Sectional Garage Doors

Technical Manual: Issue 1.6.2008

Contents

This manual provides details of door leaf constructions and track applications as well as fitting examples.

Before fitting a sectional door, the structural opening must be finished and the floor must be laid and level.

All dimensions in mm.
Subject to design modifications.

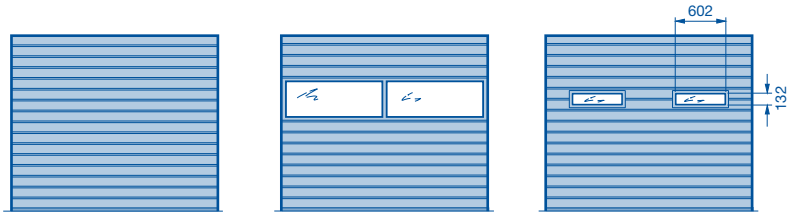
Sectional Door LTE 40

Single-Skinned Steel Sections
S-Ribbed
Woodgrain

Door leaf:
- Single-skinned door sections, Woodgrain embossed
- Equal-height door sections, horizontally ribbed, in hot galvanized sheet steel
- Surface with polyester primer coating
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

External views

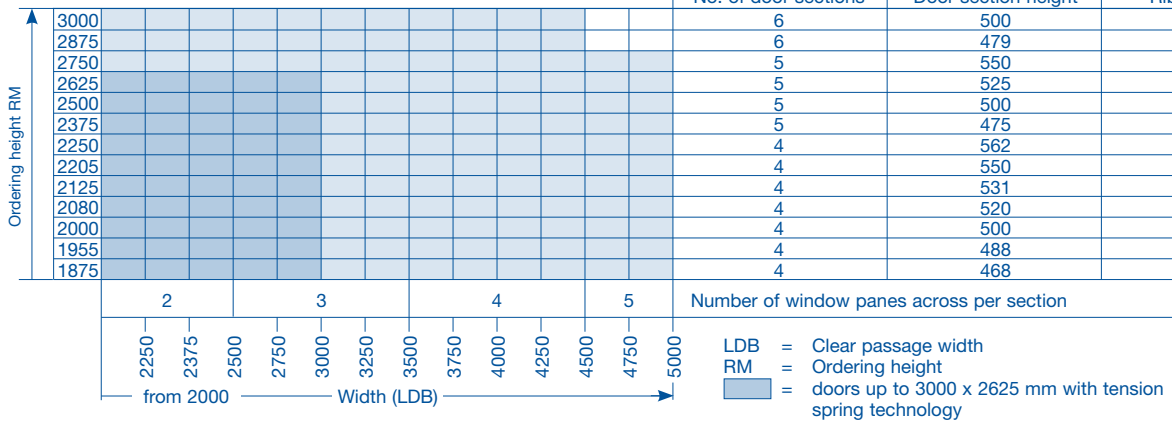
(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model | with aluminium frame | with glazing type D

Size range:

Door width in 10 mm increments, door height only in one of the ordering heights shown. Intermediate heights are not possible.



No. of door sections	Door section height	Rib spacing
6	500	125
6	479	120
5	550	138
5	525	131
5	500	125
5	475	119
4	562	141
4	550	138
4	531	133
4	520	130
4	500	125
4	488	122
4	468	117

Optional extras:

Ventilation
Ventilation slots in bottom door section, ventilation area 65 cm² per m door width
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width
Aluminium frame with expanded wire-mesh Ventilation area 58%

Glazing options
Aluminium frame (standard profile NF)
Glazing Type D, 3 mm

Sectional Door LTE 40

Single-Skinned Steel Sections
M-Ribbed
Woodgrain

Door leaf:
- Single-skinned door sections, Woodgrain embossed
- Equal-height door sections, horizontally ribbed, in hot galvanized sheet steel
- Surface with polyester primer coating.
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

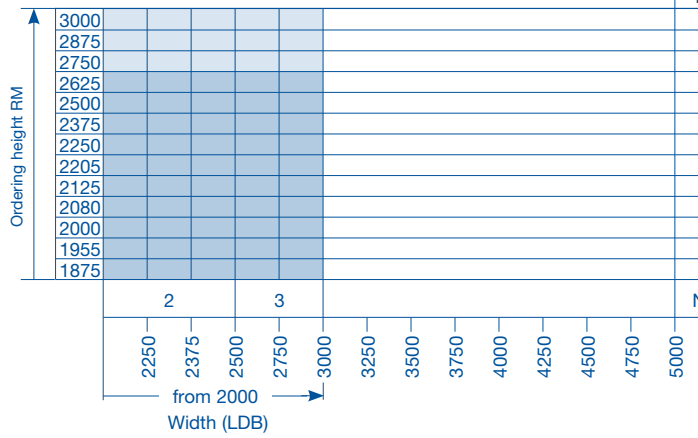
External views

(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)

Basic model | with aluminium frame | with glazing type D

Size range:

Door width in 10 mm increments, door height only in one of the ordering heights shown. Intermediate heights are not possible.



No. of door sections	Door section height	Rib spacing
6	500	250
6	479	239
5	550	275
5	525	262
5	500	250
5	475	237
4	562	282
4	550	275
4	531	265
4	520	260
4	500	250
4	488	244
4	468	234

Number of window panes across per section

LDB = Clear passage width
RM = Ordering height
= doors up to 3000 x 2625 mm with tension spring technology

Optional extras:

Ventilation
Ventilation slots in bottom door section, ventilation area 65 cm² per m door width
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width
Aluminium frame with expanded wire-mesh Ventilation area 58%

Glazing options
Aluminium frame (standard profile NF)
Glazing Type D, 3 mm

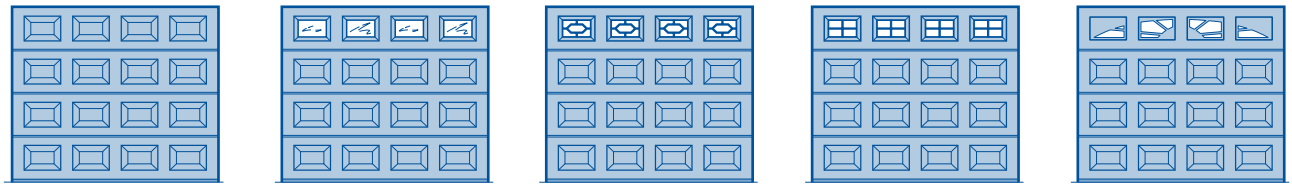
Sectional Door LTE 40

Single-Skinned Steel Sections
S-Panelled
Woodgrain

Door leaf:
- Single-skinned door sections, Woodgrain embossed
- Equal-height door sections, panelled, in hot galvanized sheet steel
- Surface with polyester primer coating.
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

External views

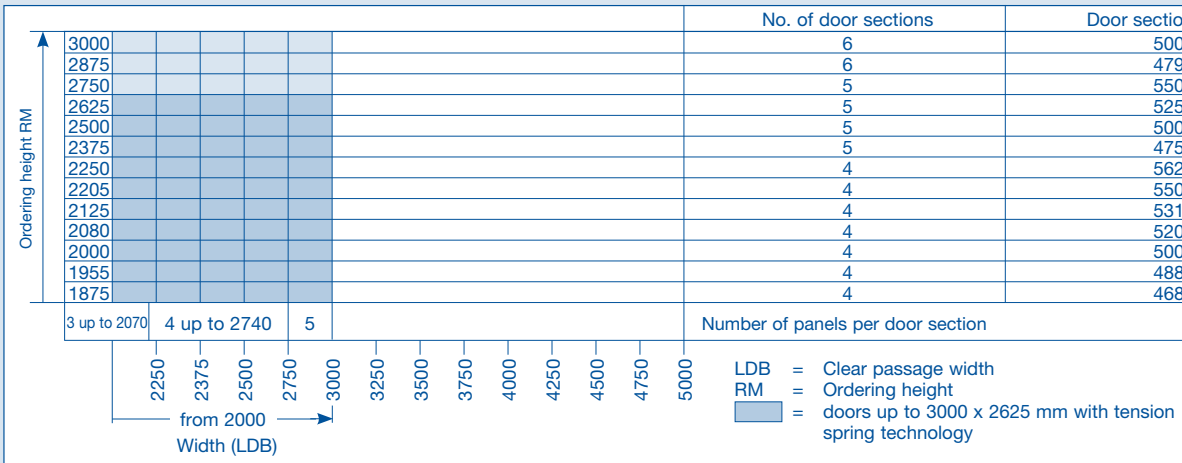
(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model | Design S0 | Design S1 with decorative lattice (rhombus) | Design S2 with decorative lattice (cross) | Design S10

Size range:

Door width in 10 mm increments, door height only in one of the ordering heights shown. Intermediate heights are not possible.



No. of door sections	Door section height
6	500
6	479
5	550
5	525
5	500
5	475
4	562
4	550
4	531
4	520
4	500
4	488
4	468

Number of panels per door section

Optional extras:

Ventilation	Glazing options - panel windows Panes, clear or crystal structure, 3 mm
Ventilation slots in bottom door section, ventilation area 65 cm² per m door width	Design S0, S1, S2
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width	Design S10, S20 (see p. 19)

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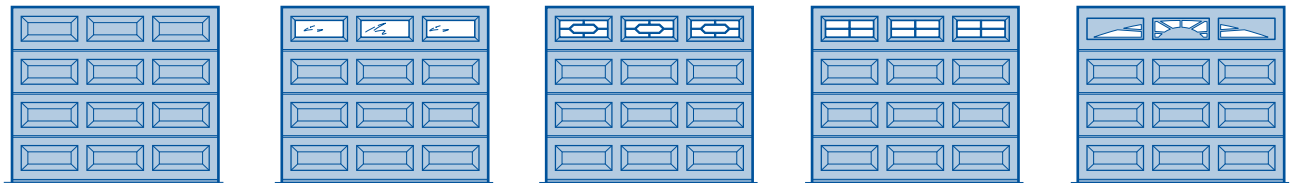
Sectional Door LTE 40

Single-Skinned Steel Sections
M-Panelled
Woodgrain

Door leaf:
- Single-skinned door sections, Woodgrain embossed
- Equal-height door sections, panelled, in hot galvanized sheet steel
- Surface with polyester primer coating.
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

External views

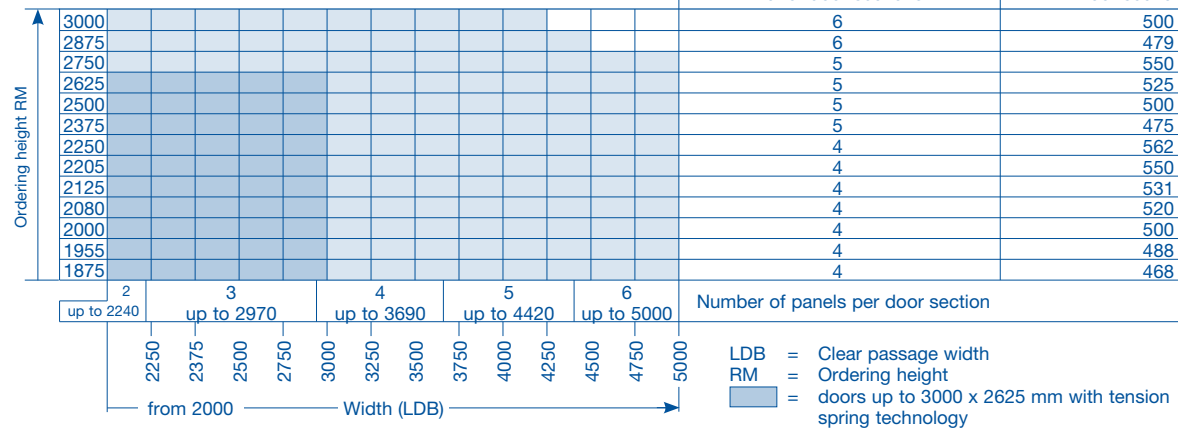
(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model | Design M0 | Design M1 with decorative lattice (rhombus) | Design M2 with decorative lattice (cross) | Design M10

Size range:

Door width in 10 mm increments, door height only in one of the ordering heights shown. Intermediate heights are not possible.



No. of door sections	Door section height
6	500
6	479
5	550
5	525
5	500
5	475
4	562
4	550
4	531
4	520
4	500
4	488
4	468

Number of panels per door section

LDB = Clear passage width
RM = Ordering height
= doors up to 3000 x 2625 mm with tension spring technology

Optional extras:

Ventilation	Glazing options - panel windows Panes, clear or crystal structure, 3 mm
Ventilation slots in bottom door section, ventilation area 65 cm² per m door width	Design M0, M1, M2
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width	Design M10, M20, M30, M40, M50 (see p. 19)

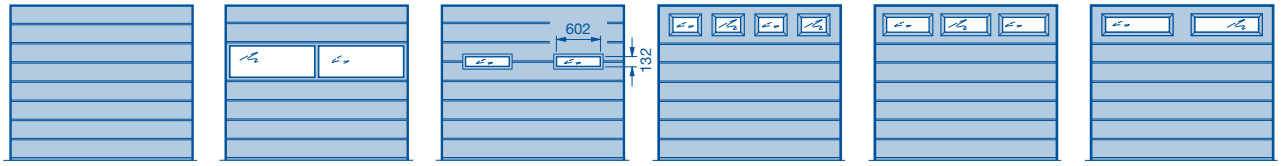
Sectional Door EPU 40

Double-Skinned Steel Sections
M-Ribbed
Woodgrain

Door leaf:
- Double-skinned, PU foam insulated door sections 42/20, outside Woodgrain embossed, inside stucco-embossed.
- Equal-height door sections, horizontally ribbed, in hot galvanized sheet steel
- Surface with polyester primer coating.
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

External views

(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model | with aluminium frame | with glazing type D | with glazing S0, S1, S2, Sunrise | with glazing M0, M1, M2, Sunrise | with glazing L0, L1, L2, Sunrise

Size range:

Door width in 10 mm increments, door height only in one of the ordering heights shown. Intermediate heights on request.

Ordering height RM	No. of door sections	Door section height	Rib spacing
3000	6	500	250
2875	6	479	239
2750	5	550	275
2625	5	525	262
2500	5	500	250
2375	5	475	237
2250	4	562	281
2205	4	550	275
2125	4	531	265
2080	4	520	260
2000	4	500	250
1955	4	488	244
1875	4	468	234

4				6				8				10		Number of ventilation grilles with 40 cm² ventilation area each
2				3				4				5		Number of glazings – aluminium frame and type D
3 up to 2125	4			5			6		7		8			Number of glazings – type S
2 up to 2240	3 up to 2970			4 up to 3690			5 up to 4420			6				Number of glazings – type M
2 up to 3400				3 up to 4490						4				Number of glazings – type L

2250 2375 2500 2750 3000 3250 3500 3750 4000 4250 4500 4750 5000

from 2000 — Width (LDB)

LDB = Clear passage width
RM = Ordering height
= doors up to 3000 x 2625 mm with tension spring technology

Optional extras:

Ventilation	Glazing options
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width	Aluminium frame (standard profile NF)
Ventilation grille, ventilation area 40 cm² each	Glazing type D, 16 mm
Aluminium frame with expanded wire-mesh Ventilation area 58%	Glazing type S, M, L 22 mm (see p. 19)

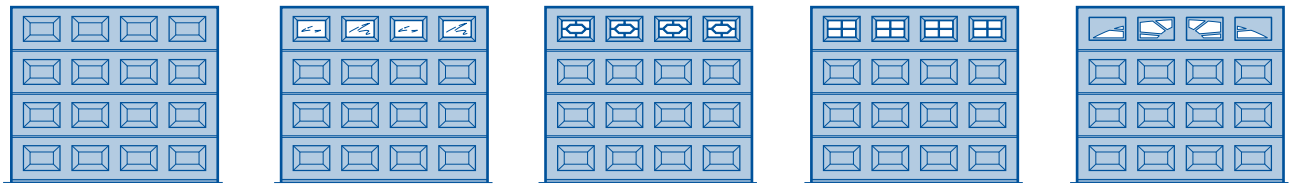
Sectional Door EPU 40

Double-Skinned Steel Sections
S-Panelled
Woodgrain

Door leaf:
- Double-skinned, PU foam insulated door sections 42/20, outside Woodgrain embossed, inside stucco embossed.
- Equal-height door sections, panelled, in hot galvanized sheet steel
- Surface with polyester primer coating.
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

External views

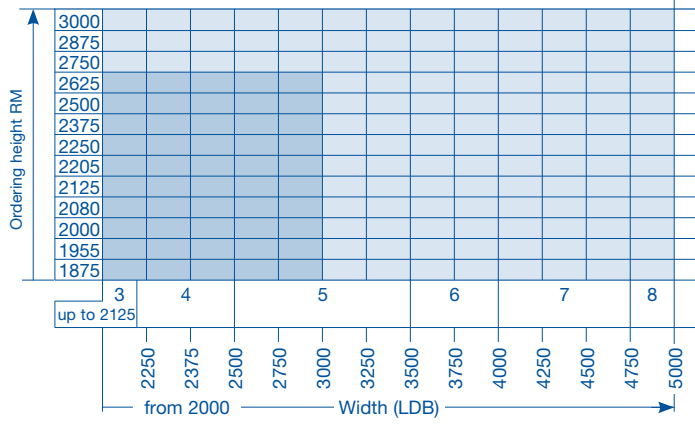
(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model | Design S0 | Design S1 with decorative lattice (rhombus) | Design S2 with decorative lattice (cross) | Design S10

Size range:

Door width in 10 mm increments, door height only in one of the ordering heights shown. Intermediate heights are not possible.



No. of door sections	Door section height
6	500
6	479
5	550
5	525
5	500
5	475
4	562
4	550
4	531
4	520
4	500
4	488
4	468

Number of panels per door section

LDB = Clear passage width
RM = Ordering height
= doors up to 3000 x 2625 mm with tension spring technology

Optional extras:

Ventilation
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width

Glazing options - panel windows Panes, clear or crystal structure, 16 mm
Design S0, S1, S2
Design S10, S20, S30, S40, S50, S60 (see p. 19)

Sectional Door LPU 40

Double-Skinned Steel Sections

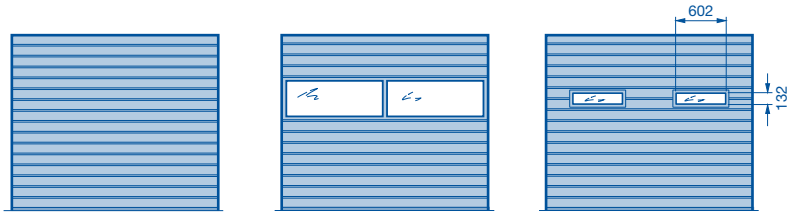
S-Ribbed

Woodgrain

Door leaf:
- Double-skinned, PU foam insulated door sections, outside Woodgrain embossed, inside stucco embossed.
- Equal-height door sections, horizontally ribbed, in hot galvanized sheet steel
- Surface with polyester primer coating
- Glazing not possible in the two bottom door sections
- For further details refer to the current current product brochure.

External views

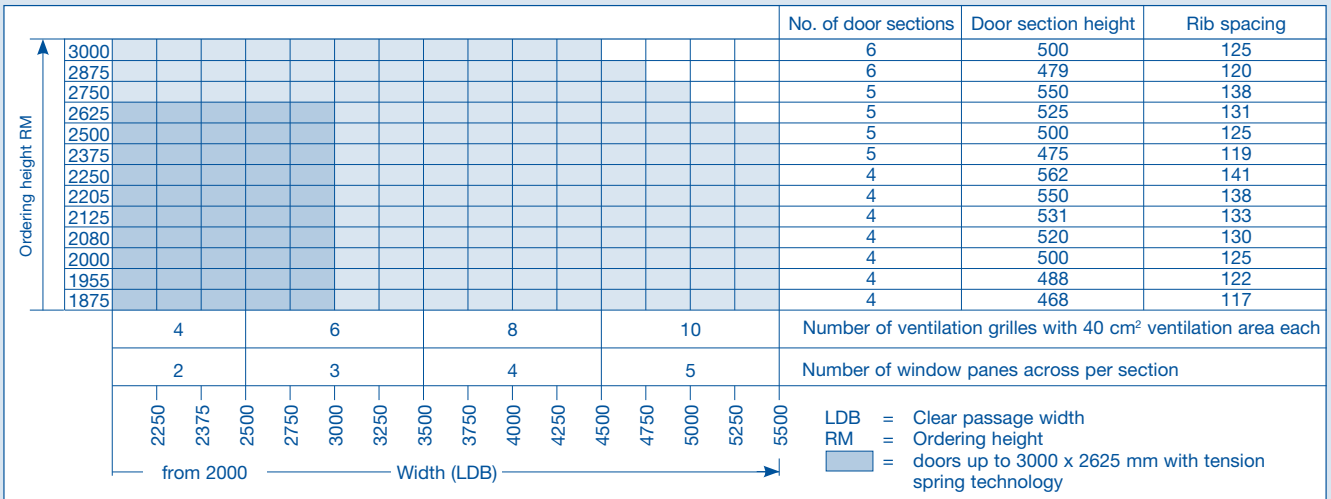
(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model | with aluminium frame | with glazing type D

Size range:

Door width in 10 mm increments, door height only in one of the ordering heights shown. Intermediate heights are possible.



No. of door sections	Door section height	Rib spacing
6	500	125
6	479	120
5	550	138
5	525	131
5	500	125
5	475	119
4	562	141
4	550	138
4	531	133
4	520	130
4	500	125
4	488	122
4	468	117

Number of ventilation grilles with 40 cm² ventilation area each

Number of window panes across per section

Optional extras:

Ventilation
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width
Ventilation grille, ventilation area 40 cm² each
Aluminium frame with expanded wire-mesh Ventilation area 58%

Glazing options
Aluminium frame (standard profile NF)
Glazing type D, 16 mm

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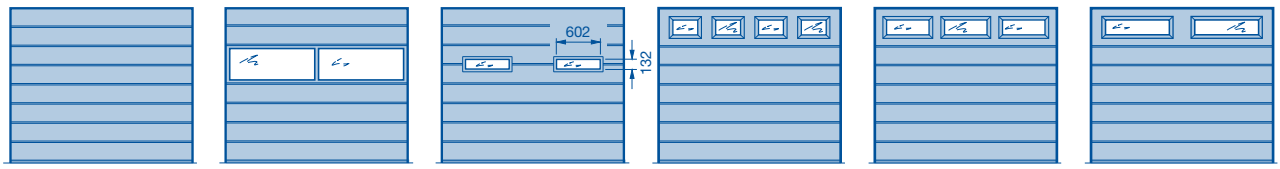
Sectional Door LPU 40

Double-Skinned Steel Sections
M-ribbed
Woodgrain

Door leaf:
- Double-skinned, PU foam insulated door sections, outside Woodgrain embossed, inside stucco embossed.
- Equal-height door sections, horizontally ribbed, in hot galvanized sheet steel
- Surface with polyester primer coating.
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

External views

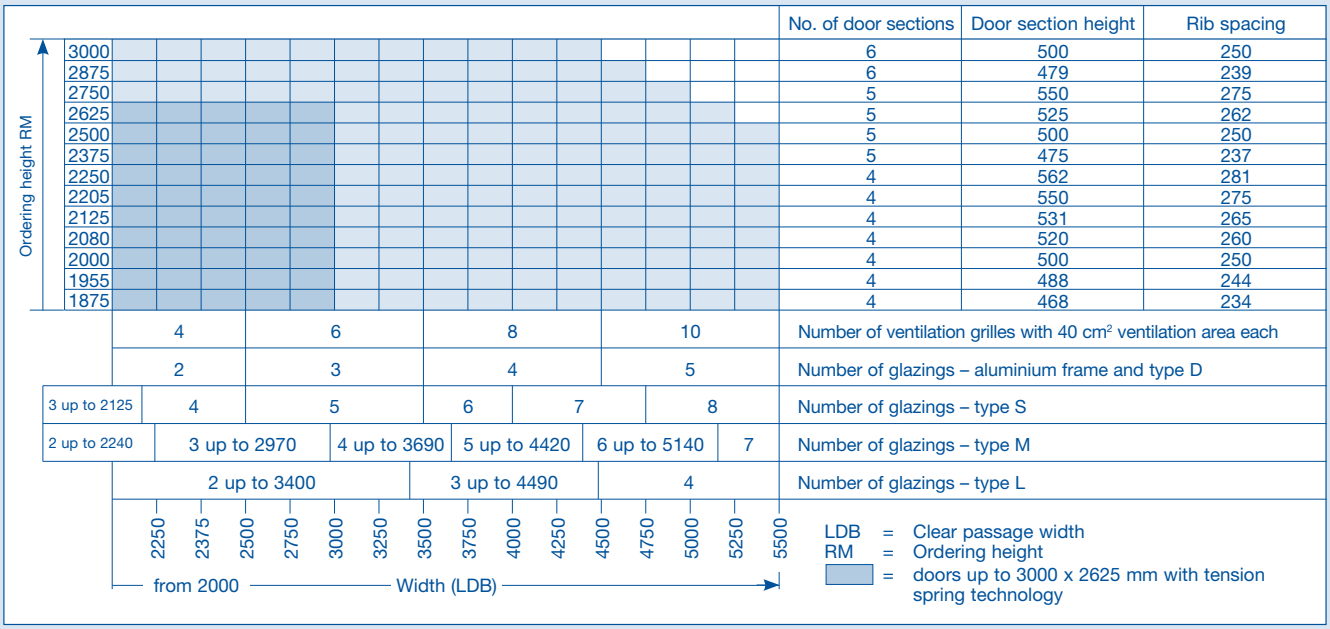
(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model | with aluminium frame | with glazing type D | with glazing S0, S1, S2, Sunrise | with glazing M0, M1, M2, Sunrise | with glazing L0, L1, L2, Sunrise

Size range:

Door width in 10 mm increments, door height only in one of the ordering heights shown. Intermediate heights are possible.



No. of door sections	Door section height	Rib spacing
6	500	250
6	479	239
5	550	275
5	525	262
5	500	250
5	475	237
4	562	281
4	550	275
4	531	265
4	520	260
4	500	250
4	488	244
4	468	234

Number of ventilation grilles with 40 cm² ventilation area each

Number of glazings – aluminium frame and type D

Number of glazings – type S

Number of glazings – type M

Number of glazings – type L

Optional extras:

Ventilation	Glazing options
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width	Aluminium frame (standard profile NF)
Ventilation grille, ventilation area 40 cm² each	Glazing type D, 16 mm
Aluminium frame with expanded wire-mesh Ventilation area 58%	Glazing type S, M, L 22 mm (see p. 19)

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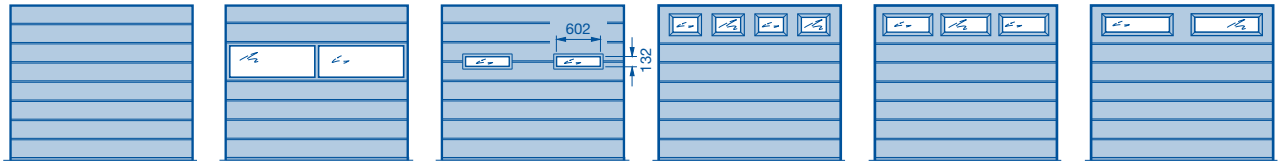
Sectional Door LPU 40

Double-Skinned Steel Sections
M-Ribbed
Silkgrain®

Door leaf:
- Double-skinned, PU foam insulated door sections, outside Silkgrain® embossed, inside stucco embossed.
- Door sections, horizontally ribbed, in hot galvanized sheet steel
- Surface with polyester primer coating.
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

External views

(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model | with aluminium frame | with glazing type D | with glazing S0, S1, S2, Sunrise | with glazing M0, M1, M2, Sunrise | with glazing L0, L1, L2, Sunrise

Size range:

Door width in 10 mm increments, door height only in one of the ordering heights shown. Intermediate heights are possible.

Ordering height RM	No. of door sections	Door section height	Rib spacing
3000	6	500	250
2875			
2750	5	550	275
2625			
2500	5	500	250
2375	5	475	237
2250	4	562	281
2205	4	550	275
2125	4	531	265
2080	4	520	260
2000	4	500	250
1955	4	488	244
1875	4	468	234

4	6	8	10		Number of ventilation grilles with 40 cm² ventilation area each
2	3	4	5		Number of glazings – aluminium frame and type D
3 up to 2125	4	5	6	7	8	Number of glazings – type S
2 up to 2240	3 up to 2970	4 up to 3690	5 up to 4420	6 up to 5140	7	Number of glazings – type M
2 up to 3400	3 up to 4490	4				Number of glazings – type L

2250 2375 2500 2750 3000 3250 3500 3750 4000 4250 4500 4750 5000 5250 5500

from 2000 — Width (LDB)

LDB = Clear passage width
RM = Ordering height
= doors up to 3000 x 2625 mm with tension spring technology

Optional extras:

Ventilation
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width
Aluminium frame with expanded wire-mesh Ventilation area 58%

Glazing options
Aluminium frame (standard profile NF)
Glazing type D, 16 mm
Glazing type S, M, L 22 mm (see p. 19)

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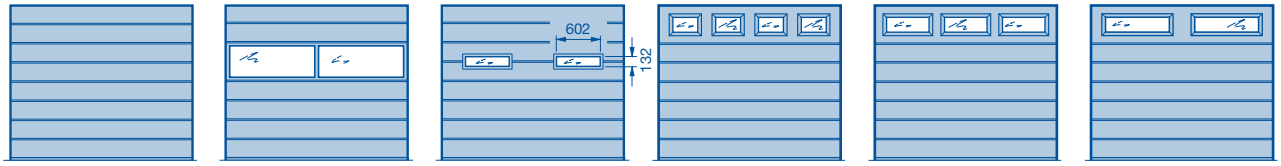
Sectional Door LPU 40

Double-Skinned Steel Sections
M-Ribbed
Decograin®

Door leaf:
- Double-skinned, PU foam insulated door sections, outside Decograin®, inside stucco embossed.
- Door sections, horizontally ribbed, in hot galvanized sheet steel
- Surface with synthetic foil coating on the outside and polyester primer coating on the inside.
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

External views

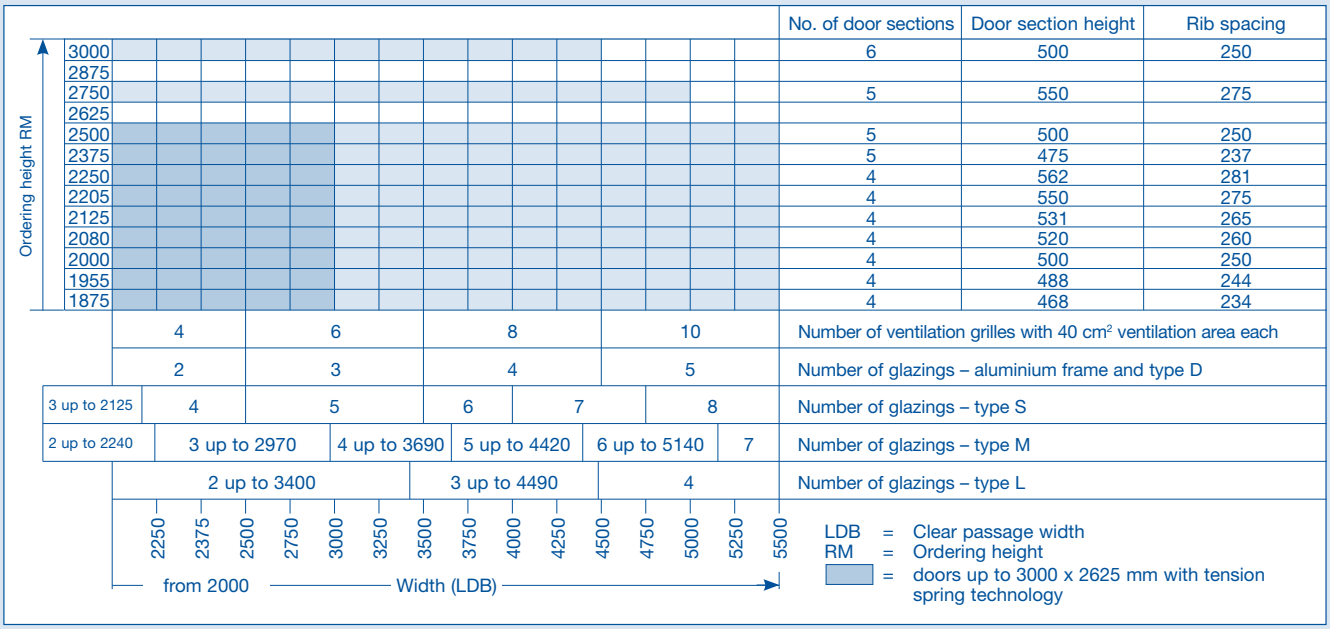
(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model | with aluminium frame | with glazing type D | with glazing S0, S1, S2, Sunrise | with glazing M0, M1, M2, Sunrise | with glazing L0, L1, L2, Sunrise

Size range:

Door width in 10 mm increments, door height only in one of the ordering heights shown. Intermediate heights are possible.



Optional extras:

Ventilation
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width
Aluminium frame with expanded wire-mesh Ventilation area 58%

Glazing options
Aluminium frame (standard profile NF)
Glazing type D, 16 mm
Glazing type S, M, L 22 mm (see p. 19)

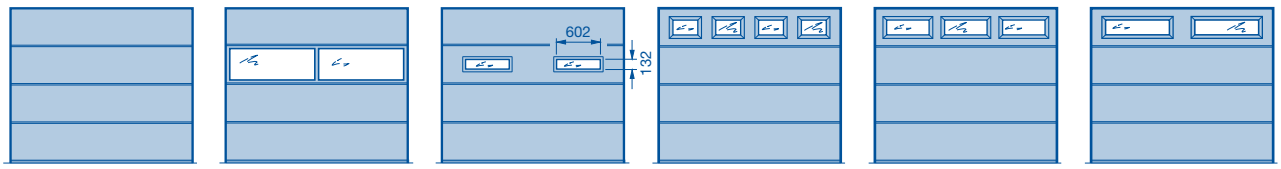
Sectional Door LPU 40

Double-Skinned Steel Sections
L-Ribbed
Woodgrain

Door leaf:
- Double-skinned, PU foam insulated door sections , outside Woodgrain embossed, inside stucco embossed.
- Equal-height door sections, in hot galvanized sheet steel
- Surface with polyester primer coating.
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

External views

(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model | with aluminium frame | with glazing type D | with glazing S0, S1, S2, Sunrise | with glazing M0, M1, M2, Sunrise | with glazing L0, L1, L2, Sunrise

Size range:

Door width in 10 mm increments, door height in one of the ordering heights shown. Intermediate heights are possible.

Ordering height RM	No. of door sections	Door section height
3000	6	500
2875	6	479
2750	5	550
2625	5	525
2500	5	500
2375	5	475
2250	4	562
2205	4	550
2125	4	531
2080	4	520
2000	4	500
1955	4	488
1875	4	468

	4				6				8				10					Number of ventilation grilles with 40 cm² ventilation area each
	2				3				4				5					Number of glazings – aluminium frame and type D
3 up to 2125	4				5				6			7			8			Number of glazings – type S
2 up to 2240	3 up to 2970				4 up to 3690				5 up to 4420			6 up to 5140			7			Number of glazings – type M
	2 up to 3400								3 up to 4490				4					Number of glazings – type L

2250 2375 2500 2750 3000 3250 3500 3750 4000 4250 4500 4750 5000 5250 5500

from 2000 — Width (LDB)

LDB = Clear passage width
RM = Ordering height
= doors up to 3000 x 2625 mm with tension spring technology

Optional extras:

Ventilation
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width
Aluminium frame with expanded wire-mesh Ventilation area 58%

Glazing options
Aluminium frame (standard profile NF)
Glazing type D, 16 mm
Glazing type S, M, L 22 mm (see p. 19)

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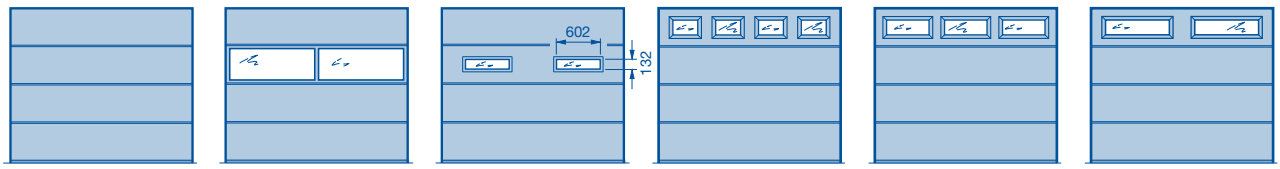
Sectional Door LPU 40

Double-Skinned Steel Sections
L-Ribbed
Silkgrain®

Door leaf:
- Double-skinned, PU foam insulated door sections, outside Silkgrain® embossed, inside stucco embossed.
- Equal-height door sections, in hot galvanized sheet steel
- Surface with polyester primer coating.
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

External views

(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model | with aluminium frame | with glazing type D | with glazing S0, S1, S2, Sunrise | with glazing M0, M1, M2, Sunrise | with glazing L0, L1, L2, Sunrise

Size range:

Door width in 10 mm increments, door height only in one of the ordering heights shown. Intermediate heights are possible.

Ordering height RM	No. of door sections	Door section height
3000	6	500
2875		
2750	5	550
2625		
2500	5	500
2375	5	475
2250	4	562
2205	4	550
2125	4	531
2080	4	520
2000	4	500
1955	4	488
1875	4	468

Width (LDB)																	
from 2000	2250	2375	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500		
2 up to 3400								3 up to 4490					4				Number of glazings – type L
2 up to 2240	3 up to 2970				4 up to 3690			5 up to 4420			6 up to 5140			7			Number of glazings – type M
3 up to 2125	4			5			6			7			8				Number of glazings – type S
	2			3			4			5							Number of glazings – aluminium frame and type D
	4			6			8			10							Number of ventilation grilles with 40 cm² ventilation area each

LDB = Clear passage width
RM = Ordering height
= doors up to 3000 x 2625 mm with tension spring technology

Optional extras:

Ventilation
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width
Aluminium frame with expanded wire-mesh Ventilation area 58%

Glazing options
Aluminium frame (standard profile NF)
Glazing type D, 16 mm
Glazing type S, M, L 22 mm (see p. 19)

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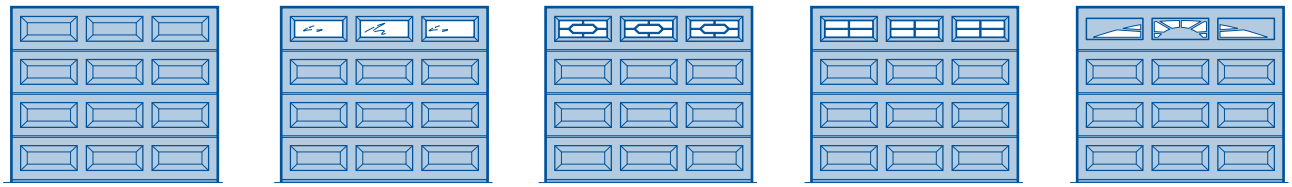
Sectional Door LPU 40

Double-Skinned Steel Sections
M-Panelled
Woodgrain

Door leaf:
- Double-skinned, PU foam insulated door sections , outside Woodgrain embossed, inside stucco embossed.
- Equal-height door sections, panelled, in hot galvanized sheet steel
- Surface with polyester primer coating.
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

External views

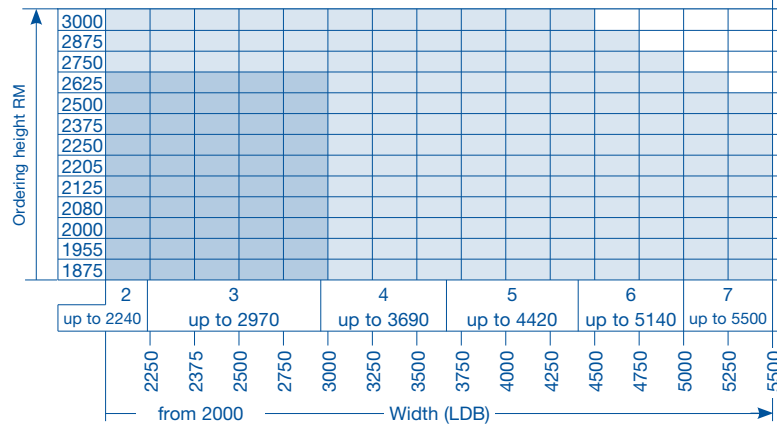
(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model | Design M0 | Design M1 with decorative lattice (rhombus) | Design M2 with decorative lattice (cross) | Design M10

Size range:

Door width in 10 mm increments, door height only in one of the ordering heights shown. Intermediate heights are not possible.



No. of door sections	Door section height
6	500
6	479
5	550
5	525
5	500
5	475
4	562
4	550
4	531
4	520
4	500
4	488
4	468

Number of panels per door section

LDB = Clear passage width
RM = Ordering height
= doors up to 3000 x 2625 mm with tension spring technology

Optional extras:

Ventilation
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width

Glazing options - panel windows Double panes, clear or crystal structure, 16 mm
Design M0, M1, M2
Design M10, M20, M30, M40, M50 (see p. 19)

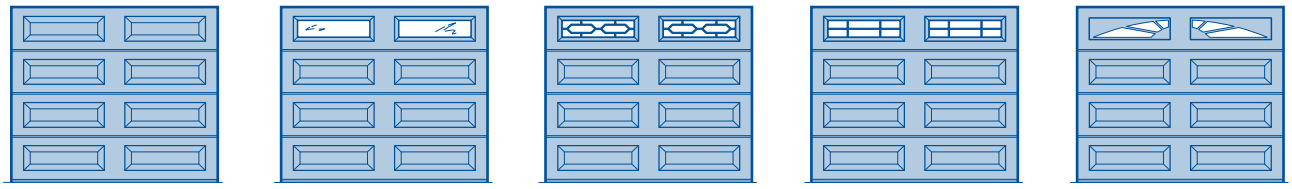
Sectional Door LPU 40

Double-Skinned Steel Sections
L-Panelled
Woodgrain

Door leaf:
- Double-skinned, PU foam insulated door sections , outside Woodgrain embossed, inside stucco embossed.
- Equal-height door sections, panelled, in hot galvanized sheet steel
- Surface with polyester primer coating.
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

External views

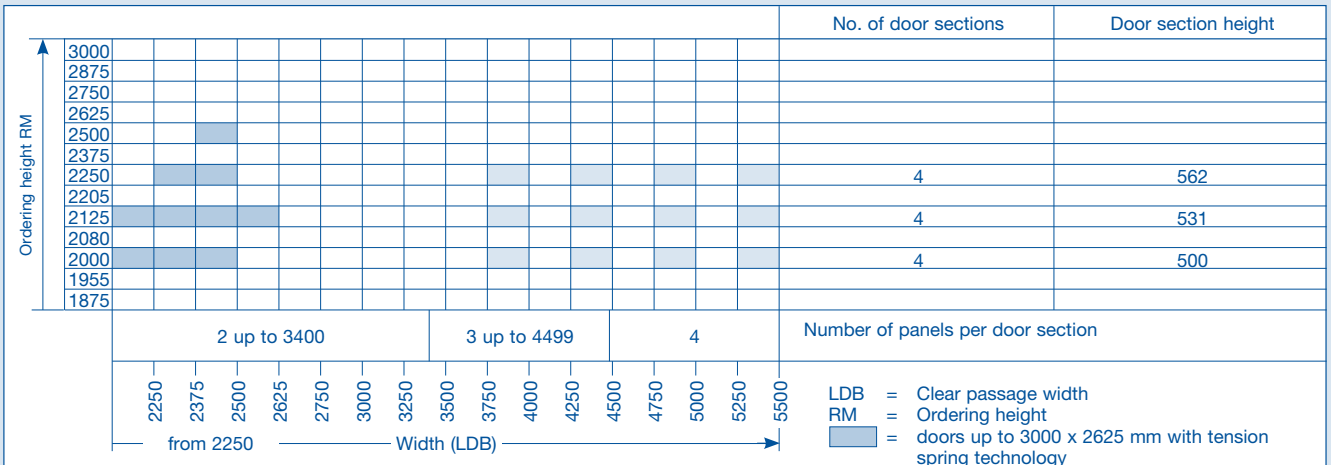
(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model | Design L0 | Design L1 with decorative lattice (rhombus) | Design L2 with decorative lattice (cross) | Design L10

Size range:

Door width and door height in ordering height. Intermediate widths and heights are not possible.



Optional extras:

Ventilation
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width

Glazing options - panel windows Double panes, clear or crystal structure, 16 mm
Design L0, L1, L2
Design C10, C30 (see p. 19)
Design L10, L20, L30, L40 (see p. 19)

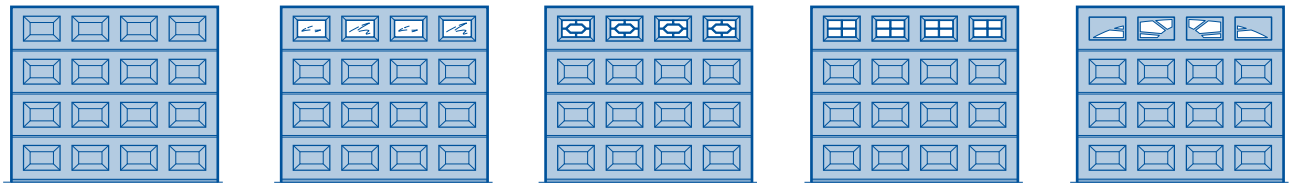
Sectional Door LPU 40

Double-Skinned Steel Sections
S-Panelled
Decograin®

Door leaf:
- Double-skinned, PU foam insulated door sections, 42 mm, outside Decograin® embossed, inside stucco embossed.
- Equal-height door sections, panelled, in hot galvanized sheet steel
- Surface with synthetic foil coating on the outside and polyester primer coating on the inside.
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

External views

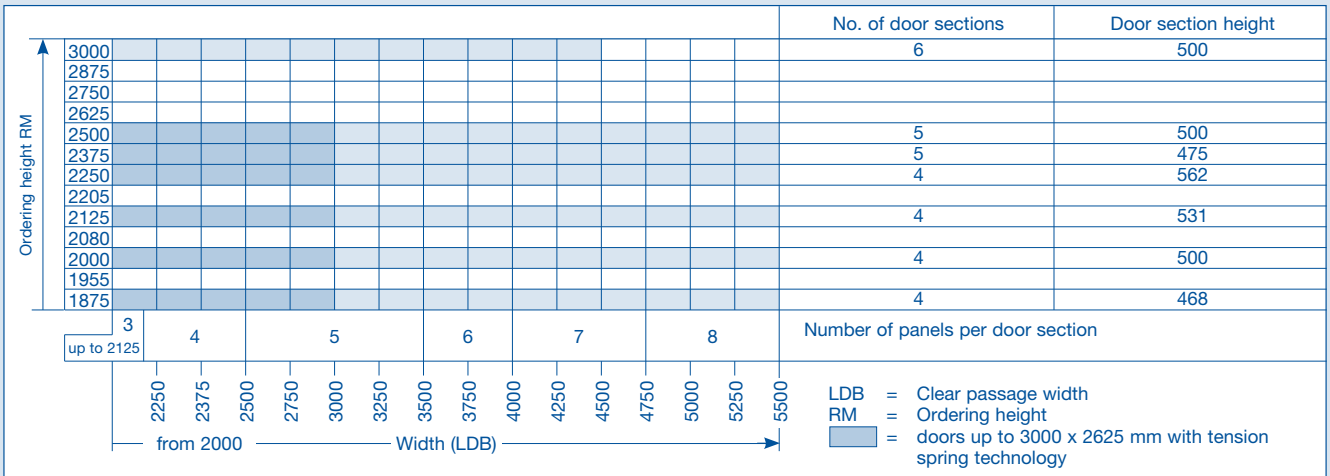
(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model | Design S0 | Design S1 with decorative lattice (rhombus) | Design S2 with decorative lattice (cross) | Design S10

Size range:

Door width in 10 mm increments, door height only in one of the ordering heights shown. Intermediate heights are possible.



No. of door sections	Door section height
6	500
5	500
5	475
4	562
4	531
4	500
4	468

Optional extras:

Ventilation
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width

Glazing options - panel windows Double panes, clear or crystal structure, 16 mm
Design S0, S1, S2
Design S10, S20, S30, S40, S50, S60 (see p. 19)

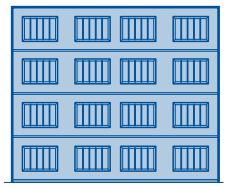
Sectional Door LPU 40

Double-Skinned Steel Sections
C-Panelled
Woodgrain

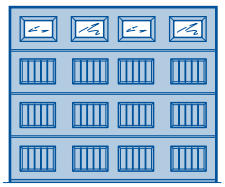
Door leaf:
- Double-skinned, PU foam insulated door sections, outside Woodgrain embossed, inside stucco embossed.
- Equal-height door sections, panelled, in hot galvanized sheet steel
- Surface with polyester primer coating.
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

External views

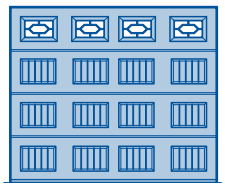
(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



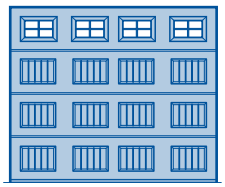
Basic model



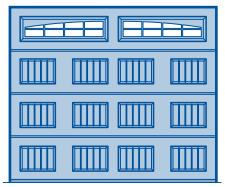
Design S0



Design S1 with decorative lattice (rhombus)



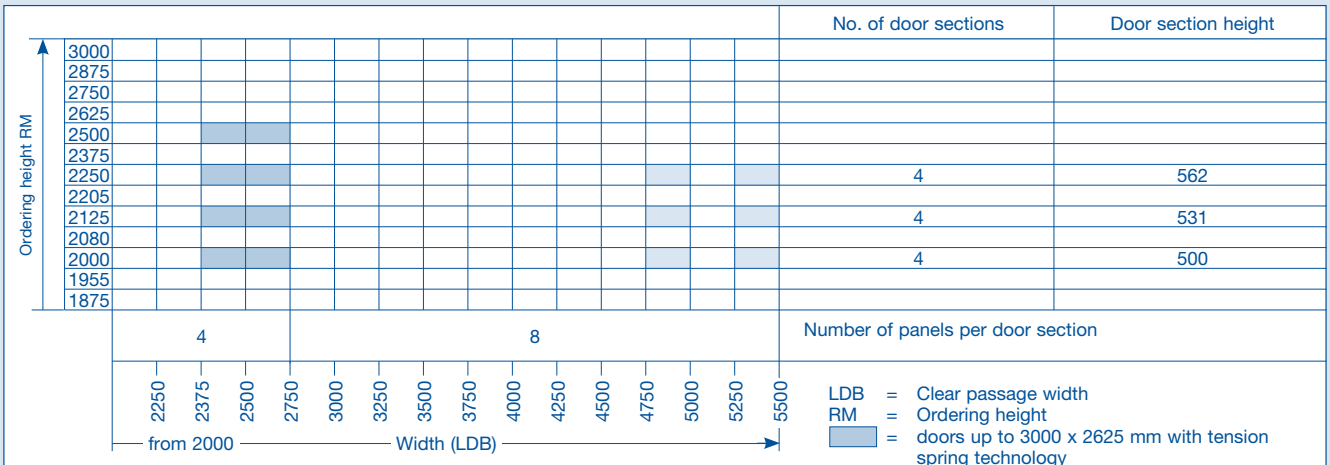
Design S2 with decorative lattice (cross)



Design C10

Size range:

Door width and door height in ordering height. Intermediate widths and heights are not possible.



No. of door sections	Door section height
4	562
4	531
4	500

Optional extras:

Ventilation
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width

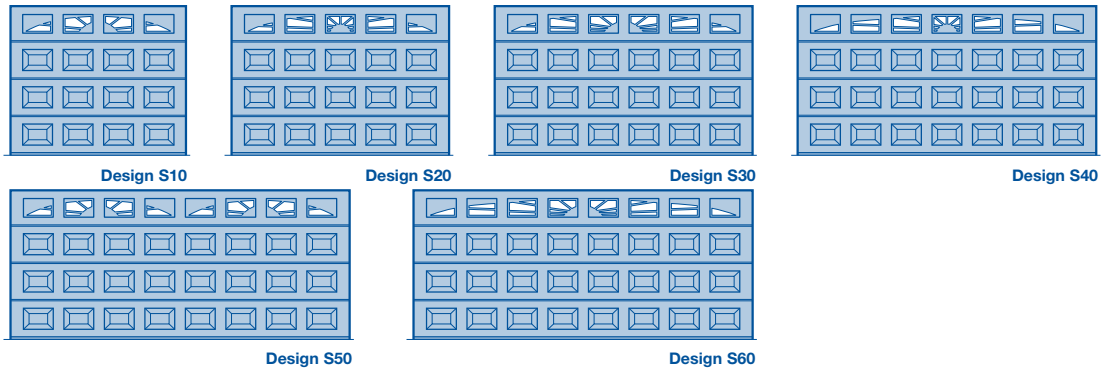
Glazing options - panel windows Double panes, clear or crystal structure, 16 mm
Design S0, S1, S2, S10, S60 (see p. 19)
Design C10, C30 (see p. 19)
Design L10, L40 (see p. 19)

Sunrise Glazing

for Sectional Doors
LTE 40/EPU 40/LPU 40

External views

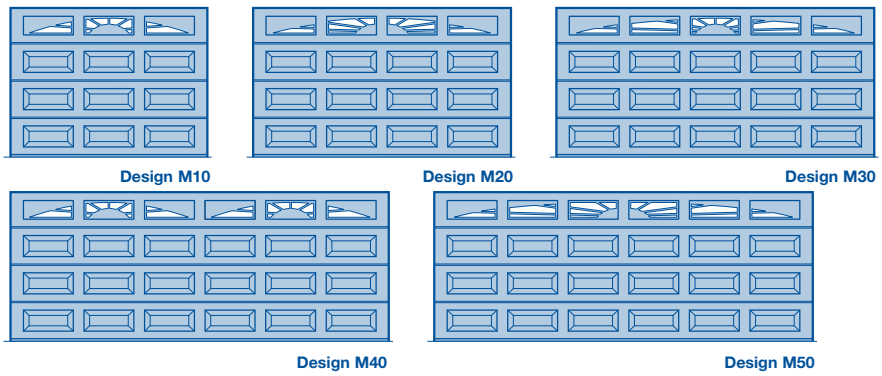
Sunrise glazing for sectional doors ETE 40/EPU 40 for standard and special sizes
Glazing options for type S-panelled (not possible for doors with 3 panels per section)



Design S10 Design S20 Design S30 Design S40

Design S50 Design S60

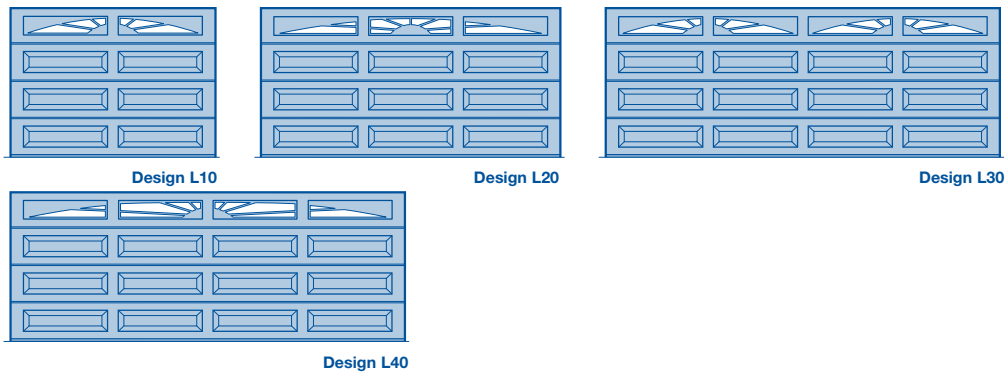
Sunrise glazing for sectional doors LTE 40/LPU 40 for standard and special sizes
Glazing options for M-panelled type (not possible for doors with 2 or 7 panels per section)



Design M10 Design M20 Design M30

Design M40 Design M50

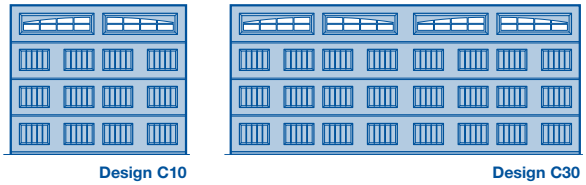
Sunrise-glazing for LPU 40 sectional doors for standard sizes. Glazing options for L-panelled type



Design L10 Design L20 Design L30

Design L40

Sunrise glazing for LPU 40 sectional doors for standard sizes. Glazing options for C-panelled type

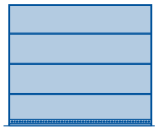
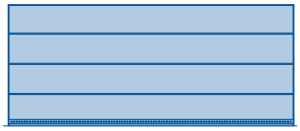
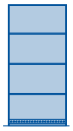
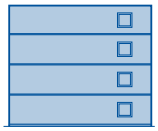
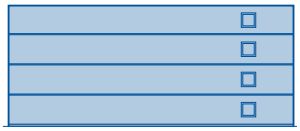
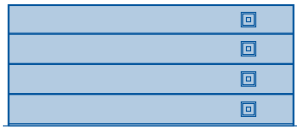
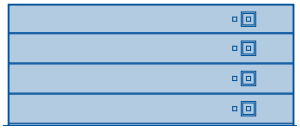
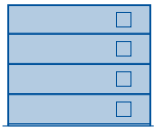
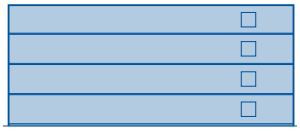
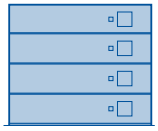
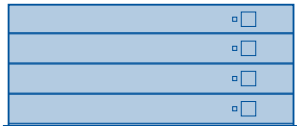
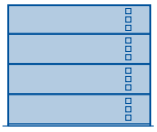
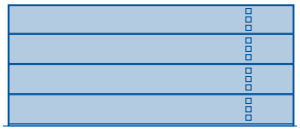
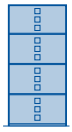
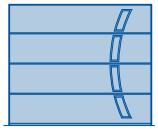
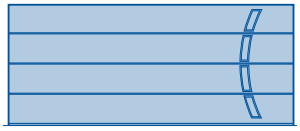
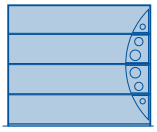
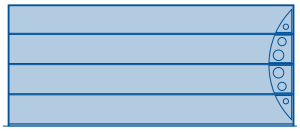
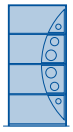
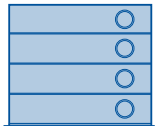
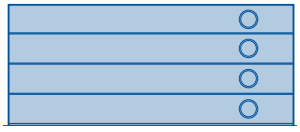
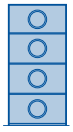


Design C10 Design C30

Special Designs

for Sectional Doors
LPU 40, L-Ribbed
Silkgrain

External views

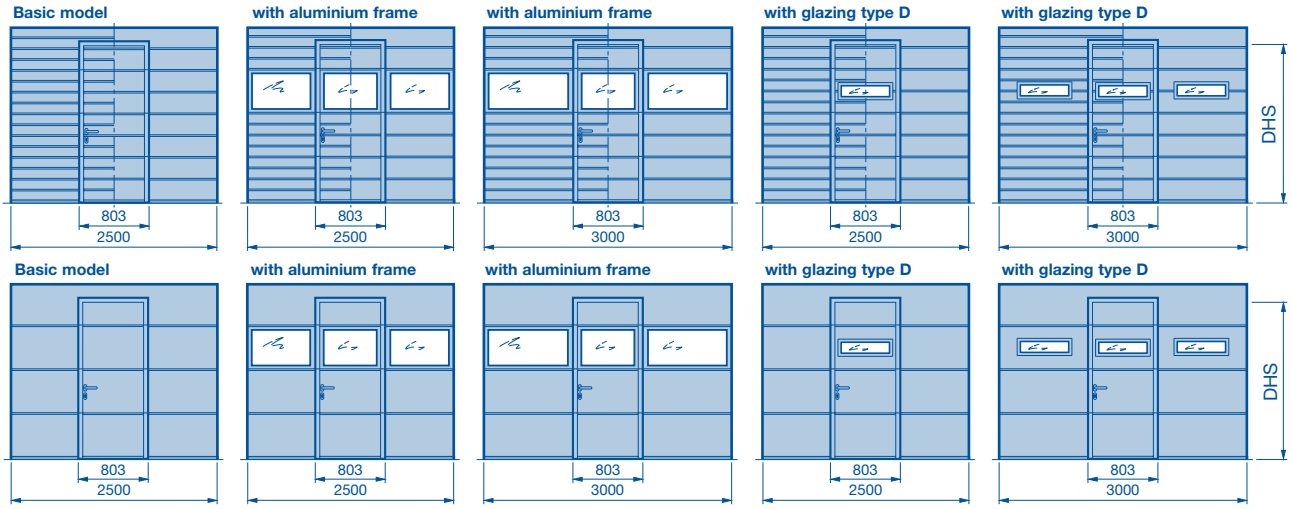
Door view 2500 x 2125 mm	Door view 5000 x 2125 mm	Side door view 1000 x 2125 mm
 Design 450		 Similar to entrance door 693
 Design 451		 Similar to entrance door 173
 Design 452		
 Design 453		 Similar to entrance door 170
 Design 454		
 Design 455		
 Design 456		 Similar to entrance door 866
 Design 457		 Similar to entrance door 188
 Design 458		
 Design 459		

Sectional Door LPU 40 with Wicket Door

Double-Skinned Steel Sections
S-Ribbed, M-Ribbed, L-Ribbed
Woodgrain or Decograin® (only with M-ribbed)

Door leaf:
- Double-skinned, PU foam insulated door sections, outside Woodgrain or Decograin®, inside stucco embossed.
- Equal-height door sections, horizontally ribbed or smooth sections, in hot galvanized sheet steel.
- Surface with polyester primer coating (Decograin® with synthetic foil coating on the outside).
- Glazing not possible in the two bottom door sections.
- Without door handle set, without internal locking; without single-skinned steel panel, top door section with lintel seal.
- We recommend the fitting of a SupraMatic P Garage Door Operator.

External views



The proportions of the doors illustrated correspond to a door height of 2125 mm. Other door heights will show variations. The floor in front of the garage must be level or slope down to the outside to ensure that the wicket door can be opened unhindered (opening outwards) on account of the low threshold - see p. 32.

Wicket doors: The wicket doors are always in 4 parts and in the S-ribbed version only with even spacing of the ribs. The clear passage width of the wicket door is 803 mm, the threshold height starts at 5 mm and rises to 10 mm.

Size range: Garage door width in 10 mm increments. Garage door height in one of the ordering heights. Intermediate heights from 5 door sections on request. For ceiling height and clear passage see track applications (p. 32).

Observe the size ranges of the door types	No. of door sections	Door section height	Passage height of wicket door DHS	Passage height of wicket door with transom glazing type D, S, M	Handle height
3000	6	500	1955	1955	831
2875	6	479	1871	1871	799
2750	5	550	2155	2155	906
2625	5	525	2055	2055	868
2500	5	500	1955	1955	831
2375	5	475	1855	1855	793
2250	4	562	2123	2203	924
2205	4	550	2075	2155	906
2125	4	531	1999	2079	877
2080	4	520	1955	2035	861
2000	4	500	1875	1955	831
1955	4	488	1827	1907	813
1875	4	468	1747	1827	782

Ordering height RM

3 up to 2500	5 up to 3500	7 up to 4000	No. of ventilation grilles with 40 cm² each ventilation area
3		4	Number of infills in aluminium frame per door section
1 up to 2500	3 up to 3500	4 up to 4000	No. of type D, S, M panes per door section

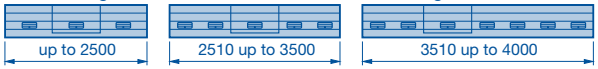
2500 2750 3000 3250 3500 3750 4000
from 2250 — Width (LDB) →

LDB = Clear passage width
RM = Ordering height
= except for garage doors with top aluminium frame

Note: From LZ ≥ 3510 mm the wicket door is positioned off-centre! Sectional door with wicket door only possible with track applications N or L!

Ventilation with S-/M-ribbed (not for Decograin® version)

Ventilation grille, ventilation area 40 cm² each arrangement



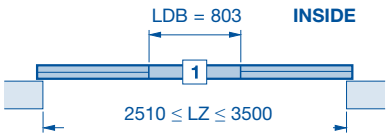
Aluminium frame with expanded wire-mesh Ventilation area 58%

Glazing options
Aluminium frame (standard profile NF)
Glazing type D, 16 mm
Glazing type S, M, L 22 mm

Sectional Door LPU 40 with Wicket Door

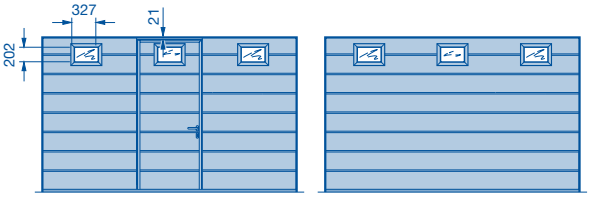
Double-Skinned Steel Sections
S-Ribbed, M-Ribbed, L-Ribbed
Woodgrain or Decograin® (only for M-Ribbed)
External view matches doors with glazing

External views



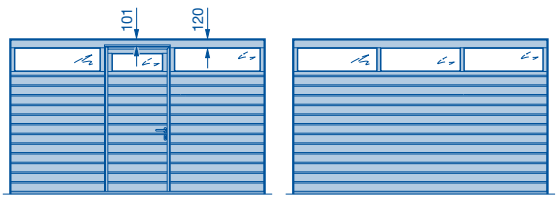
Glazing type D

Glazing type S

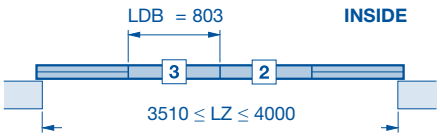


Glazing type M

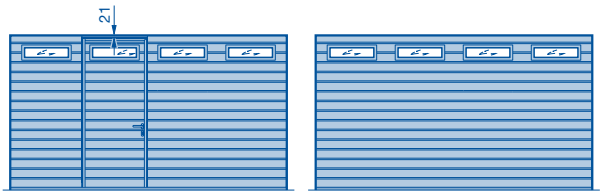
Aluminium frame



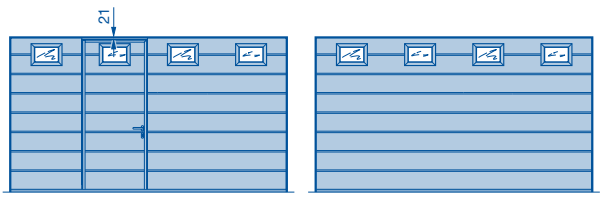
External views



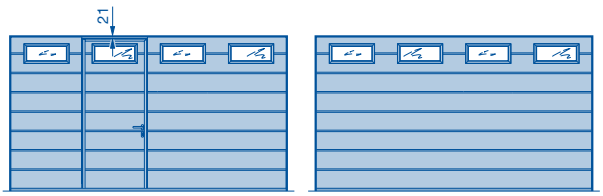
Glazing type D



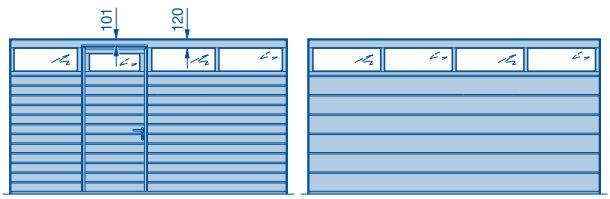
Glazing type S



Glazing type M



Aluminium frame



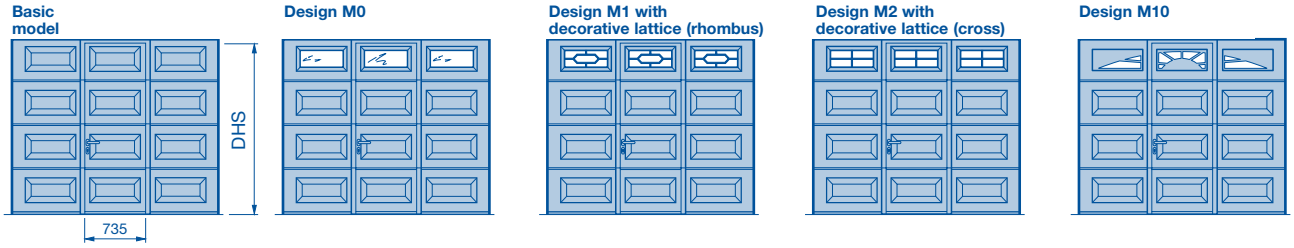
The proportions of the doors illustrated correspond to a door height of 2125 mm and arrangement 3.

Sectional Door LPU 40 with Wicket Door

Double-Skinned Steel Sections
M-Panelled
Woodgrain

Door leaf:
- Double-skinned, PU foam insulated door sections, outside Woodgrain embossed, inside stucco embossed.
- Equal-height door sections, panelled, in hot galvanized sheet steel
- Surface with polyester primer coating.
- Glazing not possible in the two bottom door sections.
- Without door handle set, without internal locking; without single-skinned steel panel, top door section with lintel seal.
- We recommend the fitting of a SupraMatic P Garage Door Operator.

External views



The proportions of the doors illustrated correspond to a door size of 2500 2125 mm. Other door sizes will show variations. The floor in front of the garage must be level or slope down away from the door to ensure that the wicket door can be opened unhindered (opening outwards) on account of the low threshold - see p. 33.

Wicket doors: The wicket doors are always in 4 parts. The clear passage width of the wicket door is 735 mm, the threshold height starts at 5 mm and rises to 10 mm.

Size range: Garage door width in 10 mm increments. Garage door height only in one of the ordering heights. Intermediate heights are not possible. For ceiling height and clear passage see track applications (p. 32).

In the range:
2980 ≤ LZ ≤ 3150 / 3700 ≤ LZ ≤ 3900
a wicket door is not possible!

Ordering height RM	No. of door sections	Door section height	Passage height of wicket door DHS	Handle height
3000	6	500	1955	831
2875	6	479	1871	799
2750	5	550	2155	906
2625	5	525	2055	868
2500	5	500	1955	831
2375	5	475	1855	793
2250	4	562	2203	924
2205	4	550	2155	906
2125	4	531	2079	877
2080	4	520	2035	861
2000	4	500	1955	831
1955	4	488	1907	813

3 up to 2970	4 up to 3690	5	Number of panels or panel windows per door section

2500 2750 3000 3250 3500 3750 4000
from 2375 — Width (LDB)

LDB = Clear passage width
RM = Ordering height

Note:
With 4 panels the wicket door is positioned off-centre!
Sectional door with wicket door only possible with track applications N or L!

Glazing options - panel windows **Double panes, clear or crystal structure, 16 mm**
Design M0
Design M1
Design M2
Design M10, M20, M30

Sectional Door LTH 40

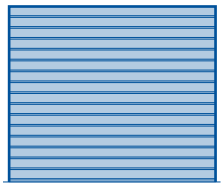
S-Boarded, V-Panelled

Nordic Pine/Hemlock

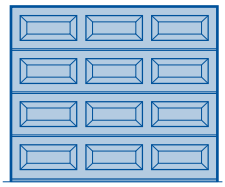
Door leaf:
- Solid timber sections, S-boarded or V-panelled
- Equal-height door sections
- Surface treated with pine impregnation to protect against insect and fungal attack
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

External views

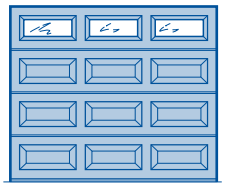
(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model S-boarded

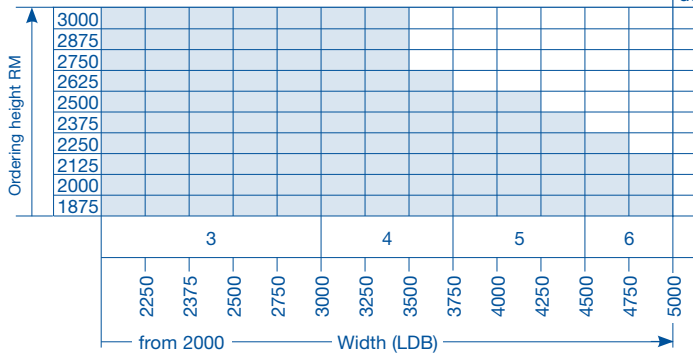


Basic model V-panelled



with glazing V0

Size range: Garage door width in 10 mm increments. Intermediate heights are possible.



	S-Boarded			V-Panelled
	No. of door sections	Door section height	Rib spacing	No. of door sections
3000	6	500	125	6
2875	6	479	120	6
2750	5	550	138	6
2625	5	525	131	5
2500	5	500	125	5
2375	5	475	119	5
2250	4	562	141	5
2125	4	531	133	4
2000	4	500	125	4
1875	4	468	117	4

LDB = Clear passage width
RM = Ordering height

Note: LTH 40 sectional door only with torsion spring technology

Ventilation
Ventilation slots in bottom seal (standard), Ventilation area 65 cm² per m door width

Glazing options for panelled version only.
Panel windows, clear or crystal structure 3 mm

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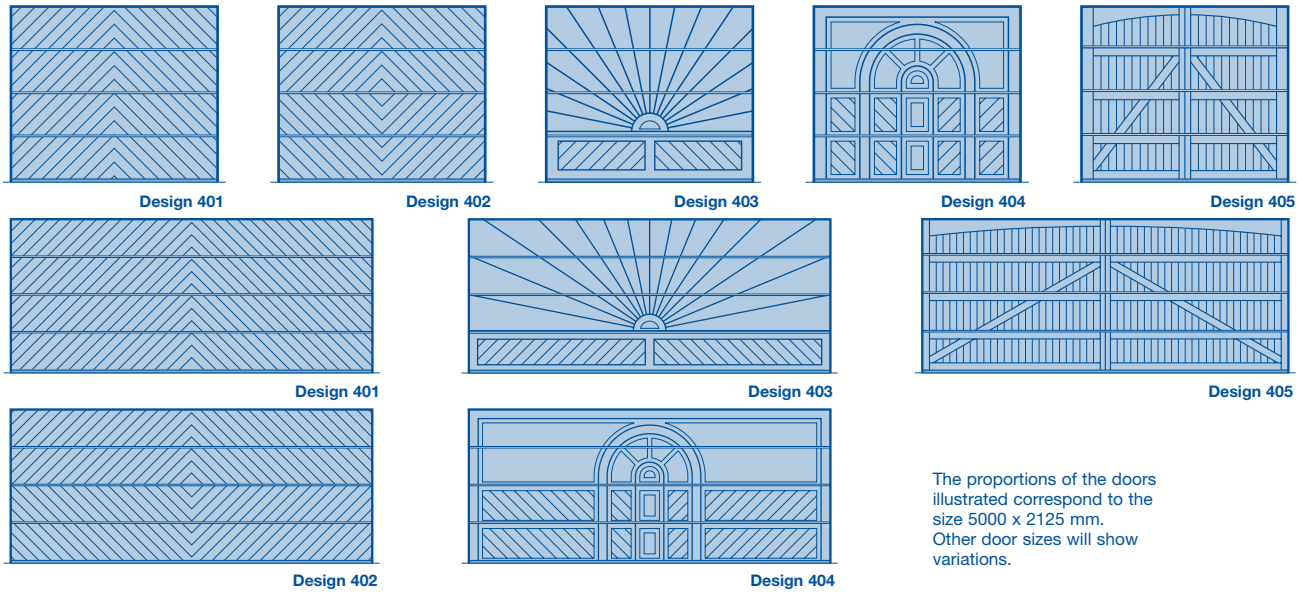
Sectional Door LTH 40 with Special Designs

Nordic Pine/Hemlock

Door leaf:
- Solid timber sections in a choice of special designs
- Equal-height door sections
- Surface treated with pine impregnation to protect against insect and fungal attack
- Design 403 and 404 on request with natural stone infill
- For further details refer to the current product brochure.

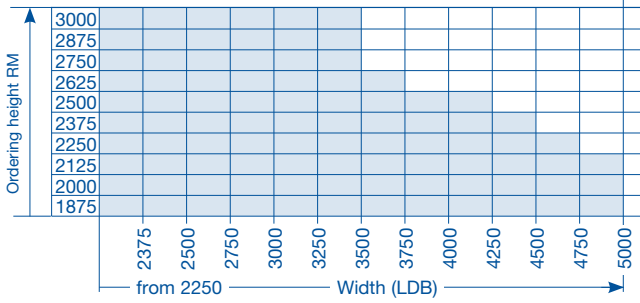
External views

(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



The proportions of the doors illustrated correspond to the size 5000 x 2125 mm. Other door sizes will show variations.

Garage door width in 10 mm increments. Intermediate heights are possible. Further designs at customer's request.



No. of door sections	Door section height
6	500
6	479
5	550
5	525
5	500
5	475
4	562
4	531
4	500
4	468

LDB = Clear passage width
RM = Ordering height

Note: LTH 40 sectional door only with torsion spring technology

Ventilation

Ventilation slots in bottom seal (standard),
Ventilation area 65 cm² per m door width

Sectional Door LPU 40

Double-Skinned Steel Sections, Fitting in Front of the Opening

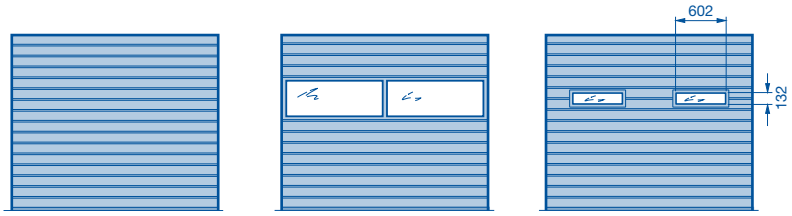
S-Ribbed

Woodgrain

Door leaf:
- Double-skinned, PU foam insulated door sections, outside Woodgrain embossed, inside stucco embossed.
- Equal-height door sections, horizontally ribbed, in hot galvanized sheet steel.
- Surface with polyester primer coating.
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

External views

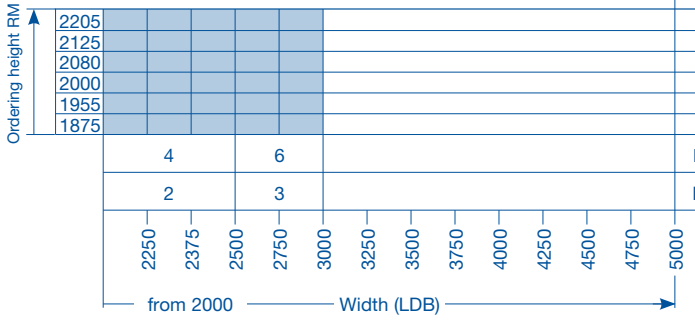
(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model | with aluminium frame | with glazing type D

Size range:

Door width in 10 mm increments, door height in ordering height. Intermediate heights are possible.



No. of door sections	Door section height	Rib spacing
4	550	138
4	531	133
4	520	130
4	500	125
4	488	122
4	468	117

Number of ventilation grilles with 40 cm² ventilation area each

Number of window panes across per section

LDB = Clear passage width
RM = Ordering height
= doors up to 3000 x 2500 mm with tension spring technology

Optional extras:

Ventilation	Glazing options
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width	Aluminium frame (standard profile NF)
Ventilation grille, ventilation area 40 cm² each	Glazing type D, 16 mm
Aluminium frame with expanded wire-mesh Ventilation area 58%	Glazing type S, M, L 22 mm (see p. 19)

Sectional Door LPU 40

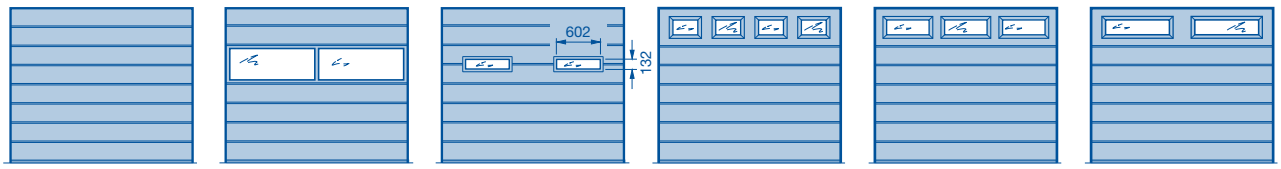
Double-Skinned Steel Sections, Fitting in Front of the Opening

M-Ribbed

Woodgrain

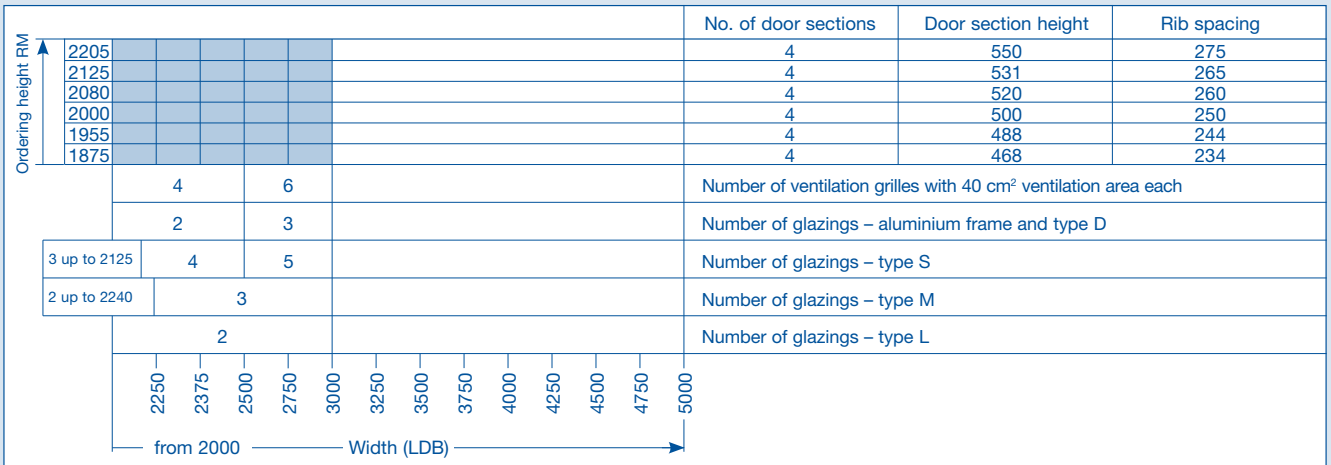
Door leaf:
- Double-skinned, PU foam insulated door sections, outside Woodgrain embossed, inside stucco embossed.
- Equal-height door sections, horizontally ribbed, in hot galvanized sheet steel.
- Surface with polyester primer coating.
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

External views (The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model | with aluminium frame | with glazing type D | with glazing S0, S1, S2, Sunrise | with glazing M0, M1, M2, Sunrise | with glazing L0, L1, L2, Sunrise

Size range:
Door width in 10 mm increments, door height in ordering height. Intermediate heights are possible.



	No. of door sections	Door section height	Rib spacing
2205	4	550	275
2125	4	531	265
2080	4	520	260
2000	4	500	250
1955	4	488	244
1875	4	468	234
4 / 6	Number of ventilation grilles with 40 cm² ventilation area each		
2 / 3	Number of glazings – aluminium frame and type D		
3 up to 2125: 4 / 5	Number of glazings – type S		
2 up to 2240: 3	Number of glazings – type M		
2	Number of glazings – type L		

Optional extras:

Ventilation	Glazing options
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width	Aluminium frame (standard profile NF)
Ventilation grille, ventilation area 40 cm² each	Glazing type D, 16 mm
Aluminium frame with expanded wire-mesh Ventilation area 58%	Glazing type S, M, L 22 mm (see p. 19)

Sectional Door LPU 40

Double-Skinned Steel Sections, Fitting in Front of the Opening

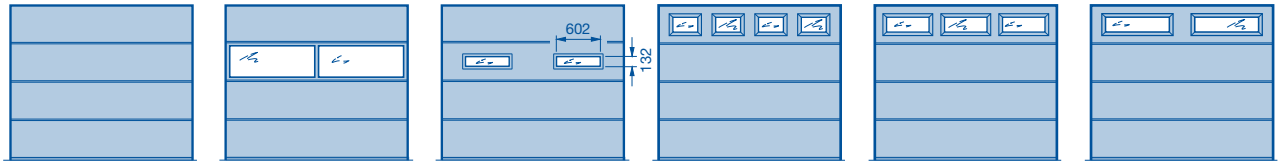
L-Ribbed

Woodgrain

Door leaf:
- Double-skinned, PU foam insulated door sections, outside Woodgrain embossed, inside stucco embossed.
- Equal-height door sections, horizontally ribbed, in hot galvanized sheet steel.
- Surface with polyester primer coating.
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

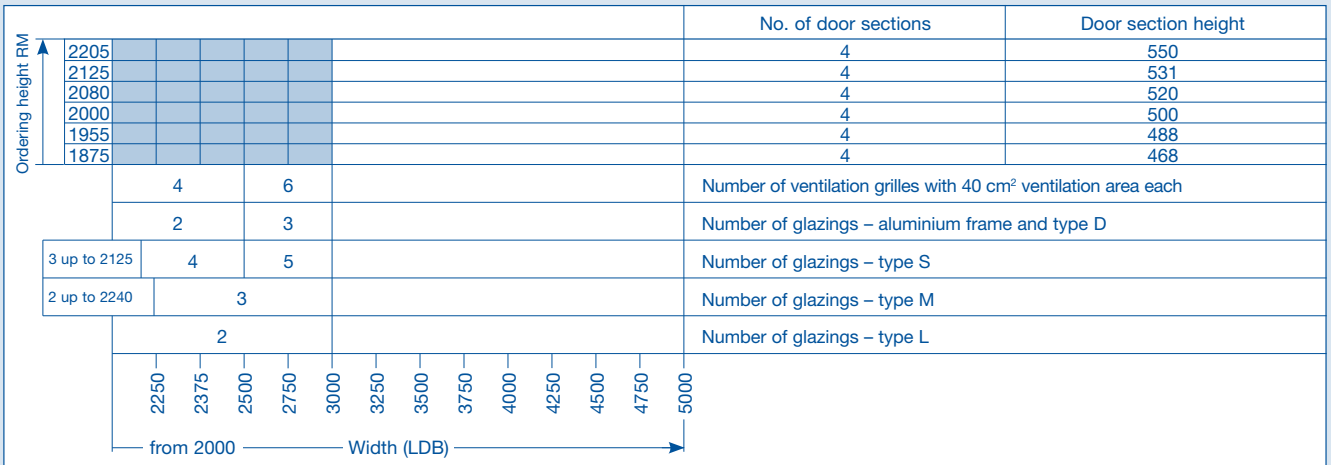
External views

(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model | with aluminium frame | with glazing type D | with glazing S0, S1, S2, Sunrise | with glazing M0, M1, M2, Sunrise | with glazing L0, L1, L2, Sunrise

Size range:
Door width in 10 mm increments, door height in ordering height. Intermediate heights are possible.



No. of door sections	Door section height
4	550
4	531
4	520
4	500
4	488
4	468

Number of ventilation grilles with 40 cm² ventilation area each

Number of glazings – aluminium frame and type D

Number of glazings – type S

Number of glazings – type M

Number of glazings – type L

Optional extras:

Ventilation
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width
Ventilation grille, ventilation area 40 cm² each
Aluminium frame with expanded wire-mesh Ventilation area 58%

Glazing options
Aluminium frame (standard profile NF)
Glazing type D, 16 mm
Glazing type S, M, L 22 mm (see p. 19)

Sectional Door LPU 40

Double-Skinned Steel Sections, Fitting in Front of the Opening

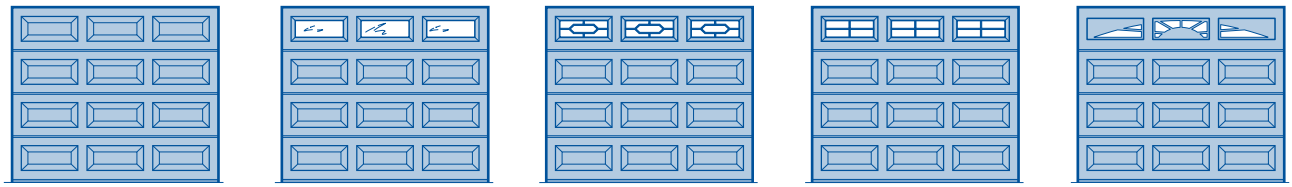
M-Panelled

Woodgrain

Door leaf:
- Double-skinned, PU foam insulated door sections, outside Woodgrain embossed, inside stucco embossed.
- Equal-height door sections, panelled, in hot galvanized sheet steel
- Surface with polyester primer coating.
- Glazing not possible in the two bottom door sections.
- For further details refer to the current product brochure.

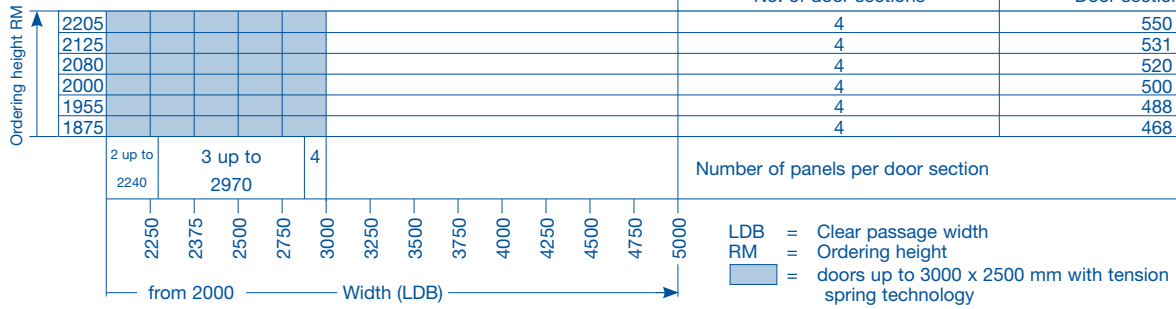
External views

(The proportions of the doors illustrated correspond to the size 2500 x 2125 mm. Other door sizes will show variations.)



Basic model | Design M0 | Design M1 with decorative lattice (rhombus) | Design M2 with decorative lattice (cross) | Design M10

Size range:
Door width in 10 mm increments, door height in ordering height. Intermediate heights are possible.



Number of door sections	Door section height
4	550
4	531
4	520
4	500
4	488
4	468

Number of panels per door section

Optional extras:

Ventilation
Ventilation slots in bottom seal, ventilation area 65 cm² per m door width
Ventilation grille, ventilation area 40 cm² each

Glazing options
Aluminium frame (standard profile NF)
Glazing type D, 16 mm
Glazing type S, M, L 22 mm (see p. 19)

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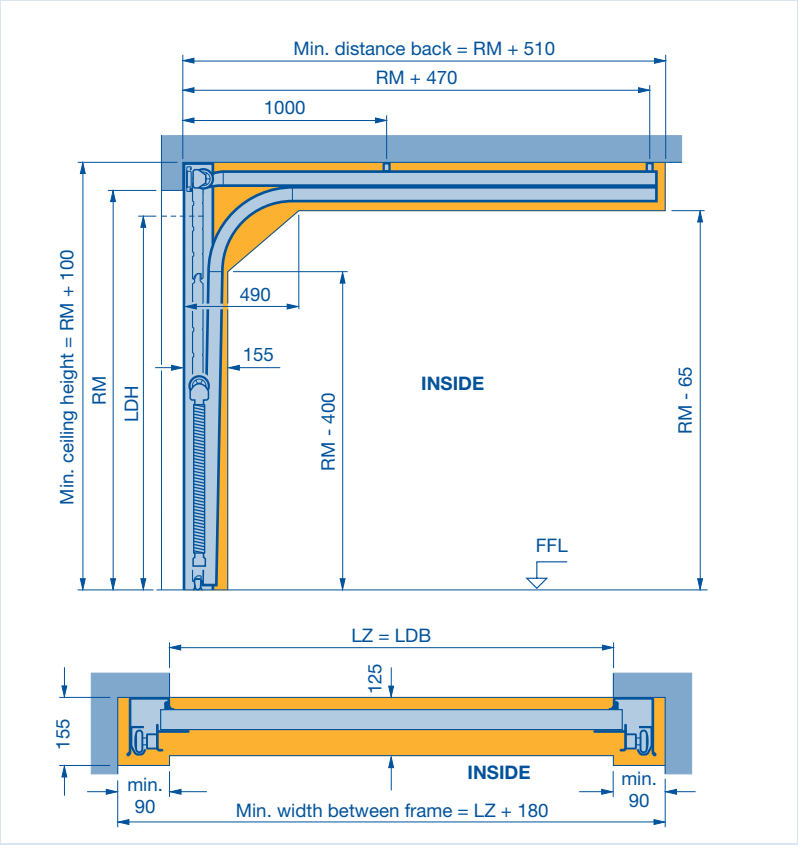
Track Applications: Z, N



Z: Tension spring tracks

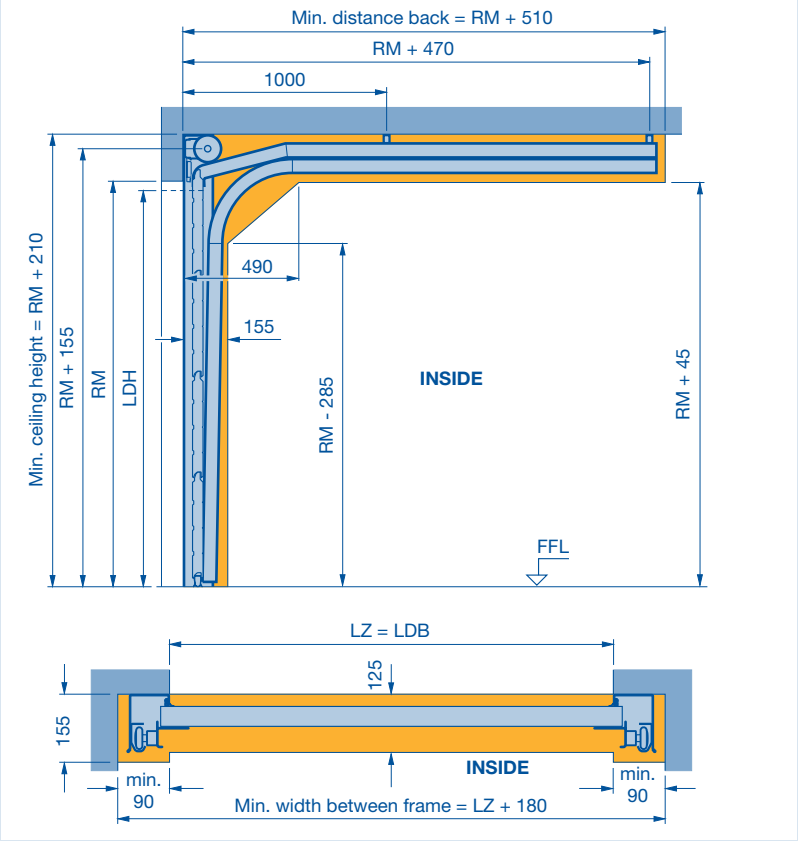
RM Height	Manual operation		Electric operation	
	min. ceiling height	LDH	min. ceiling height	LDH
	RM +100	RM -80	RM +115	RM -30
1875	1975	1795	1990	1845
1955	2055	1875	2070	1925
2000	2100	1920	2115	1970
2080	2180	2000	2195	2050
2125	2225	2045	2240	2095
2205	2305	2125	2320	2175
2250	2350	2170	2365	2220
2375	2475	2295	2490	2345
2500	2600	2420	2615	2470
2625	2725	2545	2740	2595

- LDB = Clear passage width
- LDH = Clear passage height
- RM = Ordering height
- LZ = Width between frame

Required ceiling height
for manual operation = min. RM +100
with ProMatic = min. RM +115

Clear passage height
for manual operation = RM -80
with ProMatic = RM -30

The clearance required for fitting the door must be free of obstructions, e.g. supply lines, heater fans etc.



N: Standard tracks

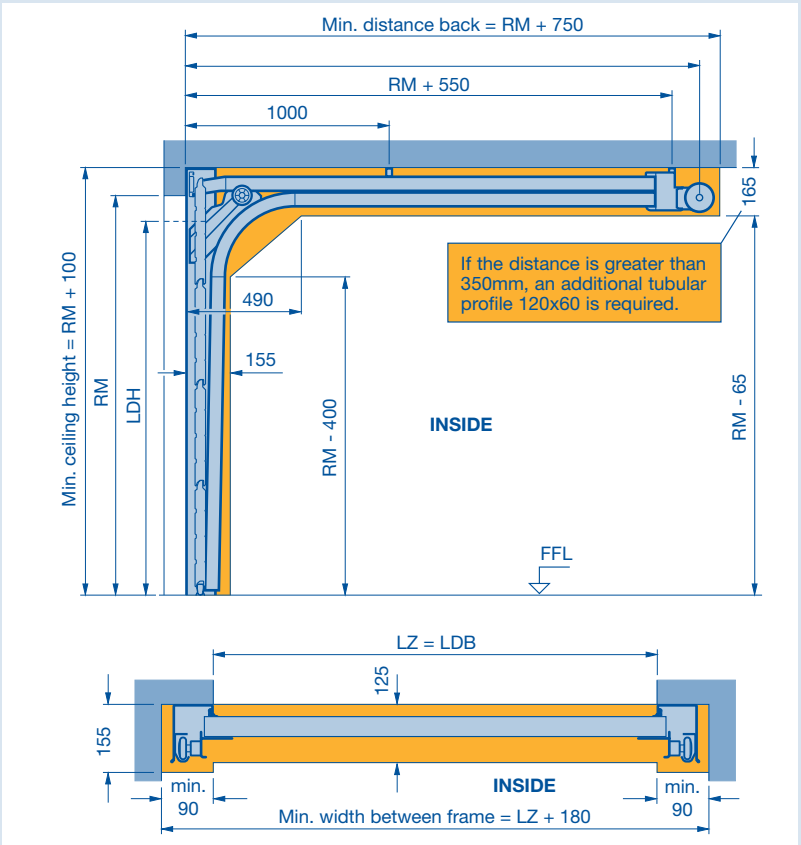
RM Height	Manual operation		Electric operation	
	min. ceiling height	LDH	min. ceiling height	LDH
	RM +210	RM -50	RM +210	RM
1875	2085	1825	2085	1875
1955	2165	1905	2165	1955
2000	2210	1950	2210	2000
2080	2290	2030	2290	2080
2125	2335	2075	2335	2125
2205	2415	2155	2415	2205
2250	2460	2200	2460	2250
2375	2585	2325	2585	2375
2500	2710	2450	2710	2500
2625	2835	2575	2835	2625
2750	2960	2700	2960	2750
2875	3085	2825	3085	2875
3000	3210	2950	3210	3000

- LDB = Clear passage width
- LDH = Clear passage height
- RM = Ordering height
- LZ = Width between frame

Required ceiling height
for manual operation = min. RM +210
with SupraMatic E, P and H = min. RM +210

Clear passage height
for manual operation = RM -50
with SupraMatic E, P and H = RM

Track Applications: L, H



L: Low-headroom tracks

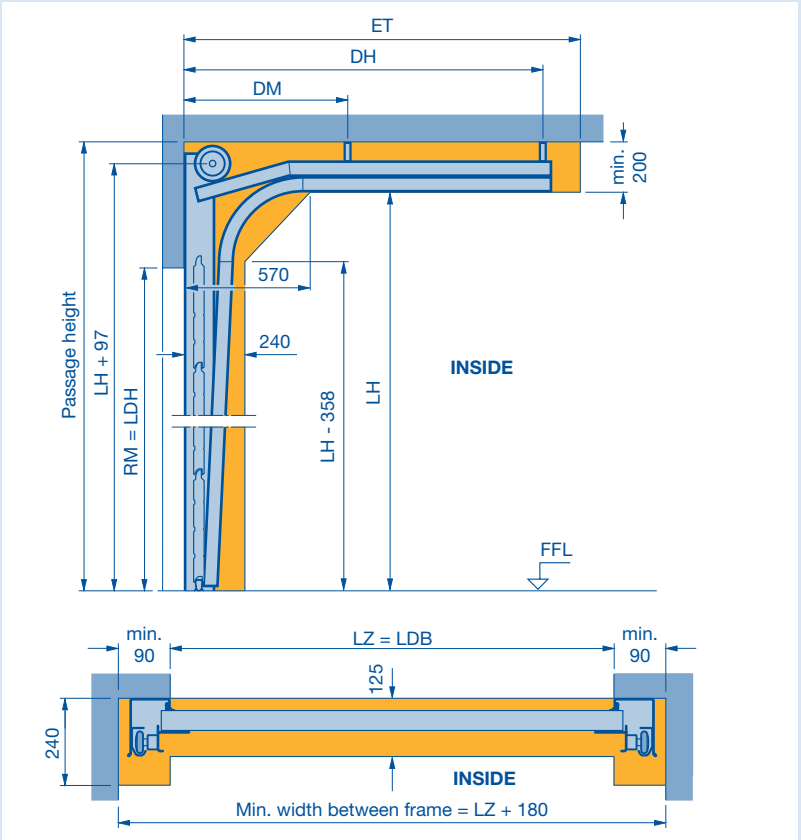
RM Height	Manual operation		Electric operation		
	min. ceiling height	LDH	min. ceiling height	LDH up to LZ = 3000 mm	LDH from LZ = 3010 mm
	RM +100	RM -100	RM +115	RM -30	RM -80
1875	1975	1775	1990	1845	1795
1955	2055	1855	2070	1925	1875
2000	2100	1900	2115	1970	1920
2080	2180	1980	2195	2050	2000
2125	2225	2025	2240	2095	2045
2205	2305	2105	2320	2175	2125
2250	2350	2150	2365	2220	2170
2375	2475	2275	2490	2345	2295
2500	2600	2400	2615	2470	2420
2625	2725	2525	2740	2595	2545
2750	2850	2650	2865	2720	2670
2875	2975	2775	2990	2845	2795
3000	3100	2900	3115	2970	2920

- LDB = Clear passage width
- LDH = Clear passage height
- RM = Ordering height
- LZ = Width between frame

Required ceiling height
for manual operation = min. RM +100
with SupraMatic E, P and H = min. RM +115

Clear passage height
for manual operation = RM -100
with SupraMatic E, P and H = RM - 30 up to LZ = 3000 mm
= RM - 80 from LZ = 3010 mm

The clearance required for fitting the door must be free of obstructions, e.g. supply lines heater fans etc.



H: High-lift tracks

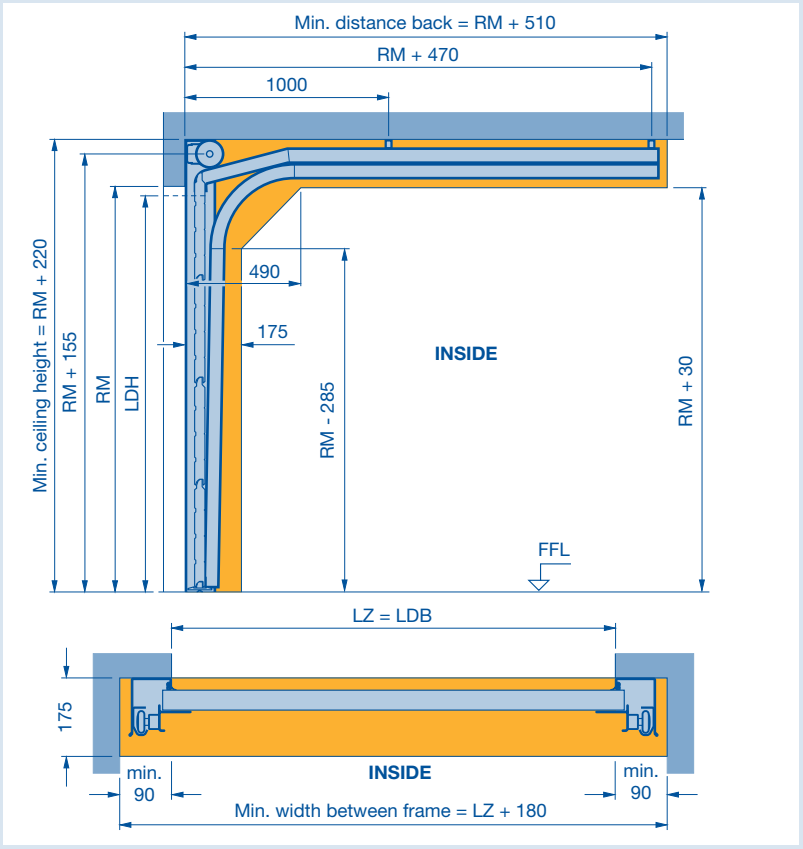
(not for LTE 40, EPU 40, LPU 40 with S, L and C-panel, or for versions with wicket door)

Door height RM Height	Track height			
	(1) with spring buffer		(2) with buffer stop	
	min.	max.	min.	max.
1875	2260	2634	2635	3190
1955	2340	2714	2715	3270
2000	2385	2759	2760	3315
2080	2465	2839	2840	3395
2125	2510	2884	2885	3440
2205	2590	2964	2965	3520
2250	2635	3009	3010	3565
2375	2760	3134	3135	3690
2500	2885	3259	3260	3815
2625	3010	3384	3385	3940
2750	3135	3509	3510	4065
2875	3315	3634	3635	4190
3000	3565	3759	3760	4315

- LDB = Clear passage width
- LDH = Clear passage height
- RM = Ordering height
- LZ = Width between frame
- LF = Structural opening
- LH = Track height
- ET = Distance back
  (1) = 2 x RM + 690 – LH
  (2) = 2 x RM + 490 – LH > = 1500
- DH = Rear track support = ET – 200
- DM = Centre track support = $\frac{DH}{2}$

Track Applications: N, L

(LPU 40) Wicket Door



N: Standard tracks

RM Height	Manual operation		Electric operation	
	min. ceiling height	LDH	min. ceiling height	LDH
	RM +220	RM -160	RM +235	RM -100
1875	2095	1715	2110	1775
1955	2175	1795	2190	1855
2000	2220	1840	2235	1900
2080	2300	1920	2315	1980
2125	2345	1965	2360	2025
2205	2425	2045	2440	2105
2250	2470	2090	2485	2150
2375	2595	2215	2610	2275
2500	2720	2340	2735	2400
2625	2845	2465	2860	2525
2750	2970	2590	2985	2650
2875	3095	2715	3110	2775
3000	3220	2840	3235	2900

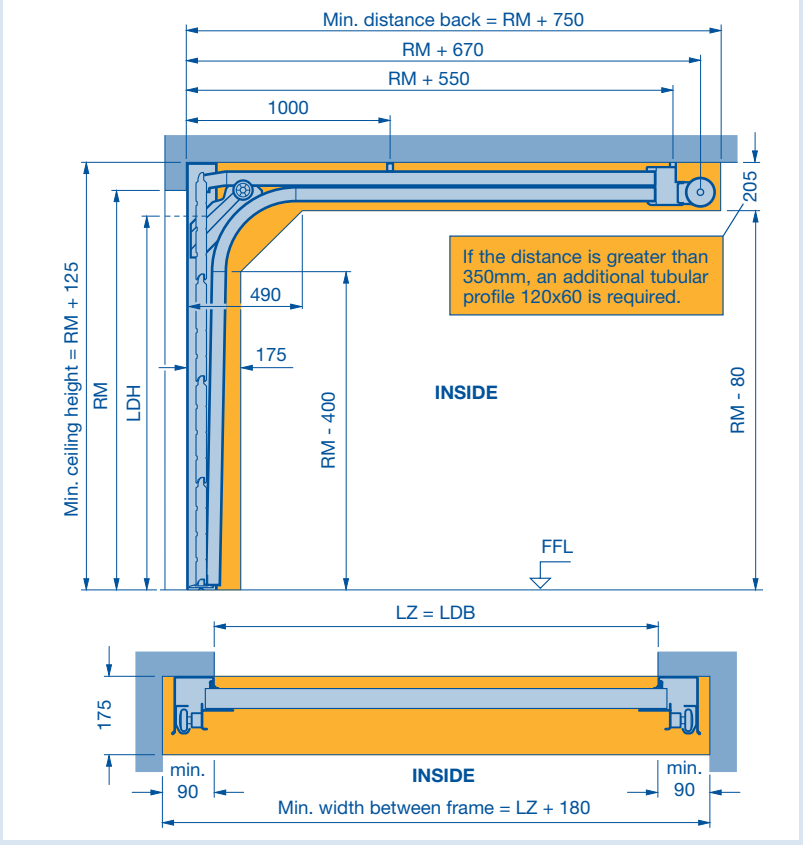
- LDB = Clear passage width
- LDH = Clear passage height
- RM = Ordering height
- LZ = Width between frame

Required ceiling height
for manual operation = min. RM +220
with SupraMatic P and H = min. RM +235

Clear passage height
for manual operation = RM -160
with SupraMatic P and H = RM -100

The clearance required for fitting the door must be free of obstructions, e.g. supply lines, heater fans etc.

The floor in front of the garage must be level or slope downwards away from the door in order to ensure that the wicket door can be opened unhindered (opening outwards) on account of the low threshold - see p. 32.



For doors up to RM 2250 in M-panel versions or in S, M, or L-ribbed versions and top glazing type D, S, M, FFL to the top edge of the lintel must be equal to or greater than the ordering size (RM). Deviating dimensions on request!

L: Low-headroom tracks

RM Height	Manual operation		Electric operation	
	min. ceiling height	LDH	min. ceiling height	LDH
	RM +125	RM -160	RM +125	RM -160
1875*	2000	1715	2000	1715
1955	2080	1795	2080	1795
2000	2125	1840	2125	1840
2080	2205	1920	2205	1920
2125	2250	1965	2250	1965
2205	2330	2045	2330	2045
2250	2375	2090	2375	2090
2375	2500	2215	2500	2215
2500	2625	2340	2625	2340
2625	2750	2465	2750	2465
2750	2875	2590	2875	2590
2875	3000	2715	3000	2715
3000	3125	2840	3125	2840

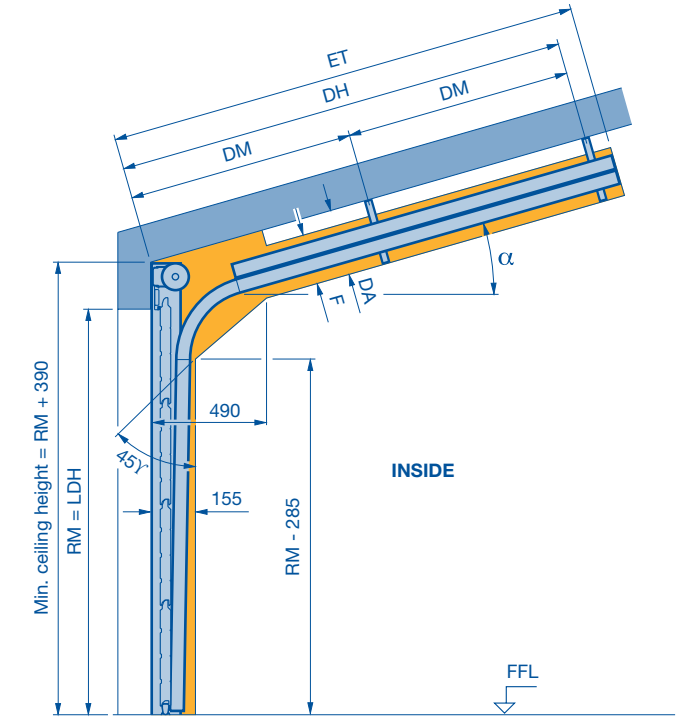
- LDB = Clear passage width
- LDH = Clear passage height
- RM = Ordering height
- LZ = Width between frame

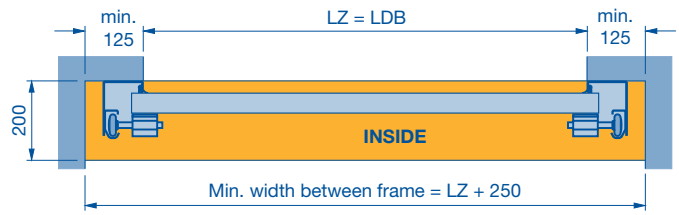
* These versions only apply to S-/M-/L-ribbed doors

Required ceiling height
for manual operation = min. RM +125
with SupraMatic P and H = min. RM +125

Clear passage height
for manual operation = RM -160
with SupraMatic P and H = RM -160

Track Application: ND





Note:
Use of SupraMatic and ProMatic operators not possible!

Normal tracks with inclination up to max. 30°

(not for LTE 40, EPU 40 and LPU 40 with S, L and C-panel)

RM Height	Manual operation			Electric operation min. ceiling height
	min. ceiling height	LDH without Wicket Door	LDH with Wicket Door	
	RM +390	RM	RM -85	
1875	2265	1875	1790	see the Technical Manual Sectional Doors for Industry and Commerce Series 40
1955	2345	1955	1870	
2000	2390	2000	1915	
2080	2470	2080	1995	
2125	2515	2125	2040	
2205	2595	2205	2120	
2250	2640	2250	2165	
2375	2765	2375	2290	
2500	2890	2500	2415	
2625	3015	2625	2540	
2750	3140	2750	2665	
2875	3265	2875	2790	
3000	3390	3000	2915	

	F	DA
ND	210	430

- ET = Min. distance back = RM + 450 – α x 6.5
- DH = Rear track support = RM + 195 – α x 6.5
- DM = Centre track support
- DA = Ceiling distance

Only to establish the pitch of the roof in degrees (α)

α	%	X (mm)	α	%	X (mm)
1	1,75	17,5	16	28,67	286,7
2	3,49	34,9	17	30,57	305,7
3	5,24	52,4	18	32,49	324,9
4	6,99	69,9	19	34,43	343,3
5	8,75	87,5	20	36,40	364,0
6	10,41	105,1	21	38,39	383,9
7	12,28	122,8	22	40,40	404,0
8	14,05	140,5	23	42,45	424,5
9	15,84	158,4	24	44,52	445,2
10	17,63	176,3	25	46,63	466,3
11	19,44	194,4	26	48,77	487,7
12	21,26	212,6	27	50,95	509,5
13	23,09	230,9	28	53,17	531,7
14	24,93	249,3	29	55,43	554,3
15	26,79	267,9	30	57,74	577,4

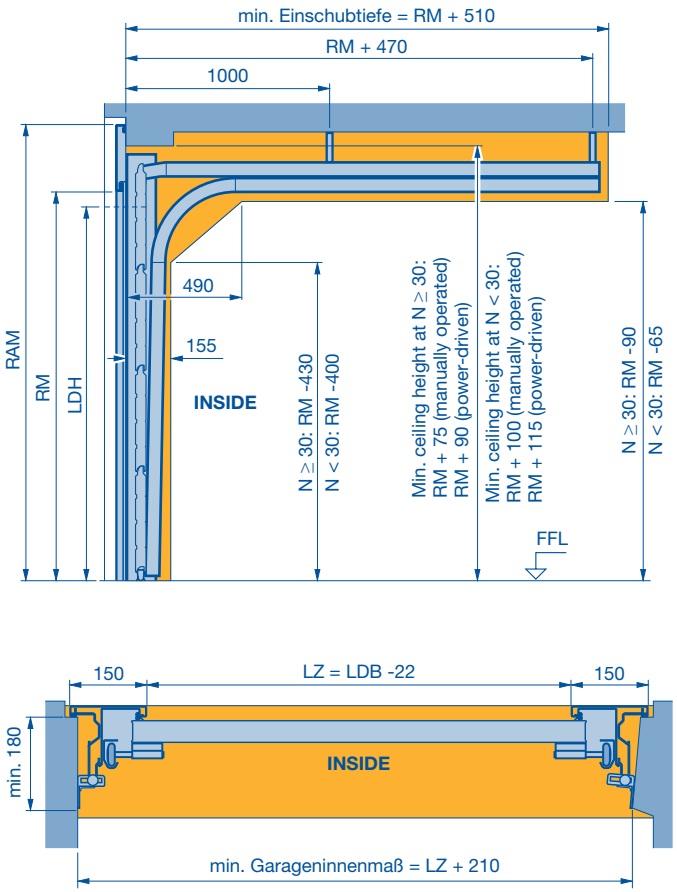
- LDB = Clear passage width
- LDH = Clear passage height
- RM = Ordering height
- LZ = Width between frame

The clearance required for fitting the door must be free of obstructions, e.g. supply lines, heater fans etc.

The floor in front of the garage must be level or slope down away from the door to ensure that the wicket door can be opened unhindered (opening outwards) on account of the low threshold - see p. 32.

Track Applications: Z

Fitting in Front of the Opening



Z: Tension spring tracks

RM Height	N >= 30			
	Manual operation		Electric operation	
	min. ceiling height	LDH	min. ceiling height	LDH
	RM +75	RM -110	RM +90	RM -60
1875	1950	1795	1965	1815
1955	2030	1845	2045	1895
2000	2075	1890	2090	1940
2080	2155	1970	2170	2020
2125	2200	2015	2215	2065
2205	2280	2095	2295	2145

RM Height	N < 30			
	Manual operation		Electric operation	
	min. ceiling height	LDH	min. ceiling height	LDH
	RM +100	RM -80	RM +115	RM -30
1875	1975	1795	1990	1845
1955	2055	1875	2070	1925
2000	2100	1920	2115	1970
2080	2180	2000	2195	2050
2125	2225	2045	2240	2095
2205	2305	2125	2320	2175

Clear passage height with operator: RM - 60 mm at N ≥ 30 mm
RM - 30 mm at N < 30 mm

Clear passage height without operator: RM - 110 mm at N ≥ 30 mm
RM - 80 mm at N < 30 mm

Distance back without operator: RM + 510 mm

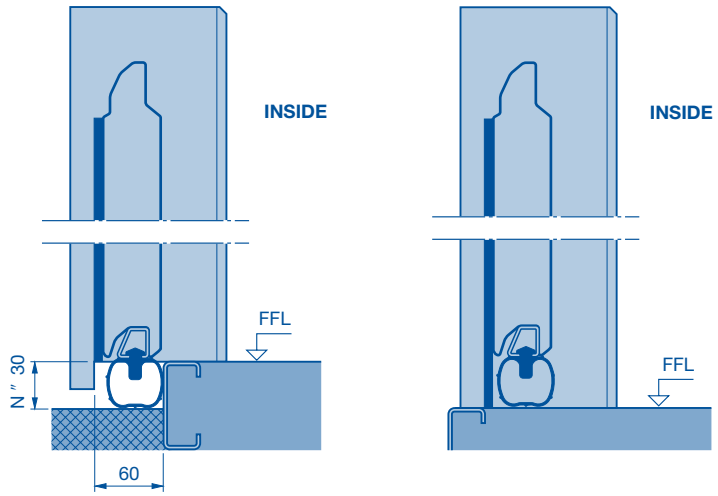
Distance back with ProMatic and SupraMatic
- Door height up to 2125 mm (track K) 3200 mm
- Door height up to 2375 mm (track M) 3450 mm

- RAM = overall frame dimension
- RAM-height = min. = RM + 115 mm
  max. = RM + 185 mm
- RM = ordering dimension height (ordering size)
- LZ = clear frame dimension
- LDB = clear passage width
- LDH = clear passage height
- N = height difference between interior and exterior garage floor

Examples for the fitting situation

at N ≥ 30 mm
LDH = RM - 110 mm

at N < 30 mm
LDH = RM - 80 mm

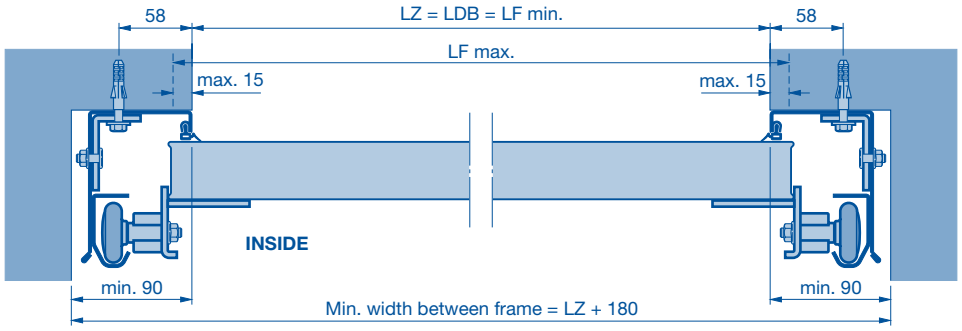


The clearance required for fitting the door must be free of obstructions, e.g. supply lines, heater fans etc.

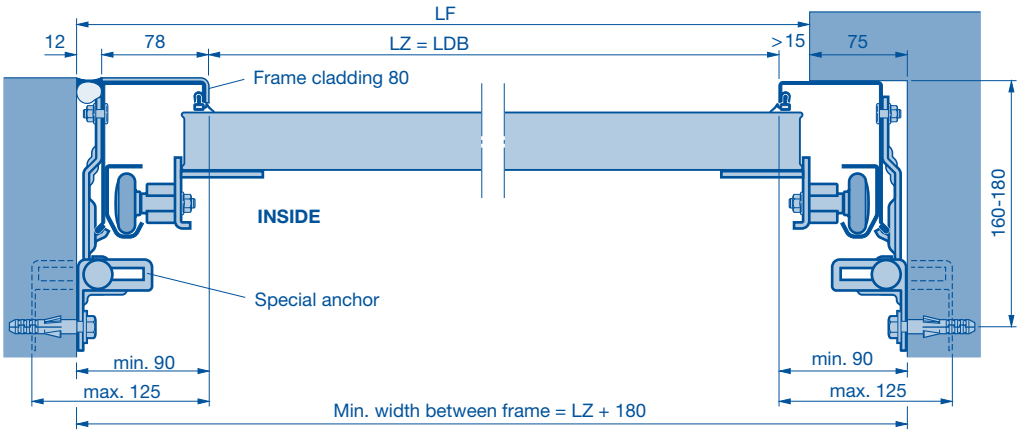
Sideroom Details

Track Applications Z, N, L, H

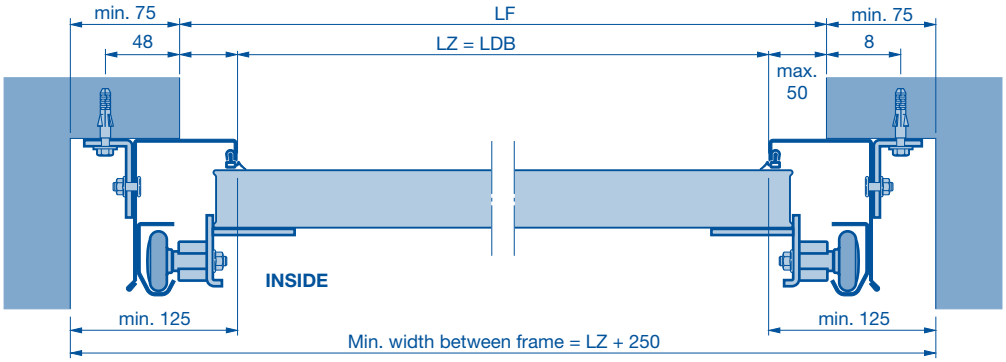
Normal track application, **sideroom 90 mm**, fixing within the frame



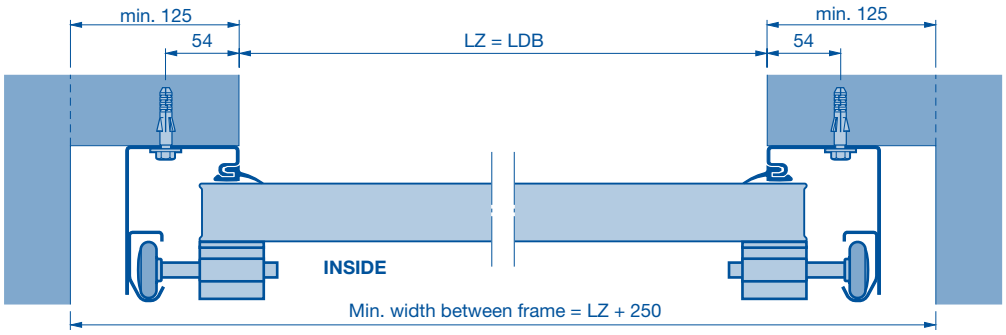
Sideroom less than 75 mm or without any sideroom. Fixing of the frame with special anchor



Min. sideroom 75 mm, fixing outside of the frame



Track Application ND



LDB = clear passage width, LZ = width between frame LF = structural opening

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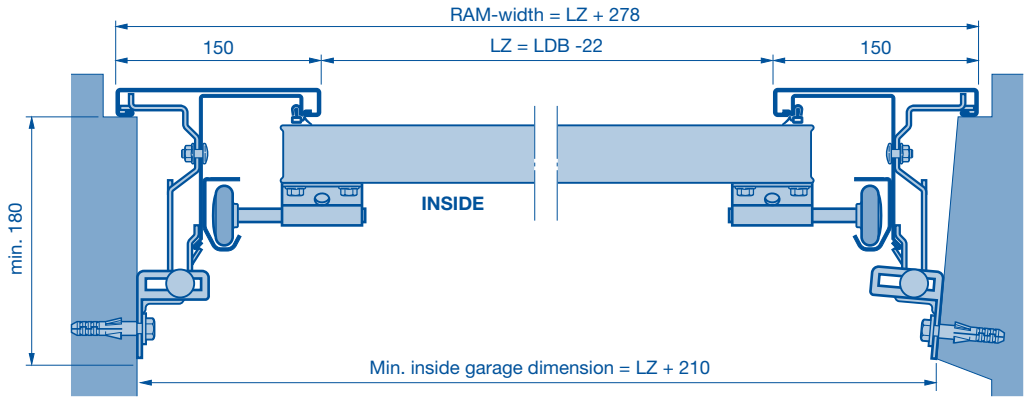
Sideroom

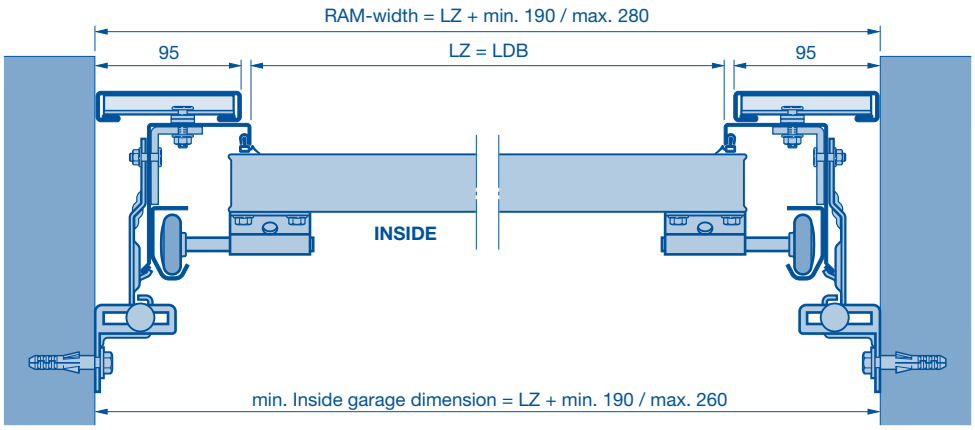
Fitting in Front of the Opening

Fitting in Front of the Opening



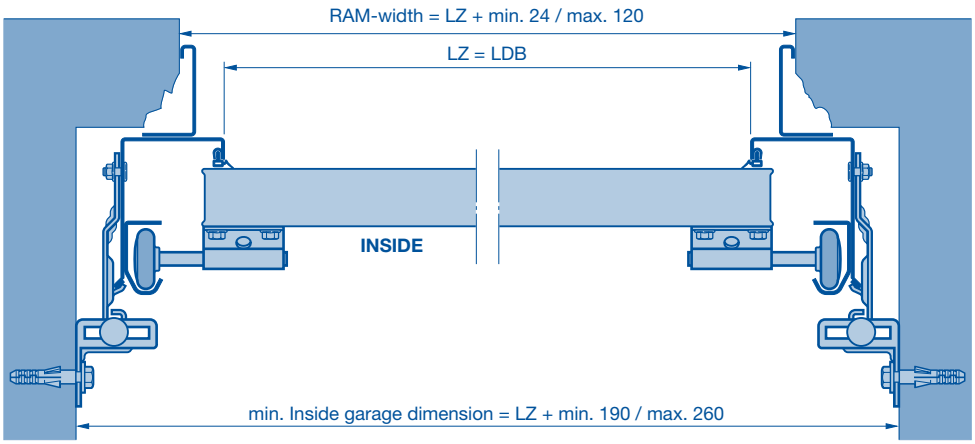
Fitting in the opening

Fascia frame -95-



Fitting behind the opening

Retrofit fascia



LDB = clear passage width, LZ = width between frame

Headroom Details with Fascia Panels

LTE 40, EPU 40, LPU 40

Figure A

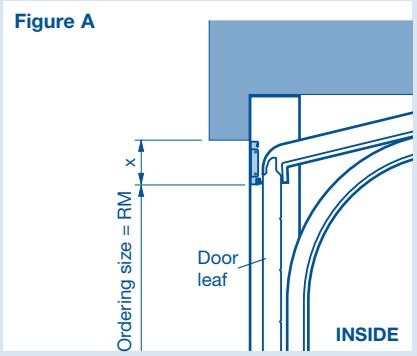


Figure B

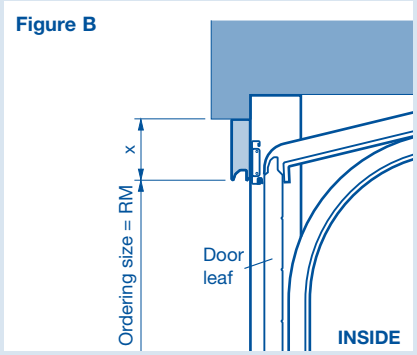
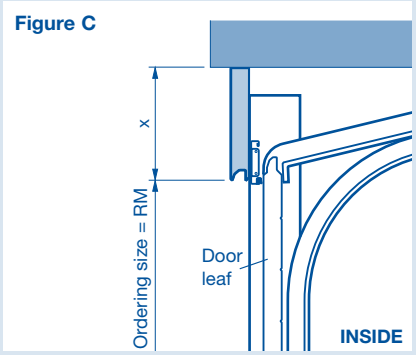


Figure C



Track application	Panel version	Dim. x		
		Figure A	Figure B	Figure C
Z, N and L	Steel panel (included in supply package)	up to 100 mm	-	-
	PU panel, S-/M-/L-ribbed	-	100 - 562 mm	100 - 562 mm
	PU panel, M-ribbed	-	250 - 562 mm	250 - 562 mm
	PU panel, M-panelled	-	-	468, 475, 479, 488, 500, 520, 525, 531, 550, 562

LTH 40 (A steel fascia is included in the scope of delivery for LTH 40 doors!)

Figure A

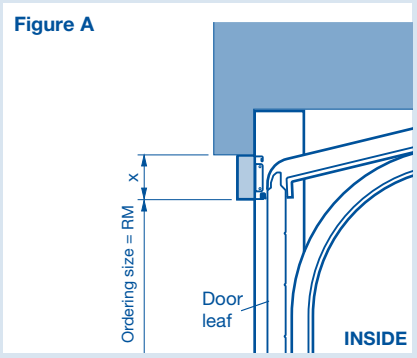


Figure B

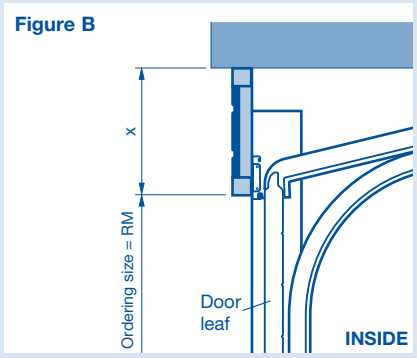
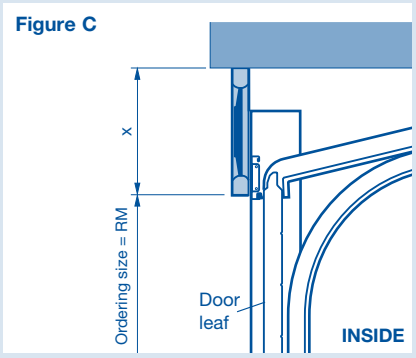
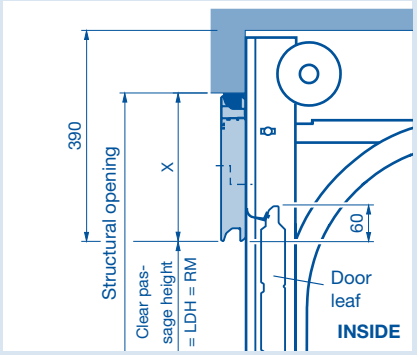


Figure C



Track application	Panel version	Dim. x		
		Figure A	Figure B	Figure C
N and L	Smooth timber panel	31 - 290 mm	-	-
	Timber panel, S-boarded	-	146 - 562 mm	-
	Timber panel, V-panelled	-	-	291 - 562 mm

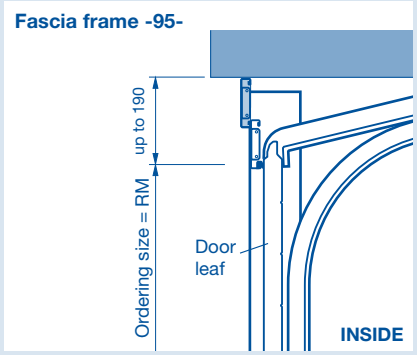
LTE 40, LPU 40



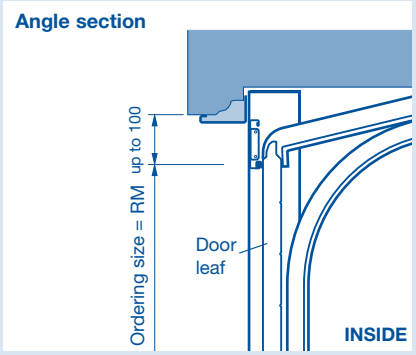
Track application ND	Dim. x
PU panel, S-/M-/L-ribbed	100 - 562 mm
PU panel, M-ribbed	250 - 562 mm
PU panel, M-panelled	468, 475, 479, 488, 500, 520, 525, 531, 550, 562

Retrofit fascias

Fascia frame -95-



Angle section



Caution:
With track application N the torque is increased, it is therefore important to adhere to the frame's plug-and-screw fixing points in the lintel area.

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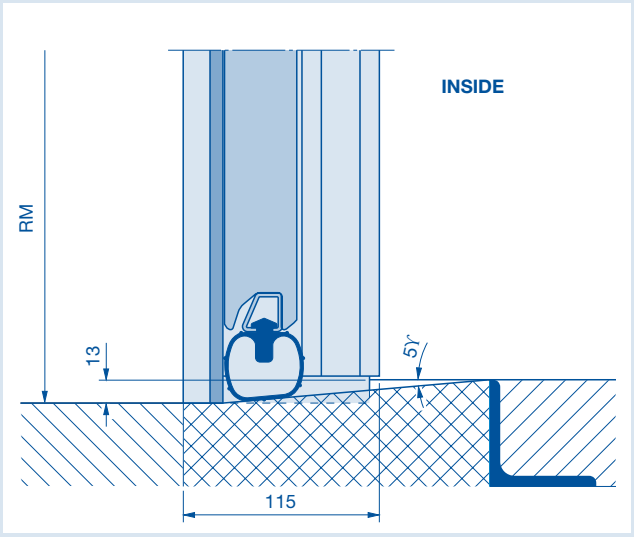
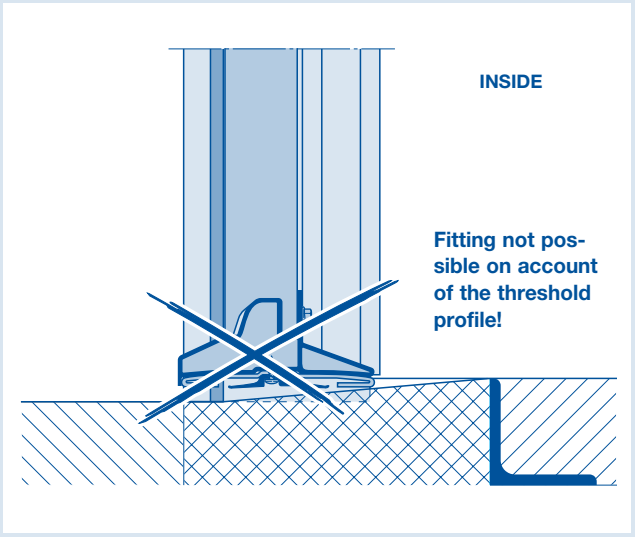
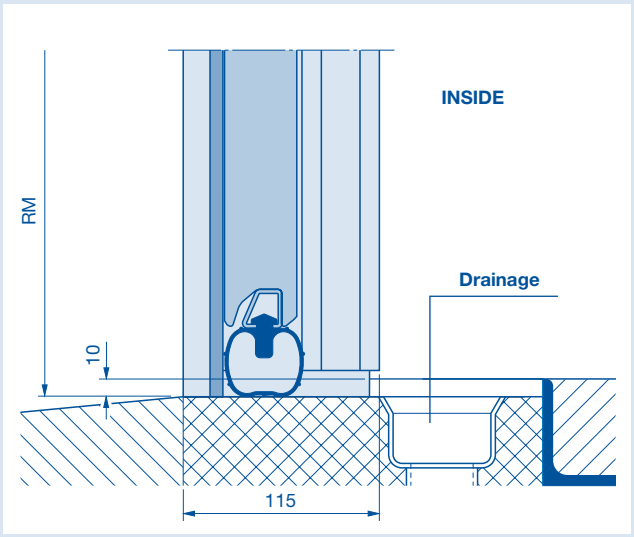
Floor Details

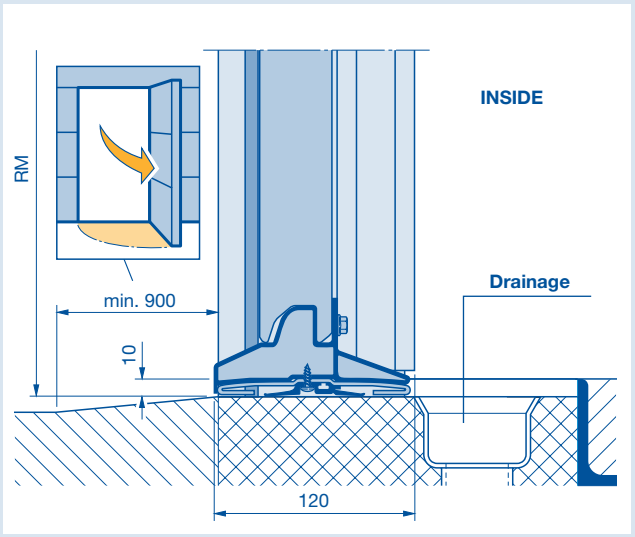
without wicket door

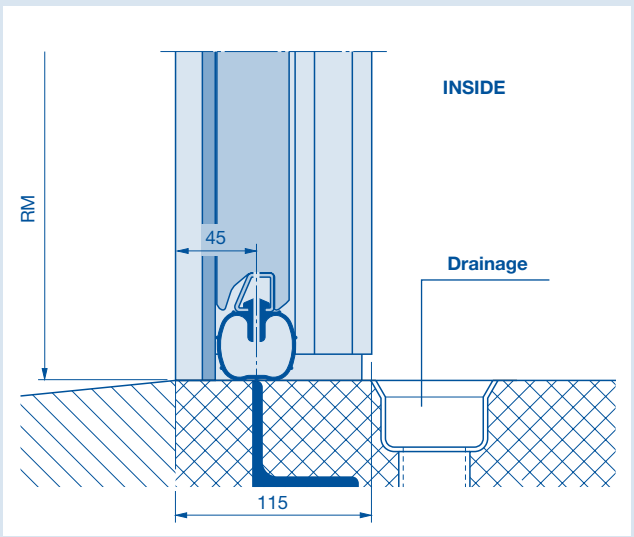


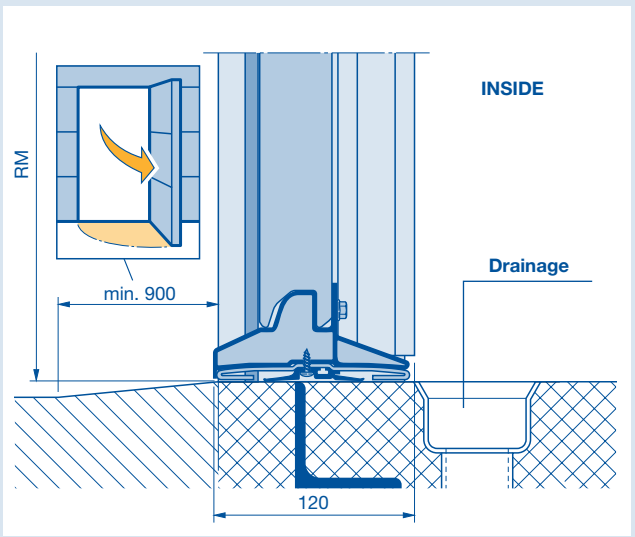
with wicket door









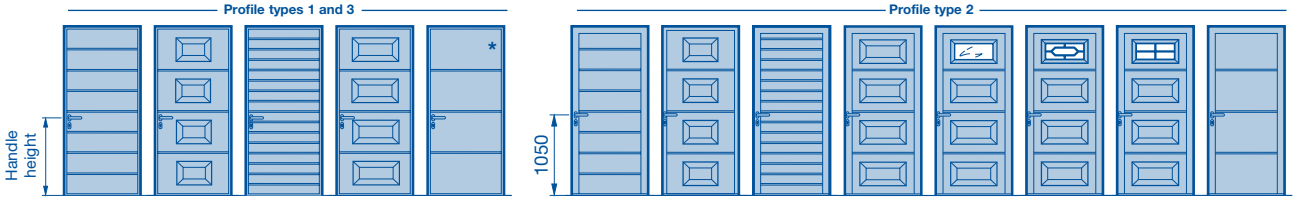


Side doors with Corner Frame Made of Aluminium Profiles

Standard sizes

Door leaf:
- Appearance as LTE 40 / EPU 40 /LPU 40, door leaf frame of aluminium extrusions, overall thickness 60 mm
- Door infill of PU foam insulated steel sections, outside Woodgrain embossed, Decograin® or Silkgrain®, inside stucco embossed.
- Surface with polyester primer coating (with Decograin® synthetic foil coating on the outside)
- Field alignment of sections, ribs or panels only possible with garage doors of the same height.
- For further details, refer to the current product brochures

External views



The proportions of the doors illustrated correspond to the finished size of the structural opening 1000 x 2125 mm. Other door sizes will show variations.
* Side door version with special design (see p. 20) only possible with profile type 1

Standard sizes

Profile type 1, only opening inwards, with S, M, L-ribbing or S-panelling
Fitting: internal fitting

Ordering size = ordering dimension	Handle height from FFL	Rib spacing
875 x 2000	955	125/250
875 x 2125	1010	133/265
1000 x 2000	955	125/250
1000 x 2125	1010	133/265

Profile type 2
with S, M, L-ribbing
Fitting: internal or external fitting

Ordering size = ordering dimension	Handle height from FFL	Rib spacing
875 x 2000	1050	125/250
875 x 2125	1050	133/265
1000 x 2000	1050	125/250
1000 x 2125	1050	133/265

Profile type 3
with S, M, L-ribbing or M-panelling
Fitting: external fitting

Ordering size = ordering dimension	Handle height from FFL	Rib spacing
875 x 2000	955	125/250
875 x 2125	1010	133/265
1000 x 2000	955	125/250
1000 x 2125	1010	133/265

Special sizes

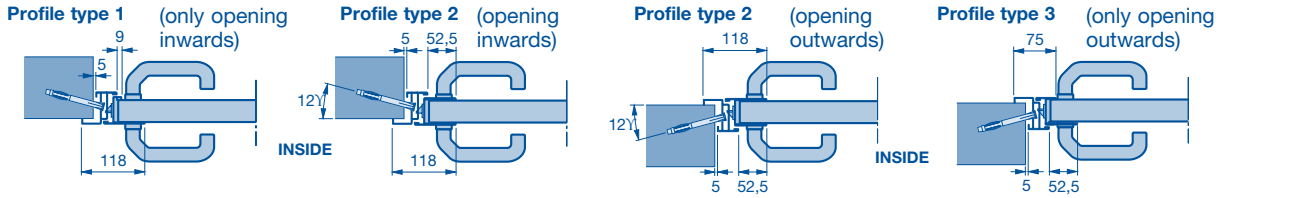
Profile type 1 or 3
with S, M-panelling or design
Fitting: internal fitting for profile type 1, external fitting for profile type 3

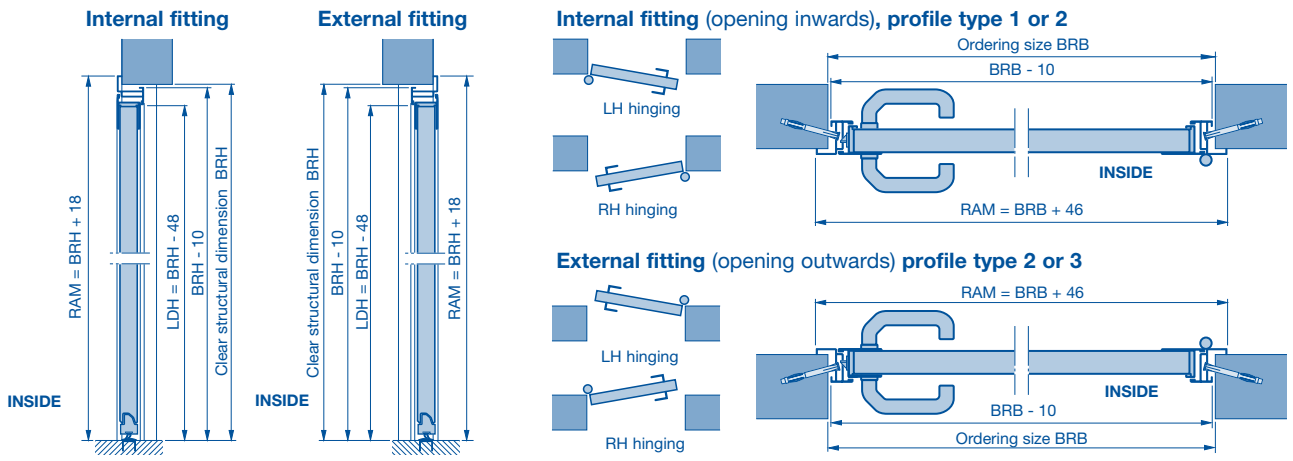
Ordering size = ordering dimension	Handle height from FFL
875 - 1250 x 2000 or 2125	935 - 1268
875 - 1250 x 2000, 2080, 2125, 2205, 2250, 2375 or 2500	935 - 1268

Profile type 1, 2 or 3
with S, M, L-ribbing
Fitting: internal fitting for profile type 1, internal or external fitting for profile type 2, external fitting for profile type 3

Ordering size = ordering dimension	Handle height from FFL		
	Profile type 1	Profiltyp 2	Profiltyp 3
875 - 1250 x 1875 - 2500	935 - 1268	1050	935 - 1268

Note for glazing type D:
RAM min. width 980 mm
and RAM min. height 2115 mm
when top door section glazed.





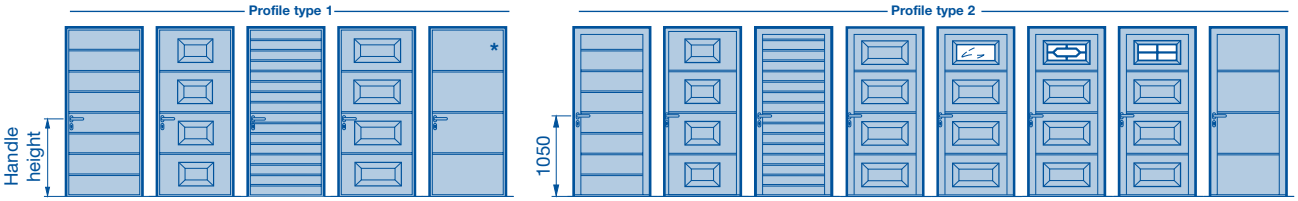
LF = structural opening, LDH = clear passage height, RM = ordering dimension height, RAM = overall frame size

Side Doors with Block Frame of Aluminium Extrusions

Standard sizes

Door leaf:
- Appearance as LTE 40 / EPU 40 / LPU 40, door leaf frame surround and frame of aluminium extrusions (without thermal breaks), overall thickness 60 mm, double sound-absorber seal to 3 sides
- Door infill of PU foam insulated steel sections, outside Woodgrain embossed, Decograin® or Silkgrain®, inside stucco embossed.
- Surface with polyester primer coating (with Decograin® synthetic foil coating on the outside)
- Field alignment of sections, ribs or panels only possible with garage doors of the same height.
- For further details refer to the current product brochures

External views



The proportions of the doors illustrated correspond to the finished size of the structural opening 1000 x 2125 mm. Other door sizes will show variations.
* Side door version with special design (see p. 20) only possible with profile type 1

Standard sizes (profile type 1 only opening inwards)

Profile type 1 (fitted behind the opening) S-, M-, L-ribbed, S-, M-panelled			
Structural opening	**Ordering size** = Overall frame size RAM	Handle height from FFL	Rib spacing
855- 875 x 1990-2000	**990 x 2058**	955	125/250
855- 875 x 2115-2125	**990 x 2183**	1010	133/265
980-1000 x 1990-2000	**1115 x 2058**	955	125/250
980-1000 x 2115-2125	**1115 x 2183**	1010	133/265

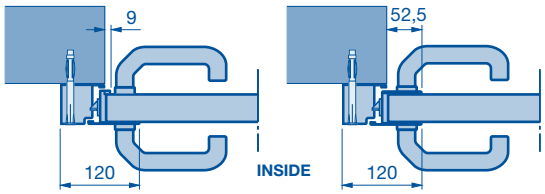
Profile type 2 (fitted behind the opening) S-, M-, L-ribbed, S-, M-panelled			
Ordering size Structural opening	Handle = Overall frame size RAM	Rib height from FFL	spacing
855- 875 x 1990-2000	**990 x 2058**	1050	125/250
855- 875 x 2115-2125	**990 x 2183**	1050	133/265
980-1000 x 1990-2000	**1115 x 2058**	1050	125/250
980-1000 x 2115-2125	**1115 x 2183**	1050	133/265

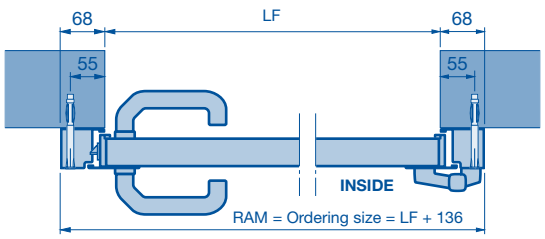
Profile type 2 (fitted in the opening) S-, M-, L-ribbed			
Ordering size Structural opening	Handle = Overall frame size RAM	Rib height from FFL	spacing
875 x 2000	**855 x 1990**	1050	125/250
875 x 2125	**855 x 2115**	1050	133/265
1000 x 2000	**980 x 1990**	1050	125/250
1000 x 2125	**980 x 2115**	1050	133/265

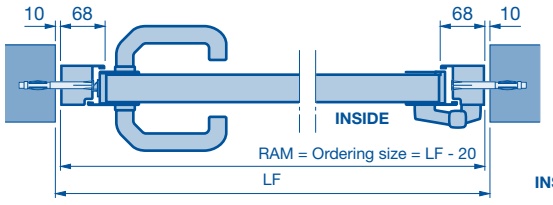
Note for glazing type D: RAM min. width 980 mm and RAM min. height 2115 mm when top door section glazed.

Profile type 1

Narrow door leaf surround

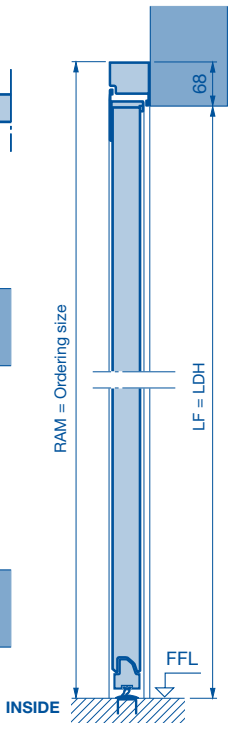




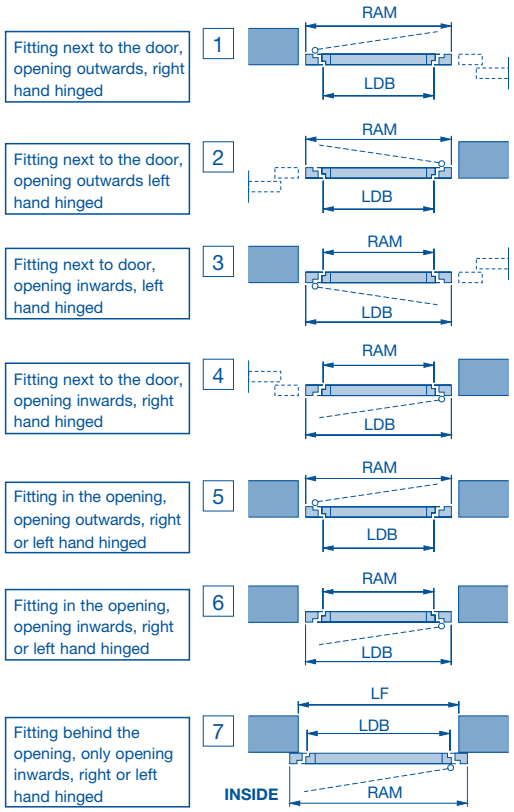


Profile type 2

Wide door leaf surround



Fitting arrangement



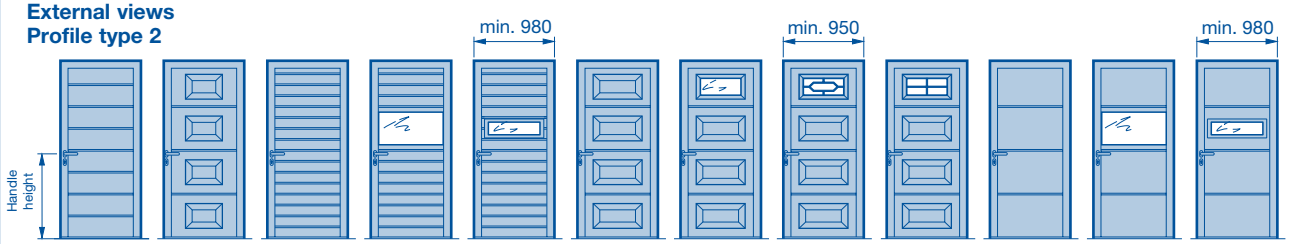
LF = structural opening, LDH = clear passage height, LDB = clear passage width, RAM = overall frame size

Side Doors with Block Frame of Aluminium Extrusions

Special sizes

Door leaf:
- Appearance as LTE 40 / EPU 40 / LPU 40, door leaf surround and frame of aluminium extrusions (without thermal breaks), overall thickness 60 mm, double sound absorber seal to 3 sides
- As standard, the plug holes are predrilled in the frame according to the installation position (see reverse of order form).
- Door infill of PU foam insulated steel sections, outside Woodgrain embossed, Decograin® or Silkgrain®, inside stucco embossed.
- Surface with polyester primer coating (with Decograin® synthetic foil coating on the outside)
- Field alignment of sections, ribs or panels only possible with garage doors of the same height.
- For further details refer to the current product brochures

External views
Profile type 2



The proportions of the doors illustrated correspond to the finished size of the structural opening 1000 x 2125 mm. Other door sizes will show variations.

Special sizes (profile type 1 only opening inwards)

Profile type 1 (fitted in or behind the opening) S-, M-, L-ribbed	
Ordering size = Overall frame size (RAM)	Handle height
855-1250 x 1990-2300	935 - 1268
855-1300 x 1990-2558	935 - 1268

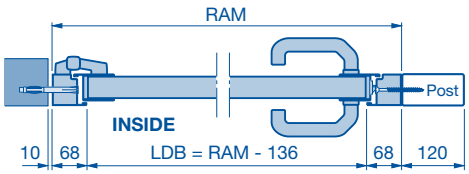
Profile type 2 (fitted in or behind the opening) S-, M-, L-ribbed	
Ordering size = Overall frame size (RAM)	Handle height
855-1250 x 1933-2300	1050
855-1300 x 1933-2558	1050

Profile type 1 (fitted behind the opening only) S-, M-, L-panelled or with special design	
Ordering size = Overall frame size (RAM)	Handle height
950-1250 x 2058 or 2183	935 - 1268
950-1300 x 2013, 2058, 2138, 2183, 2263, 2308, 2433 or 2558	935 - 1268

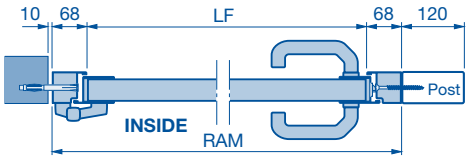
Profile type 2 (fitted behind the opening, in the opening - opening outwards on request) S-, M-panelled	
Ordering size = Overall frame size (RAM)	Handle height
950-1250 x 2058 or 2183	1050
950-1300 x 1933, 2013, 2058, 2138, 2183, 2263, 2308, 2433 or 2558	1050

Note for glazing type D: RAM min. width 980 mm and RAM min. height 2115 mm when top door section glazed.

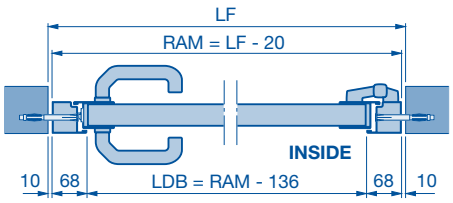
Fitted next to the garage door, opening outwards, RH hinged or LH hinged



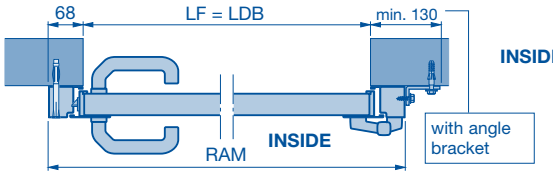
Fitted next to the garage door, opening inwards, RH hinged or LH hinged



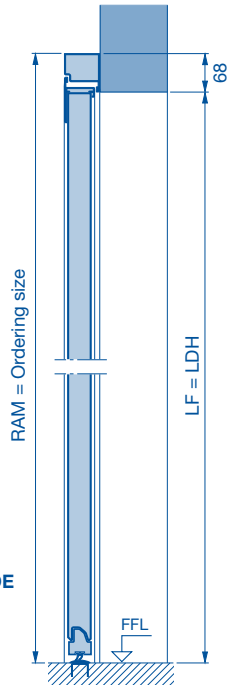
Fitted in the opening, opening inwards or outwards, RH hinged or LH hinged



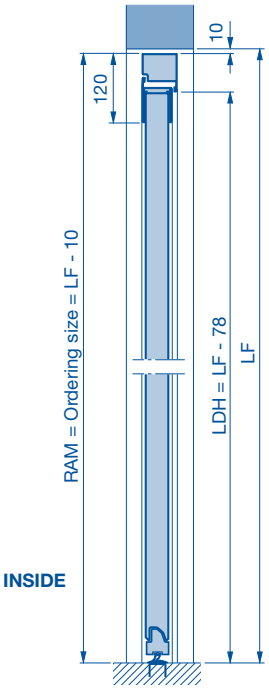
Fitted behind the opening, opening inwards, RH hinged or LH hinged



Fitting behind the opening



Fitting in the opening



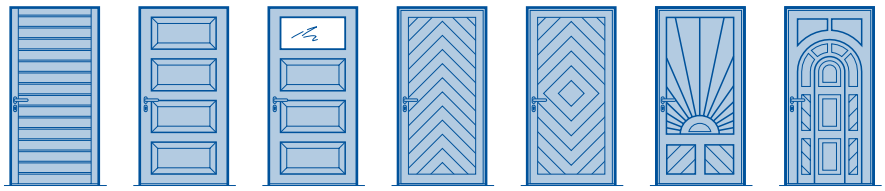
LF = structural opening, LDH = clear passage height, RAM = overall frame size

Side Doors in Timber

Standard sizes/Special sizes

Door leaf:
- Appearance as LTH 40
- Door leaf and frame in solid timber, Nordic Pine or Hemlock, overall thickness of door leaf 42 mm, sound absorber seal to 3 sides
- Double threshold seal
- Surface treated with pine impregnation to protect against insect and fungal attack
- For further details refer to the current product brochure.

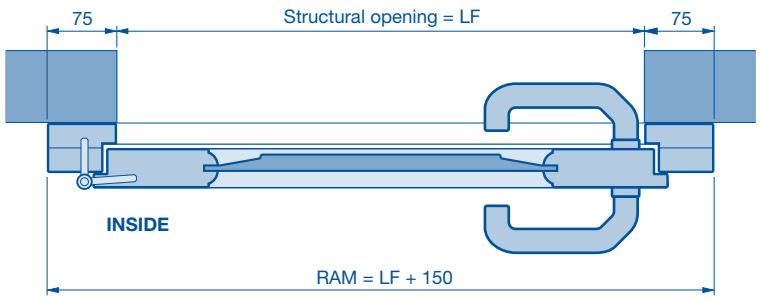
External views

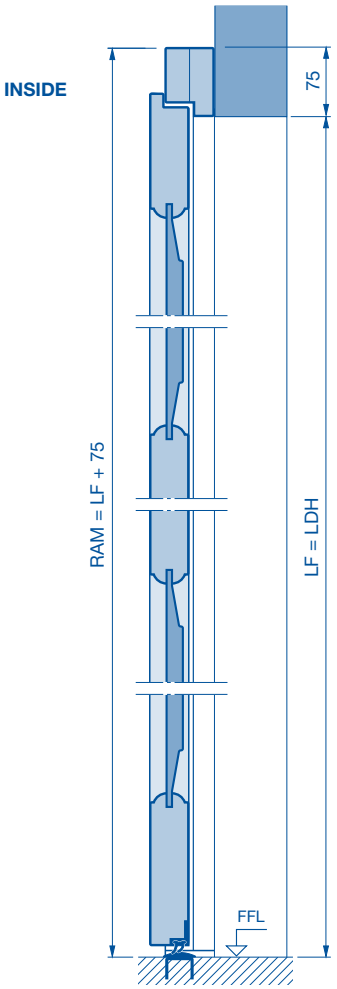


The proportions of the doors illustrated correspond to the finished size of the structural opening 1000 x 2125 mm. Other door sizes will show variations.

Version S-boarded or V-panelled			
Structural opening	Ordering size = overall frame size RAM	Handle height from FFL	Rib spacing
Standard sizes			
855- 875 x 2115-2125 980-1000 x 2115-2125	1005 x 2190 1130 x 2190	1050 1050	133 133
Special sizes	990-1250 x 1940- 2315	1050	

Version with special designs		
Structural opening	Ordering size = overall frame size RAM	Handle height from FFL
Standard sizes		
980-1000 x 2115-2125	1130 x 2190	1050
Special sizes	1130-1250 x 1940- 2315	1050

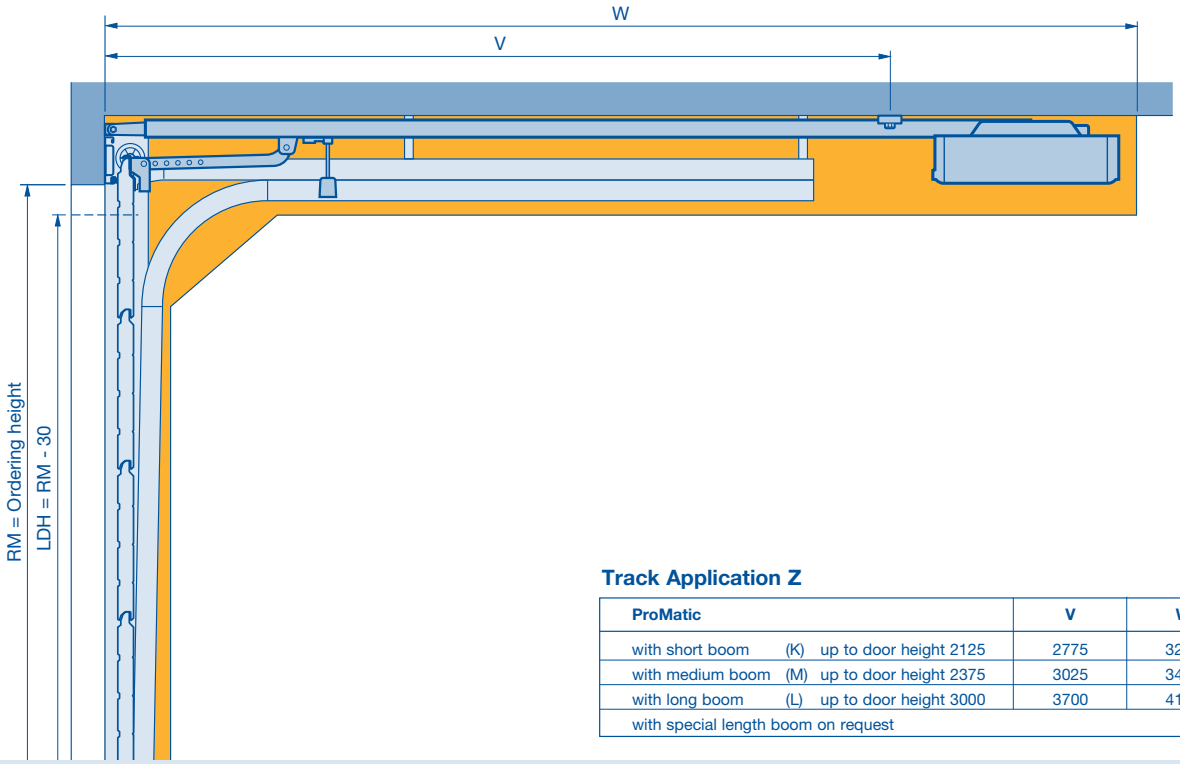




LF = structural opening, LDH = clear passage height, RAM = overall frame size

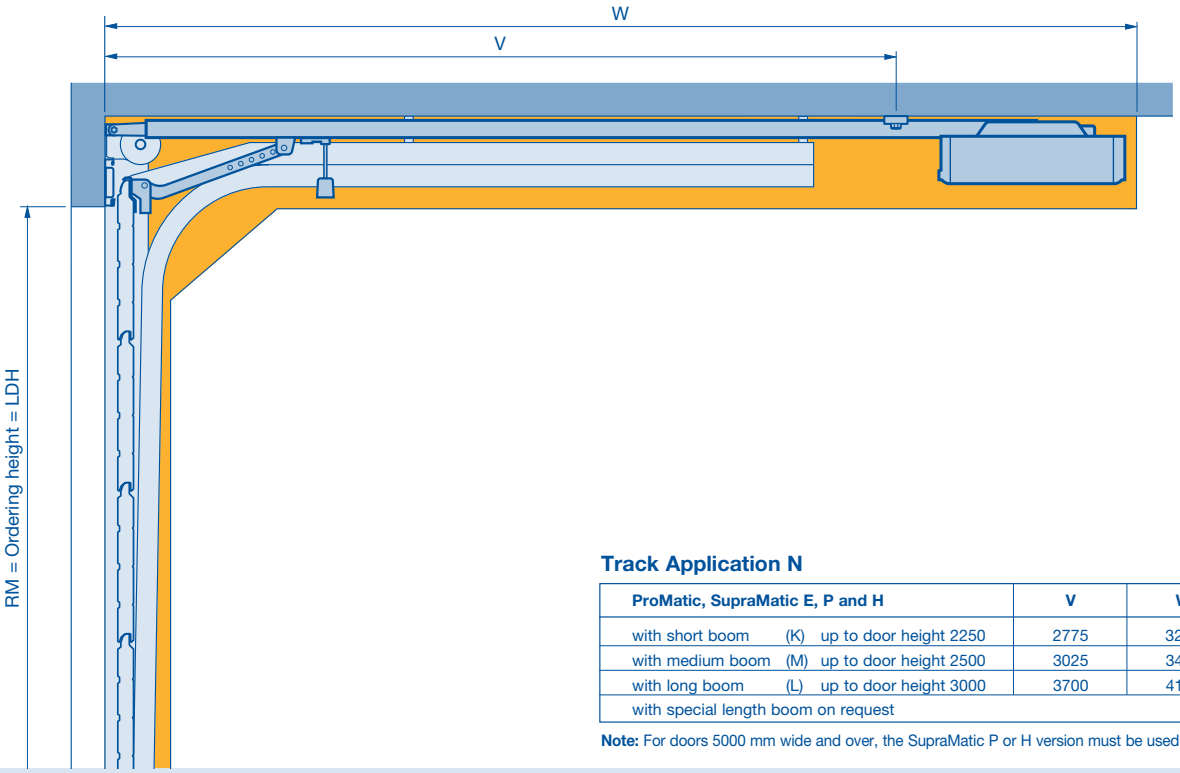
Garage Door Operators

ProMatic, SupraMatic E, P, H



Track Application Z

ProMatic			V	W
with short boom	(K)	up to door height 2125	2775	3200
with medium boom	(M)	up to door height 2375	3025	3450
with long boom	(L)	up to door height 3000	3700	4125
with special length boom on request				



Track Application N

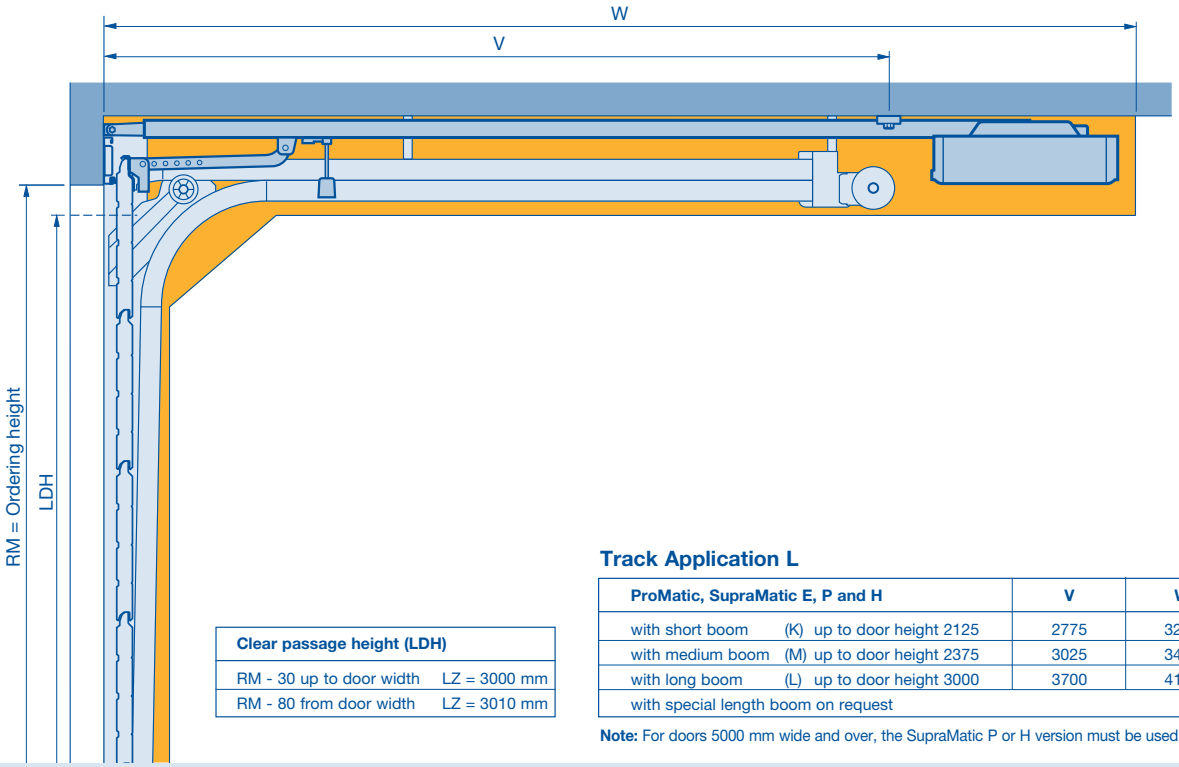
ProMatic, SupraMatic E, P and H			V	W
with short boom	(K)	up to door height 2250	2775	3200
with medium boom	(M)	up to door height 2500	3025	3450
with long boom	(L)	up to door height 3000	3700	4125
with special length boom on request				

Note: For doors 5000 mm wide and over, the SupraMatic P or H version must be used.

For further details refer to the ProMatic and SupraMatic E/P/H Installation and Operating Instructions.

Garage Door Operators

ProMatic, SupraMatic E, P, H

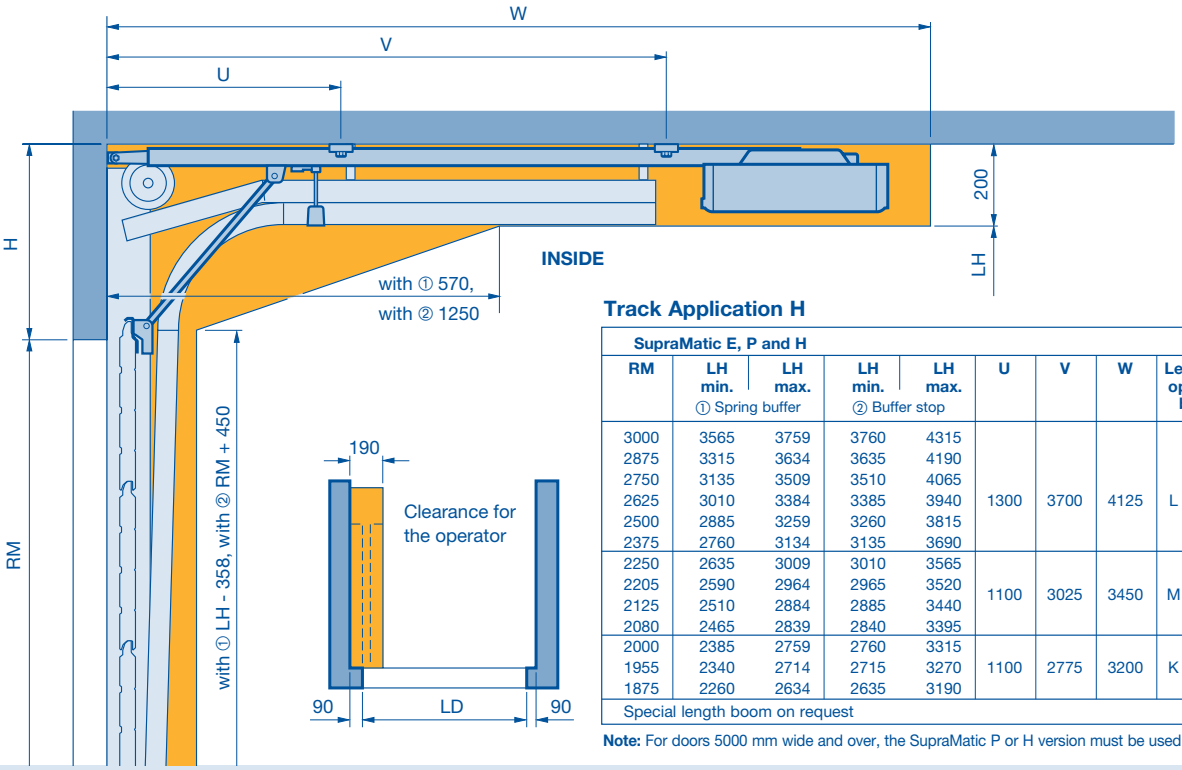


Clear passage height (LDH)	
RM - 30 up to door width	LZ = 3000 mm
RM - 80 from door width	LZ = 3010 mm

Track Application L

ProMatic, SupraMatic E, P and H		V	W
with short boom	(K) up to door height 2125	2775	3200
with medium boom	(M) up to door height 2375	3025	3450
with long boom	(L) up to door height 3000	3700	4125
with special length boom on request			

Note: For doors 5000 mm wide and over, the SupraMatic P or H version must be used.



Track Application H

SupraMatic E, P and H								
RM	LH min. ① Spring buffer	LH max. ① Spring buffer	LH min. ② Buffer stop	LH max. ② Buffer stop	U	V	W	Length of operator boom
3000	3565	3759	3760	4315				
2875	3315	3634	3635	4190				
2750	3135	3509	3510	4065				
2625	3010	3384	3385	3940	1300	3700	4125	L = 3925
2500	2885	3259	3260	3815				
2375	2760	3134	3135	3690				
2250	2635	3009	3010	3565				
2205	2590	2964	2965	3520				
2125	2510	2884	2885	3440	1100	3025	3450	M = 3250
2080	2465	2839	2840	3395				
2000	2385	2759	2760	3315				
1955	2340	2714	2715	3270	1100	2775	3200	K = 3000
1875	2260	2634	2635	3190				
Special length boom on request								

Note: For doors 5000 mm wide and over, the SupraMatic P or H version must be used.

For further details refer to the ProMatic and SupraMatic E/P/H Installation and Operating Instructions.

Notes

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GARAGE DOORS

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LOADING EQUIPMENT

HINGED DOORS

DOOR FRAMES

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