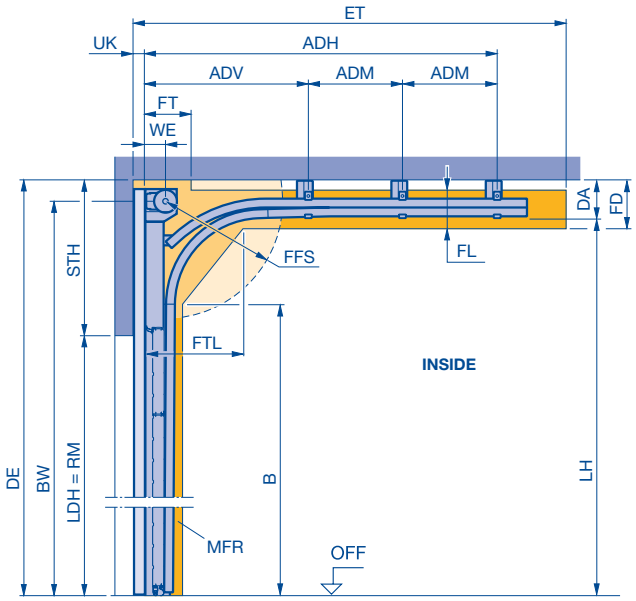
	A	B	C	ZUK 1	ZUK 2
Simple spring shaft	120 × 60	300	0	BW – 205	BW – RM – 250
Double spring shaft	200 × 60	500	45	BW – 170	BW – RM – 220

BW Position of shaft support
LZ Clear frame dimensions
LZG Total clear frame dimensions
RM 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.



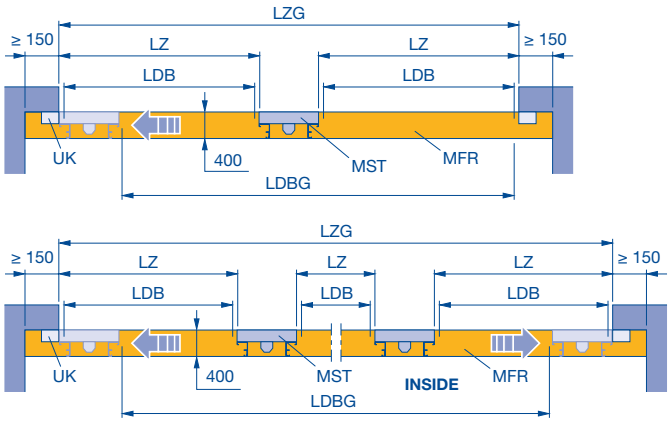
ADH Distance to rear ceiling anchor
ADM Distance to central ceiling anchor
ADV Distance to front ceiling anchor
B Start of double radius
BW Position of shaft support
DA Min. distance to ceiling
DE Min. ceiling height
ET Min. distance back
F Fixed
FD Min. ceiling clearance
FFS Spring compression clearance
FL Track clearance
FT Clearance for door operation
FTL Clearance door section in the double radius
LDB Clear passage width with ThermoFrame (see page 66)
LDBG Total clear passage width
LDH Clear passage height
LH Track height
LZ Clear frame dimensions **(from 1200)**
LZG Total clear frame dimensions
MFR Space for fitting the door
Mn_1 Number of centre supports
MST Centre support
OFF Finished floor level
RM Grid height
STH Min. headroom
UK Base construction
V Variable
WE Shaft centre from lintel

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 9 – 14 and 17 – 25!
- ALR 67 Thermo Glazing on request.

Table: track heights (LH)

	F	V				F	V		
RM	RM + 740	Min. LH	Max. LH		RM	RM + 740	Min. LH	Max. LH
5000	5740	6345	8350						
4875	5615	6220	8225						
4750	5490	6095	8100						
4625	5365	5970	7975						
4500	5240	5845	7850						
4375	5115	5720	7725	H 5	7500	8240	8845	10250	H 8
4250	4990	5595	7600	H 5	7375	8115	8720	10250	H 8
4125	4865	5470	7475	H 5	7250	7990	8595	10250	H 8
4000	4740	5345	7235	H 5	7125	7865	8470	10250	H 8
3875	4615	5220	6985	H 5	7000	7740	8345	10250	H 8
3750	4490	5095	6735	H 5	6875	7615	8220	10250	H 8
3625	4365	4970	6485	H 5	6750	7490	8095	10200	H 8
3500	4240	4845	6235	H 4	6625	7365	7970	10075	H 8
3375	4115	4720	5985	H 4	6500	7240	7845	9950	H 8
3250	3990	4595	5735	H 4	6375	7115	7720	9825	H 8
3125	3865	4470	5485	H 4	6250	6990	7595	9700	H 8
3000	3740	4345	5235	H 4	6125	6865	7470	9575	H 8
2875	3615	4220	4985	H 4	6000	6740	7345	9450	H 8
2750	3490	4095	4735	H 4	5875	6615	7220	9325	H 8
2625	3365	3970	4485	H 4	5750	6490	7095	9200	H 8
2500	3240	3845	4235	H 4	5625	6365	6970	9075	H 8
2375	3115	3720	3985	H 4	5500	6240	6845	8950	H 8
2250	2990	3595	3735	H 4	5375	6115	6720	8825	H 8
2125	2865	3470	3485	H 4	5250	5990	6595	8700	H 8
2000	2740	-	-	H 4	5125	5865	6470	8575	H 8



		STH	WE	DA	BW
H 4	F	1060	160 + 60	320	RM + 890
	V	LH - RM + 290		290	LH + 150
H 5	F	1090 (1265*)	180 + 60	350 (525*)	RM + 920
	V	LH - RM + 350 (525*)		340 (515*)	LH + 180
H 8	F	1130 (1290*)	205 + 60	390 (550*)	RM + 945
	V	LH - RM + 390 (550*)		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 × WE	650 + 60

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

** Simplified calculation

Clear passage:
- LDH = RM
- LDBG = LZG – (Mn_1 × 400)

Infill overview

Determination of the roof slope

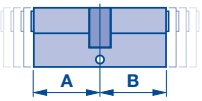
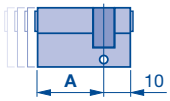
Infill overview	SPU 67 Thermo	APU 67 Thermo	ALR 67 Thermo	ALR 67 Thermo Glazing
Infill type	**Abbreviation**			
PU infill, 51 mm with aluminium sheet cover Stucco-textured on both sides, $U_g = 0.54$ W/m²·K	–	FU	FU	–
PU infill, 51 mm with smooth, anodised aluminium sheet cover on both sides, $U_g = 0.54$ W/m²·K	–	XU	XU	–
PU infill, 26 mm with smooth, anodised aluminium sheet cover on both sides, $U_g = 1.2$ W/m²·K [3]	TU	TU	TU	–
Clear polycarbonate triple pane, 51 mm, $U_g = 2.7$ W/m²·K	C3	C3	C3	–
Clear polycarbonate quadruple pane, 51 mm, $U_g = 2.7$ W/m²·K	C4	C4	C4	–
Clear synthetic triple pane, 51 mm, $U_g = 1.6$ W/m²·K	S3	S3	S3	–
Synthetic triple pane, crystal structure, 51 mm, $U_g = 1.6$ W/m²·K	U3	U3	U3	–
Synthetic triple pane, grey tinted, 51 mm, $U_g = 1.6$ W/m²·K	A3	A3	A3	–
Synthetic triple pane, white tinted (opal), 51 mm, $U_g = 1.6$ W/m²·K	M3	M3	M3	–
Clear synthetic quadruple pane, 51 mm, $U_g = 1.3$ W/m²·K	S4	S4	S4	–
Synthetic quadruple pane, crystal structure, 51 mm, $U_g = 1.3$ W/m²·K	U4	U4	U4	–
Synthetic quadruple pane, grey tinted, 51 mm, $U_g = 1.3$ W/m²·K	A4	A4	A4	–
Synthetic quadruple pane, white tinted (opal), 51 mm, $U_g = 1.3$ W/m²·K	M4	M4	M4	–
Double pane made of single-pane safety glass, 26 mm, $U_g = 2.6$ W/m²·K [1]	E2	E2	E2	E2
Double pane made of laminated safety glass P4A, 26 mm, $U_g = 1.3$ W/m²·K [3]	W2	W2	W2	–
Climatic double pane made of single-pane safety glass, 26 mm, $U_g = 1.1$ W/m²·K [1]	G2	G2	G2	G2
Prepared for on-site infill [2]	BS	BS	BS	–

[1] Only for door width up to 6000 mm on request
[2] On request; infill weight and thickness must be specified (anodised glazing beads required)
[3] Only NT 80 Thermo with RC2 version

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 PC length (L): Interior (A) + exterior (B)	 Half cylinder PC length (L): Closing side (A) + blind side	Glazing frame Infill	Door lock Standard	Door lock Recessed	Wicket door	Optional extras Bolt lock	Operator accessories Key switch
SPU 67 Thermo APU 67 Thermo	L = 35 + 55	–	–	–	–	●	●	–
	–	L = 55 + 10	–	–	●	●	●	–
	–	L = 95 + 10	–	●	–	–	–	–
	–	L = 30 + 10	–	–	–	–	–	●
ALR 67 Thermo	L = 35 + 55	–	–	–	–	●	●	–
	–	L = 55 + 10	–	–	–	●	–	–
	–	L = 80 + 10	FU and XU	●	–	–	–	–
	–	L = 30 + 10	–	–	–	–	–	●
NT 80	L = 35 + 70	L = 35 + 10	–	–	–	–	–	–
NT 80 RC2	L = 35 + 60*	–	–	–	–	–	–	–

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

Notes

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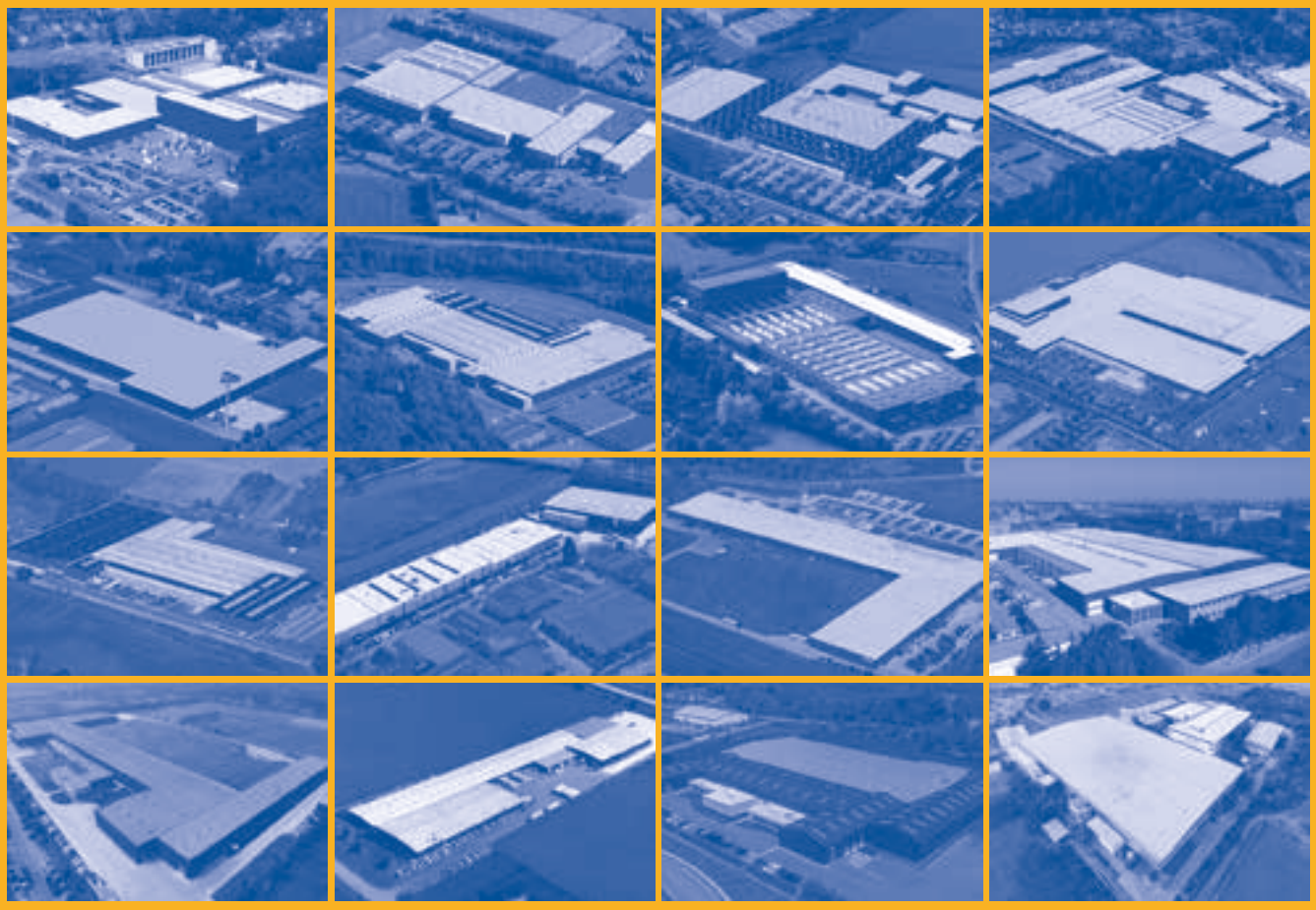

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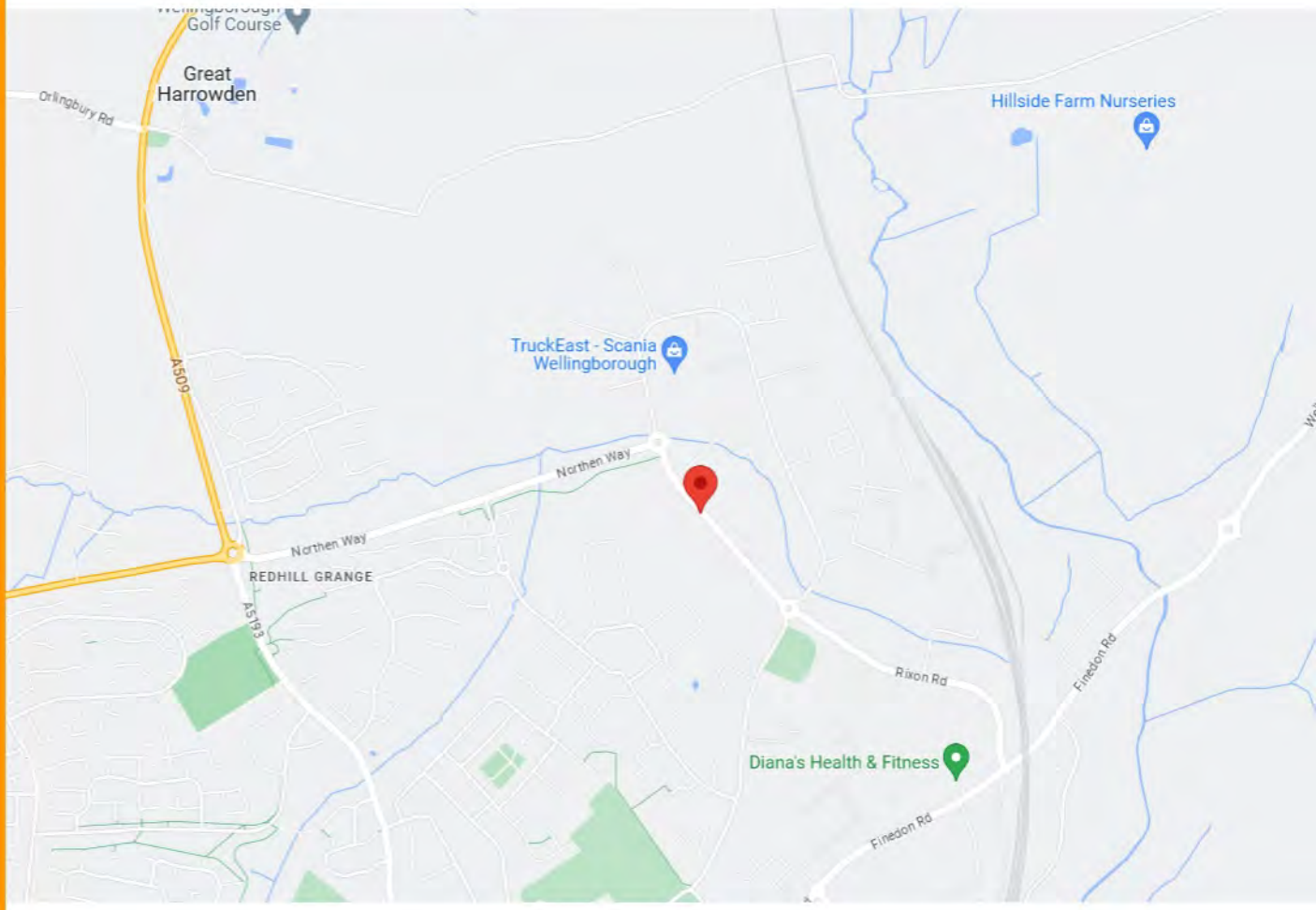

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