

Fitting data

As of 01.07.2024

# Rolling shutters and rolling grilles

SB, TGT and DD

# Abbreviations used

<b>ABP</b>	= Lockable bottom profile
<b>BB</b>	= Panel width
<b>BH</b>	= Panel height
<b>BMB</b>	= Ordering size width
<b>BMH</b>	= Ordering size height
<b>DHV</b>	= Loss of passage height
<b>DIF</b>	= Difference dimension
<b>ET</b>	= Fitting depth
<b>ET<sub>AW</sub></b>	= Fitting depth with horizontal operator
<b>ET<sub>PV</sub></b>	= Fitting depth for door with curtain cover
<b>ET<sub>SSG</sub></b>	= Fitting depth for SSG
<b>ET<sub>VDD</sub></b>	= Fitting depth for door with curtain cover VDD-V/VDD-H
<b>EZS</b>	= Lintel trap guard
<b>F<sub>horiz</sub></b>	= Horizontal force at the fixing point
<b>F<sub>vert</sub></b>	= Vertical force at the fixing point
<b>FS</b>	= Sideroom for side guide
<b>KU</b>	= Support bracket dimension bottom
<b>L</b>	= Sideroom on bearing side
<b>L<sub>AR</sub></b>	= Sideroom on bearing side with additional posts
<b>LDB</b>	= Clear passage width
<b>LDH</b>	= Clear passage height
<b>LF</b>	= Structural opening
<b>L<sub>PV</sub></b>	= Bearing side sideroom with curtain cover
<b>LZ</b>	= Clear frame dimensions
<b>LWB</b>	= Structural opening width
<b>M<sub>AR</sub></b>	= Sideroom on motor side for additional posts
<b>M<sub>PV</sub></b>	= Motor side sideroom with curtain cover
<b>MS</b>	= Sideroom on motor side for direct drive operators
<b>MS<sub>AR</sub></b>	= Sideroom on motor side for direct drive operators with additional posts
<b>OFF</b>	= Finished floor level
<b>PS</b>	= Side space requirement
<b>PV</b>	= Curtain cover
<b>RAM</b>	= Overall frame dimension
<b>RAMB</b>	= Overall frame width
<b>RAMH</b>	= Overall frame height
<b>S</b>	= Required headroom
<b>S<sub>B</sub></b>	= Height of fascia panel
<b>S<sub>SSG</sub></b>	= Required headroom for doors with SSG
<b>SD</b>	= Lintel seal
<b>SKS</b>	= Closing edge safety device
<b>S<sub>PV</sub></b>	= Required headroom for doors with curtain cover
<b>S<sub>SBP</sub></b>	= Required headroom for doors with chamfered bottom profile
<b>SWT</b>	= Side wall depth
<b>UB</b>	= Bottom edge actuation
<b>UBVDD</b>	= Bottom edge actuation with VDD-V/VDD-H
<b>VDD</b>	= Operator cover DD
<b>WLK</b>	= Wind load class acc. to EN 12424

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## Note:

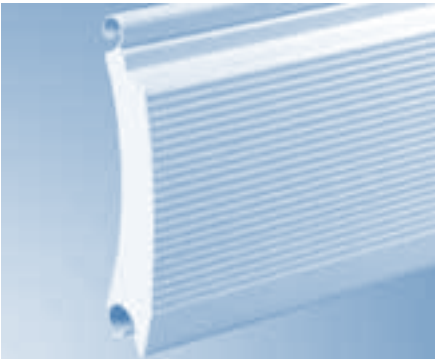
All dimensions in this document provide the minimum details in [mm] and are standard values (if necessary, please take the accurate values from the product configurator).

# Contents

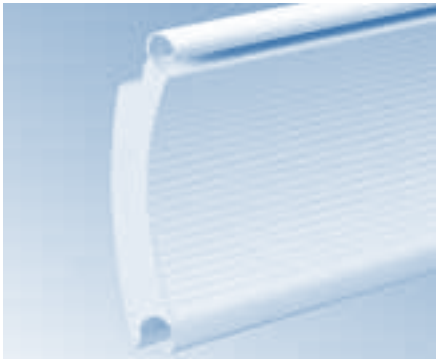
Topic	Page
Abbreviations used	2
Contents	3
Profile Overview	4
Arrangement of windows and ventilation elements	6
Fitting Space for Controls/Operator Data	7
Side door NT 60 R	8
Chamfered bottom profile	10
Fitting in the opening with additional posts / overview of profile cylinders	11
<b>SB Rolling Shutters / Rolling Grilles</b>	
Space requirement	12
Table of standard values / maximum wind loads	13
Side guide FS 160	14
Lintel seals / support brackets / maximum loads at the fixing point / minimum requirements for the building structure / fascia panel SB / TGT	15
Actuation types	16
Curtain cover PVSB / loss of passage height	17
<b>Rolling shutters TGT / rolling grilles TGT</b>	
Space requirement	18
Table of standard values / boom FS 160 / lintel seal / support bracket / maximum load at the fixing point / loss of passage height	19
<b>Rolling shutters DD / rolling grilles DD</b>	
Space requirement	20
Space requirement behind the lintel	21
Side guide FS 80	22
Support brackets / maximum loads at the fixing point / minimum requirements for the building structure	23
Lintel seals / weld-on plates for support brackets / break-in-resistant locks	24
Maximum wind loads / maximum number of cycles per day	25
Curtain cover PVDD without VDD	26
Curtain cover PVDD with VDD-H / VDD-V	27
SSG DD	28
Park position behind the opening	28
Park position in the opening	29
Wall brackets WK40 / WK60 / WK40A	30
Table of standard values	32
Decotherm S	32
Decotherm S with accessory package S6	34
HR 120 A	36
HR 120 aero	38
HG-L	40
HG-V	42
HG-S	44

# Profile Overview

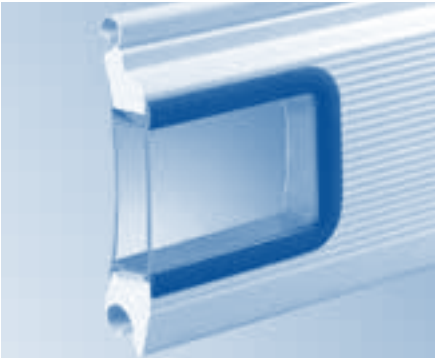
## Decotherm S



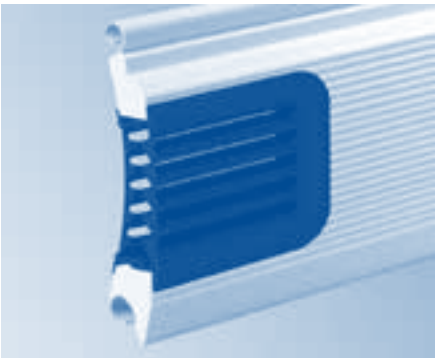
Decotherm



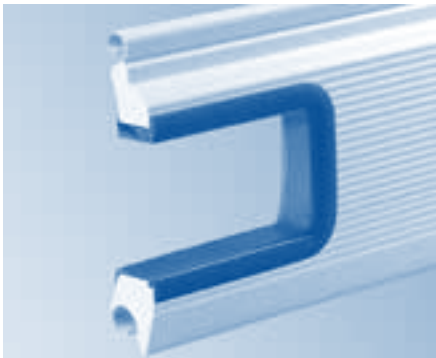
Decotherm external rolling shutters



Decotherm with rectangular window



Decotherm with ventilation grille



Decotherm with ventilation opening

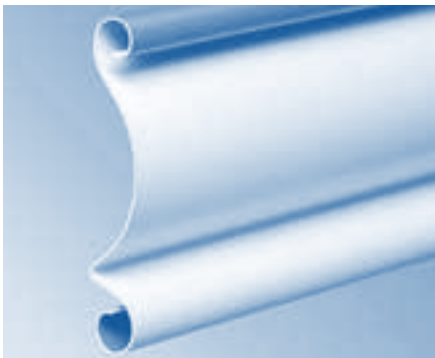
### Profile data

- Material 0.35 mm steel
- Profile height 109 mm
- Assembly dimensions for panels and infills:
  - 1 profile 109 mm
  - Each further profile 96 mm
- Profile weight/m<sup>2</sup> Approx. 10.3 kg
- Thermal insulation  $U_p = 3.9 \text{ W/(m}^2\text{K)}$
- Fire behaviour Class E (DIN EN 13501-1)
- Free ventilation cross-section
  - Per ventilation grille Approx. 27 cm<sup>2</sup>
  - Per ventilation opening Approx. 57 cm<sup>2</sup>

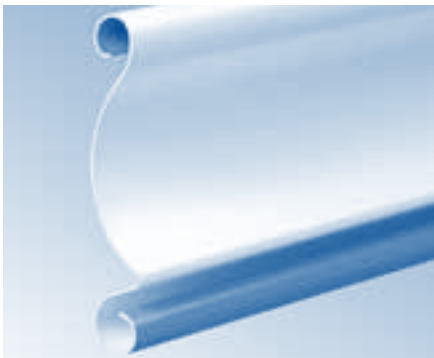
### Note

- The ventilation cross-section of the door system is calculated and indicated in the product configurator.

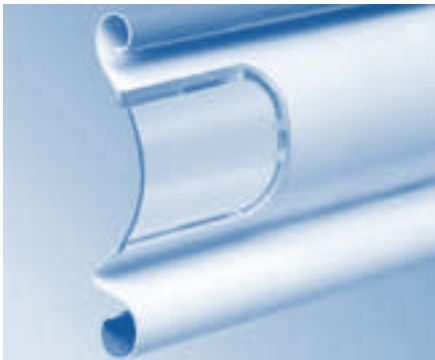
HR 120



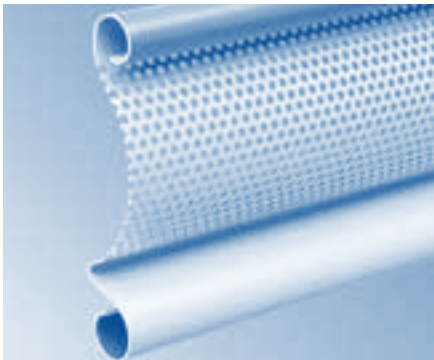
HR 120



HR 120, external rolling shutters



HR 120 with window



HR 120 aero

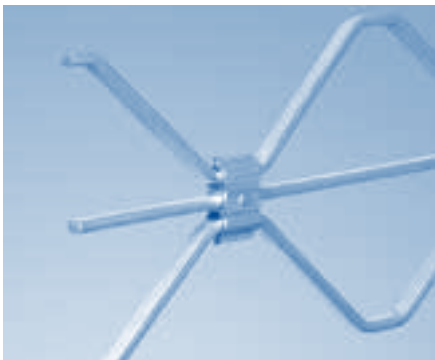
Profile data

- Material:
  - HR 120 A 1.0 mm aluminium
  - HR 120 aero 1.0 mm aluminium
- Profile height 119 mm
- Assembly dimensions for panels and infills:
  - 1 profile 119 mm
  - Each further profile 102.7 mm
- Profile weight/m<sup>2</sup>:
  - HR 120 A Approx. 6 kg
  - HR 120 aero Approx. 5.5 kg
- Thermal insulation -

Note for HR 120 aero:

- Free ventilation cross section approx. 30% of the door surface
- Available as external rolling shutter only in a bright-rolled version

Rolling grille



HG-L



HG-V, HG-S

Curtain data HG-L

- Material Aluminium
- Profile height 80 mm
- Assembly dimensions for panels and infills:
  - 1 profile 80 mm
  - Each further profile 97.5 mm
- Curtain weight/m<sup>2</sup> Approx. 6.5 kg
- Free ventilation cross section approx. 77% of the door surface

Curtain data HG-V, HG-S

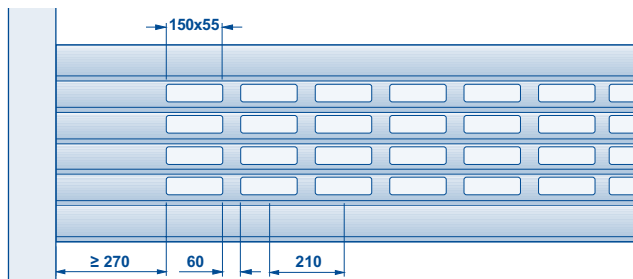
- Material:
  - HG-V Aluminium / stainless steel
  - HG-S Galvanized steel
- Profile height 60 mm
- Assembly dimensions for panels and infills:
  - 1 profile 60 mm
  - Each further profile 68,5 mm

- | Curtain weight/m <sup>2</sup> | Material thickness | Door width       |
|-------------------------------|--------------------|------------------|
| – HG-V                        | Approx. 7 kg       | 16 x 4 ≤ 3500 mm |
|                               | Approx. 8 kg       | 20 x 4 > 3500 mm |
| – HG-S                        | Approx. 14 kg      | 16 x 4 ≤ 4000 mm |
|                               | Approx. 15 kg      | 18 x 4 ≤ 6000 mm |
|                               | Approx. 16 kg      | 20 x 4 > 6000 mm |
- Free ventilation cross section approx. 85% of the door surface

# Arrangement of windows and ventilation elements

## Decotherm S

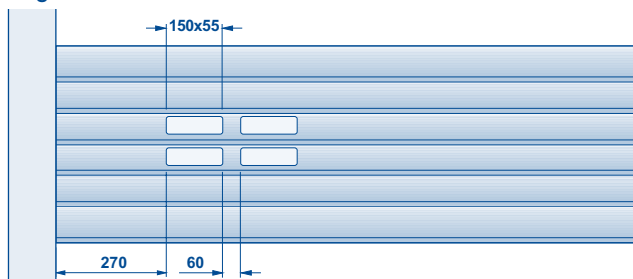
### Standard window version



#### Note:

- Window profiles reduce the resistance to wind load
- Maximum 4 window profiles for rolling shutters SB and TGT with door widths  $\leq 2000$  mm
- Maximum 8 window profiles for rolling shutters SB and TGT with door widths  $> 2000$  mm
- Max. 20 window profiles for rolling shutters DD
- Minimum door width 1300 mm
- Edge spacing with accessory package S6  $\geq 470$  mm

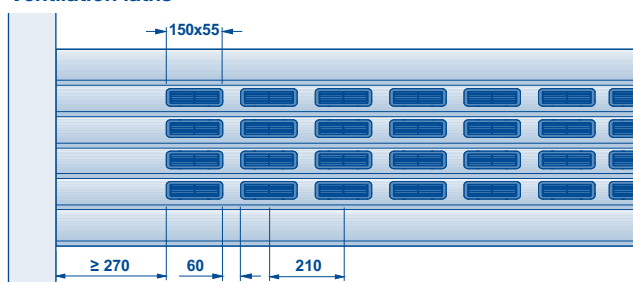
### Logistics version window



#### Note:

- 2 profiles with 2 window elements on the left and right
- Minimum door width 1380 mm

### Ventilation laths

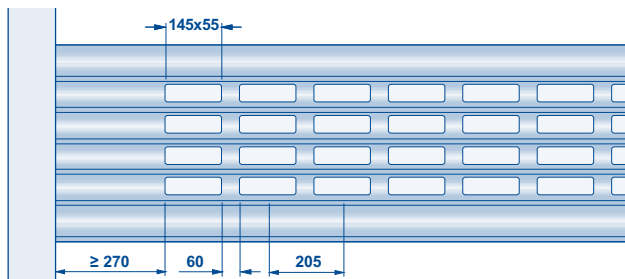


#### Notes:

- Ventilation laths reduce the resistance to wind load
- Ventilation grilles and ventilation openings cannot be combined
- Minimum door width 1300 mm
- Rolling shutters SB and TGT:
  - Cannot be combined with window profiles
  - Max. 2 profiles with ventilation grilles for door widths  $\leq 2000$  mm
  - Max. 4 profiles with ventilation grilles for door widths  $> 2000$  mm
  - Max. 1 profile with ventilation openings for door widths  $\leq 2000$  mm
  - Max. 2 profiles with ventilation openings for door widths  $> 2000$  mm
- Rolling shutters DD:
  - Max. 20 ventilation laths
  - Can be combined with standard version windows
  - Lintel trap guard required for ventilation openings  $\leq 2500$  mm above FFL and impulse control
  - Edge spacing with accessory package S6  $\geq 470$  mm

## HR 120 A

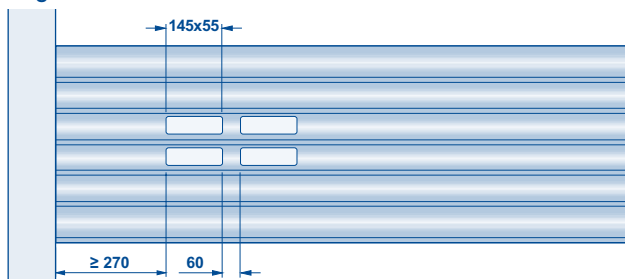
### Standard window version



#### Note:

- Window profiles reduce the resistance to wind load
- Maximum 4 window profiles for rolling shutters SB and TGT with door widths  $\leq 2000$  mm
- Max. 8 window profiles
- Minimum door width 1750 mm

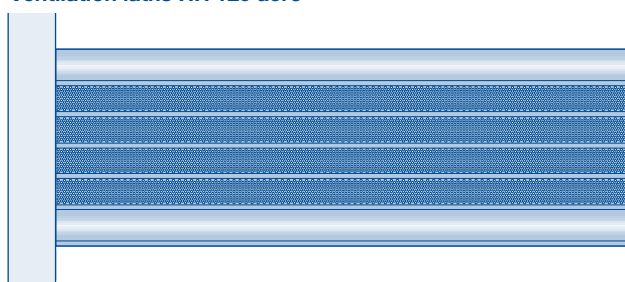
### Logistics version window



#### Note:

- 2 profiles with 2 window elements on the left and right
- Minimum door width 1750 mm

### Ventilation laths HR 120 aero

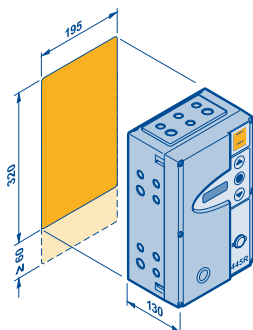


#### Notes:

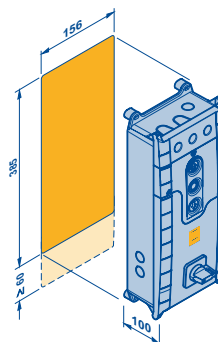
- Max. 8 ventilation laths
- Only available in bright-rolled, RAL 9002 or RAL 9006
- Always bright-rolled for the external rolling shutter version
- Not for rolling shutters SB

# Fitting Space for Controls/Operator Data

## Fitting space for controls



300, 360, 445R, B455R, 460R



B971R S6

## Operator data

Operator designation		Direct drive operators								
		DD17	DD25	DD25 WS	DD30	DD30	DD30	DD40	DD50	DD 65
Output torque	Nm	170	250	250	300	300	300	400	500	650
Safety catch torque	Nm	510	510	635	635	635	635	760	1100	1100
Test no.		14-003612-PR02	14-003612-PR02	14-003612-PR03	14-003612-PR03	14-003612-PR03	14-003612-PR03	14-003612-PR03	14-003612-PR03	14-003612-PR03
Revolutions at the barrel	min <sup>-1</sup>	15	15	15	15	15 <sup>1)</sup>	15	15	15	15 <sup>1)</sup>
Motor power	kW	0,40	0,55	0,75	0,85	0,85	0,85	0,85	0,75	1,10
Operating voltage	V	3x400	3x400	1x230	3x230	3x400	3x500	3x400	3x400	3x400
Frequency	Hz	50	50	50	50	50	50	50	50	50
Motor rated current	A	5,24	2,3	8,0	4,4	2,55	2,25	2,55	2,95	4,2
Temperature range	°C	-20 / +40	-20 / +40	-20 / +40	-20 / +40	-20 / +40	-20 / +40	-20 / +40	-20 / +40	-20 / +40
Continuous sound pressure level	dB(A)	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70
Protection Category	IP	65	65	65	65	65	65	65	65	65

Operator designation		Direct drive operators						GI		
		DD100	DD160	DD180	DD17.60	DD25.60	DD40.40	250 R S4	300 R S4	300 AR S4
Output torque	Nm	1000	1600	1800	170	250	400	11	11	11
Safety catch torque	Nm	2800	3125	3125	420	990	760	--	--	--
Test no.		14-003305-PR01	14-003305-PR01	14-003305-PR01	14-003612-PR02	14-003612-PR03	14-003612-PR03	--	--	--
Revolutions at the barrel	min <sup>-1</sup>	10	5	5	8 – 60	10 – 60	9 – 40	12	15 <sup>3)</sup>	15 <sup>3)</sup>
Motor power	kW	1,30	1,30	1,30	0,85	1,5	1,5	0,25	0,25	0,25
Operating voltage	V	3x400	3x400	3x400	1 N – 230 <sup>2)</sup>	1 N – 230 <sup>2)</sup>	1 N – 230 <sup>2)</sup>	1x230	1x230	1x230
Frequency	Hz	50	50	50				50/60	50/60	50/60
Motor rated current	A	6,5	6,5	6,5	6,6	7,3	7,3	6,0	6,0	6,0
Temperature range	°C	-10 / +40	-10 / +40	-10 / +40	+5 / +40	+5 / +40	+5 / +40	-20 / +60	-20 / +60	-20 / +60
Continuous sound pressure level	dB(A)	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70
Protection Category	IP	65	65	65	65	65	65	65	65	20 <sup>4)</sup>

- 1) 10 min<sup>-1</sup> in combination with Gelbau strip DD
- 2) Neutral conductor (N) required
- 3) Rolling shutters / rolling grilles TGT: 18 min<sup>-1</sup>
- 4) In combination with PVSB: IP 44

# Side door NT 60 R

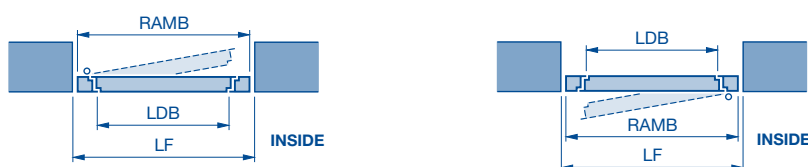
## Possible handing options

### Fitting in the opening

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



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



## Overall frame dimensions

	Ordering width	Ordering height	Size range width	Size range height
<b>Side door</b>	$RAMB = LF - 20$	$RAMH = LF - 10$	$RAMB = 770 - 1300$	$RAMH = 1865 - 2525$
<b>Aluminium fascia profile</b>	$RAMB = LF - 20$	$RAMH = LF - 10$	$RAMB = 770 - 1300$	$RAMH = 360 - 5800$

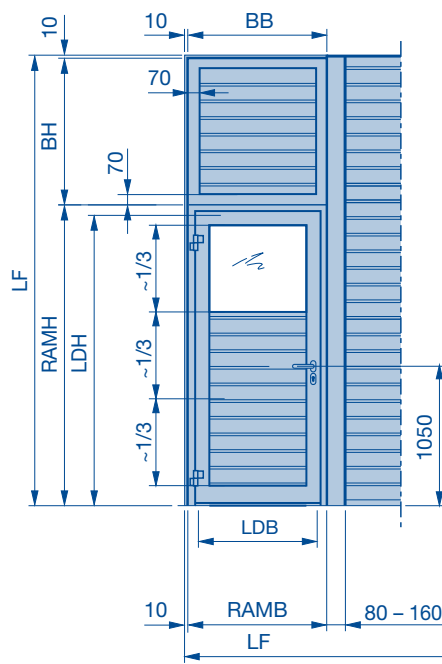
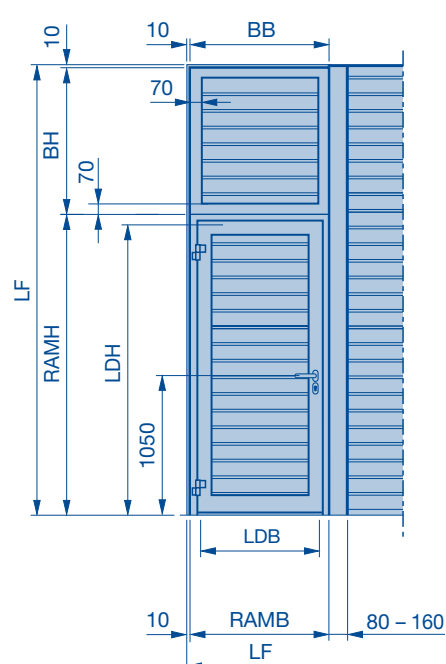
### Note:

- Doors with multiple-point locking: ordering height  $RAMH \geq 1940$  mm
- Aluminium fascia panels above 5800 mm height are delivered in two parts.

## Clear passage dimensions

Opening angle	Width (LDB)	Height (LDH)
136°	$RAMB - 149$	$RAMH - 70$
90°	$RAMB - 194$	$RAMH - 70$

## Fitting dimensions



### Note:

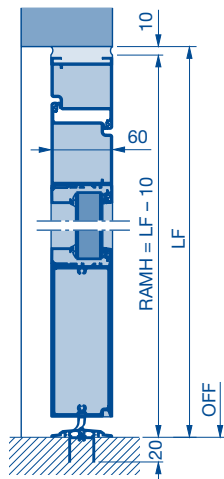
- Locking cylinders 40 / 40 mm
- Window section with clear synthetic double pane
- Protection to exclude the possibility of reaching through for rolling grille infills with solid clear polycarbonate pane

- BB** = Panel width
- BH** = Panel height
- LDB** = Clear passage width
- LDH** = Clear passage height
- LF** = Structural opening
- OFF** = Finished floor level
- RAMB** = Overall frame width
- RAMH** = Overall frame height

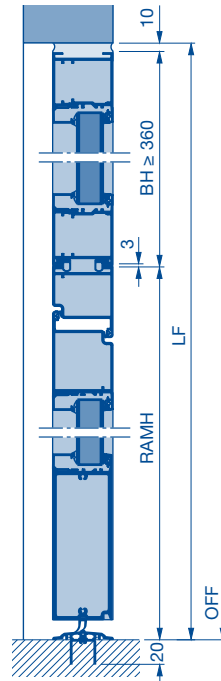


## Possible fitting options

### Door in the opening

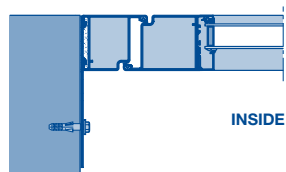


### Door with aluminium fascia panel in the opening

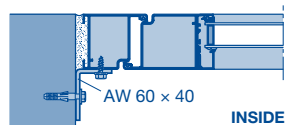


## Fastening options

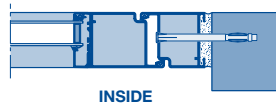
### Screw-in anchor



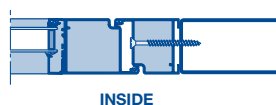
### Support bracket



### Plugs for metal frame for brickwork

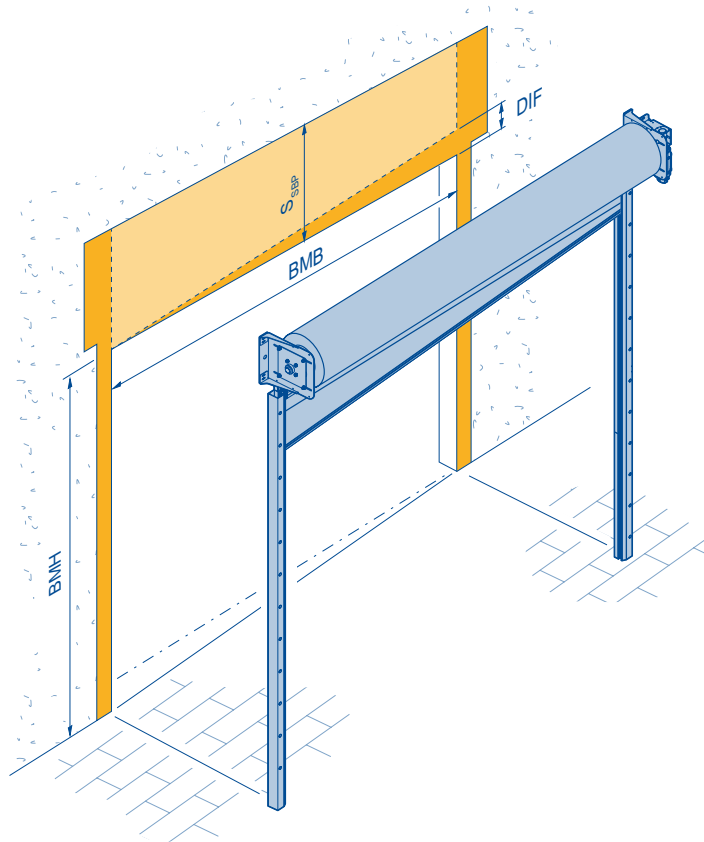


### Tapping screw with countersunk head B 6.3 x 80 for steel subframes



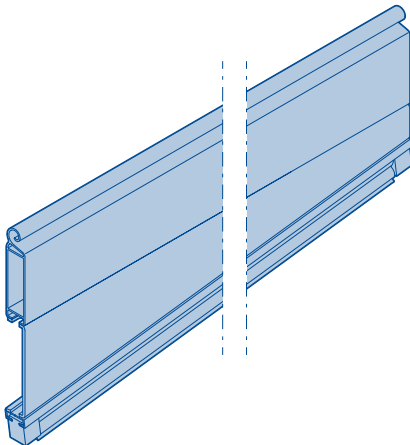
# Chamfered bottom profile

## Fitting example rolling shutter DD



**BMB** = Ordering size width  
**BMH** = Ordering size height  
**DIF** = Difference dimension  
**S** = Required headroom  
**SSBP** = Required headroom for doors with chamfered bottom profile

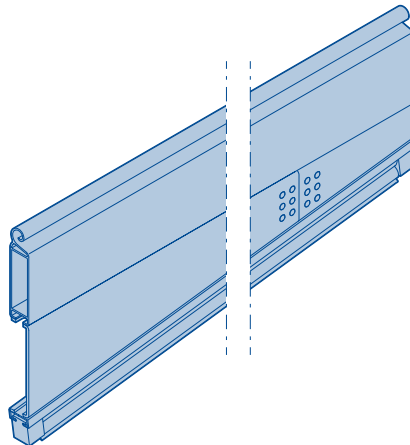
### Single-skinned



#### Notes:

- Door width  $\leq 5800$  mm
- Door width min. 3000 mm for rolling grille SB/TGT
- Max. difference dimension 525 mm
- **S<sub>SBP</sub>** = **S** + difference dimension + 50 (observe passage height loss for rolling shutter/rolling grille SB and rolling shutter/rolling grille TGT)
- Rolling shutters/rolling grilles SB and rolling shutters/rolling grilles TGT only with Decotherm S and HG-L curtain
- Can be combined with lockable bottom profile ABP1 and ABP2
- Cannot be combined with accessory package S6 and W4

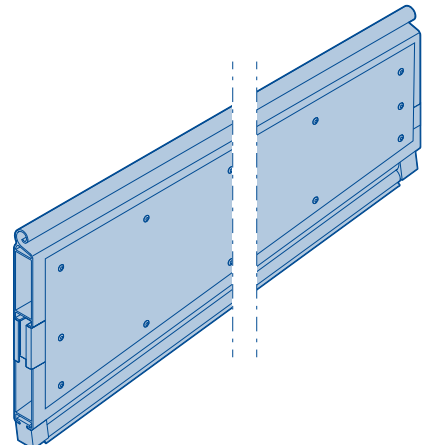
### Single-skinned - with joint seam



#### Notes:

- Door width  $> 5800$  mm
- Max. difference dimension 525 mm
- **S<sub>SBP</sub>** = **S** + difference dimension + 50
- Can be combined with lockable bottom profile ABP1 and ABP2
- Cannot be combined with
  - Accessory package S6
  - Accessory package W4
  - Rolling grille SB/TGT

### Double-skinned

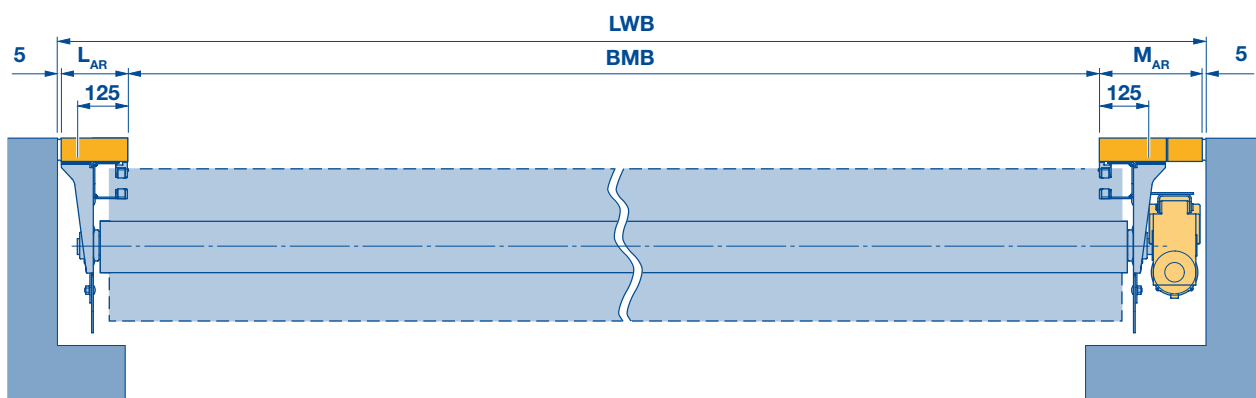


#### Notes:

- Max. door width 11600 mm
- Max. difference dimension 1000 mm
- **S<sub>SBP</sub>** = **S** + difference dimension
- Cannot be combined with
  - Lockable bottom profile ABP1 and ABP2
  - Accessory package S6
  - Accessory package W4
  - Rolling shutters/rolling grilles SB
  - Rolling shutters/rolling grilles TGT

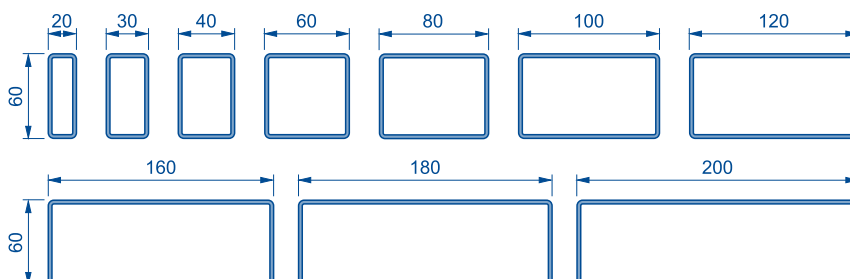
# Fitting in the opening with additional posts / overview of profile cylinders

## Fitting example rolling shutter DD



**BMB** = Ordering size width  
**LAR** = Sideroom on bearing side with additional posts  
**LWB** = Structural wall opening width  
**MAR** = Sideroom on motor side for additional posts

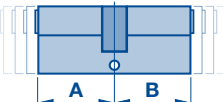
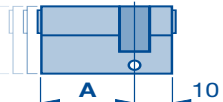
### Additional posts available



### Notes:

- The width of the siderooms created with additional posts must be derived from the dimensions of the available additional posts.
- Additional posts are designed acc. to DIN EN 1991-1-4:2010-12 in the door configuration. Weld-on plates to reinforce the support bracket position may be required.
- No all additional posts can be configured depending on the forces on the door system.

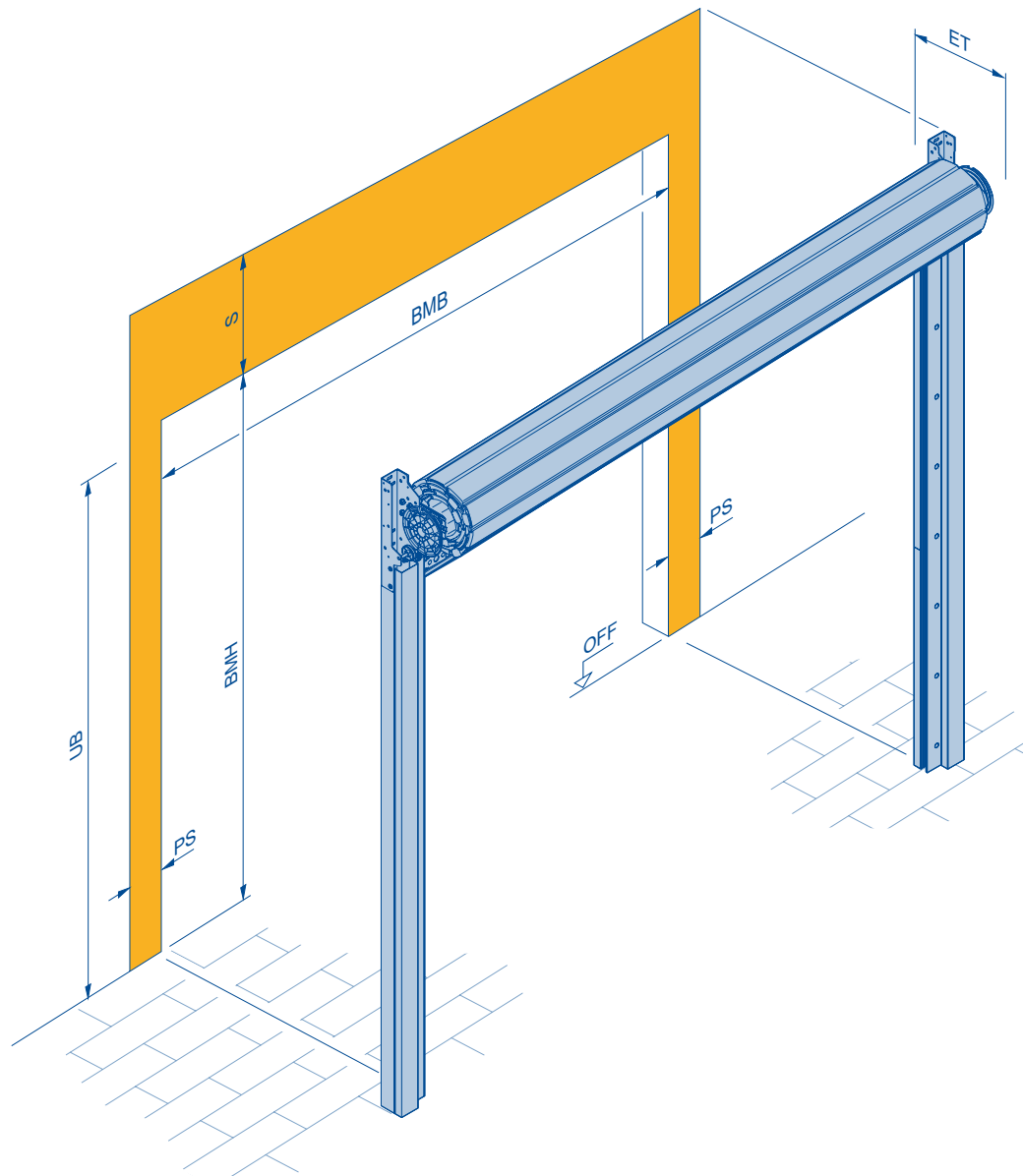
## Overview of profile cylinders

						
Door type / component	<b>Double cylinder</b> PC length (L): Interior (A) + exterior (B)	<b>Half cylinder</b> PC length (L): Interior (A) + blind side (B)	<b>ABP1</b> 24 mm	<b>ABP1</b> 55 mm	<b>ABP2</b> 24 mm	<b>ABP2</b> 55 mm
<b>SB/TGT</b>	L = 30 + 35	-	-	-	●	-
	-	L = 35 + 10	●	-	-	-
<b>DD</b>	L = 30 + 35	-	-	-	●	-
	L = 30 + 50	-	-	-	-	●
	-	L = 35 + 10	●	●	-	-
<b>NT 60 R</b>	L = 40 + 40	L = 40 + 10	-	-	-	-

# SB Rolling Shutters / Rolling Grilles

## Space requirement

### Fitting example with grip handle actuation type



Actuation type	PS	UB
Grip handle	165	Door height + 75 mm
Chain hoist	165	Door height - 75 mm
WA 250 R S4	165	Door height - 440 mm
WA 300 R S4	165	Door height - 440 mm
WA 300 AR S4	165 <sup>1)</sup>	Door height + 75 mm

1) with operator WA 300 AR S4 on operator side in the lintel area 265 mm, opposite side and guide rails unchanged 165 mm

**BMB** = Ordering size width  
**BMH** = Ordering size height  
**ET** = Fitting depth  
**OFF** = Finished floor level  
**PS** = Side space requirement  
**S** = Required headroom  
**UB** = Bottom edge actuation

#### Notes:

- The actuation type does not affect the following values:
  - Side space requirement **PS** <sup>1)</sup>
  - Required headroom **S**
  - Available door sizes
- For doors with a height of more than 3500 mm, we recommend the actuation type chain hoist or electrical operator.
- Manual actuation via grip handle only on the barrel side.

# SB Rolling Shutters / Rolling Grilles

## Table of standard values / maximum wind loads

Table of standard values

### Door height

4500	532	437	527*	432*	470	355
4250	529	434	527*	432*	467	352
4000	524	429	518	423	467	341
3750	519	424	518	423	460	341
3500	489	394	493	398	460	341
3250	484	389	485	390	460	335
3000	482	387	485	390	460	327
2750	475	380	477	382	460	324
2500	473	378	477	382	460	324
2250	465	370	468	373	460	317
Decotherm S		HR 120 A HR 120 aero		HG-L		

<sup>123</sup> = S (required headroom)

<sup>123</sup> = ET (minimum fitting depth)

\* = Only HR 120 A

### Notes:

- The required headroom **S** and the fitting depth **ET** do not depend on the door width or actuation type.
- The required headroom **S** is at least
  - 475 mm for doors with WA 300 AR S4
  - 490 mm for doors with curtain cover PVSB, see page 17.
- The required headroom **S** is decreased by 75 mm for external rolling shutters with lockable bottom profile ABP1/2 or SKS, see page 17.
- For some equipment combinations there is a loss of passage height, see page 17.
- The fitting depth **ET** is at least
  - 356 mm for doors with hand chain
  - 370 mm for doors with WA 250 R S4 or WA 300 R S4
  - 460 mm for doors with PVSB, see page 17
- Door widths
  - Max. 6000 mm: HG-L
  - Max. 5000 mm: Decotherm S, HR 120 A
  - Max. 4000 mm: HR 120 aero
  - Min. 1750 mm: HR 120 A, HR 120 aero
  - Min. 1000 mm: Decotherm S, HG-L
- Door heights:
  - Max. 4500 mm: Decotherm S, HR 120 A, HG-L
  - Max. 4000 mm: HR 120 aero
  - Min. 2000 mm: all curtains
- All curtains as standard with wind lock or extraction retainers
- Maximum number of cycles per day (24 h)
  - Max. 50: Decotherm S, HR 120 A, HG-L
  - Max. 10: HR 120 aero

### Maximum wind loads and door widths

	Maximum possible door widths			
	Wind load class 4 (1.0 kN/m² or 146 km/h)	Wind load class 3 (0.7 kN/m² or 120 km/h)	Wind load class 2 (0.45 kN/m² or 96 km/h)	Wind load class 1 (0.3 kN/m² or 80 km/h)
Decotherm S	5000	–	–	–
HR 120 A	3500	4000	5000	–
HR 120 aero	2750	3250	4000	–

### Note:

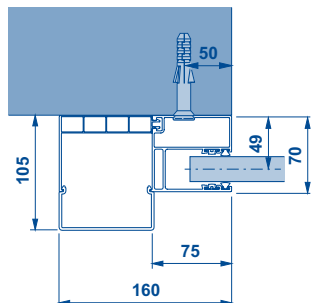
- Maximum wind load only for standard rolling shutters without window profiles or ventilation laths
- Wind load classes acc. to EN 12424

# SB Rolling Shutters / Rolling Grilles

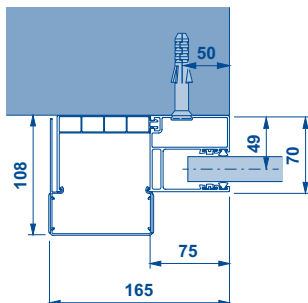
## Side guide FS 160

### Standard fitting

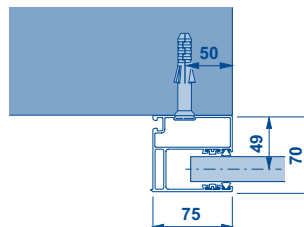
with spring chamber and AFK



with spring chamber and AFA



without spring chamber

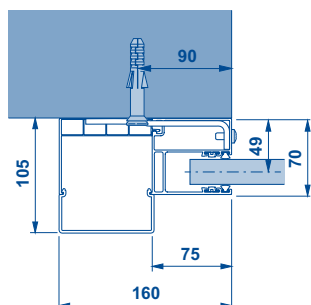


#### Notes:

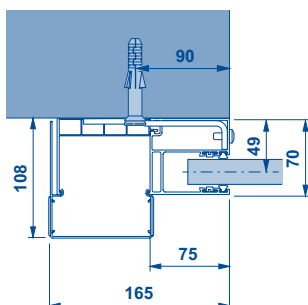
- Aluminium side guide with plastic spring chamber
- Spring chamber depending on curtain type and door size
  - only on the right side guide or the operator side
  - on the right and left side guide
- AFK (plastic spring chamber cover made)
- AFA (aluminium spring chamber cover) is optional

### Angle fitting

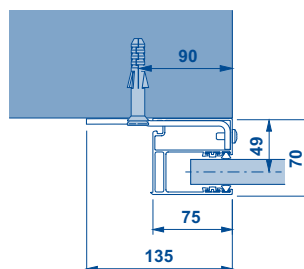
with spring chamber and AFK



with spring chamber and AFA



without spring chamber

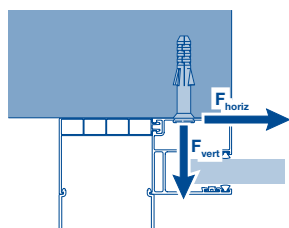


#### Notes:

- Optional
- No fitting by welding
- Not on brickwork
- Not on timber

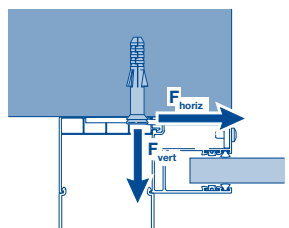
### Maximum load at the fixing point

#### Standard fitting



$q_{\text{horiz}}$ [kN/m]	3,75
$q_{\text{vert}}$ [kN/m]	2,5

#### Angle fitting



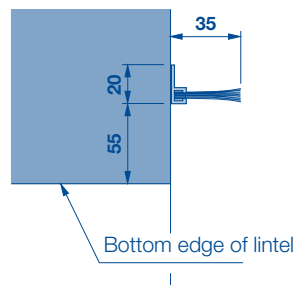
$q_{\text{horiz}}$ [kN/m]	1,0
$q_{\text{vert}}$ [kN/m]	3,0

# SB Rolling Shutters / Rolling Grilles

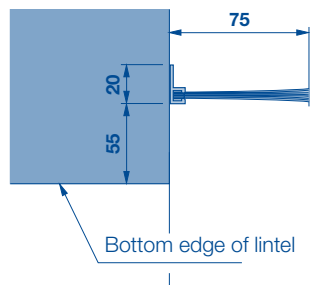
Lintel seals / support brackets / maximum loads at the fixing point / minimum requirements for the building structure / fascia panel SB / TGT

## Lintel seals

### SD2



### SD3

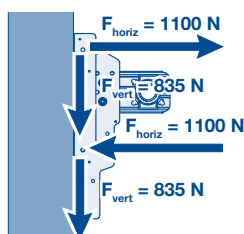
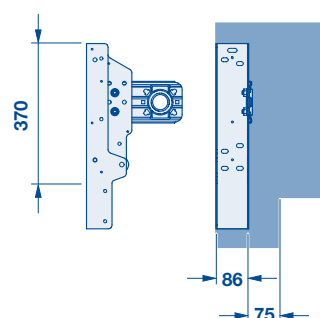


#### Notes:

- Subject to a surcharge for SB rolling shutters
- SD2 for door widths  $\leq 2500$  mm
- SD3 for door widths  $> 2500$  mm

## Support bracket / maximum load at the fixing point

## Minimum requirements for the building structure



$F_{\text{horiz}}$  = Horizontal force at the fixing point  
 $F_{\text{vert}}$  = Vertical force at the fixing point

#### Concrete

Strength class C 20/25

Thickness 140 mm

Domestic EN 206-1

#### Steel

Strength class S235-JRG2

Thickness 5 mm

Domestic EN 10027-1

#### Brickwork

Strength class 12 / mortar group II

Thickness 240 mm

Domestic DIN 1053-1

#### Timber

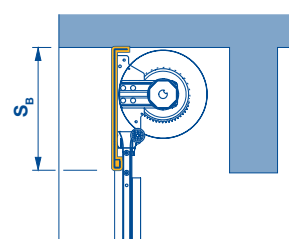
Coniferous wood C24/quality category II

Thickness 120 mm

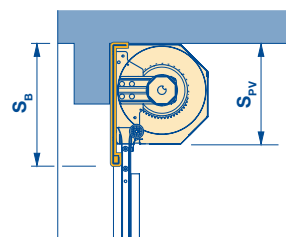
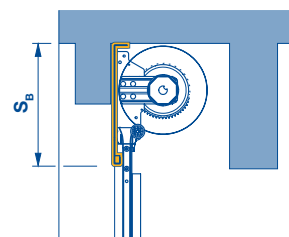
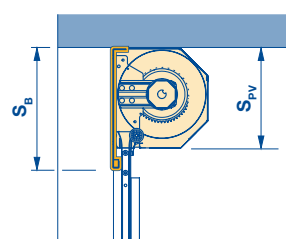
Domestic DIN 1052 (EC5)

## Fascia panel SB / TGT

### without PV



### with PV



#### Notes:

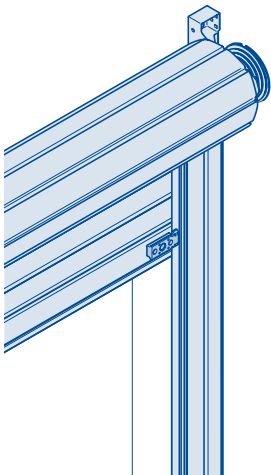
- The height of the fascia panel  $S_B$  exclusively depends on the size of the door system and is not determined by the lintel on the building structure. (Please take the accurate values from the product configurator)
- Rolling shutters / rolling grilles SB:  $S_B = S_{PV} + 75$  mm
- Rolling shutters / rolling grilles TGT:  $S_B = S_{PV}$
- Fitting always on the end wall

# SB Rolling Shutters / Rolling Grilles

## Actuation types

### Actuation types

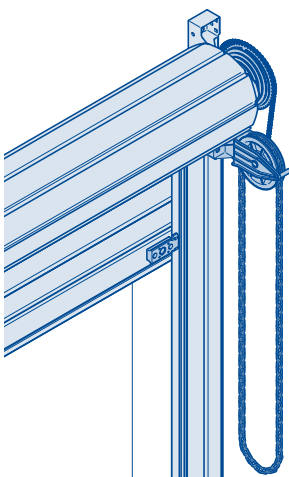
#### Grip handle



#### Note:

- No surcharge
- One handle each on the left and right of the bottom profile on the barrel side
- No actuation possible from the opposite barrel side

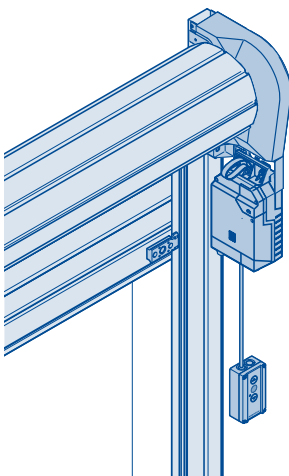
#### Chain hoist



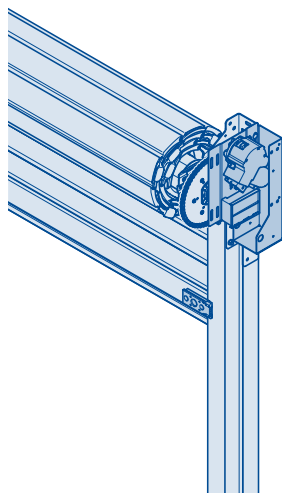
#### Note:

- Subject to surcharge
- No influence on
  - **PS**
  - **S**
  - Available door sizes
- Recommended for door systems with heights over 3500 mm
- No actuation possible from the opposite barrel side

#### WA 250 R S4 / WA 300 R S4



#### WA 300 AR S4



#### Note:

- Subject to surcharge
- No influence on available door sizes
- Recommended for door systems with heights over 3500 mm
- A curtain cover PVSB must be used with door systems with impulse operation and a door height ordering size below 2500 mm.

- 1) with operator WA 300 AR S4 on operator side in the lintel area 265 mm, opposite side and guide rails unchanged 165 mm

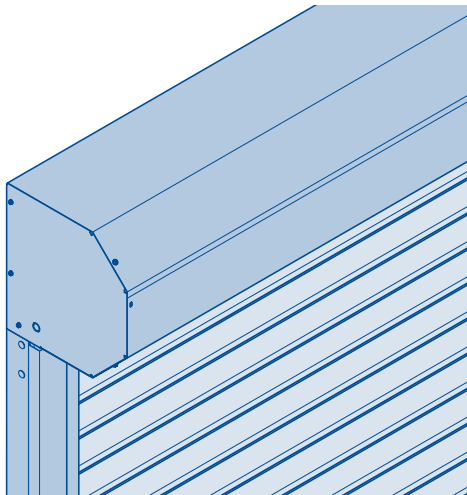


# SB Rolling Shutters / Rolling Grilles

## Curtain cover PVSB / loss of passage height

### curtain cover PVSB

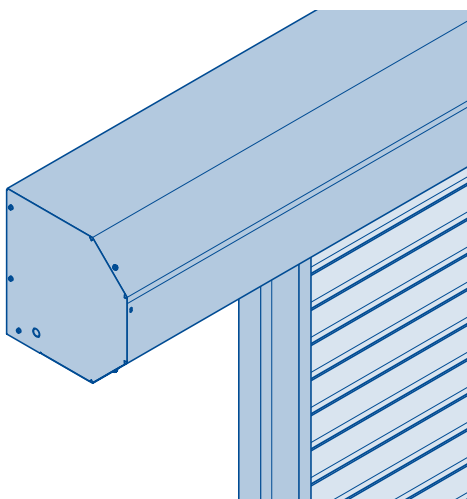
#### Without extension



#### Notes:

- Subject to surcharge
- The curtain cover PVSB with small sheet cover is used for:
  - Rolling shutters SB with door widths  $\leq 3000$  mm
  - Rolling grille SB
- The curtain cover PVSB with large sheet cover is used for:
  - Rolling shutters SB with door widths  $> 3000$  mm
- The curtain cover PVSB does not have an effect on **PS**.
- The required headroom **S** is at least:
  - 490 mm for PVSB with small sheet cover
  - 545 mm for PVSB with large sheet cover
- The fitting depth **ET** is at least:
  - 460 mm for PVSB with small sheet cover
  - 530 mm for PVSB with large sheet cover
- The combination of the curtain cover PVSB with the lockable bottom profile ABP1/2 lowers the passage height.
- Chamfering of the steel cover always towards the bottom
- Can be combined with fascia panel SB, see page 15

#### With extension

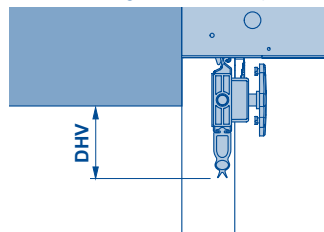


#### Notes:

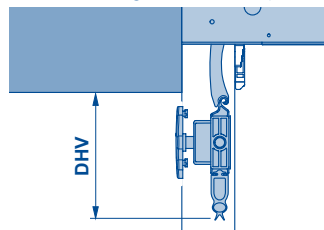
- Subject to surcharge
- Total width of PVSB including max. 6000 mm extension
- Extension only possible on the bearing side in combination with actuation type:
  - Chain hoist
  - WA 250 R S4
  - WA 300 R S4
- Extension possible on both sides in combination with actuation type:
  - Grip handle
  - WA 300 AR S4

### Loss of passage height

#### Internal rolling shutter example



#### External rolling shutter example

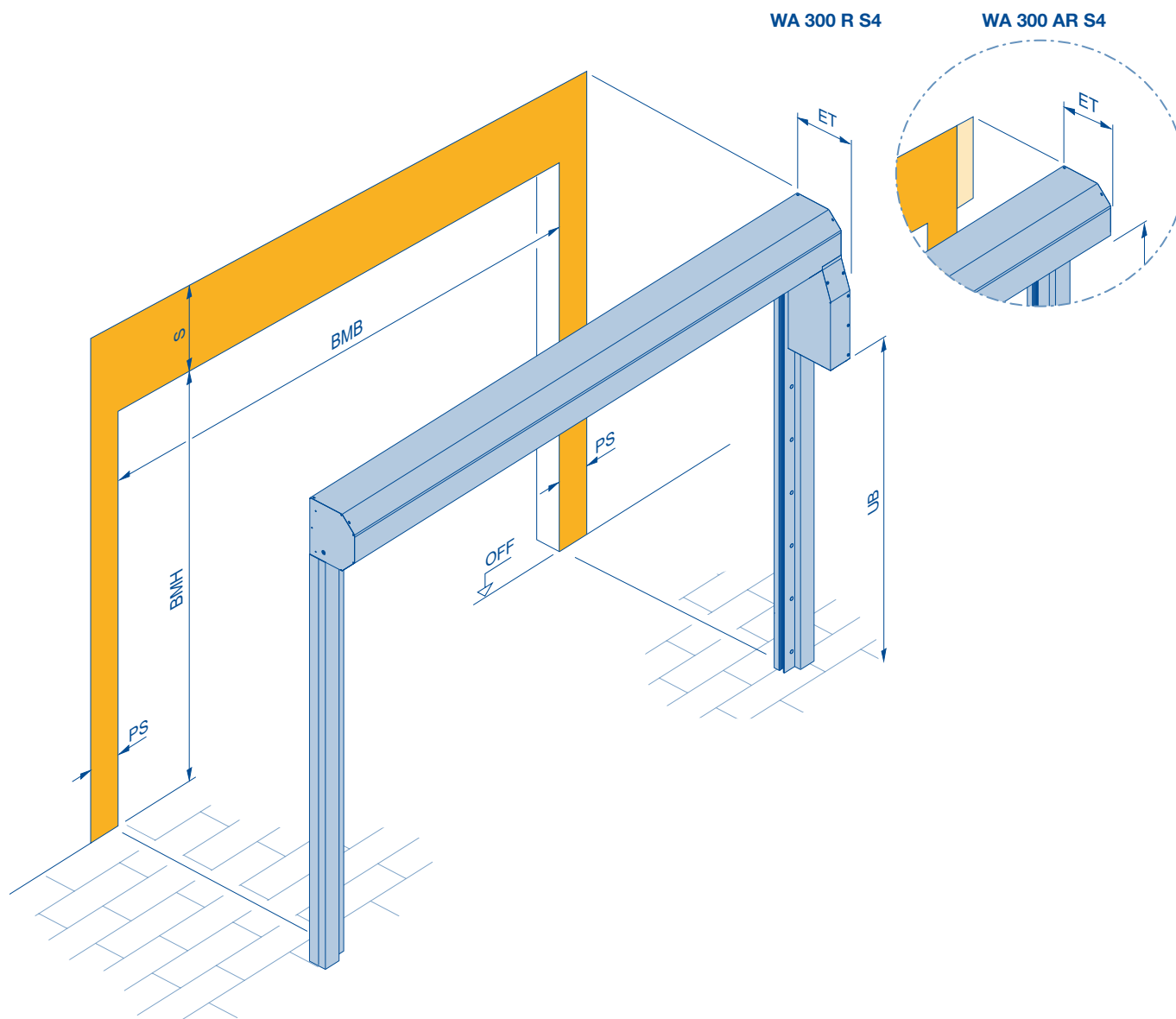


Version	Equipment	Loss of passage height (DHV)	Change of the required headroom
Internal rolling shutter	PVSB + shootbolt	50	0
	PVSB + ABP1 / 2	50	0
	PVSB + SKS	50	0
	Chamfered bottom profile	50 + difference dimension	0
	Chamfered bottom profile + PVSB + shootbolt / ABP / SKS	100 + difference dimension	0
External roller garage door	ABP1/2	125	-75
	SKS	75	-75
	Chamfered bottom profile	50 + difference dimension	0
	Chamfered bottom profile + ABP1 / 2	175 + difference dimension	0
	Chamfered bottom profile + SKS	125 + difference dimension	0

# Rolling shutters TGT / rolling grilles TGT

## Space requirement

### Fitting example with curtain cover PVTGT



Operator	PS	UB
WA 300 R S4	165	Door height - 440 mm
WA 300 AR S4	165/265 <sup>1)</sup>	Door height + 75 mm

1) with operator WA 300 AR S4 on operator side in the lintel area 265 mm, opposite side and guide rails unchanged 165 mm

**BMB** = Ordering size width  
**BMH** = Ordering size height  
**ET** = Fitting depth  
**OFF** = Finished floor level  
**PS** = Side space requirement  
**S** = Required headroom  
**UB** = Bottom edge actuation

#### Notes:

- The actuation type does not affect the following values:
  - Side space requirement **PS**
  - Required headroom **S**
  - Available door sizes
- Door widths
  - Max. 6000 mm: HG-L
  - Max. 5000 mm: Decotherm S
  - Min. 1000 mm: all curtains
- Door heights for all curtains:
  - max. 2400 mm
  - min. 2000 mm
- Maximum number of cycles per day (24 h)
  - Max. 300: Decotherm S
  - Max. 300: HG-L

# Rolling shutters TGT / rolling grilles TGT

## Table of standard values / boom FS 160 / lintel seal / support bracket / maximum load at the fixing point / loss of passage height

Table of standard values

### Door height

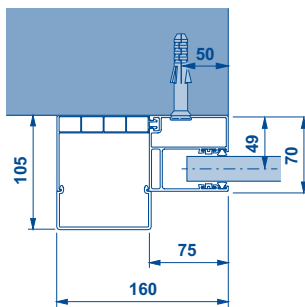
2400	365	370	398	378	335	370	385	370
2250	360	370	390	370	330	370	385	370
2000	355	370	385	370	325	370	385	370
Decotherm S				HG-L				
WA 300 R S4		WA 300 AR S4		WA 300 R S4		WA 300 AR S4		

123 = S (required headroom)  
123 = ET (minimum fitting depth)

### Notes:

- Required headroom **S** and fitting depth **ET** are independent of the door width.
- For doors with curtain cover PVTGT, the required headroom **S** is increased to
  - 380 mm for Decotherm S with WA 300 R S4
  - 415 mm for Decotherm S with WA 300 AR S4
  - 350 mm for HG-L WA 300 R S4
  - 380 mm for HG-L with protection against martens and WA 300 R S4
  - 415 mm for HG-L with WA 300 AR S4
- Required headroom **S** increases for doors HG-L with protection against martens to the values of Decotherm S.
- The fitting depth **ET** for all doors with curtain cover PVTGT is
  - 440 mm with WA 300 R S4
  - 460 mm with WA 300 AR S4
- All curtains as standard with wind lock or extraction retainers
- Chamfering of the steel cover with PVTGT always towards the bottom
- For fascia panel TGT details see page 15

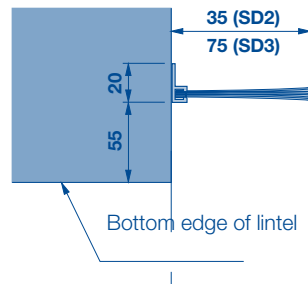
### Side guide FS 160



### Note:

- Aluminium side guide with plastic spring chamber
- For details and equipment variations see page 14
- Spring chamber depending on curtain type and door size
  - only on the right side guide or the operator side
  - on the right and left side guide
  - For dimensions see page 14

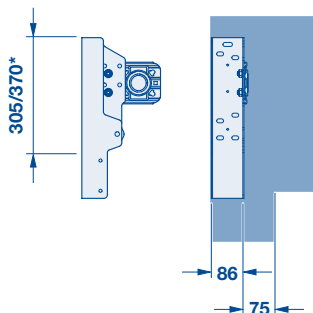
### Lintel seal SD2 / SD3



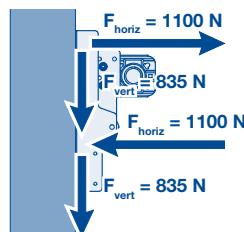
### Note:

- Subject to a surcharge for TGT rolling shutters
- SD2 for door widths ≤ 2500 mm
- SD3 for door widths > 2500 mm

### Support bracket / maximum load at the fixing point



$F_{horiz}$  = Horizontal force at the fixing point  
 $F_{vert}$  = Vertical force at the fixing point  
\* = 370 mm for WA 300 AR S4



### Minimum requirements for the building structure

#### Concrete

Strength class C 20/25  
Thickness 140 mm  
Domestic EN 206-1

#### Steel

Strength class S235-JRG2  
Thickness 5 mm  
Domestic EN 10027-1

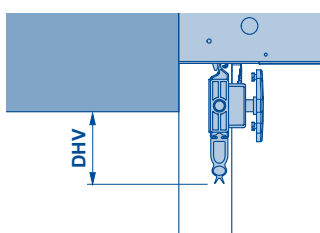
#### Brickwork

Strength class 12 / mortar group II  
Thickness 240 mm  
Domestic DIN 1053-1

#### Timber

Coniferous wood: C24 / quality category II  
Thickness 120 mm  
Domestic DIN 1052 (EC5)

### Loss of passage height

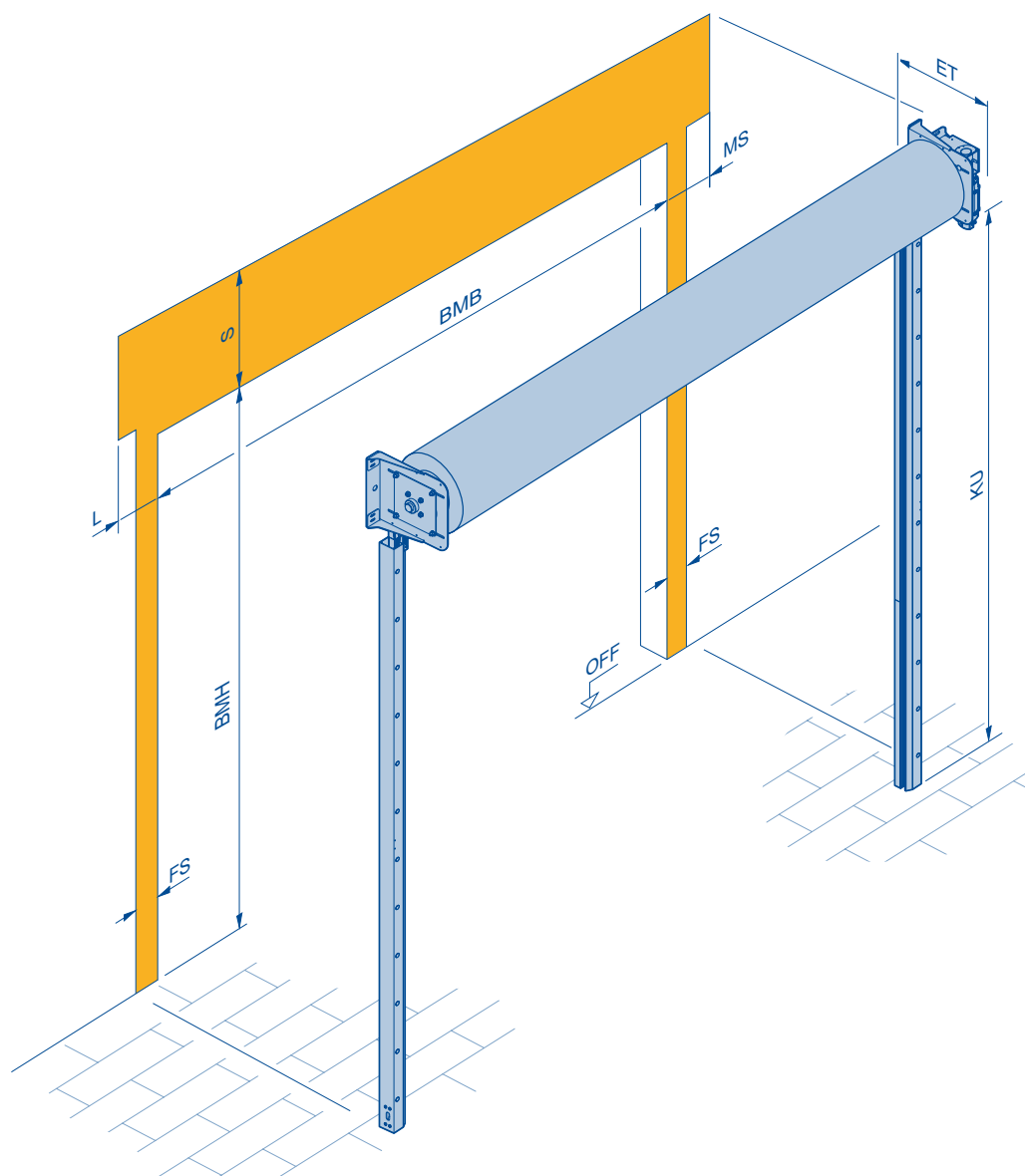


Version	Equipment	Loss of passage height (DHV)	Change of the required headroom
Internal rolling shutter / external rolling shutter	ABP	125	0
	Chamfered bottom profile	50 + difference dimension	0
	Chamfered bottom profile + ABP	175 + difference dimension	0

# Rolling shutters DD / rolling grilles DD

## Space requirement

### Fitting example with suspended operator



L	MS	FS	KU	L	MS	FS	KU
For doors with <b>support bracket 40</b>				For doors with <b>support bracket 60</b>			
160	260	80 <sup>1)</sup>	5)	180	280	80 <sup>1)</sup>	5)
240 <sup>2)</sup>	420 <sup>2)</sup>			260 <sup>2)</sup>	440 <sup>2)</sup>		
160 <sup>3)</sup>	290 <sup>3)</sup>	103 <sup>3)</sup>	5)	180 <sup>3)</sup>	290 <sup>3)</sup>	106 <sup>3)</sup>	5)
240 <sup>4)</sup>	450 <sup>4)</sup>			260 <sup>4)</sup>	450 <sup>4)</sup>		

- 1) Standard fitting without a bracket
- 2) Space requirement for dismantling from the side
- 3) Space requirement in conjunction with accessory package S6
- 4) Space requirement for dismantling from the side in conjunction with accessory package S6
- 5) Dimension depends on door size.

**BMB** = Ordering size width  
**BMH** = Ordering size height  
**ET** = For fitting depth, see tables from page 32  
**FS** = Sideroom for boom  
**KU** = Support bracket dimension bottom

#### Notes:

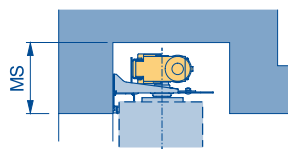
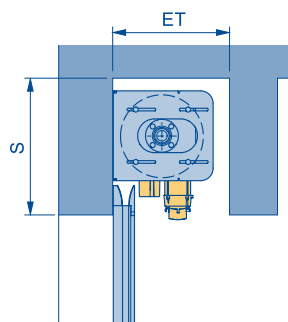
- The fitting example shows the arrangement of the operator from the right as seen from the inside. An arrangement on the left is also available on request.
- For external rolling shutters, the operator side is determined from the outside.

**L** = Sideroom on bearing side  
**MS** = Sideroom on motor side for direct drive operators  
**OFF** = Finished floor level  
**S** = For required headroom, see tables from page 32

# Rolling shutters DD / rolling grilles DD

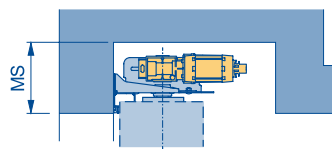
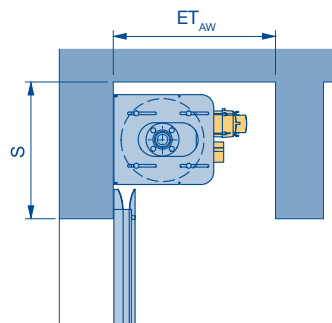
## Space requirement behind the lintel

### Operator vertical to the bottom



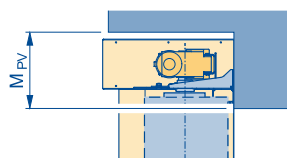
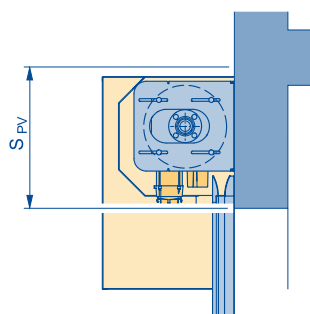
- S** = See tables of standard values from page 32  
**ET** = See tables of standard values from page 32  
**MS** = See page 20

### Horizontal operator



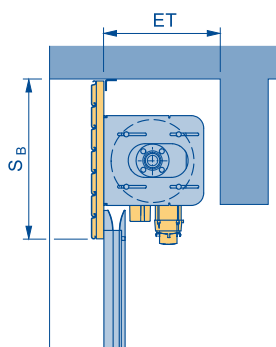
- S** = See tables of standard values from page 32  
**ET<sub>AW</sub>** = max. 950  
**MS** = See page 20

### Rolling shutter DD with PVDD and VDD



- S<sub>PV</sub>** = **S** + 75  
**M<sub>PV</sub>** = 290 / 310<sup>3)</sup>

### Rolling shutter DD with fascia panel



- S<sub>B</sub>** = Observe the fitting dimensions of the profiles (see page 4)

#### Note:

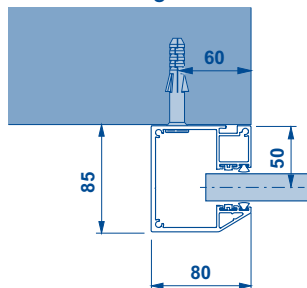
- Please request **ET** for doors with special operators via the product configurator.

# Rolling shutters DD / rolling grilles DD

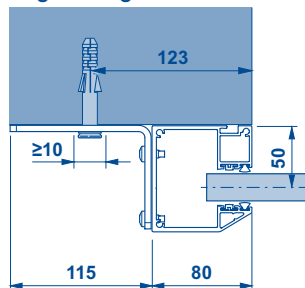
## Side guide FS 80

### Fitting without support profile

#### Standard fitting



#### Angle fitting

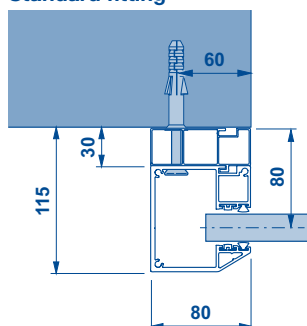


#### Note:

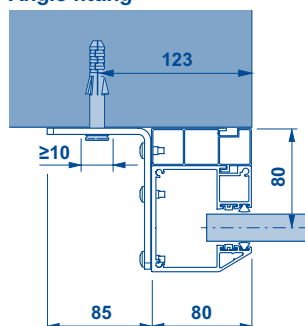
- For the number of support profiles see tables from 32
- Angle fitting
  - Optional
  - Fitting by welding possible
  - Not on brickwork
  - Not in conjunction with accessory package S6
  - Not in conjunction with accessory package W4

### Fitting with support profile

#### Standard fitting



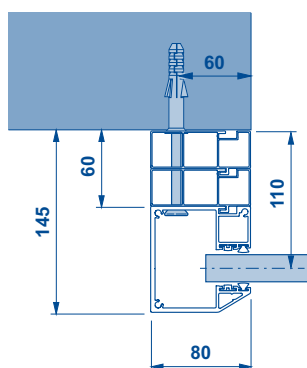
#### Angle fitting



#### Note:

- For the number of support profiles see tables from 32
- Angle fitting
  - Optional
  - Fitting by welding possible
  - Not on brickwork
  - Not in conjunction with accessory package S6
  - Not in conjunction with accessory package W4

### Fitting with two support profiles

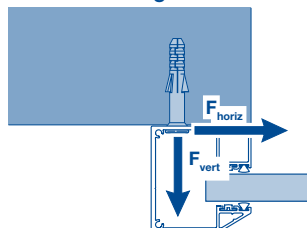


#### Note:

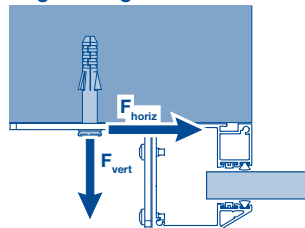
- For the number of support profiles see tables from 32
- Angle fitting not possible

### Maximum load at the fixing point

#### Standard fitting



#### Angle fitting



Door width	DD / DD S6	
	q <sub>horiz</sub> [kN/m]	q <sub>vert</sub> [kN/m]
≤ 5000 mm	3,75	2,5
> 5000 mm	10,5	3,5

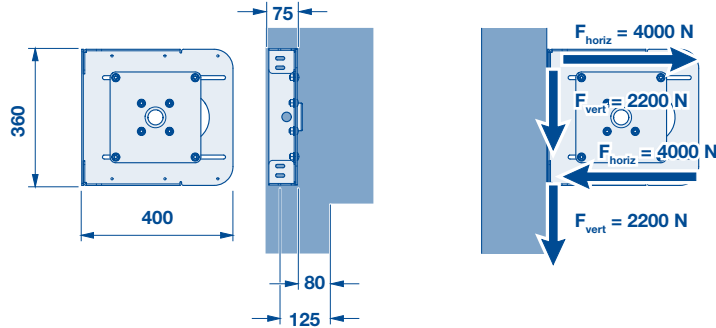
Door width	DD W4	
	q <sub>horiz</sub> [kN/m]	q <sub>vert</sub> [kN/m]
≤ 8000 mm	13,5	4,0
> 8000 mm ≤ 10000 mm	18,5	5,0
> 10000 mm	30,0	6,0

# Rolling shutters DD / rolling grilles DD

## Support brackets / maximum loads at the fixing point / minimum requirements for the building structure

### Support brackets

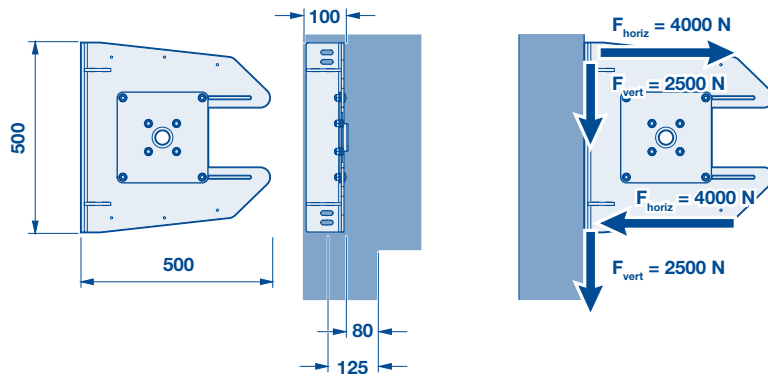
#### Support bracket 40



#### Note:

- Use depends on
  - Operator size
  - Barrel diameter

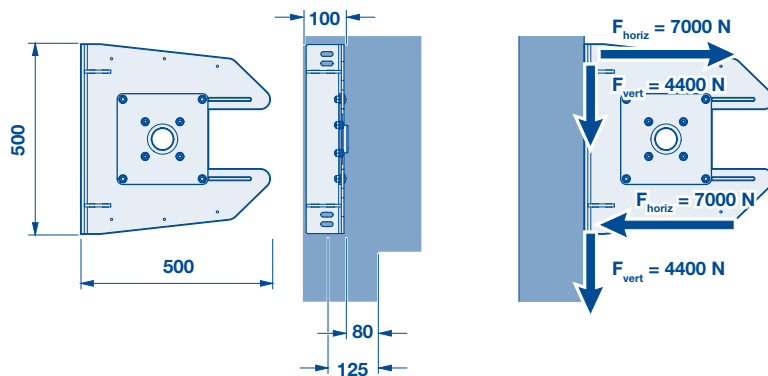
#### Support bracket 40-2



#### Note:

- Use depends on
  - Operator size
  - Barrel diameter

#### Support bracket 60



#### Note:

- Use depends on
  - Operator size
  - Barrel diameter

### Minimum requirements for the building structure

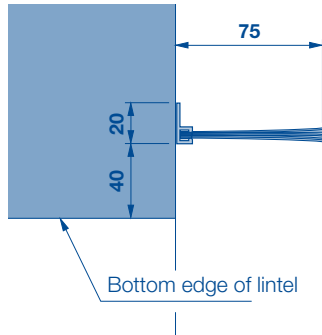
Door type	Concrete	Steel		Brickwork	Timber	
<b>DD / DD S6</b>	Strength class C 20 / 25 EN 206-1  Thickness $\geq 140 \text{ mm}$ Door width $\leq 12000 \text{ mm}$	Strength class S235-JRG2 EN 10027-1  Thickness $\geq 5 \text{ mm}$ Door width $\leq 12000 \text{ mm}$		Strength class 12 / mortar group II DIN 1053-1  Thickness $\geq 240 \text{ mm}$ Door width $\leq 12000 \text{ mm}$	Coniferous wood C24 / quality category II DIN 1052 (EC5)  Thickness $\geq 120 \text{ mm}$ Door width $\leq 12000 \text{ mm}$	
<b>DD W4</b>	Strength class C 20 / 25 EN 206-1  Thickness $\geq 140 \text{ mm}$  Door width $\leq 6500 \text{ mm}$	Strength class S235-JRG2 EN 10027-1  Thickness $\geq 5 \text{ mm}$ Door width $\leq 6500 \text{ mm}$	Thickness $\geq 10 \text{ mm}$  Door width $\leq 10000 \text{ mm}$	Strength class 12 / mortar group II DIN 1053-1  Thickness $\geq 240 \text{ mm}$  Door width $\leq 6500 \text{ mm}$	Coniferous wood C24 / quality category II  Thickness $\geq 120 \text{ mm}$ DIN 1052 (EC5)  Door width $\leq 6500 \text{ mm}$	Glued laminated timber GL24h  Door width $\leq 10000 \text{ mm}$

# Rolling shutters DD / rolling grilles DD

## Lintel seals / weld-on plates for support brackets / break-in-resistant locks

### Lintel seals

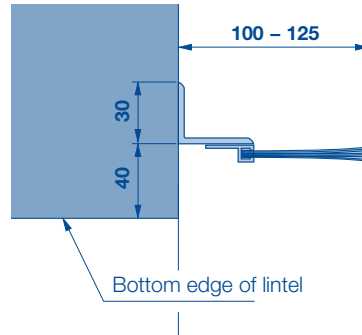
#### SD3



#### Note:

- For rolling shutters without support profile

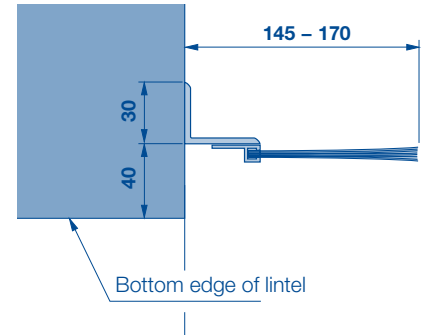
#### SD4-1



#### Note:

- For rolling shutters with 1 or 2 support profiles, depending on door width and barrel diameter
- Cover width adjustable

#### SD4-2

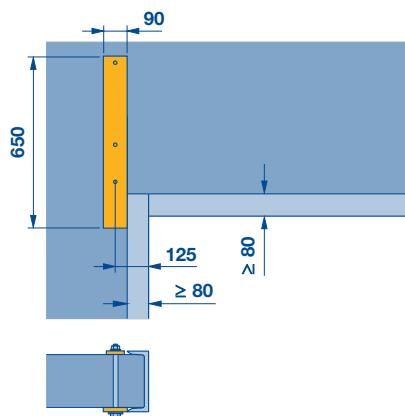


#### Note:

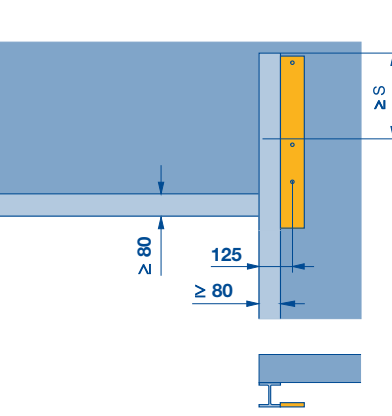
- For rolling shutters with 1 or 2 support profiles, depending on door width and barrel diameter
- Cover width adjustable

### Weld-on plates for support brackets

#### Lightweight construction weld-on plates



#### Steel construction weld-on plates

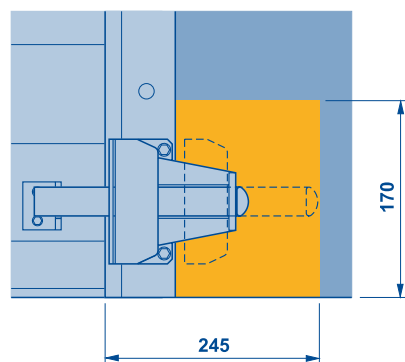


#### Note:

- For fixing by using a supporting lightweight construction, a subframe made of steel is required
- Weld-on plates are subject to surcharge
- For fitting by welding for side guides see page 22

### Break-in-resistant locks

#### Shootbolt



#### Note:

- Break-in-resistant locks subject to surcharge
- Lockable bottom profiles do not have any influence on the fitting space at the sides
- Lockable bottom profile not in conjunction with accessory package S6
- Shootbolts not for rolling grilles and exterior rolling shutters
- Shootbolt either on the barrel side to the left, right or on both sides



# Rolling shutters DD / rolling grilles DD

## Maximum wind loads / maximum number of cycles per day

### Maximum wind loads and door widths

DD	Maximum possible door widths			
	Wind load class 4 (1.0 kN/m <sup>2</sup> or 146 km/h)	Wind load class 3 (0.7 kN/m <sup>2</sup> or 120 km/h)	Wind load class 2 (0.45 kN/m <sup>2</sup> or 96 km/h)	Wind load class 1 (0.3 kN/m <sup>2</sup> or 80 km/h)
Decotherm S	≤ 6500	≤ 8500	≤ 12000	–
HR 120 A	≤ 4250	≤ 5500	≤ 7500	≤ 10250
HR 120 aero	≤ 3250	≤ 4250	≤ 5500	≤ 7500

#### Note:

- Maximum wind load only for standard rolling shutters without window profiles and ventilation laths or accessory package S6
- Wind load classes acc. to EN 12424

DD W4	Maximum possible door widths			
	Wind load class 4 (1.0 kN/m <sup>2</sup> or 146 km/h)	Wind load class 3 (0.7 kN/m <sup>2</sup> or 120 km/h)	Wind load class 2 (0.45 kN/m <sup>2</sup> or 96 km/h)	Wind load class 1 (0.3 kN/m <sup>2</sup> or 80 km/h)
Decotherm S	≤ 12000	–	–	–

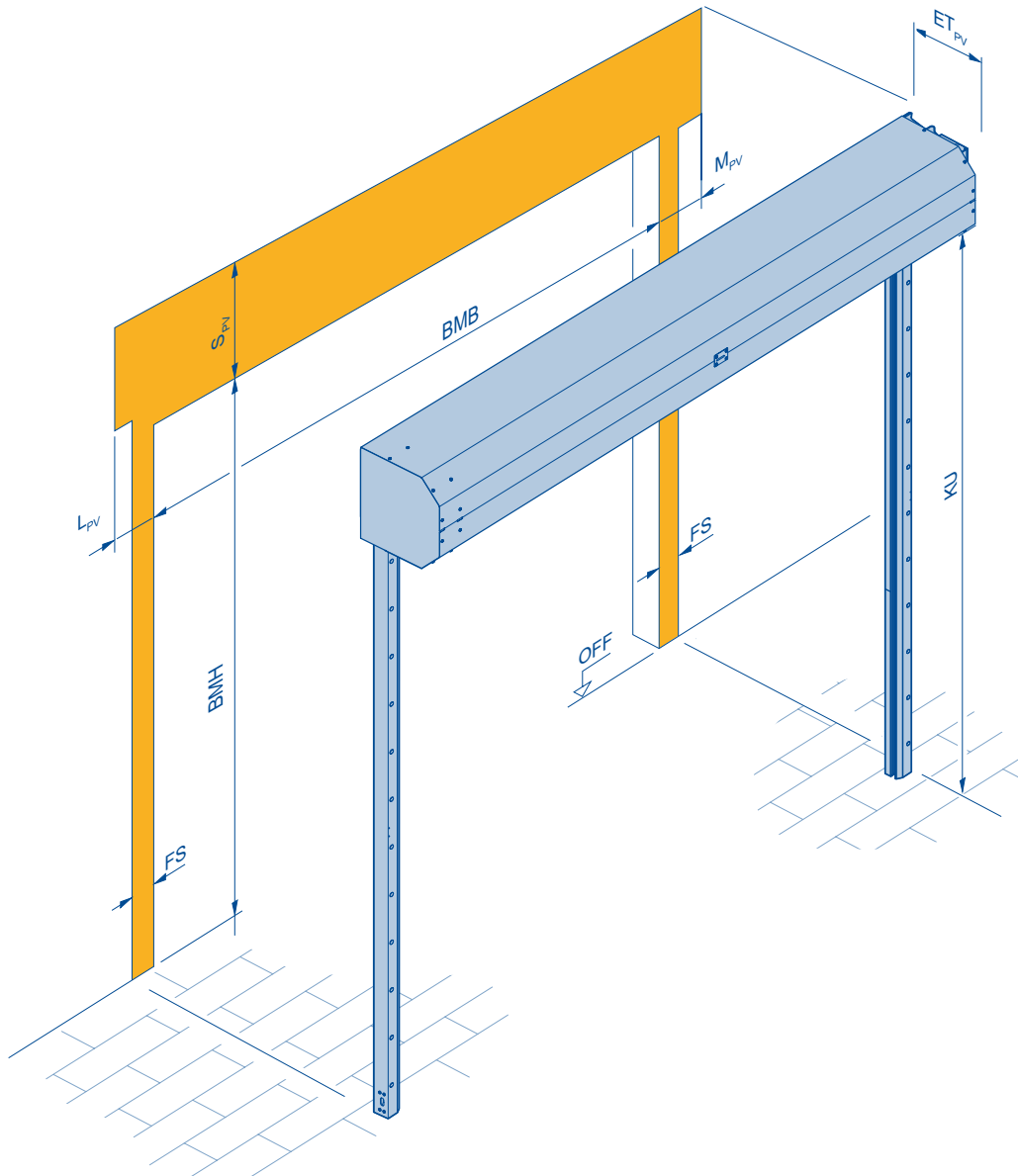
### Maximum number of cycles per day (24 h)

	Operators DD		Operators DD S6
	DD17, DD25, DD30, DD40, DD50, DD65, DD100, DD160	DD180	DD17.60, DD25.60, DD4040
Decotherm S	75	50	300
HR 120 A	75	–	–
HR 120 aero	10	–	–
HG-L	75	–	–
HG-V	75	50	–
HG-S	75	50	–

# Rolling shutters DD / rolling grilles DD

## Curtain cover PVDD without VDD

### Fitting example with suspended operator



#### Application range:

Door systems with impulse control and door ordering height below 2500 mm.

<b>BMB</b>	= Ordering size width
<b>BMH</b>	= Ordering size height
<b>ET<sub>PV</sub></b>	= Fitting depth for door with curtain cover
<b>FS</b>	= Sideroom for boom
<b>KU</b>	= Support bracket dimension bottom
<b>L<sub>PV</sub></b>	= Bearing side sideroom with curtain cover
<b>M<sub>PV</sub></b>	= Motor side sideroom with curtain cover
<b>OFF</b>	= Finished floor level
<b>S</b>	= For required headroom, see tables from page 32
<b>S<sub>PV</sub></b>	= Required headroom for doors with curtain cover

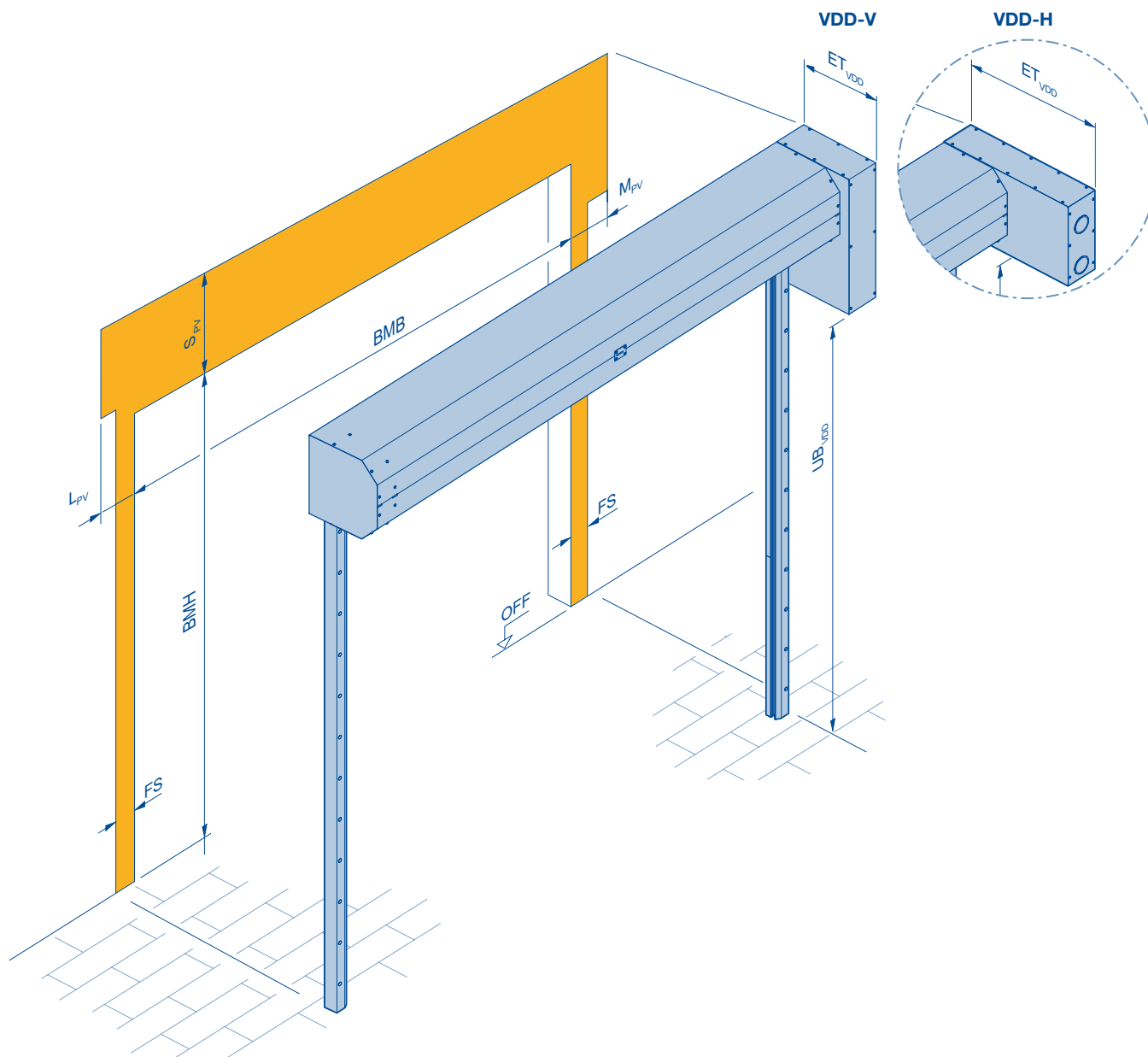
#### Notes:

- PVDD without VDD-V / VDD-H has no impacts on the sideroom
- **M<sub>PV</sub> = MS** on the operator side (see page 20)
- **L<sub>PV</sub> = 195**
- **S<sub>PV</sub> = S + max. 75** (see table from page 32)
- **ET<sub>PV</sub> = max. 705**
- PVDD without VDD-V / VDD-H complies with the legal requirements of a trap guard
- Sheet always chamfered towards the bottom
- No reduction of the clear passage height

# Rolling shutters DD / rolling grilles DD

## Curtain cover PVDD with VDD-H / VDD-V

Fitting example with operator on the right side



### Application range:

Door systems requiring weather or contamination protection.

L <sub>pv</sub>	M <sub>pv</sub>	UB <sub>vdd</sub>
195	290	Door height – 400
195 <sup>1)</sup>	310 <sup>1)</sup>	Door height – 400 <sup>1)</sup>

1) Space requirement in conjunction with accessory package S6

**BMB** = Ordering size width  
**BMH** = Ordering size height  
**ET<sub>vdd</sub>** = Fitting depth for door with curtain cover VDD-V/VDD-H  
**FS** = Sideroom for boom  
**L<sub>pv</sub>** = Bearing side sideroom with curtain cover  
**M<sub>pv</sub>** = Motor side sideroom with curtain cover  
**OFF** = Finished floor level  
**S** = For required headroom, see tables from page 32  
**S<sub>pv</sub>** = Required headroom for doors with curtain cover  
**UB<sub>vdd</sub>** = Bottom edge actuation with VDD-V/VDD-H

### Notes:

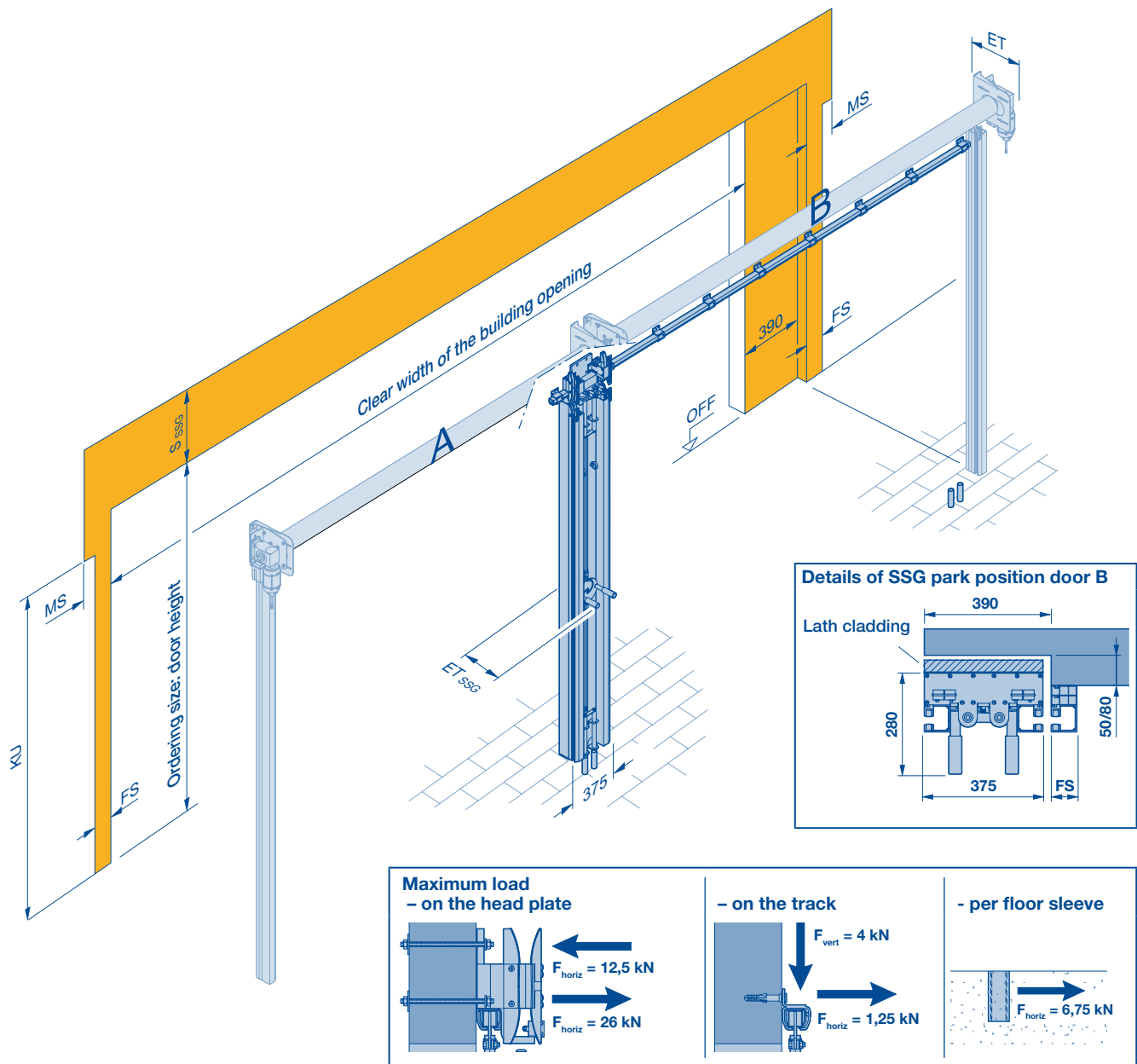
- **S<sub>pv</sub> = S + max. 75** (see table from page 32)
- **ET<sub>pv</sub> = max. 705**
- **VDD-V**
  - Operator position always vertical to the bottom
  - **ET<sub>vdd</sub> = max. 705**
- **VDD-H**
  - Operator position always horizontal
  - **ET<sub>vdd</sub> = max. 1630**
- PVDD with VDD-V/VDD-H complies with the legal requirements of a trap guard
- PVDD sheet always chamfered towards the bottom
- No reduction of the clear passage height
- For external rolling shutters:
  - Fitting of the controller and SKS housing on the rear side of the end wall
  - For changes to the profile views, see page 4

# Rolling shutters DD / rolling grilles DD

## SSG DD

### Park position behind the opening

Fitting example with 2 doors and park position to the right



Max. clear width of the building opening	Profile types / Curtain types
35970 mm <sup>3)</sup>	Decotherm S, HR 120 A, HR 120 aero <sup>1)</sup> , HG-V <sup>2)</sup> , HG-S <sup>2)</sup>
26970 mm	HG-L
Max. clear height of the building opening	
9000 mm <sup>3)</sup>	Decotherm S
8000 mm <sup>3)</sup>	HR 120 A, HR 120 aero, HG-V, HG-S
5000 mm	HG-L

- 1) Only permissible for internal doors  
 2) Only permissible for doors with press-and-hold control  
 3) Max. dimensions of individual doors, see tables from page 32

**ET** = For fitting depth, see tables from page 32  
**ET<sub>SSG</sub>** = Fitting depth for SSG  
**F<sub>vert</sub>** = Vertical force at the fixing point  
**F<sub>horiz</sub>** = Horizontal force at the fixing point  
**FS** = Sideroom for boom

#### Notes:

- Available for coupling two or three doors
- Same profile version for all doors
- The park position can be selected either to the right or left behind the building opening
- Not available:
  - as an external rolling shutter
  - in conjunction with chamfered bottom profile or fascia panels
  - in conjunction with accessory package S6
- Doors less than 2500 mm and rolling grille only with press-and-hold control
- SSG** = S + max. 350 mm, **ET<sub>SSG</sub>** = 280 mm
- The siderooms (**FS**, **MS**) increase by 390 mm each for door B (for dimensions, see page 20).
- The maximum wind load of the door combination depends on the door widths and the height of the building opening.
- Product ID in the configurator: SSGDD

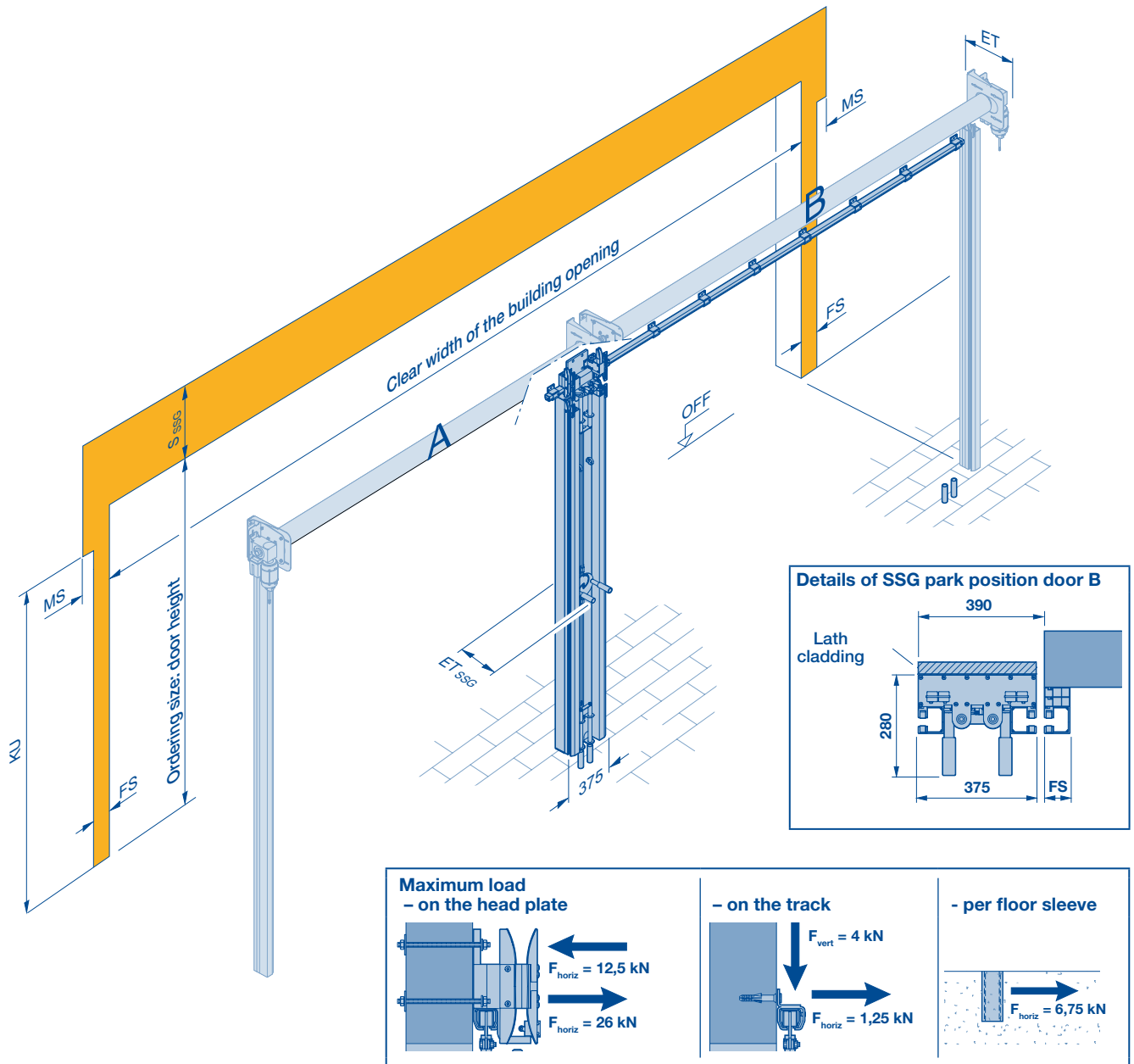
**KU** = Support bracket dimension bottom  
**MS** = Sideroom on motor side for direct drive operators  
**S** = For required headroom, see tables from page 32  
**SSG** = Required headroom for doors with SSG  
**OFF** = Finished floor level

# Rolling shutters DD / rolling grilles DD

## SSG DD

### Park position in the opening

Fitting example with 2 doors and park position to the right



Max. clear width of the building opening	Profile types Curtain types
36740 mm <sup>3</sup>	Decotherm S, HR 120 A, HR 120 aero <sup>1)</sup> , HG-V <sup>2)</sup> , HG-S <sup>2)</sup>
27790 mm	HG-L
Max. clear height of the building opening	
9000 mm <sup>3</sup>	Decotherm S
8000 mm <sup>3</sup>	HR 120 A, HR 120 aero, HG-V, HG-S
5000 mm	HG-L

1) Only permissible for internal doors

2) Only permissible for doors with press-and-hold control

3) Max. dimensions of individual doors, see tables from page 32

ET = Fitting depth See tables from page 32

ET<sub>SSG</sub> = Fitting depth for SSG

F<sub>vert</sub> = Vertical force at the fixing point

F<sub>horiz</sub> = Horizontal force at the fixing point

FS = Sideroom for boom

#### Notes:

- Available for coupling two or three doors
- Same profile version for all doors
- The park position can be selected either to the right or left in the building opening
- Not available:
  - as an external rolling shutter
  - in conjunction with chamfered bottom profile or fascia panels
  - in conjunction with accessory package S6
- Doors less than 2500 mm and rolling grille only with press-and-hold control
- S<sub>SSG</sub> = S + max. 350 mm, ET<sub>SSG</sub> = 280 mm
- The siderooms (FS, MS) increase by 390 mm each for door B (for dimensions, see page 20)
- The maximum wind load of the door combination depends on the door widths and the height of the building opening.
- Product ID in the configurator: SSGDD

KU = Support bracket dimension bottom

MS = Sideroom on motor side for direct drive operators

S = For required headroom, see tables from page 32

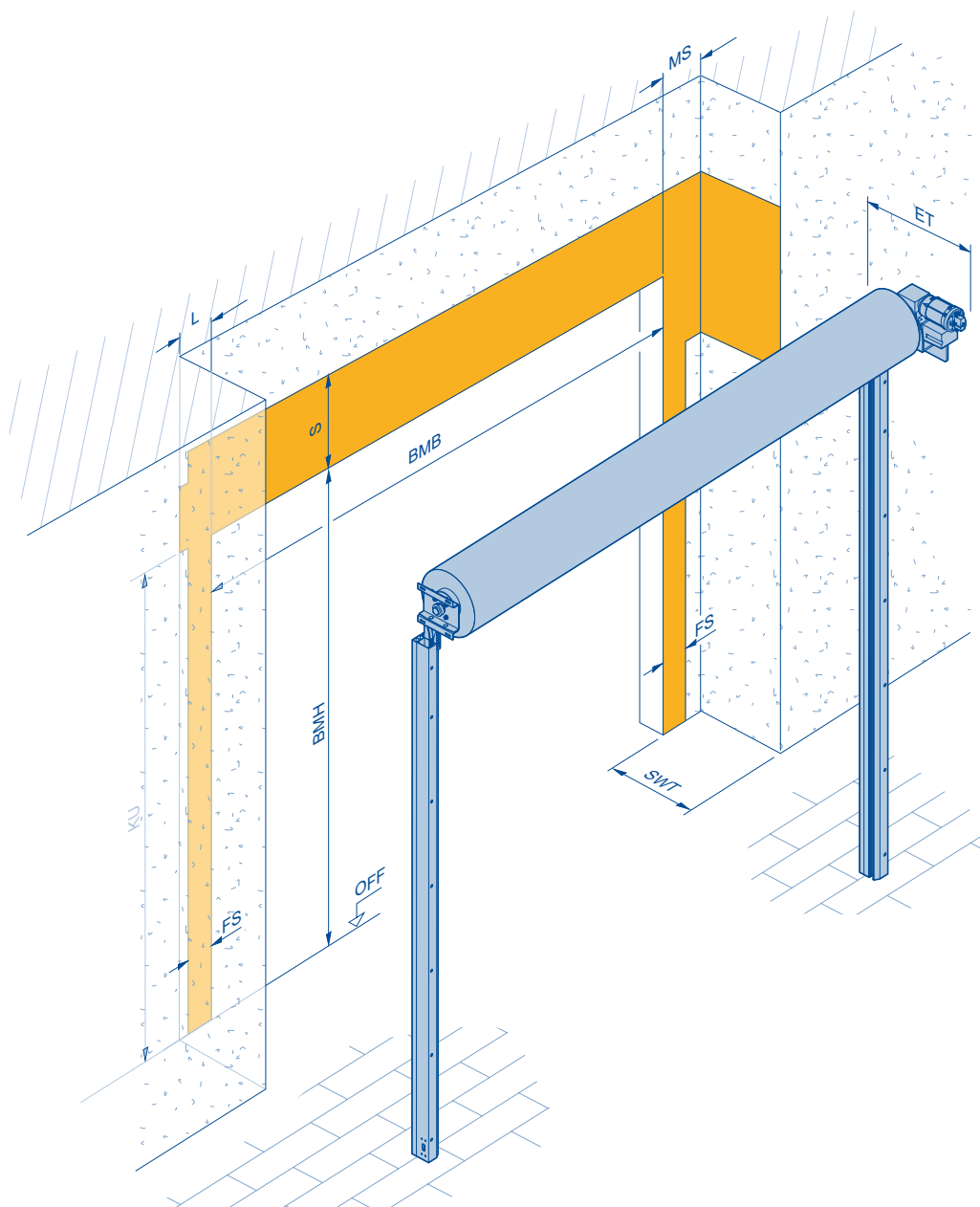
S<sub>SSG</sub> = Required headroom for doors with SSG

OFF = Finished floor level

# Rolling shutters DD / rolling grilles DD

## Wall brackets WK40 / WK60 / WK40A

### Fitting example with wall bracket on the bearing and operator side



Support bracket	L	MS	FS	KU
WK40	120	260	80 <sup>1)</sup>	3)
	120 <sup>2)</sup>	290 <sup>2)</sup>	103 <sup>2)</sup>	
WK60	120	280	80 <sup>1)</sup>	
WK40A	120	260	80 <sup>1)</sup>	

1) Standard fitting without a bracket

2) Space requirement in conjunction with accessory package S6

3) Dimension depends on door size.

**BMB** = Ordering size width

**BMH** = Ordering size height

**ET** = For fitting depth, see tables from page 32

**FS** = Sideroom for boom

**KU** = Support bracket dimension bottom

#### Notes:

- A barrel extension is required for siderooms larger than **L / MS**.
- **SWT** dependent on door size and equipment; please refer to the product configurator for the exact value.

**L** = Sideroom on bearing side

**MS** = Sideroom on motor side for direct drive operators

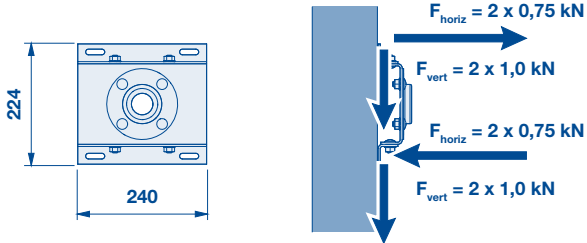
**OFF** = Finished floor level

**S** = For required headroom, see tables from page 32

**SWT** = Side wall depth

## Wall brackets bearing side

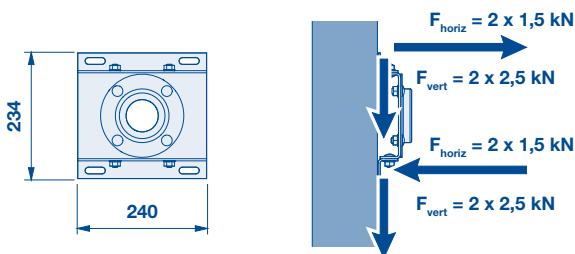
### Support bracket WK40



#### Note:

- For doors with operators:
  - DD17
  - DD25
  - DD30
  - DD40
  - DD50
  - DD65

### Support bracket WK60

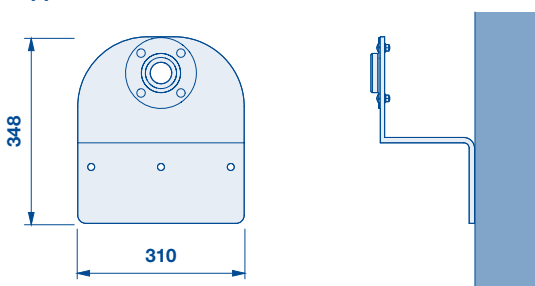


#### Note:

- For doors with operators:
  - DD100
  - DD160
  - DD180

## Wall bracket operator side

### Support bracket WK40A



#### Note:

- For doors with operators:
  - DD17
  - DD25
  - DD30
  - DD40
  - DD50
  - DD65
- Only horizontal operator fitting possible
- Cannot be combined with
  - PVDD
  - Accessory package S6
- The forces on fixing points depend on the door size and door equipment; if necessary, please request the precise values via the product configurator.

[illegible]

DD180
DD160
DD100
DD65
DD50
DD40
DD30
DD25
DD17

123 = **ET** (fitting depth)

- All standard values only apply to standard version doors with suspended operators.
- Minimum door width 1000 mm
- Minimum door height 1000 mm



## Support profiles

[illegible]



# Rolling Shutter DD

## Table of standard values

### Decotherm S with accessory package S6

#### Door height

9000																					
8750																					
8500	850	636																			
8250	819	625																			
8000	819	625																			
7750	819	625																			
7500	819	625	819	625																	
7250	770	596	770	596	770	596	770	596													
7000	770	596	770	596	770	596	770	596													
6750	770	596	770	596	770	596	770	596	770	596											
6500	770	596	770	596	770	596	770	596	770	596											
6250	770	596	770	596	770	596	770	596	770	596	770	596									
6000	743	589	743	589	743	589	743	589	743	589											
5750	729	575	729	575	729	575	729	575	729	575											
5500	729	575	729	575	729	575	729	575	729	575	729	575									
5250	729	575	729	575	729	575	729	575	729	575	729	575									
5000	699	565	699	565	699	565	699	565	699	565	699	565	699	565	699	565					
4750	663	467	663	549	663	549	663	549	663	549	663	549	663	549	663	549					
4500	657	461	657	461	657	543	657	543	657	543	657	543	657	543	657	543	657	543			
4250	657	461	657	461	657	543	657	543	657	543	657	543	657	543	657	543	657	543	657	543	
4000	657	461	657	461	657	543	657	543	657	543	657	543	657	543	657	543	657	543	657	543	
3750	652	456	652	456	652	538	652	538	652	538	652	538	652	538	652	538	652	538	652	538	
3500	619	443	619	443	619	443	619	525	619	525	619	525	619	525	619	525	619	525	619	525	
3250	619	443	619	443	619	443	619	525	619	525	619	525	619	525	619	525	619	525	619	525	
3000	619	443	619	443	619	443	619	525	619	525	619	525	619	525	619	525	619	525	619	525	
2750	619	443	619	443	619	443	619	525	619	525	619	525	619	525	619	525	619	525	619	525	
2500	595	424	595	424	595	424	595	424	595	424	595	424	595	424	595	424	595	424	595	424	
2250																					
	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250

#### Door width

#### Operator

DD40.40
DD25.60
DD17.60

123 = S (required headroom)

123 = ET (fitting depth)

#### Notes:

- All standard values only apply to standard version doors with suspended operators.
- Minimum door width 1000 mm
- Minimum door height 2500 mm

[illegible][illegible]

[illegible]

## Operator

DD180
DD160
DD100
DD65
DD50
DD40
DD30
DD25
DD17

$$123 = S \text{ (required headroom)}$$

123 = **ET** (fitting depth)

**Note:**

- All standard values only apply to standard version doors with suspended operators.
- Minimum door width 1750 mm
- Minimum door height 1000 mm

## Support profiles

[illegible]



## Table of standard values

## HR 120 aero

[illegible]

## Operator

DD180
DD160
DD100
DD65
DD50
DD40
DD30
DD25
DD17

**$123 = S$  (required headroom)**

123 = **ET** (fitting depth)

**Note:**

- All standard values only apply to standard version doors with suspended operators.
- Minimum door width 1750 mm
- Minimum door height 1000 mm

Door no longer fulfils wind load class 2 (EN 12424)

[illegible]



## Table of standard values

## HG-L

[illegible]

### Door width

DD180
DD160
DD100
DD65
DD50
DD40
DD30
DD25
DD17

**$^{123} = S$  (required headroom)**

123 = **ET** (fitting depth)

- All standard values only apply to standard version doors with suspended operators.
- Minimum door width 1000 mm
- Minimum door height 1000 mm



## Support profiles

[illegible]

[illegible]

## Operator

DD180
DD160
DD100
DD65
DD50
DD40
DD30
DD25
DD17

**$^{123} = S$  (required headroom)**

123 = **ET** (fitting depth)

- All standard values only apply to standard version doors with suspended operators.
- Minimum door width 1000 mm
- Minimum door height 1000 mm

## Support profiles

[illegible]

[illegible]

DD180
DD160
DD100
DD65
DD50
DD40
DD30
DD25
DD17

123 = **ET** (fitting depth)

- All standard values only apply to standard version doors with suspended operators.
- Minimum door width 1000 mm
- Minimum door height 1000 mm

## Support profiles

[illegible]

# Brand quality for residential and commercial construction

The family-owned company Hörmann offers all important construction components for building and renovating projects from a single source. We manufacture in highly-specialised factories using the latest production technologies. Furthermore, our employees work intensively on new products, continual further developments and improvements to details. The results are patents and one-of-a-kind products you can depend on.

