



# High-speed doors

V 4008 SEL

The inexpensive internal door for areas without draughts

Fitting data

Issue 01.06.2021

**HÖRMANN**



# Hörmann high-speed doors

## A broad programme for inside and outside



### From low-cost design models to secure night doors

Hörmann high-speed doors are distinguished by high-quality materials and secure long-term functionality. High-speed doors are used indoors and outdoors. High-speed doors optimise the flow of traffic, improve the room climate and save energy.



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



# Contents

Contents	Page
<b>Spiral doors and high-speed sectional doors</b>	
Technical data	4–5
HS 7030 PU 42	6–8
HS 5012 PU 42 S	9–11
HS 5015 PU N 42	12
HS 5015 PU H 42	13
HS 6015 PU V 42	14
Curtain design	15
Technical data	16–17
HS 5015 PU H 67	18
HS 6015 PU V 67	19
Curtain design	20–21
HS 5015 Acoustic H	22
HS 7030 Acoustic	23–25
HS 6015 Acoustic V	26
Iso Speed Cold H 100	27
Iso Speed Cold V 100	28
<b>High-speed doors with flexible door leaf</b>	
Internal doors	
Technical data	30–31
V 4015 SEL Alu-R	32–33
V 4008 SEL	34–35
V 5015 SEL	36–38
V 5030 SEL	39–44
External doors	
Technical data	46–47
V 6030 SEL	48–51
V 6020 TRL	52–54
V 10008	55–56
<b>Internal doors for special applications</b>	
Technical data	58–59
V 4015 Iso L	60–61
V 2515 Food L	62
V 2012	63
V 3015 Clean	64
<b>Internal doors for individual requirements</b>	
Technical data	66–67
V 5030 MSL	68–71
V 3009 Conveyor	72–74
V 6030 Atex	75–77

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# Spiral doors and high-speed sectional doors

## Technical data

<b>Use</b>	Internal door	
	External door	
<b>Door sizes</b>	Maximum width LDB	
	Maximum height LDH	
<b>Speed</b>	Frequency converter control, 3-phase	Max. opening approx. m/s Max. closing approx. m/s
<b>Security equipment</b>	EN 13241.1	
<b>Wind load resistance</b>	EN 12424	Door width ≤ 5000 mm Door width > 5000 mm and ≤ 6000 mm Door width > 6000 mm
<b>Thermal insulation</b>	EN 13241-1, ISO 12567-1	Door size 4000 × 4000 mm, without glazing, with Thermoframe
<b>Resistance to water penetration</b>	EN 12425	
<b>Air permeability</b>	EN 12426	
<b>Acoustic insulation</b>	EN ISO 717-1, EN ISO 10140-1, EN ISO 10140-2	
<b>Break-in resistance equipment</b>	DIN/TS 18194	
<b>Door construction</b>	Self-supporting	
<b>Door leaf counterbalance</b>	Chain mechanism and springs Belt mechanism and counter weights	
<b>Door leaf</b>	Steel sandwich construction, PU-foamed Sections with thermal break Depth in mm Section height in mm	
<b>Door leaf material and surface</b>	Exterior and interior surface Standard colour Wet coated, RAL to choose Aluminium rail windows, anodised aluminium E6 / EV 1	
<b>Glazing</b>	Double synthetic panes Glazing with thermal break	
<b>Ventilation grilles</b>	Ventilation cross-section 54%	
<b>Thermoframe</b>		
<b>Operator and control</b>	Frequency converter	
	Connecting voltage	1-phase, 1 – 230 V, N, PE Optionally up to max. 3000 × 3000 mm 3-phase, 3 – 400 V, N, PE
	Open-Stop-Close button	
	Main switch with all-pole switch-off	1-phase, optionally up to max. 3000 × 3000 mm 3-phase
	Emergency-off button	1-phase, optionally up to max. 3000 × 3000 mm 3-phase
	Fuse protection	1-phase, 3-phase
	Protection category for control	
	Protection category for operator	
	Closing zone monitoring	Safety light curtain IP 67
	Hold-open phase, in sec.	
	Electronic limit switch DES	
<b>Emergency opening</b>	Emergency crank handle Emergency hand chain UPS in plastic cabinet (200 × 400 × 200) for frequency converter control 230 V, 1-phase (up to 9 m <sup>2</sup> on request)	
<b>Volt-free contacts</b>		
<b>Plug-in control wiring</b>		

● = Standard

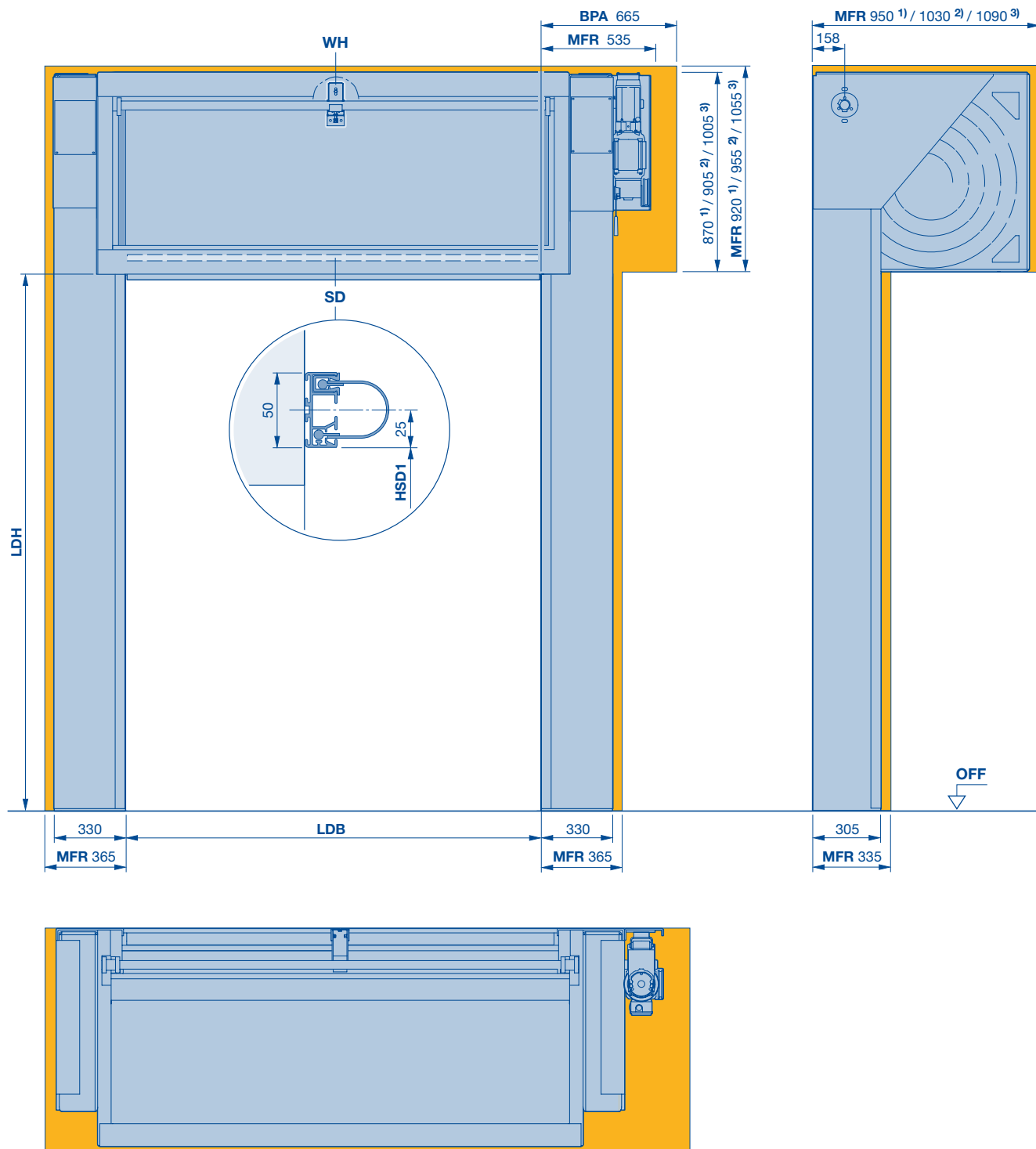
O = Optional

HS 7030 PU 42	HS 5012 PU 42 S	HS 5015 PU N 42	HS 5015 PU H 42	HS 6015 PU V 42
●	●	●	●	●
●	●	●	●	●
6500	5000	5000	5000	6500
6500	5000	6500	6500	6500
1.5–2.5	1,2	1.5–2.5	1.5–2.5	1.5–2.5
0,5	0,5	0,5	0,5	0,5
●	●	●	●	●
Class 5	Class 5	Class 5	Class 5	Class 5
Class 4	—	—	—	Class 4
Class 2	—	—	—	Class 2
1.04 / W/(m <sup>2</sup> ·K)	1.04 / W/(m <sup>2</sup> ·K)	1.04 / W/(m <sup>2</sup> ·K)	1.04 / W/(m <sup>2</sup> ·K)	1.04 / W/(m <sup>2</sup> ·K)
Class 1	Class 1	Class 1	Class 1	Class 1
Class 2	Class 2	Class 2	Class 2	Class 2
26	26	26	26	26
RC 2	—	—	—	—
—	—	—	—	—
●	—	●	—	—
○	—	—	●	●
●	●	●	●	●
●	●	●	●	●
42	42	42	42	42
250	250	250	250	250
Micrograin / Stucco	Micrograin / Stucco	Micrograin / Stucco	Micrograin / Stucco	Micrograin / Stucco
RAL 9006	RAL 9006	RAL 9006	RAL 9006	RAL 9006
○	○	○	○	○
○	○	○	○	○
○	○	○	○	○
—	—	—	—	—
○	○	○	○	○
○	○	○	○	○
●	●	●	●	●
○	—	○	○	○
●	●	●	●	●
●	●	●	●	●
○	—	○	○	○
●	●	●	●	●
○	—	○	○	○
●	●	●	●	●
16 A, slow-acting	16 A, slow-acting	16 A, slow-acting	16 A, slow-acting	16 A, slow-acting
IP 65	IP 65	IP 65	IP 65	IP 65
IP 54	IP 54	IP 54	IP 54	IP 54
●	●	●	●	●
1–200	1–200	1–200	1–200	1–200
●	●	●	●	●
—	—	—	—	—
●	●	●	●	●
○	—	○	—	○
3	3	3	3	3
●	●	●	●	●

# Spiral doors and high-speed sectional doors

## HS 7030 PU 42

With PU insulating panels



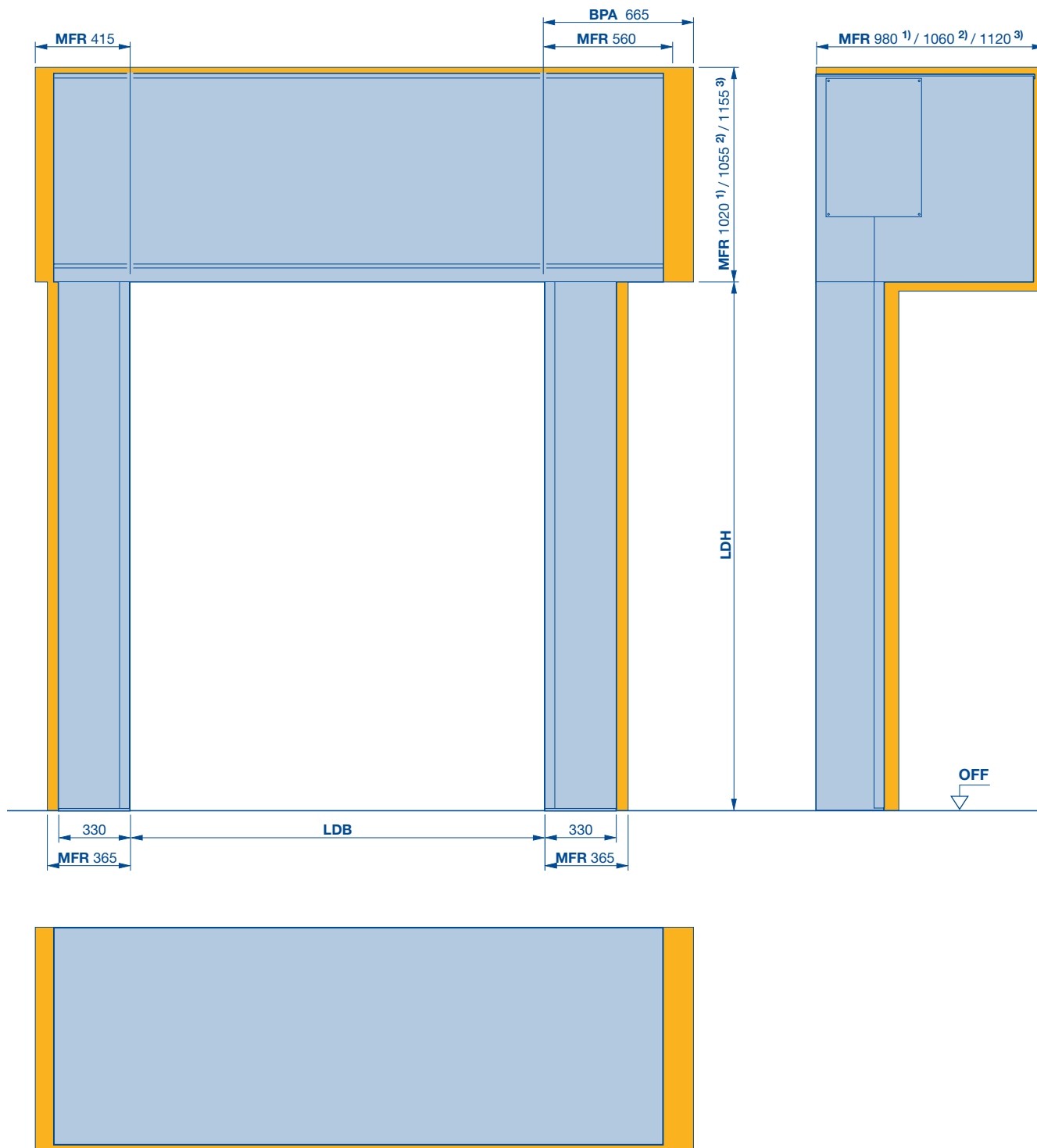
- |                                                              |                                       |
|--------------------------------------------------------------|---------------------------------------|
| 1) LDH ≤ 4500                                                | <b>LDB</b> Clear passage width        |
| 2) LDH > 4500 – ≤ 5500                                       | <b>LDH</b> Clear passage height       |
| 3) LDH > 5500 – ≤ 8000                                       | <b>MFR</b> Space for fitting the door |
| <b>BPA</b> Space required to fit and dismantle the operator  | <b>SD</b> Lintel seal                 |
| <b>HSD1</b> Height of the lintel seal (dimension on request) | <b>WH</b> Shaft support               |
|                                                              | LDB > 3500 mm (1 x)                   |
|                                                              | LDB > 5000 mm (2 x)                   |

# Spiral doors and high-speed sectional doors

## HS 7030 PU 42

With PU insulating panels

Full cladding, straight



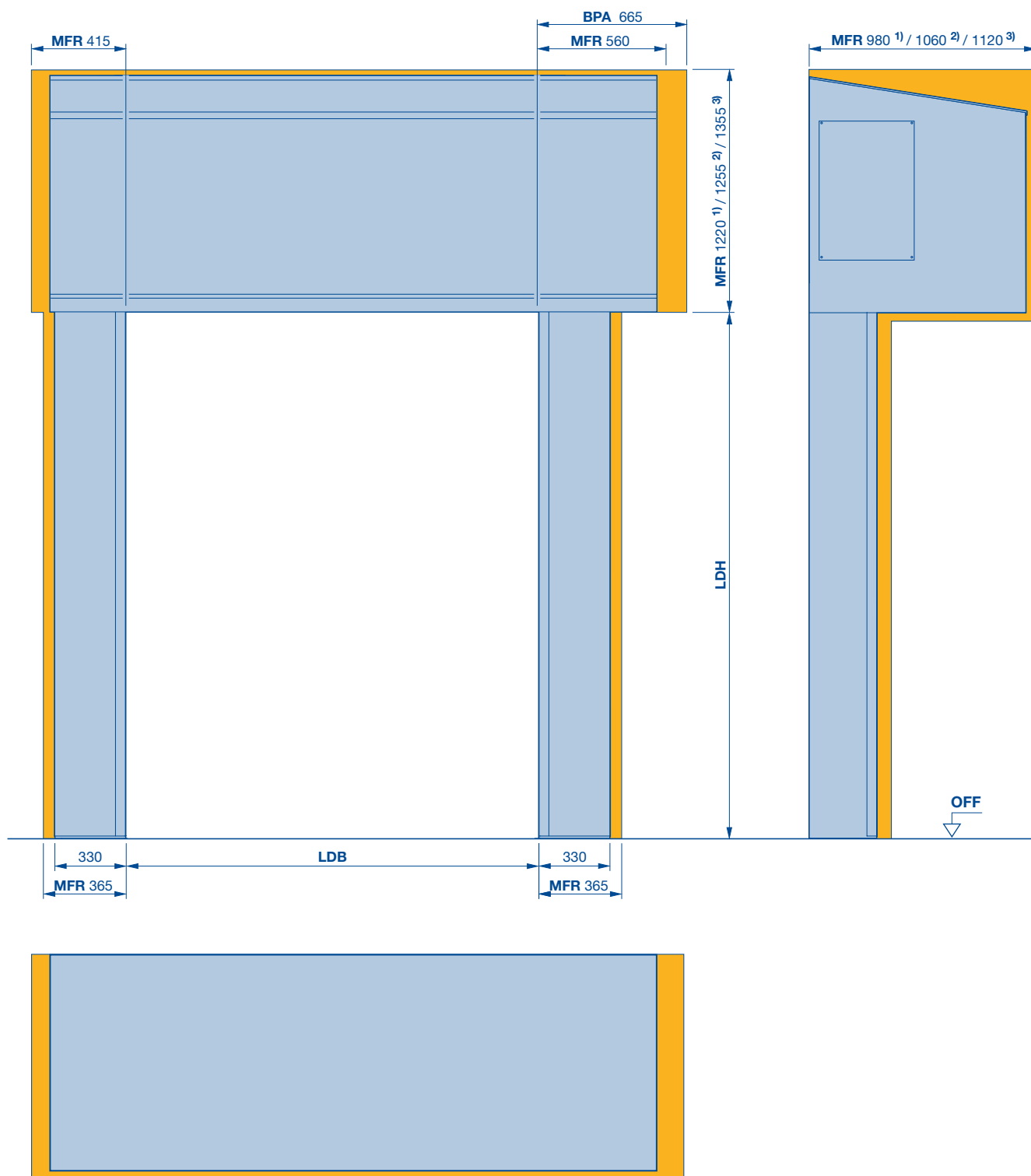
- 1)  $LDH \leq 4500$
- 2)  $LDH > 4500 - \leq 5500$
- 3)  $LDH > 5500 - \leq 8000$
- BPA** Space required to fit and dismantle the operator
- LDB** Clear passage width
- LDH** Clear passage height
- MFR** Space for fitting the door

# Spiral doors and high-speed sectional doors

## HS 7030 PU 42

With PU insulating panels

Full cladding, chamfered



1) LDH ≤ 4500

2) LDH > 4500 – ≤ 5500

3) LDH > 5500 – ≤ 8000

**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

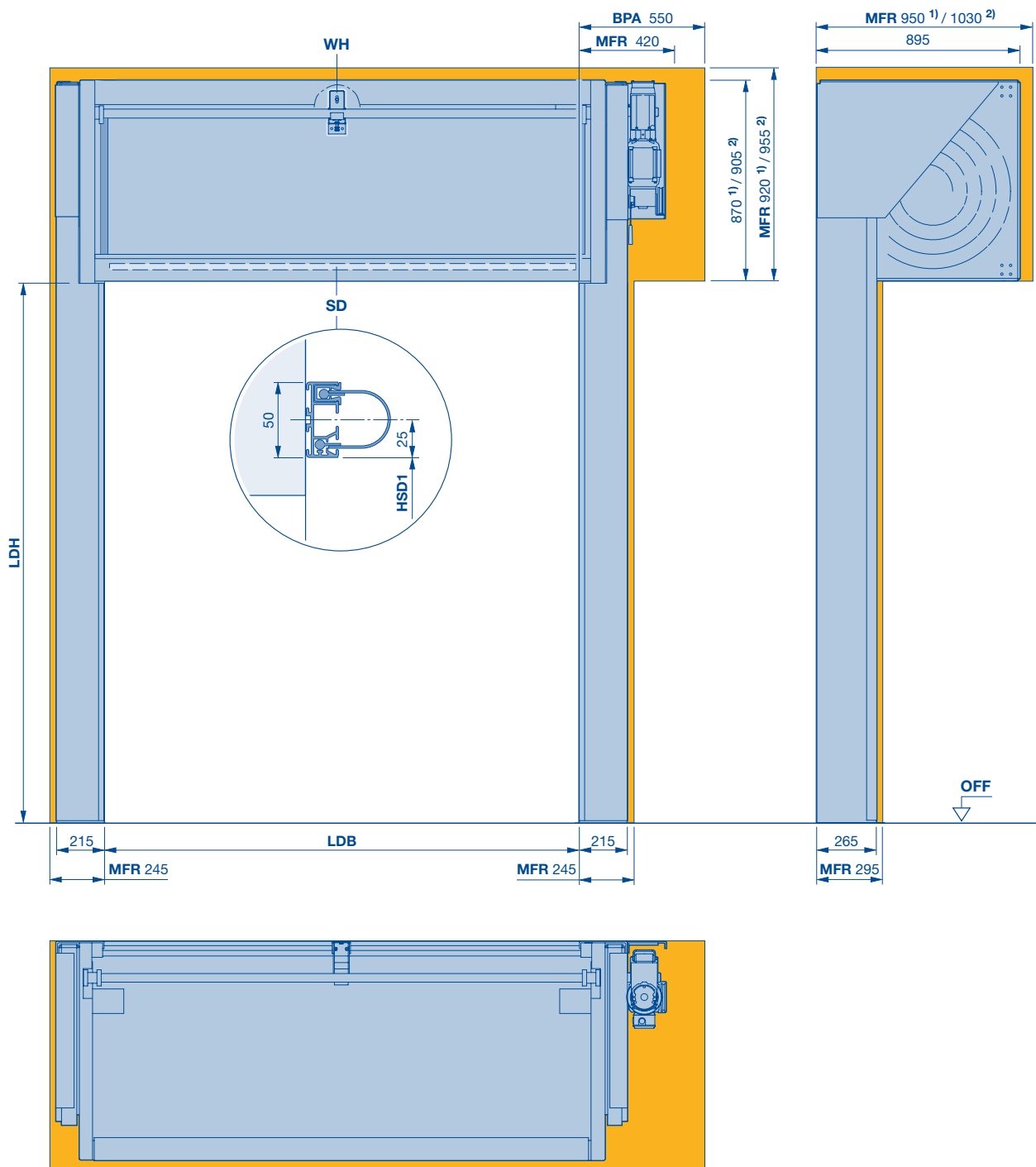
**MFR** Space for fitting the door



# Spiral doors and high-speed sectional doors

## HS 5012 PU 42 S

With non-contact roll-up technology and narrow side elements



1) LDH ≤ 4500

2) LDH > 4500

**BPA** Space required to fit and dismantle the operator

**HSD1** Height of the lintel seal (dimension on request)

**LDB** Clear passage width

**LDH** Clear passage height

**MFR** Space for fitting the door

**SD** Lintel seal

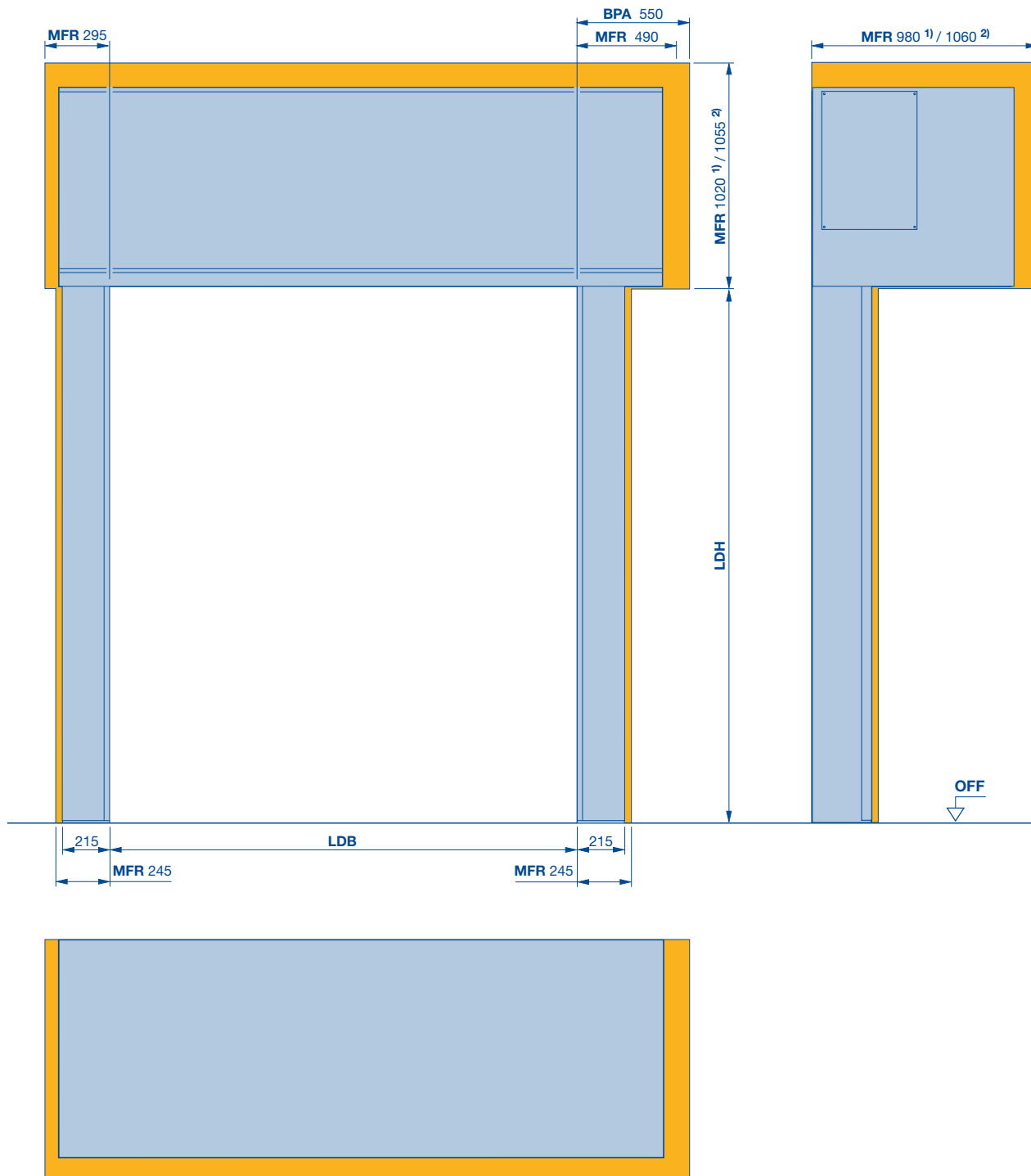
**WH** Shaft support  
LDB > 3500 mm (1 ×)

# Spiral doors and high-speed sectional doors

## HS 5012 PU 42 S

With non-contact roll-up technology and narrow side elements

Full cladding, straight



1)  $LDH \leq 4500$

2)  $LDH > 4500$

**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

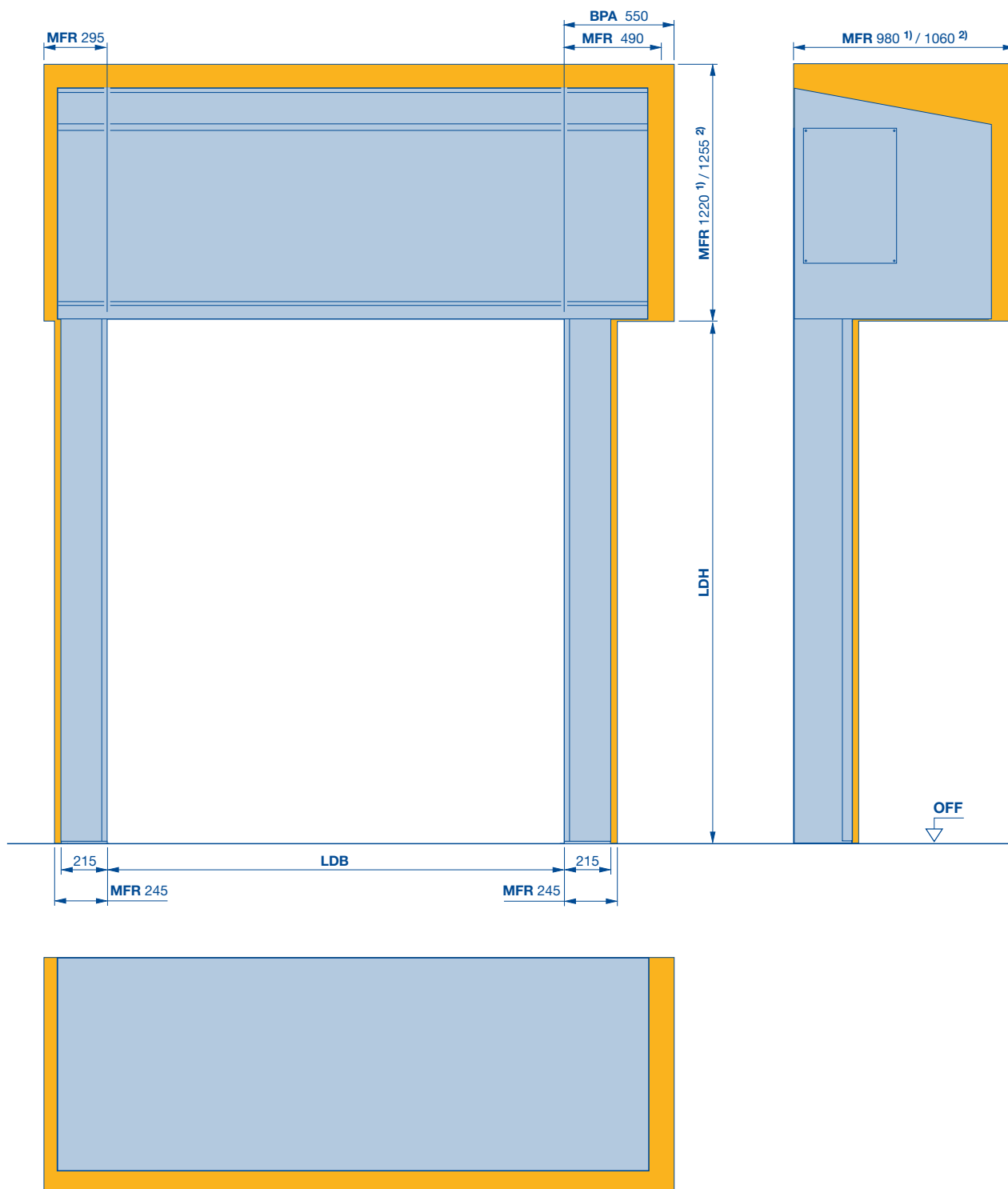
**MFR** Space for fitting the door

# Spiral doors and high-speed sectional doors

## HS 5012 PU 42 S

With non-contact roll-up technology and narrow side elements

Full cladding, chamfered



1)  $LDH \leq 4500$

2)  $LDH > 4500$

**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

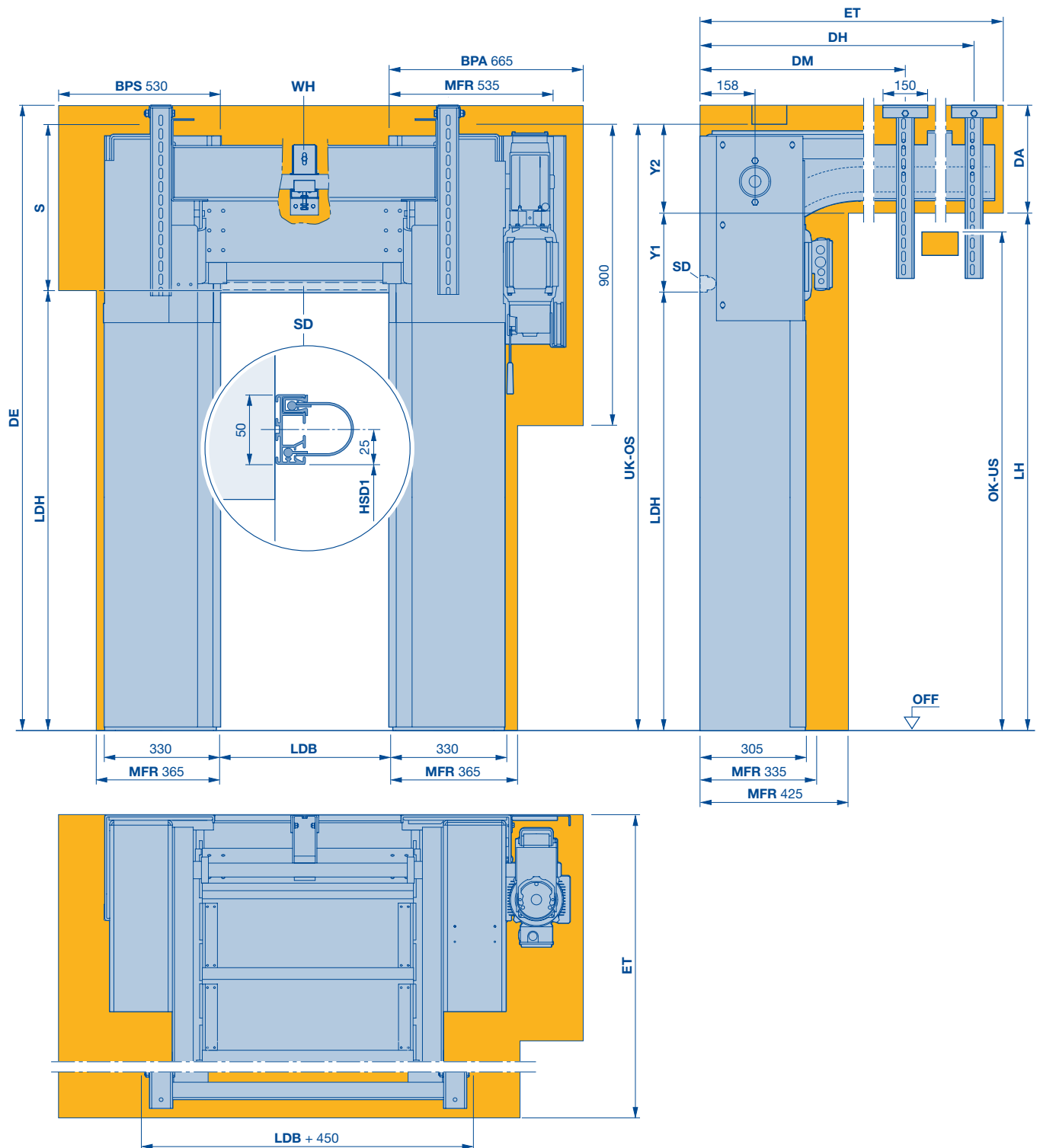
**LDH** Clear passage height

**MFR** Space for fitting the door

# Spiral doors and high-speed sectional doors

## HS 5015 PU N 42

With PU insulating panels



**BPA** Space required to fit and dismantle the operator  
**BPS** Space required to fit and dismantle the side cover  
**DA** Distance to ceiling  $DE - LDH - S + Y2$   
**DE** Ceiling height  $DA + LDH + S - Y2$   
**DH** Rear ceiling anchor  $ET - 120$   
**DM** Centre ceiling anchor 960 ( $ET > 1250$ )  
**ET** Minimum distance back  $2 \times LDH - (LDH + S) + 1000$  (min. 1250)

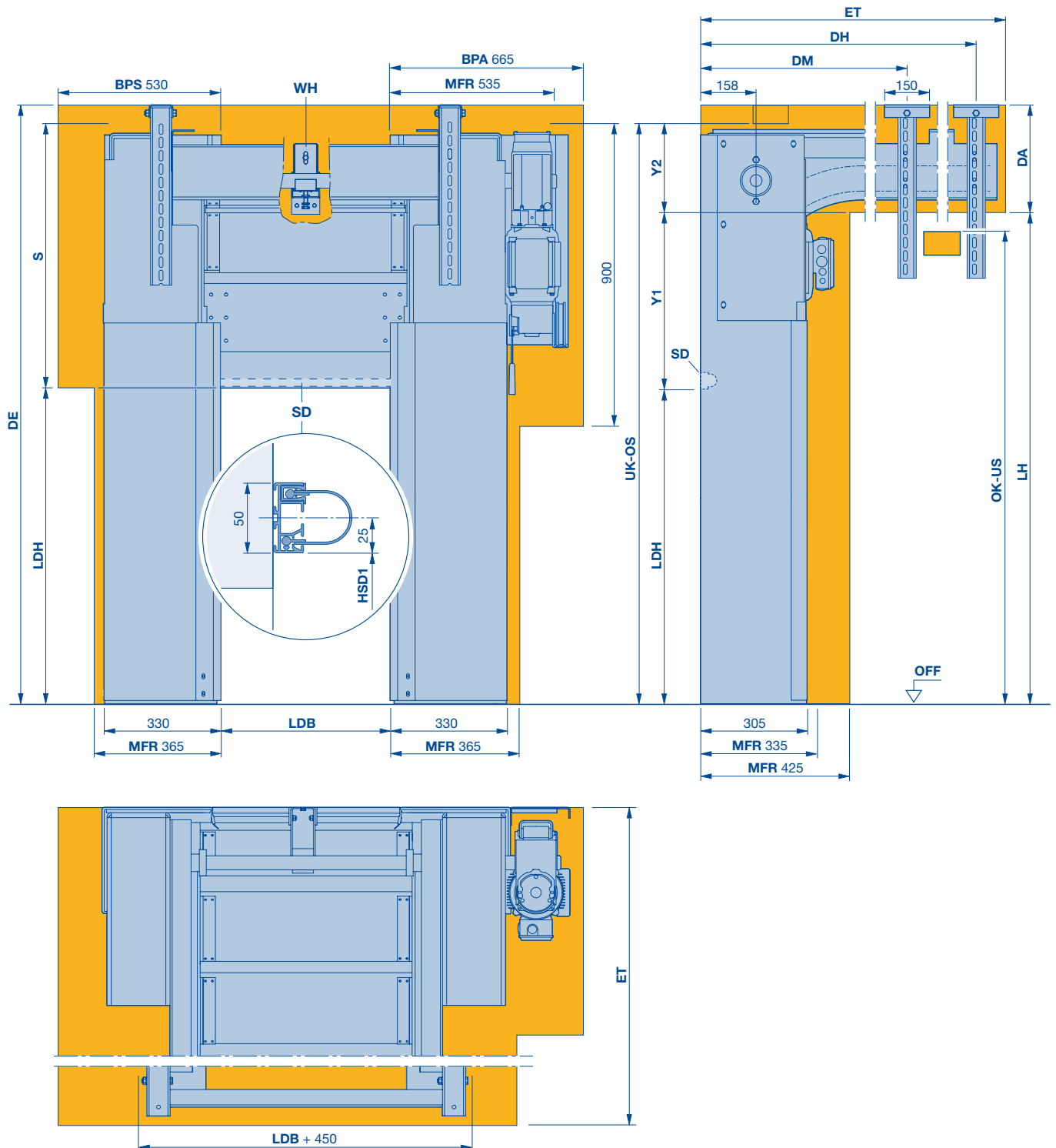
**HSD1** Height of the lintel seal (dimension on request)  
**LDB** Clear passage width  
**LDH** Clear passage height  
**LH** Track height  $LDH + S - Y2$  (min.  $LDH + Y1$ )  
**MFR** Space for fitting the door  
**OK** Top edge  
**OS** Top interference contour

**S** Required headroom at least 480, maximum 750  
**SD** Lintel seal  
**UK** Bottom edge  
**US** Bottom interference contour  
**WH** Shaft support  
**Y1**  $LDH < 2500$ : 170,  $LDH \geq 2500$ : 225  
**Y2**  $LDH < 2500$ : 310,  $LDH \geq 2500$ : 255

# Spiral doors and high-speed sectional doors

## HS 5015 PU H 42

With PU insulating panels



- BPA** Space required to fit and dismantle the operator
- BPS** Space required to fit and dismantle the side cover
- DA** Distance to ceiling  $DE - LDH - S + Y2$
- DE** Ceiling height  $DA + LDH + S - Y2$
- DH** Rear ceiling anchor ET - 145
- DM** Centre ceiling anchor 935 (ET > 1250)
- ET** Minimum distance back  $2 \times LDH - (LDH + S) + 1000$  (min. 1250)

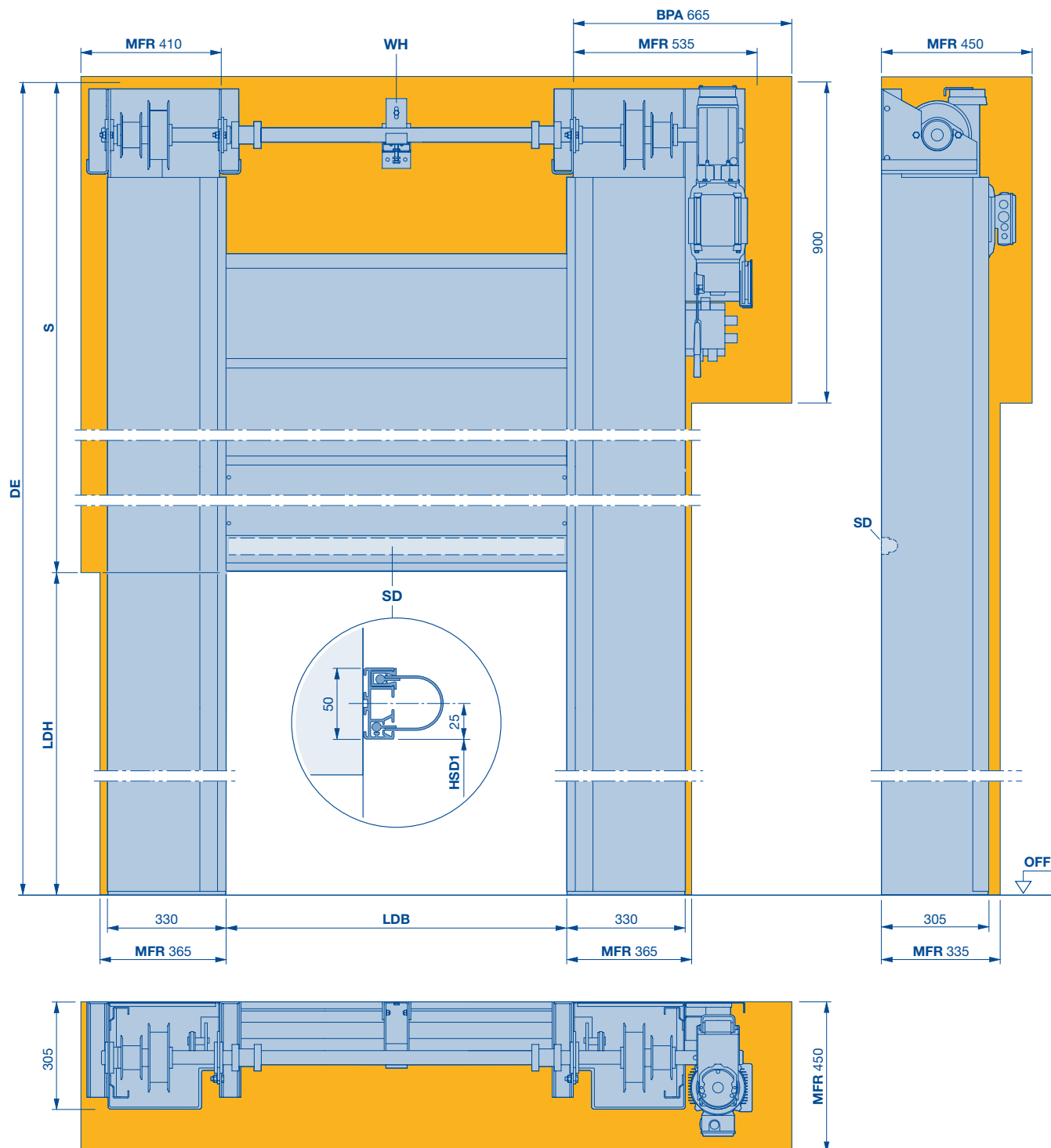
- HSD1** Height of the lintel seal (dimension on request)
- LDB** Clear passage width
- LDH** Clear passage height
- LH** Track height  $LDH + S - Y2$  (min.  $LDH + Y1$ )
- MFR** Space for fitting the door
- OK** Top edge
- OS** Top interference contour

- S** Required headroom at least 750, maximum  $LDH + 585$
- SD** Lintel seal
- UK** Bottom edge
- US** Bottom interference contour
- WH** Shaft support
- Y1**  $LDH < 2500 = 440$ ,  $LDH > 2500 = 495$
- Y2**  $LDH < 2500 = 310$ ,  $LDH > 2500 = 255$

# Spiral doors and high-speed sectional doors

## HS 6015 PU V 42

With PU insulating panels



**BPA** Space required to fit and dismantle the operator

**DE** Ceiling height  $2 \times LDH + 585$

**HSD1** Height of the lintel seal (dimension on request)

**LDH** Clear passage height

**LDB** Clear passage width  
 LDB > 3500 (1 x)  
 LDB > 5000 (2 x)

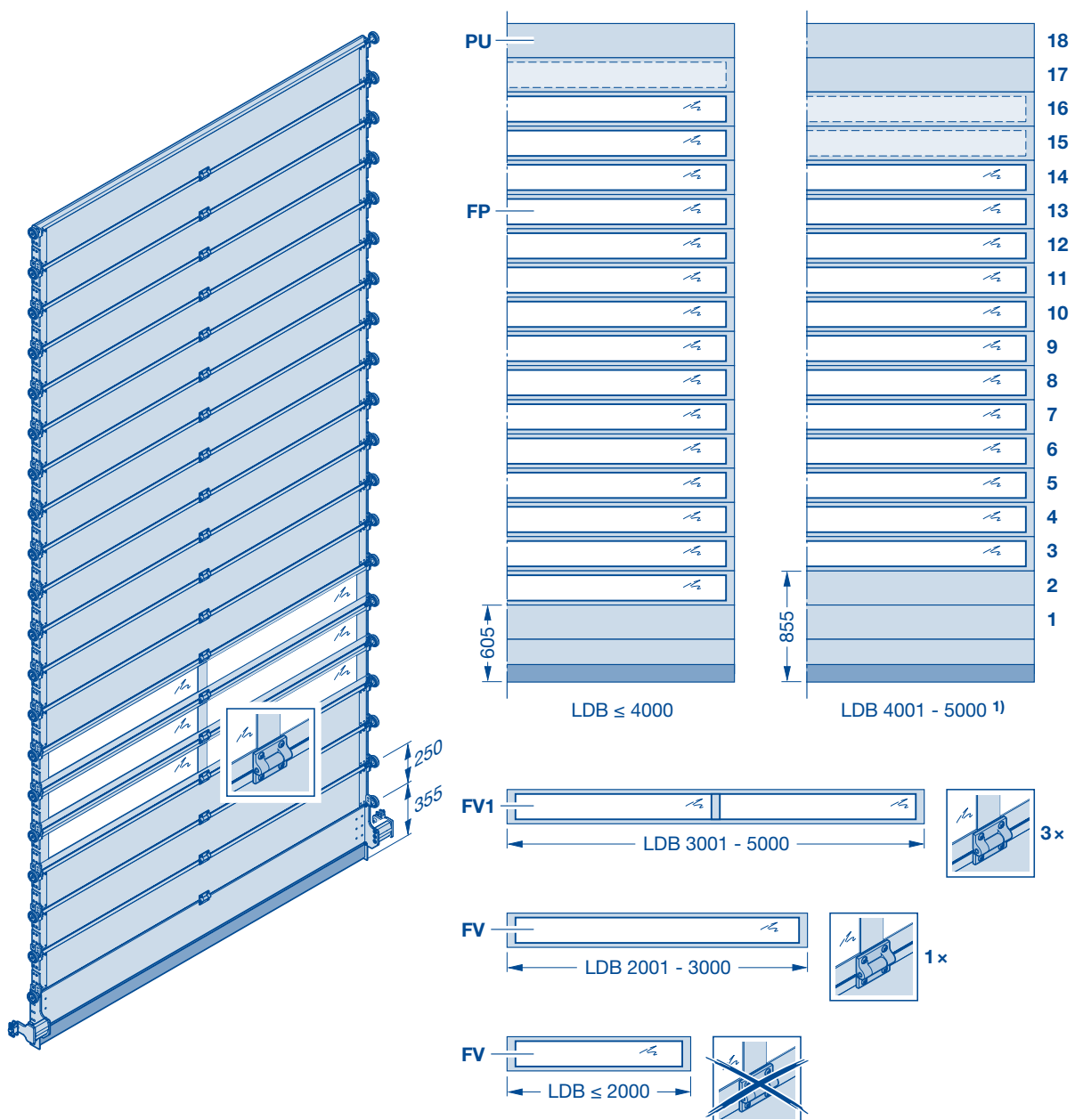
**MFR** Space for fitting the door

**S** Required headroom at least  $LDH + 585$

**SD** Lintel seal

**WH** Shaft support

# Curtain design HS 5012 PU 42 S



**LDB** Clear passage width  
**LDH** Clear passage height  
**PU** PU section 42 mm  
 RAL 9006

**FP** Window profile, E6/C0 DURATEC  
 synthetic glazing 26 mm  
**FV** Window profile without connecting rib  
**FV1** Window profile with 1 connecting rib  
**FV2** Window profile with 2 connecting ribs

**1)** No more than 5 glazing profiles are possible from a clear height of 4500 mm.

# Spiral doors and high-speed sectional doors

## Technical data

<b>Use</b>	Internal door	
	External door	
<b>Door sizes</b>	Maximum width LDB	
	Maximum height LDH	
<b>Speed</b>	Frequency converter control, 3-phase	Max. opening approx. m/s Max. closing approx. m/s
<b>Security equipment</b>	EN 13241-1	
<b>Wind load resistance</b>	EN 12424	Door width ≤ 5000 mm Door width > 5000 mm and ≤ 6000 mm Door width > 6000 mm
<b>Thermal insulation</b>	EN 13241-1, ISO 12567-1	Door size 4000 × 4000 mm, without glazing, with Thermoframe
<b>Resistance to water penetration</b>	EN ISO 12425	
<b>Air permeability</b>	EN 12426	
<b>Acoustic insulation</b>	EN ISO 717-1, EN ISO 10140-1, EN ISO 10140-2	
<b>Door construction</b>	Self-supporting	
<b>Door leaf counterbalance</b>	Chain mechanism and springs Belt mechanism and counter weights	
<b>Door leaf</b>	Steel sandwich construction, PU-foamed Aluminium section E6/ E0, 5 mm UPVC and 30 mm PU foam Sections with thermal break Depth in mm Section height in mm	
<b>Door leaf material and surface</b>	Exterior and interior surface Standard colour Wet coated, RAL to choose Aluminium rail windows, anodised aluminium E6/ EV 1 Triple synthetic panes Glazing with thermal break	
<b>Thermoframe</b>		
<b>Operator and control</b>	Frequency converter Connecting voltage Open-Stop-Close button Main switch, all-pole switch-off Emergency-off button Fuse protection Protection category for control Protection category for operator Closing zone monitoring Hold-open phase, in sec. Electronic limit switch DES	3-phase, 3 – 400 V, N, PE 3-phase 3-phase 3-phase Safety light curtain IP 67
<b>Emergency opening</b>	Emergency crank handle Emergency hand chain	
<b>Volt-free contacts</b>		
<b>Plug-in control wiring</b>		

● = Standard

O = Optional



HS 5015 PU H 67	HS 6015 PU V 67	HS 5015 Acoustic H	HS 7030 Acoustic	HS 6015 Acoustic	Iso Speed Cold H 100 <sup>1)</sup>	Iso Speed Cold V 100 <sup>1)</sup>
●	●	●	●	●	●	●
●	●	●	●	●	—	—
5000	6500	5000	5000	5000	5000	5000
6500	6500	5000	5000	5000	5000	5000
1.5–2.5	1.5–2.5	1.5–2.5	1.5–2.5	1.5–2.5	2,0	2,0
0,5	0,5	0,5	0,5	0,5	0,5	0,5
●	●	●	●	●	●	●
Class 5	Class 5	Class 4	Class 4	Class 4	Class 5	Class 5
Class 4	Class 4	—	—	—	—	—
—	Class 2	—	—	—	—	—
0.64 / W/(m <sup>2</sup> ·K)	0.64 / W/(m <sup>2</sup> ·K)	—	—	—	0.57 / W/(m <sup>2</sup> ·K)	0.57 / W/(m <sup>2</sup> ·K)
Class 2	Class 2	—	—	—	Class 3	Class 3
Class 1	Class 1	—	—	—	Class 3	Class 3
26	26	31	31	31	26	26
—	—	—	—	—	—	—
—	—	—	●	—	—	—
●	●	●	—	●	●	●
●	●	—	—	—	●	●
—	—	●	●	●	—	—
●	●	—	—	—	●	●
67	67	42	42	42	100	100
375	375	225	225	225	500	500
Micrograin / Stucco	Micrograin / Stucco	Aluminium E6	Aluminium E6	Aluminium E6	Stucco / Stucco	Stucco / Stucco
RAL 9006	RAL 9006	C0 anodised	C0 anodised	C0 anodised	RAL 9002	RAL 9002
○	○	○	○	○	○	○
○	○	—	—	—	—	—
○	○	—	—	—	—	—
○	○	—	—	—	—	—
○	○	○	○	○	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
16 A, slow-acting	16 A, slow-acting	16 A, slow-acting	16 A, slow-acting	16 A, slow-acting	16 A, slow-acting	16 A, slow-acting
IP 65	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65
IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54
●	●	●	●	●	●	●
1–200	1–200	1–200	1–200	1–200	1–200	1–200
●	●	●	●	●	●	●
—	—	—	—	—	—	—
●	●	●	●	●	●	●
3	3	3	3	3	3	3
●	●	—	—	—	●	●

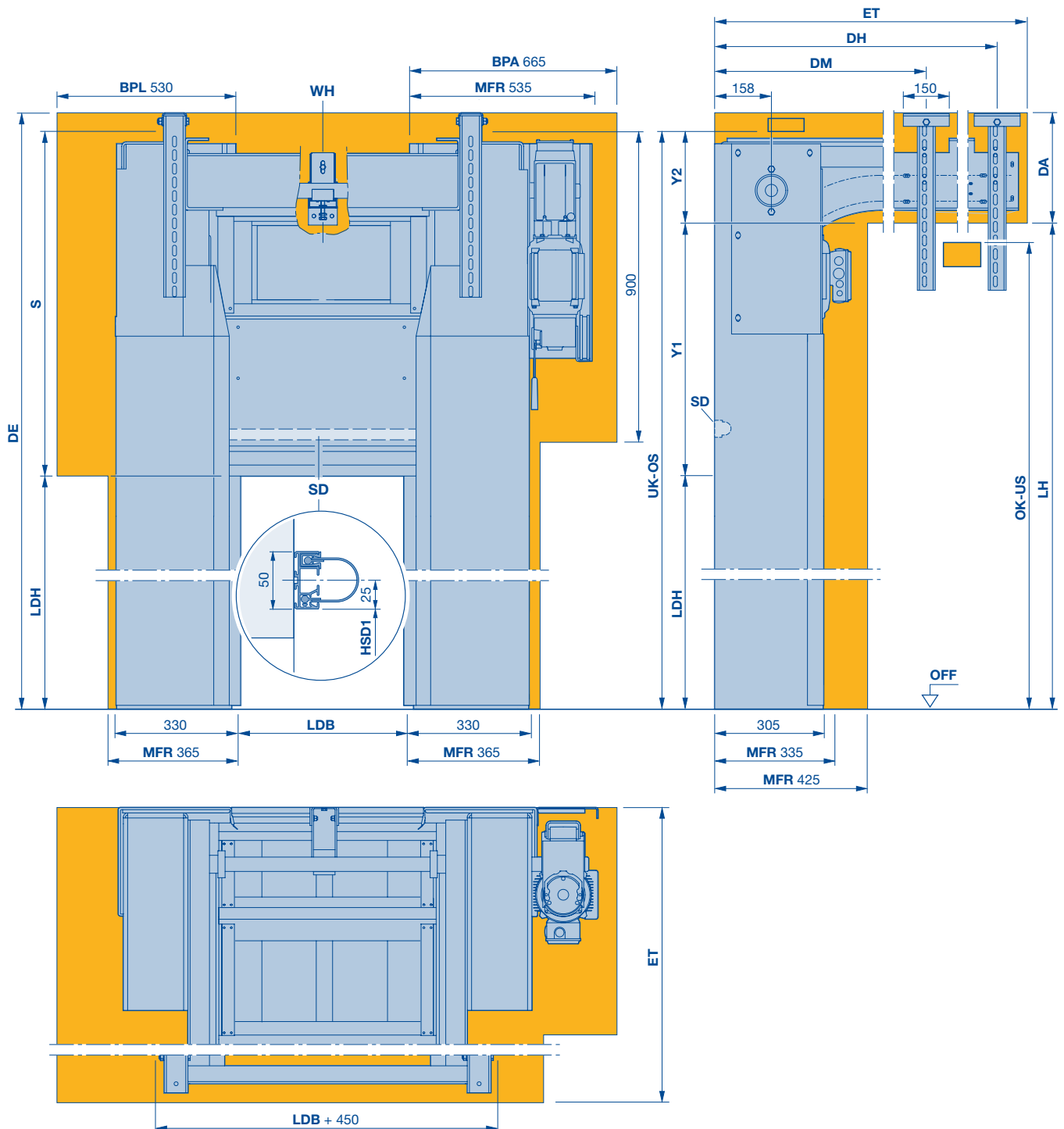
**Notes:** <sup>1)</sup>

- If used in cold stores, a floor heating system is required in the area of the bottom seal. This prevents the bottom seal from freezing. This floor heating system must be provided on-site.
- The connecting lead for the heating must be laid separately from the control connecting lead. Both connecting leads have the same dimensions: at least 5 × 2.5 mm<sup>2</sup>, 16 A and C characteristic or K characteristic (slow-acting). This cable must be routed on-site up to the operator.
- It is also recommended to use an air curtain system in cold store areas. The activated door air curtain keeps most moisture (steam) back. This means that the cold store loses less energy. Ice formation around the door is reduced. Consequential damage is minimised.

# Spiral doors and high-speed sectional doors

## HS 5015 PU H 67

With PU insulating panels



<b>BPA</b>	Space required to fit and dismantle the operator
<b>BPL</b>	Space required to fit and dismantle the support bearing
<b>DA</b>	Distance to ceiling $DE - LDH - S + Y2$
<b>DE</b>	Ceiling height $DA + LDH + S - Y2$
<b>DH</b>	Rear ceiling anchor, $ET - 120$
<b>DM</b>	Centre ceiling anchor, $960$ ( $ET > 1250$ )
<b>ET</b>	Minimum distance back $2 \times LDH - (LDH + S) + 1200$ , min. 1250

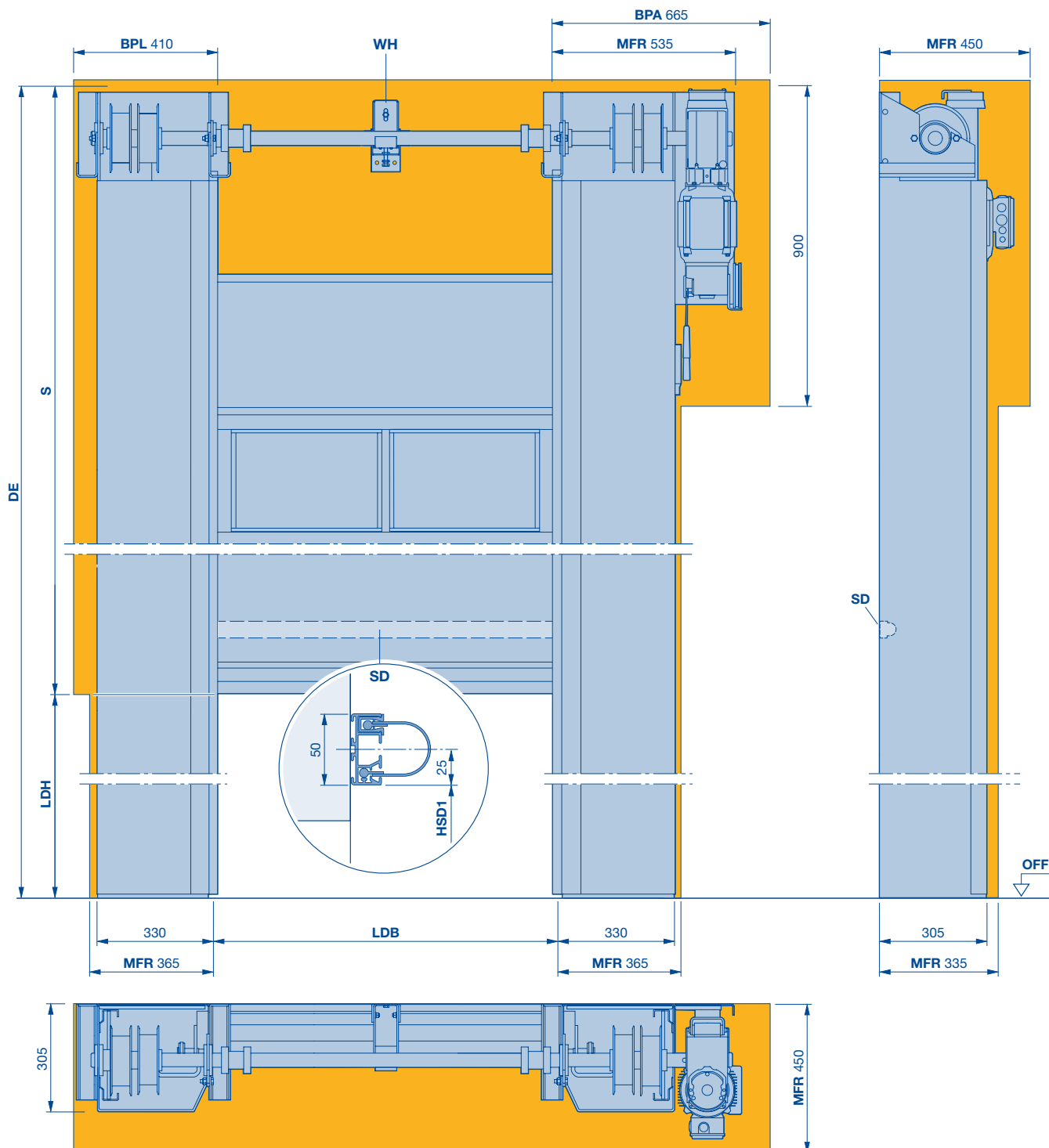
<b>HSD1</b>	Height of the lintel seal (dimension on request)
<b>LDB</b>	Clear passage width
<b>LDH</b>	Clear passage height
<b>LH</b>	Track height $LDH + S - Y2$ (at least $LDH + Y1$ )
<b>MFR</b>	Space for fitting the door
<b>OK</b>	Top edge
<b>OS</b>	Top interference contour
<b>S</b>	Required headroom at least 950, maximum $LDH + 735$

<b>SD</b>	Lintel seal
<b>STL</b>	Side element length
<b>UK</b>	Bottom edge
<b>US</b>	Bottom interference contour
<b>WH</b>	Shaft support
<b>Y1</b>	$LDH + S - 400 < 2500 = 640$ $LDH + S - 400 \geq 2500 = 695$
<b>Y2</b>	$LDH + S - 400 < 2500 = 310$ $LDH + S - 400 \geq 2500 = 255$

# Spiral doors and high-speed sectional doors

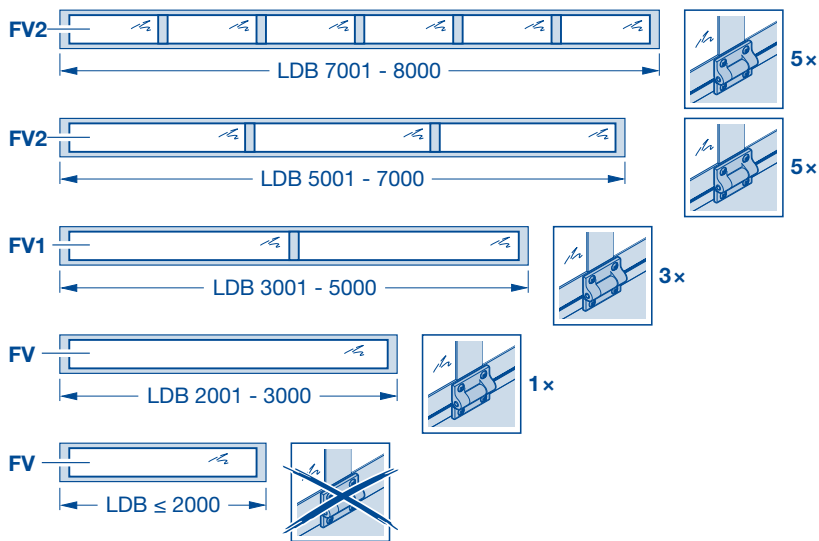
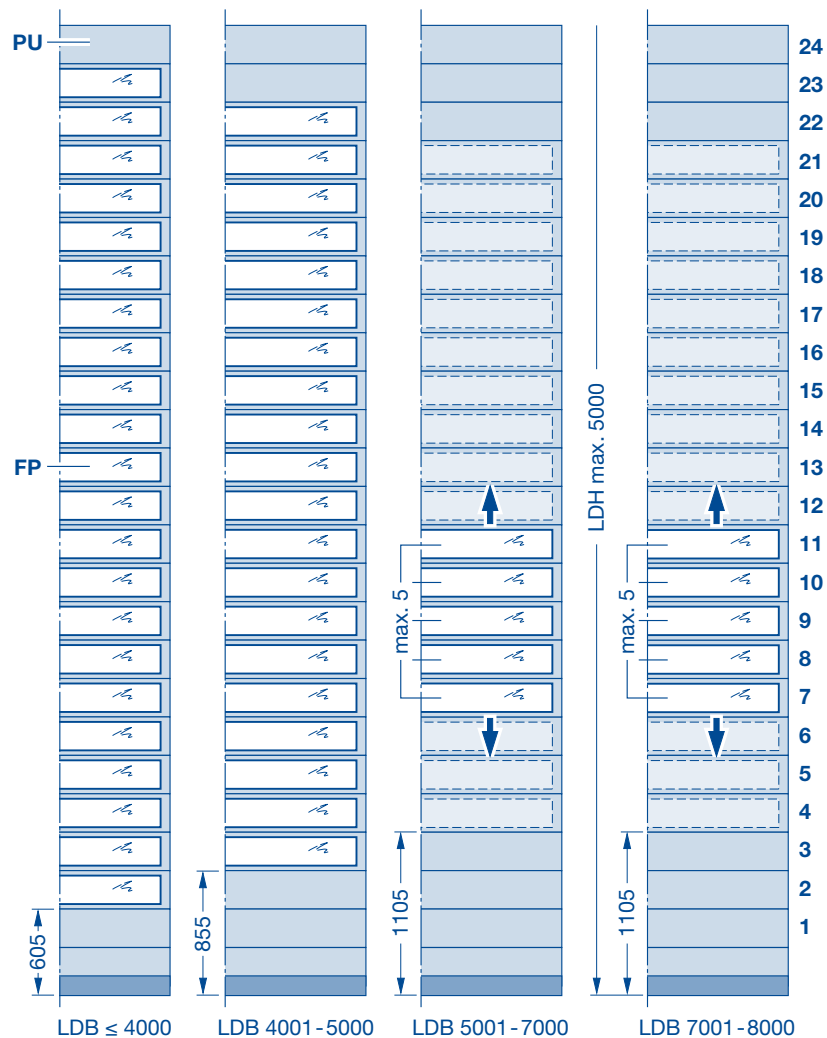
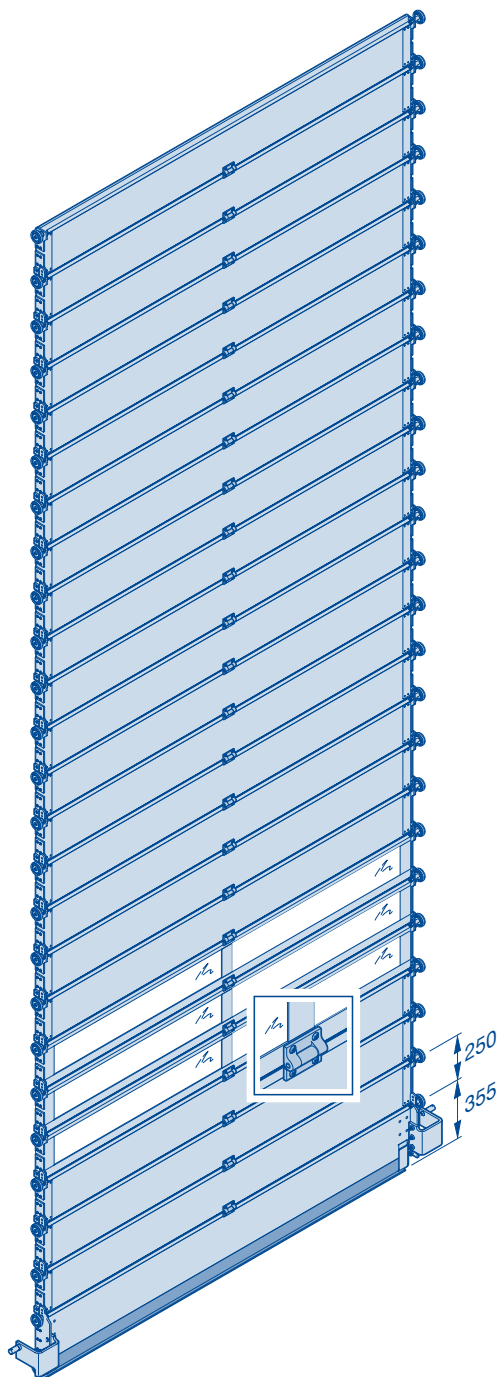
## HS 6015 PU V 67

With PU insulating panels



<b>BPA</b>	Space required to fit and dismantle the operator	<b>MFR</b>	Space for fitting the door
<b>BPL</b>	Space required to fit and dismantle the support bearing	<b>S</b>	LDH + 735
<b>DE</b>	Ceiling height 2 × LDH + 735	<b>SD</b>	Lintel seal
<b>HSD1</b>	Height of the lintel seal (dimension on request)	<b>WH</b>	Shaft support LDB > 3500 (1 ×) LDB > 5000 (2 ×)
<b>LDB</b>	Clear passage width		
<b>LDH</b>	Clear passage height		

# Curtain design HS PU 42

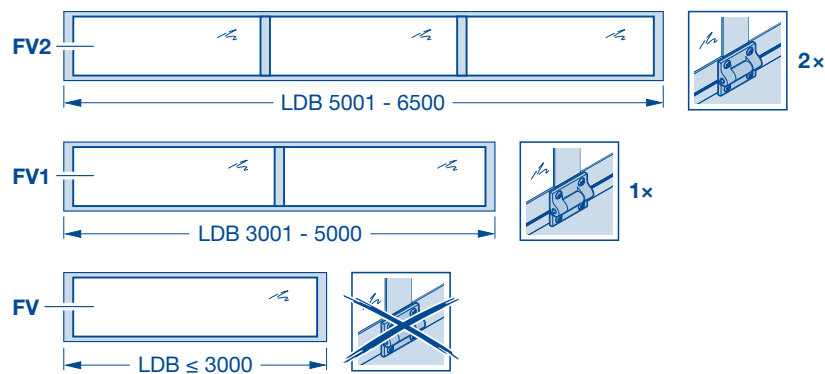
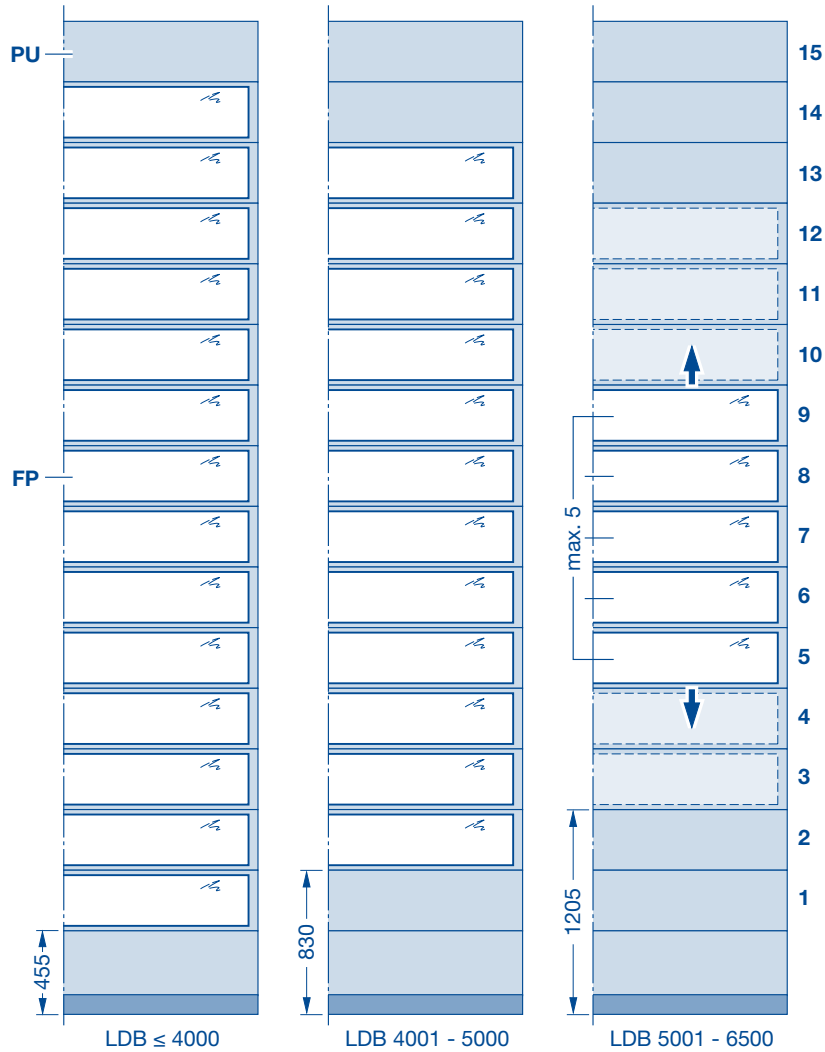
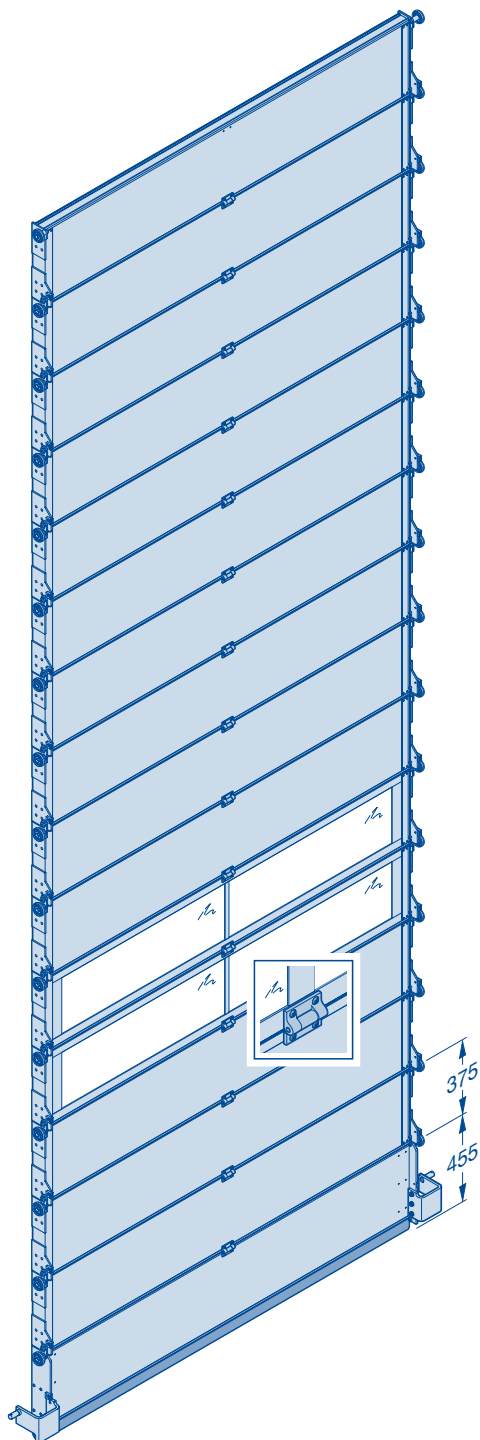


**LDB** Clear passage width  
**LDH** Clear passage height  
**PU** PU section 42 mm  
 RAL 9006

**FP** Window profile, E6 / C0 DURATEC  
 synthetic glazing 26 mm  
**FV** Window profile without connecting rib  
**FV1** Window profile with 1 connecting rib

**FV2** Window profile with 2 connecting ribs

# Curtain design HS PU 67



**LDB** Clear passage width  
**LDH** Clear passage height  
**PU** PU section 67 mm  
 RAL 9006

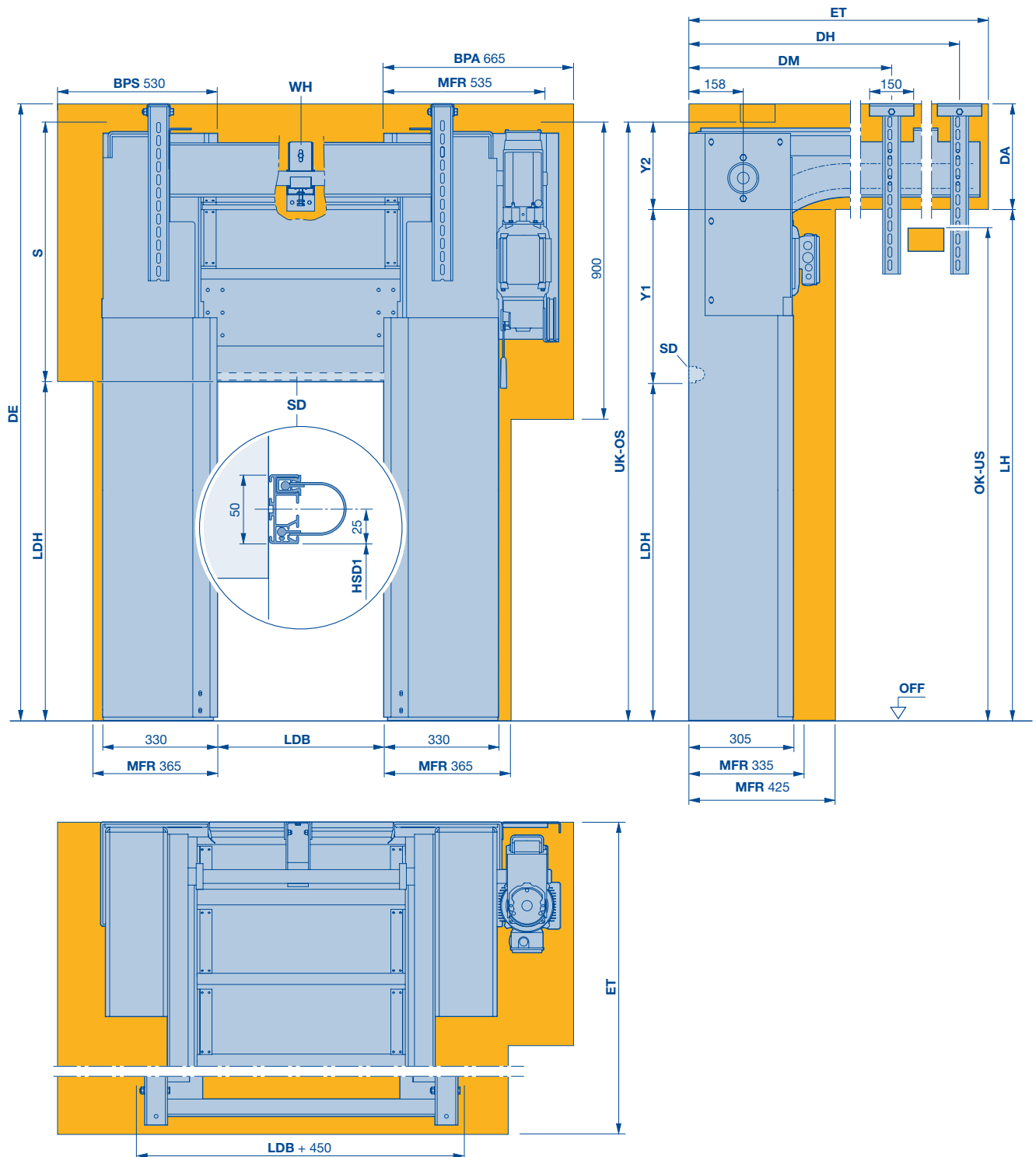
**FP** Window profile, E6 / C0 DURATEC  
 synthetic glazing 26 mm  
**FV** Window profile without connecting rib  
**FV1** Window profile with 1 connecting rib

**FV2** Window profile with 2 connecting ribs

# Spiral doors and high-speed sectional doors

## HS 5015 Acoustic H

With aluminium sections



**BPA** Space required to fit and dismantle the operator

**BPS** Space required to fit and dismantle the side cover

**DA** Distance to ceiling  $DE - LDH - S + Y2$

**DE** Ceiling height  $DA + LDH + S - Y2$

**DH** Rear ceiling anchor  $ET - 120$

**DM** Centre ceiling anchor 960 ( $ET > 1250$ )

**ET** Minimum distance back  $2 \times LDH - (LDH + S) + 1000$  (min. 1250)

**HSD1** Height of the lintel seal (dimension on request)

**LDB** Clear passage width

**LDH** Clear passage height

**LH** Track height  $LDH + S - Y2$  (min.  $LDH + Y1$ )

**MFR** Space for fitting the door

**OK** Top edge

**OS** Top interference contour

**S** Required headroom at least 1000

**SD** Lintel seal

**UK** Bottom edge

**US** Bottom interference contour

**WH** Shaft support

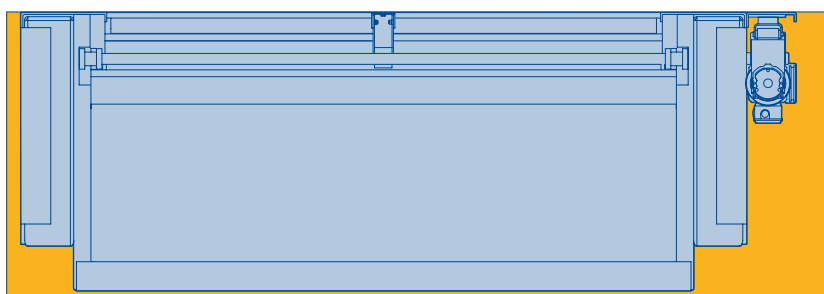
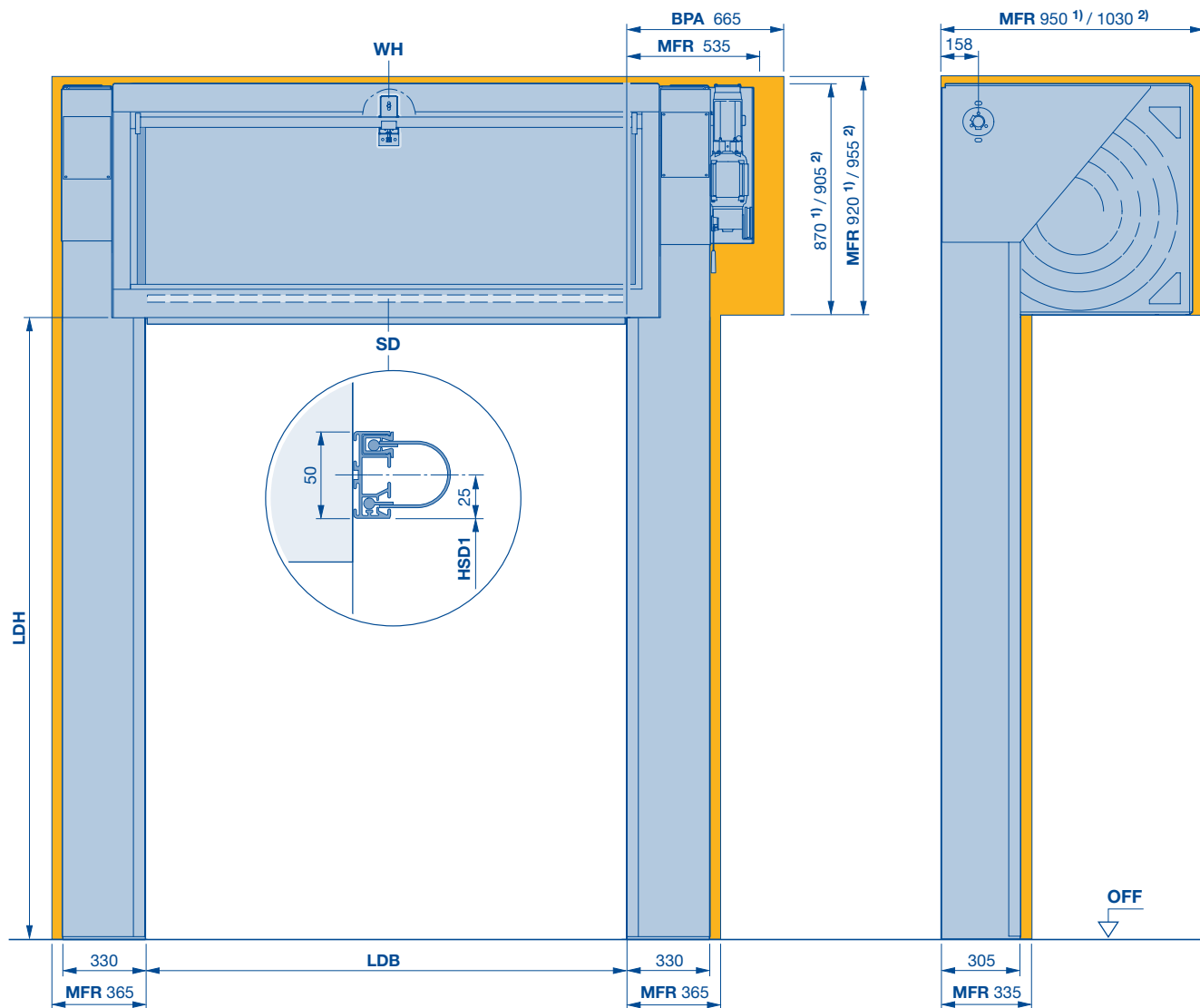
**Y1**  $LDH < 2500 = 440$ ,  $LDH > 2500 = 495$

**Y2**  $LDH < 2500 = 310$ ,  $LDH > 2500 = 255$

# Spiral doors and high-speed sectional doors

## HS 7030 Acoustic

With aluminium sections



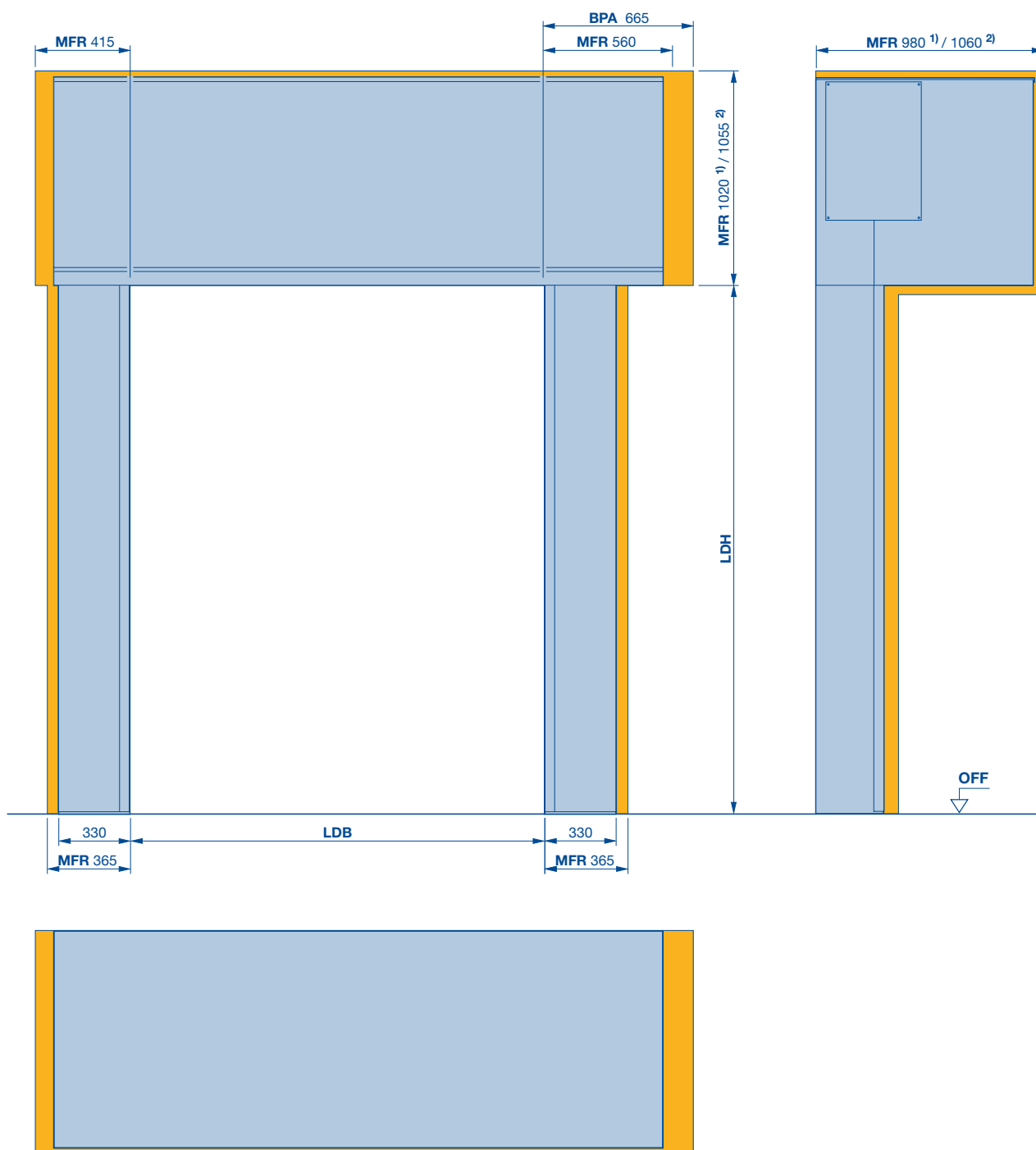
- |                                                              |                                                |
|--------------------------------------------------------------|------------------------------------------------|
| 1) LDH ≤ 4500                                                | <b>LDB</b> Clear passage width                 |
| 2) LDH > 4500 – ≤ 5000                                       | <b>LDH</b> Clear passage height                |
| <b>B</b> Up to 5000 mm                                       | <b>MFR</b> Space for fitting the door          |
| <b>BPA</b> Space required to fit and dismantle the operator  | <b>SD</b> Lintel seal                          |
| <b>HSD1</b> Height of the lintel seal (dimension on request) | <b>WH</b> Shaft support<br>LDB > 3500 mm (1 x) |

# Spiral doors and high-speed sectional doors

## HS 7030 Acoustic

With aluminium sections

Full cladding, straight



1) LDH ≤ 4500

2) LDH > 4500 – ≤ 5000

**BPA** Space required to fit and dismantle the operator

**HSD1** Height of the lintel seal (dimension on request)

**LDB** Clear passage width

**LDH** Clear passage height

**MFR** Space for fitting the door

**SD** Lintel seal

**WH** Shaft support  
LDB > 3500 mm (1 ×)

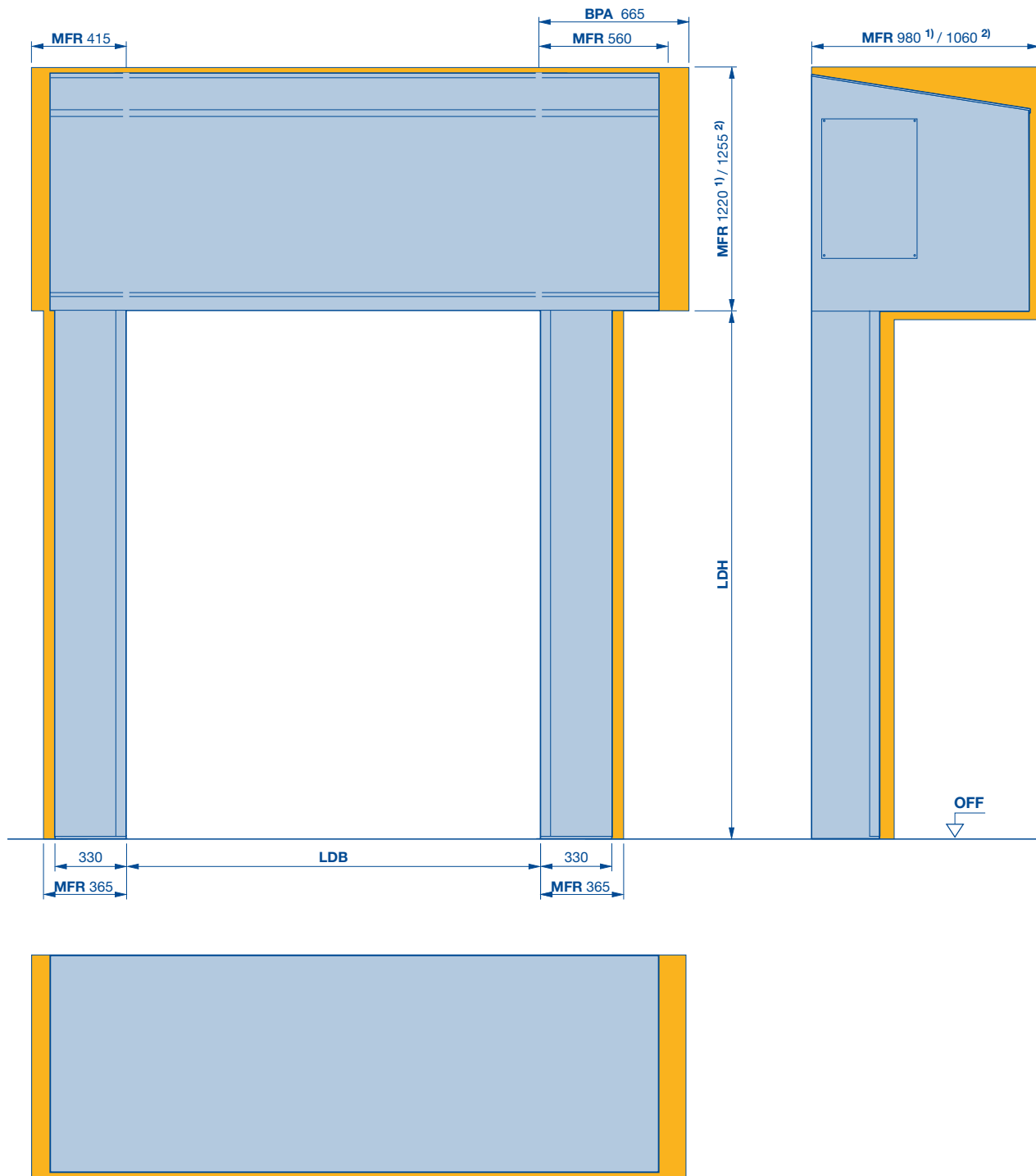


# Spiral doors and high-speed sectional doors

## HS 7030 Acoustic

With aluminium sections

Full cladding, chamfered



1) LDH ≤ 4500

2) LDH > 4500 – ≤ 5000

**BPA** Space required to fit and dismantle the operator

**HSD1** Height of the lintel seal (dimension on request)

**LDB** Clear passage width

**LDH** Clear passage height

**MFR** Space for fitting the door

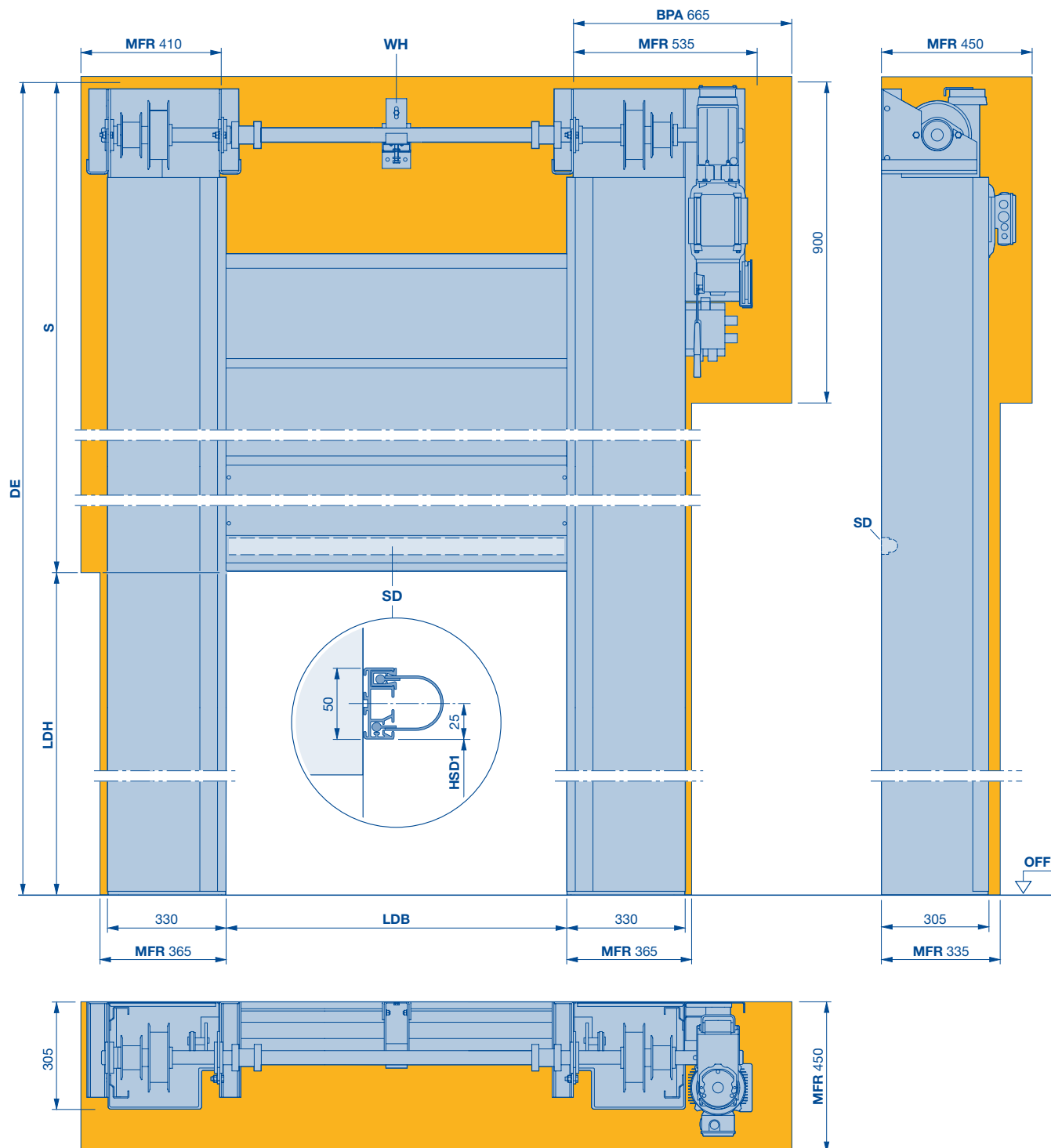
**SD** Lintel seal

**WH** Shaft support  
LDB > 3500 mm (1 ×)

# Spiral doors and high-speed sectional doors

## HS 6015 Acoustic

With aluminium sections



**BPA** Space required to fit and dismantle the operator

**DE** Ceiling height  $2 \times LDH + 585$

**HSD1** Height of the lintel seal (dimension on request)

**LDH** Clear passage height

**LDB** Clear passage width  
LDB > 3500 (1 x)

**MFR** Space for fitting the door

**S** Required headroom at least  $LDH + 585$

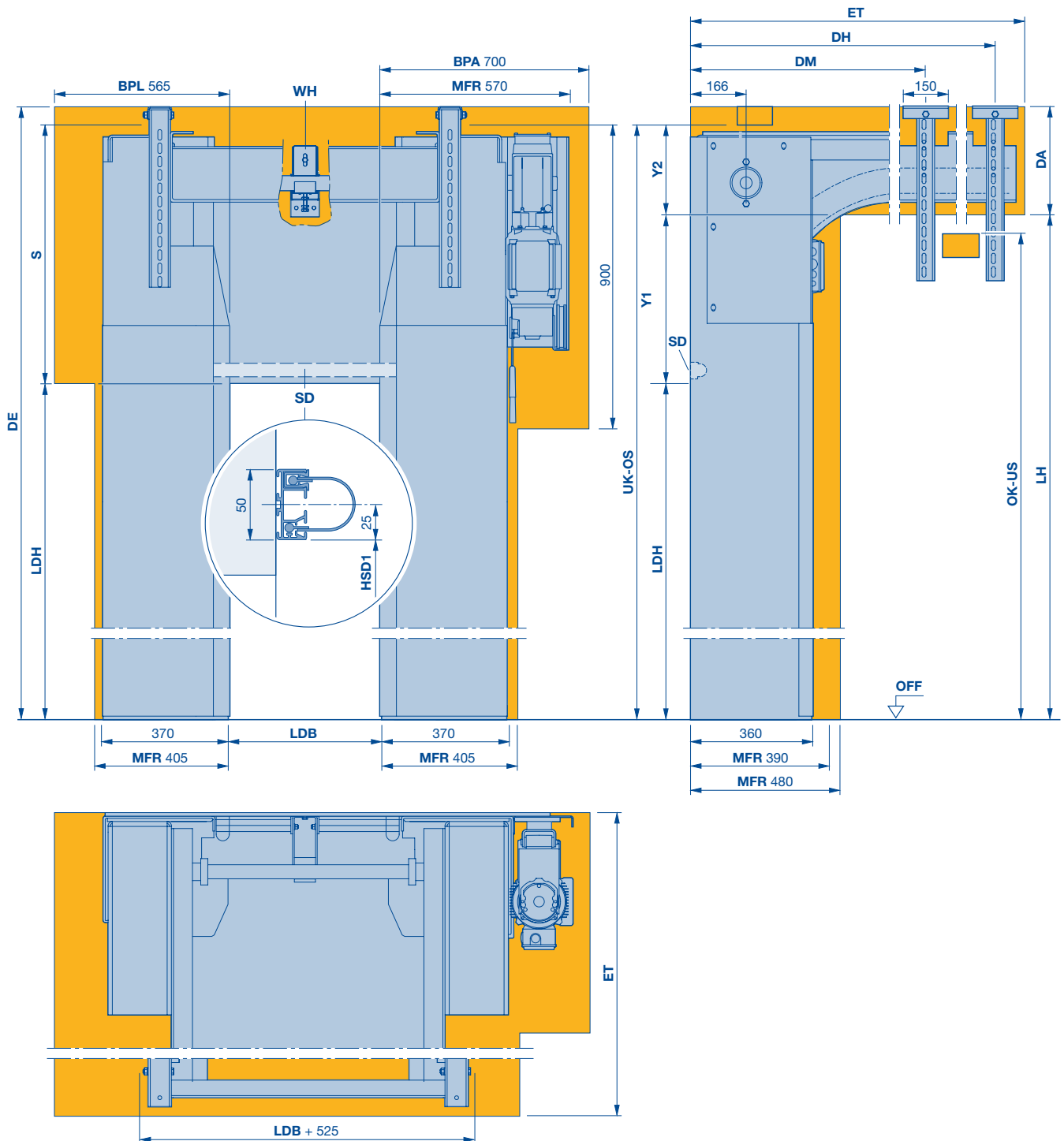
**SD** Lintel seal

**WH** Shaft support

# Spiral doors and high-speed sectional doors

## Iso Speed Cold H 100

With PU insulating panels and track application H (cold-storage door and deep freeze door)



**BPA** Space required to fit and dismantle the operator  
**BPL** Space required to fit and dismantle the support bearing  
**DA** Distance to ceiling  $DE - LDH - S + Y2$   
**DE** Ceiling height  $DA + LDH + S - Y2$   
**DH** Rear ceiling anchor  $ET - 120$   
**DM** Centre ceiling anchor 1015 ( $ET > 1250$ )  
**ET** Minimum distance back  $2 \times LDH - (LDH + S) + 1060$ , min. 1250

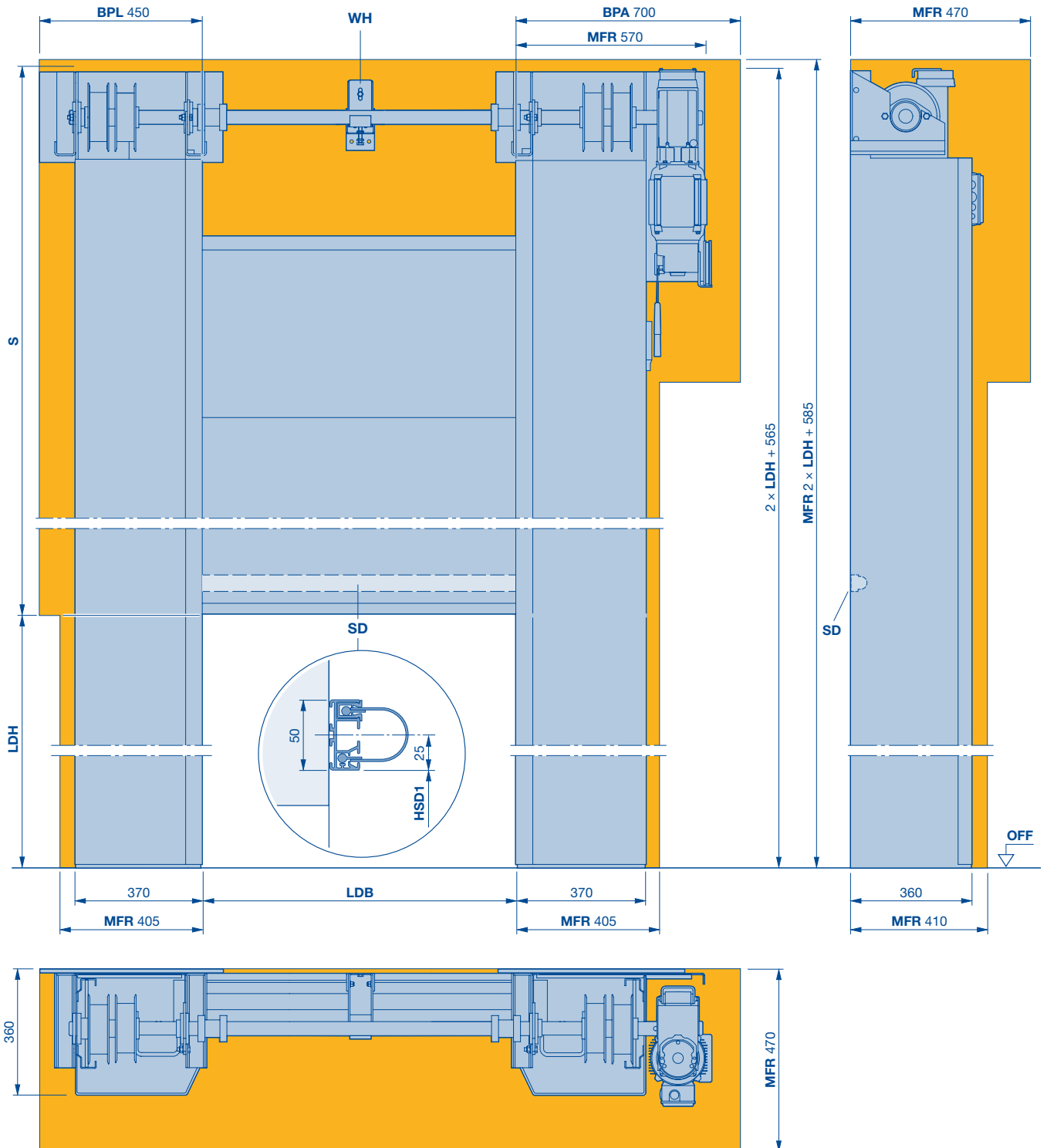
**HSD1** Height of the lintel seal (dimension on request)  
**LDB** Clear passage width  
**LDH** Clear passage height  
**LH** Track height  $LDH + S - Y2$  (at least  $LDH + Y1$ )  
**MFR** Space for fitting the door  
**OK** Top edge  
**OS** Top interference contour

**S** Required headroom at least 750, maximum  $LDH + 585$   
**SD** Lintel seal  
**UK** Bottom edge  
**US** Bottom interference contour  
**WH** Shaft support  
**Y1**  $LDH + S - 400 < 2500 = 440$   
 $LDH + S - 400 \geq 2500 = 495$   
**Y2**  $LDH + S - 400 < 2500 = 310$   
 $LDH + S - 400 \geq 2500 = 255$

# Spiral doors and high-speed sectional doors

## Iso Speed Cold V 100

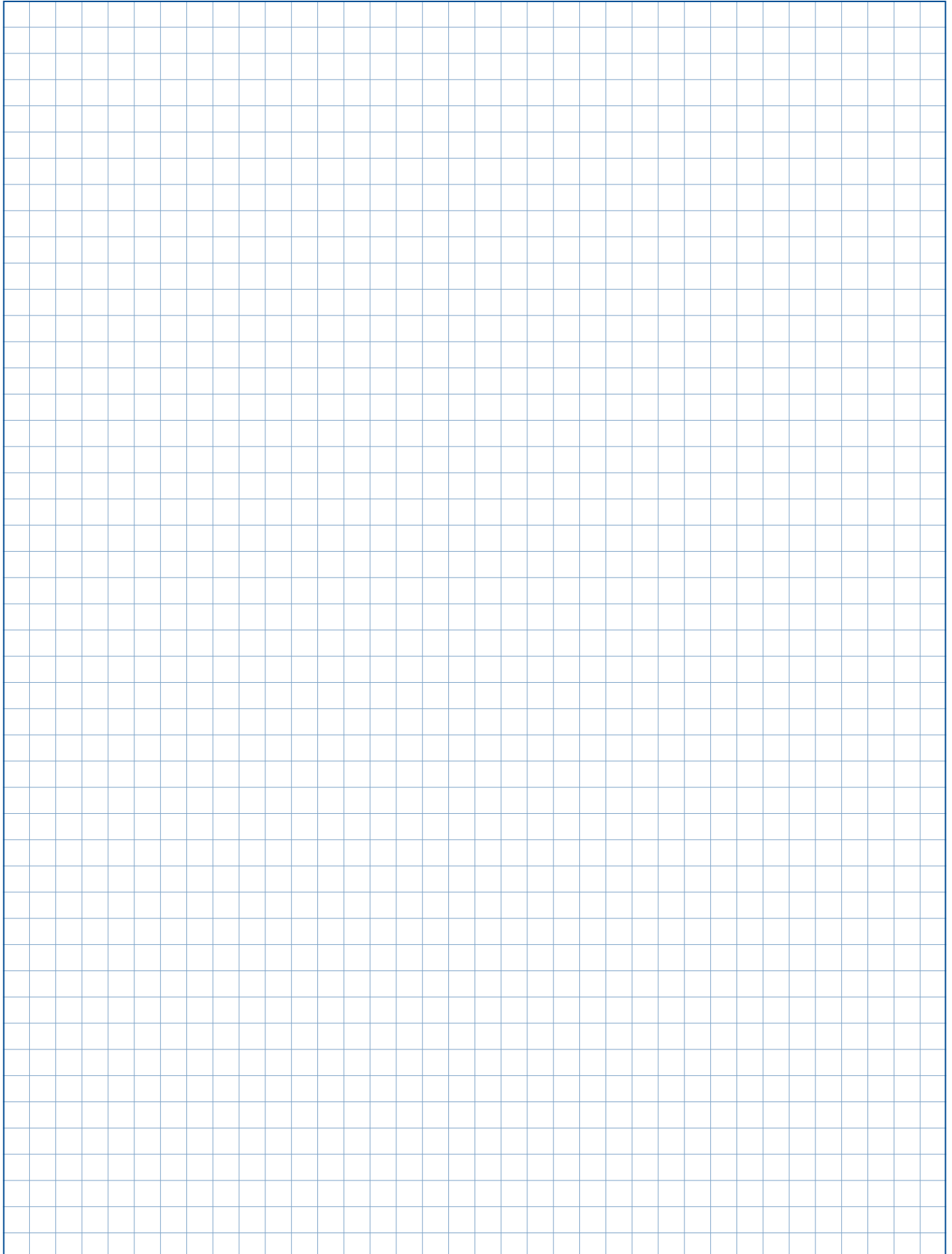
With PU insulating panels and track application V (cold-storage door and deep freeze door)



- BPA** Space required to fit and dismantle the operator
- BPL** Space required to fit and dismantle the support bearing
- DE** Ceiling height  $2 \times LDH + 585$
- HSD1** Height of the lintel seal (dimension on request)

- LDB** Clear passage width
- LDH** Clear passage height
- MFR** Space for fitting the door
- S** Required headroom at least  $LDH + 585$
- SD** Lintel seal
- WH** Shaft support

# Notes



# High-speed doors with flexible door leaf

## Technical data for internal doors

<b>Use</b>	Internal door	
	External door	
<b>Door sizes</b>	Maximum width LDB	
	Maximum height LDH	
<b>Speed</b>	Frequency converter control, 3-phase	Max. opening approx. m/s
	Frequency converter control, 1-phase	Max. opening approx. m/s
		Max. closing approx. m/s
<b>Security equipment</b>	EN 13241	
<b>Wind load resistance</b>	EN 12424	
<b>Door construction</b>	Self-supporting	
<b>Material</b>	Galvanized	
	Aluminium	
	Polished stainless steel V2 A	
<b>Operator cover and shaft cover</b>	Straight	
	30° chamfered	
<b>Door leaf</b>	Fabric, transparent	1.5/2.0 mm
	Aluminium or spring steel wind lock, curtain slide	
	Door leaf tension	
<b>SoftEdge or aluminium bottom profile</b>		
<b>Operator and control</b>	Frequency converter	
	Connecting voltage	1-phase, 1–230 V, N, PE
		3-phase, 3–400 V, N, PE
	Open-Stop-Close button	
	Main switch, all-pole switch-off	1-phase
		3-phase
	Emergency-off button	1-phase
		3-phase
	Fuse protection	1-phase, 3-phase
	Protection category for control	
	Protection category for operator	
	Closing zone monitoring	Safety light curtain IP 67
	Hold-open phase, in sec.	
	Electronic limit switch DES	
<b>Emergency opening</b>	Emergency crank handle	
	Emergency hand chain	
	UPS in a plastic cabinet	
<b>Volt-free contacts</b>		
<b>Plug-in control wiring</b>		

● = Standard

○ = Optional

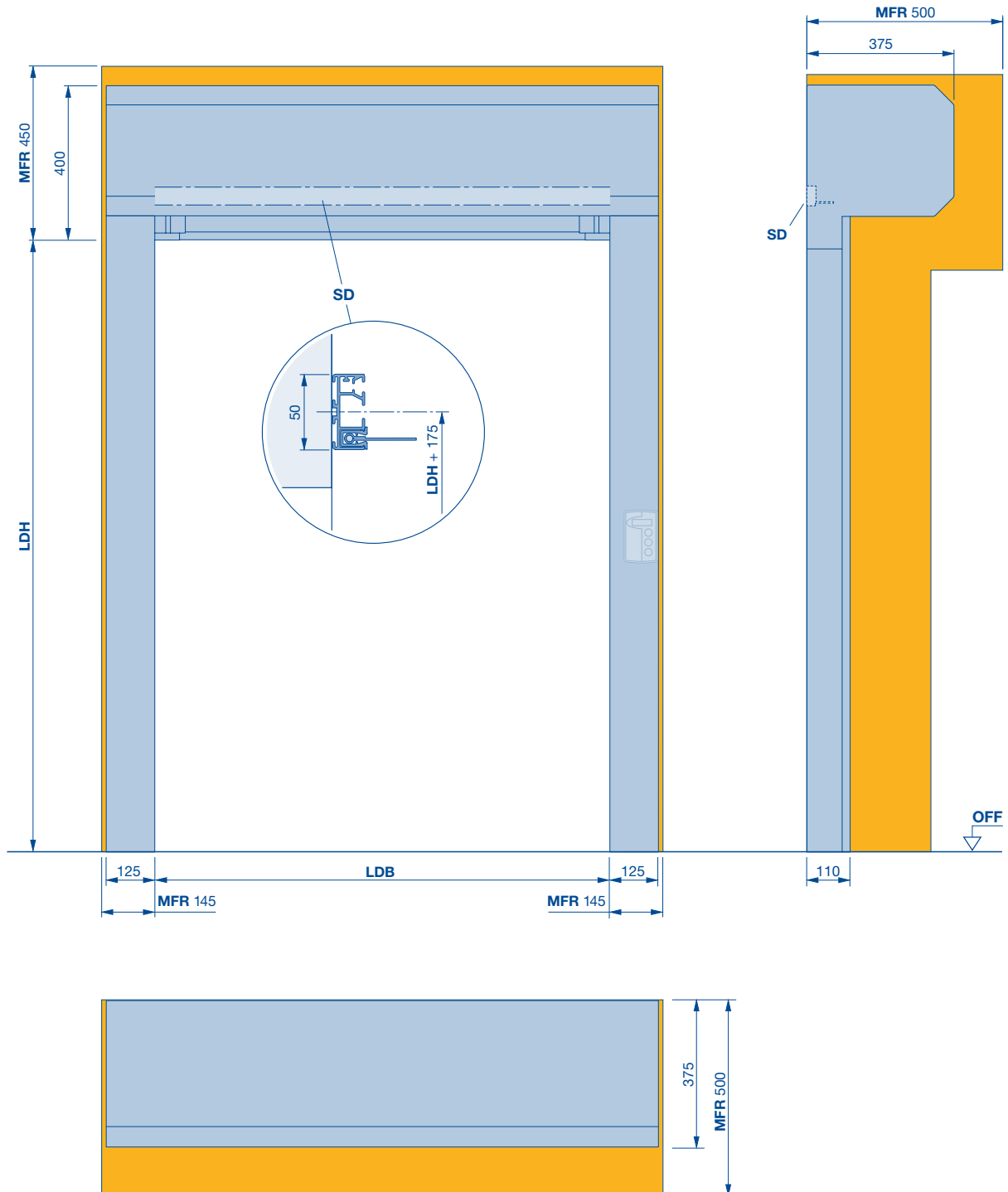
V 4015 SEL Alu-R	V 4008 SEL	V 5015 SEL	V 5030 SEL
●	●	●	●
—	—	—	—
4000	4000	5000	5000
4000	4000	5000	5000
—	—	—	2,0
1,5	0,8	1,5	2,0
0,8	0,8	0,8	0,8
●	●	●	●
npd, class 1 with aluminium bottom part 1)	npd	npd	npd, class 1 with aluminium bottom part
●	●	●	●
●2)	●	●	●
●	—	—	—
—	—	○	○
●	○	○	○
—	—	○	○
●	●	●	●
-/●/-	-/-/●	●/-/-	-/●/-
—	—	—	—
●/○	●/-	●/-	●/○
●	—	●	●
●	—	●	●
—	●	—	○
●	●	●	●
○	—	○	○
—	●	—	●
○	—	○	○
—	●	—	●
16 A, slow-acting	10 A, slow-acting	16 A, slow-acting	16 A, slow-acting
IP 65	IP 65	IP 65	IP 65
IP 54	IP 54	IP 54	IP 54
●	●	●	●
1-200	1-200	1-200	1-200
●	●	●	●
—	●	●	●
—	—	○	○
○	—	○	○
3	2	3	3
●	—	●	●

1) For personnel traffic, an additional UPS is required for emergency opening. 2) Barrel cover, painted in RAL 9006

# High-speed doors with flexible door leaf

## V 4015 SEL Alu-R

With tubular drive and SoftEdge



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

**SD** Lintel seal

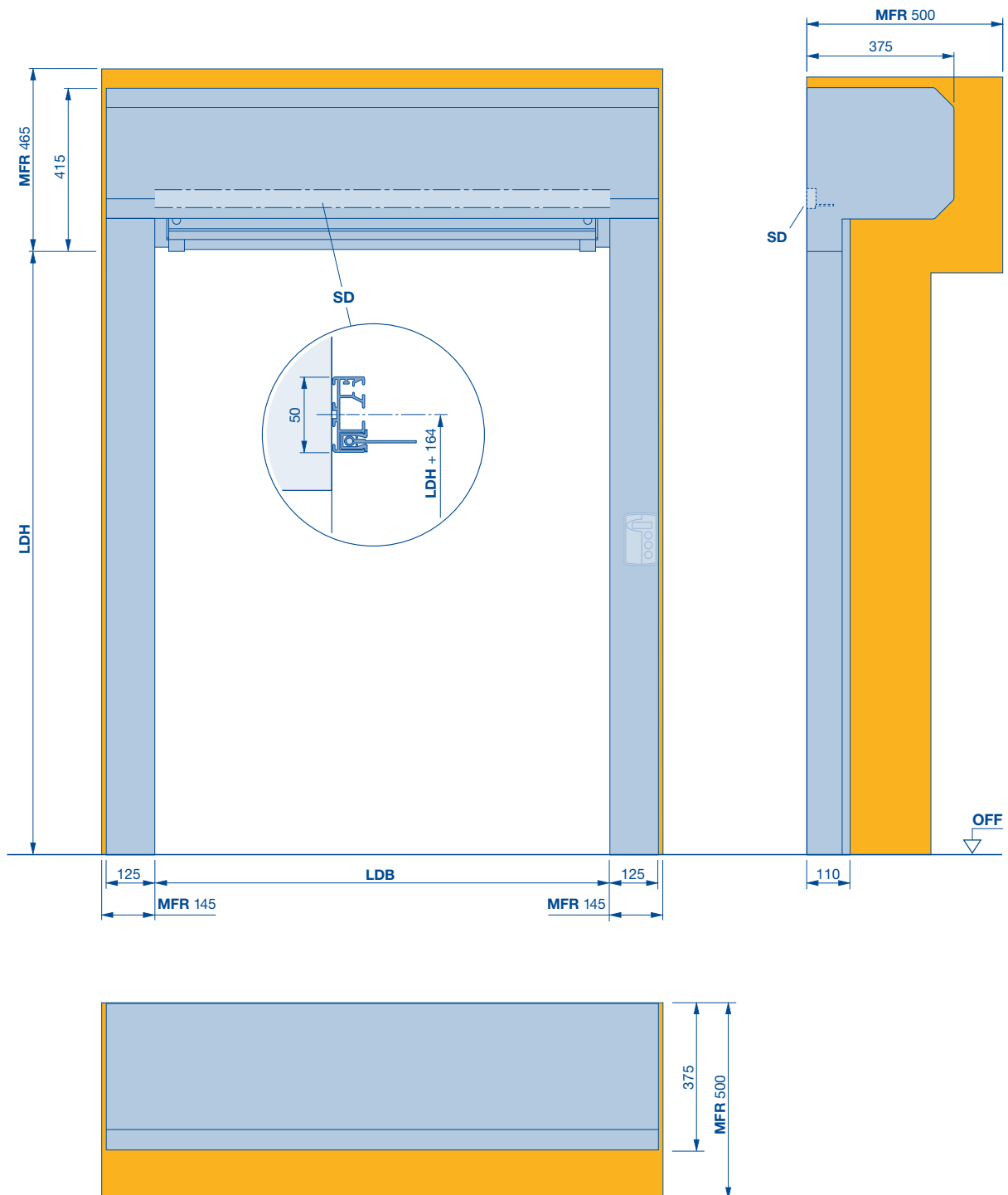
**MFR** Space for fitting the door side element



# High-speed doors with flexible door leaf

## V 4015 SEL Alu-R

With tubular drive and aluminium bottom part



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

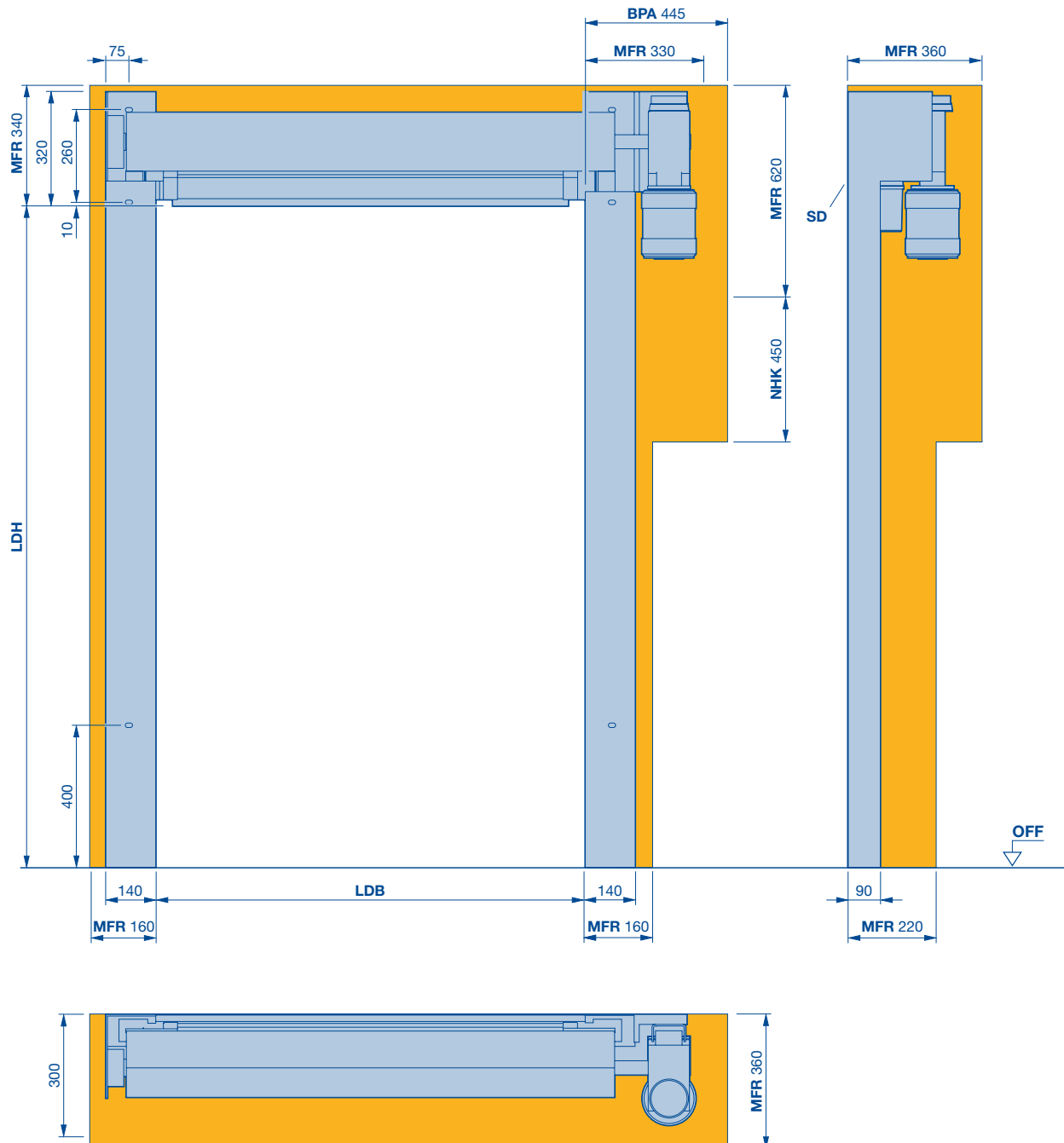
**LDH** Clear passage height

**SD** Lintel seal

**MFR** Space for fitting the door side element

# High-speed doors with flexible door leaf V 4008 SEL

With SoftEdge and anti-crash



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

**NHK** Space requirement for emergency crank handle

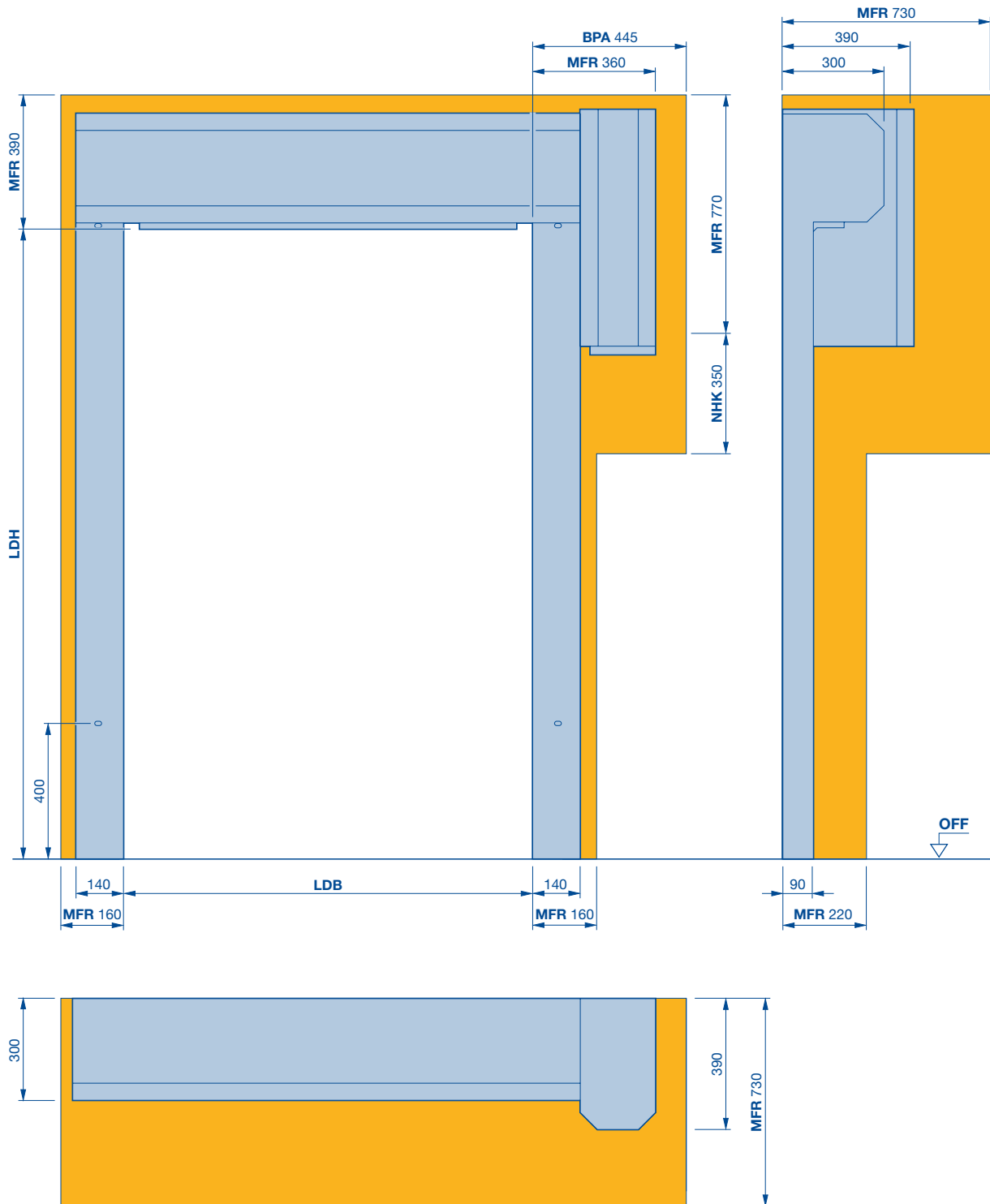
**SD** Lintel seal

**MFR** Space for fitting the door side element

# High-speed doors with flexible door leaf V 4008 SEL

With SoftEdge and anti-crash

Full cladding, straight



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

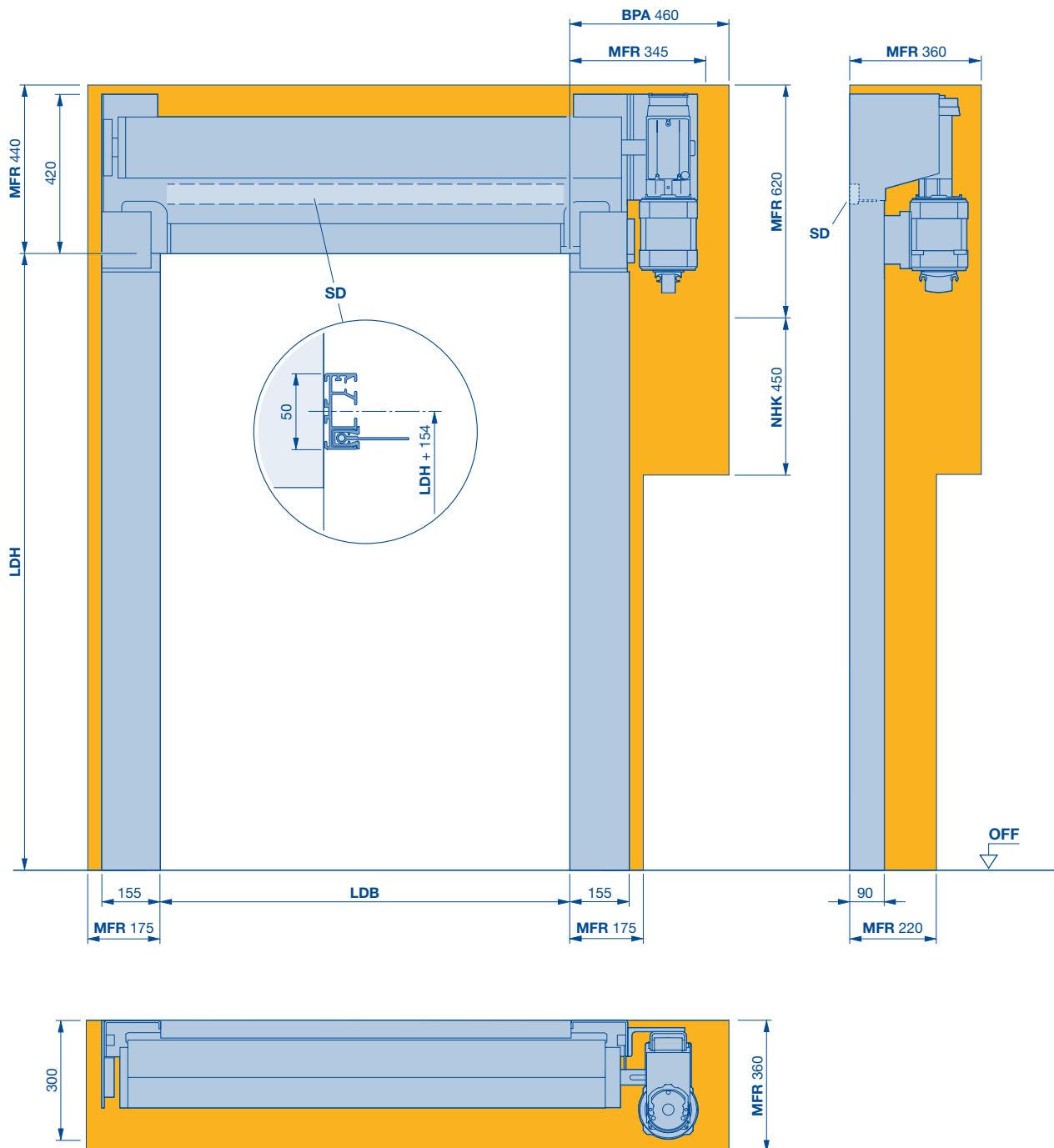
**NHK** Space requirement for emergency crank handle

**SD** Lintel seal

**MFR** Space for fitting the door side element

# High-speed doors as internal doors V 5015 SEL

With SoftEdge and anti-crash



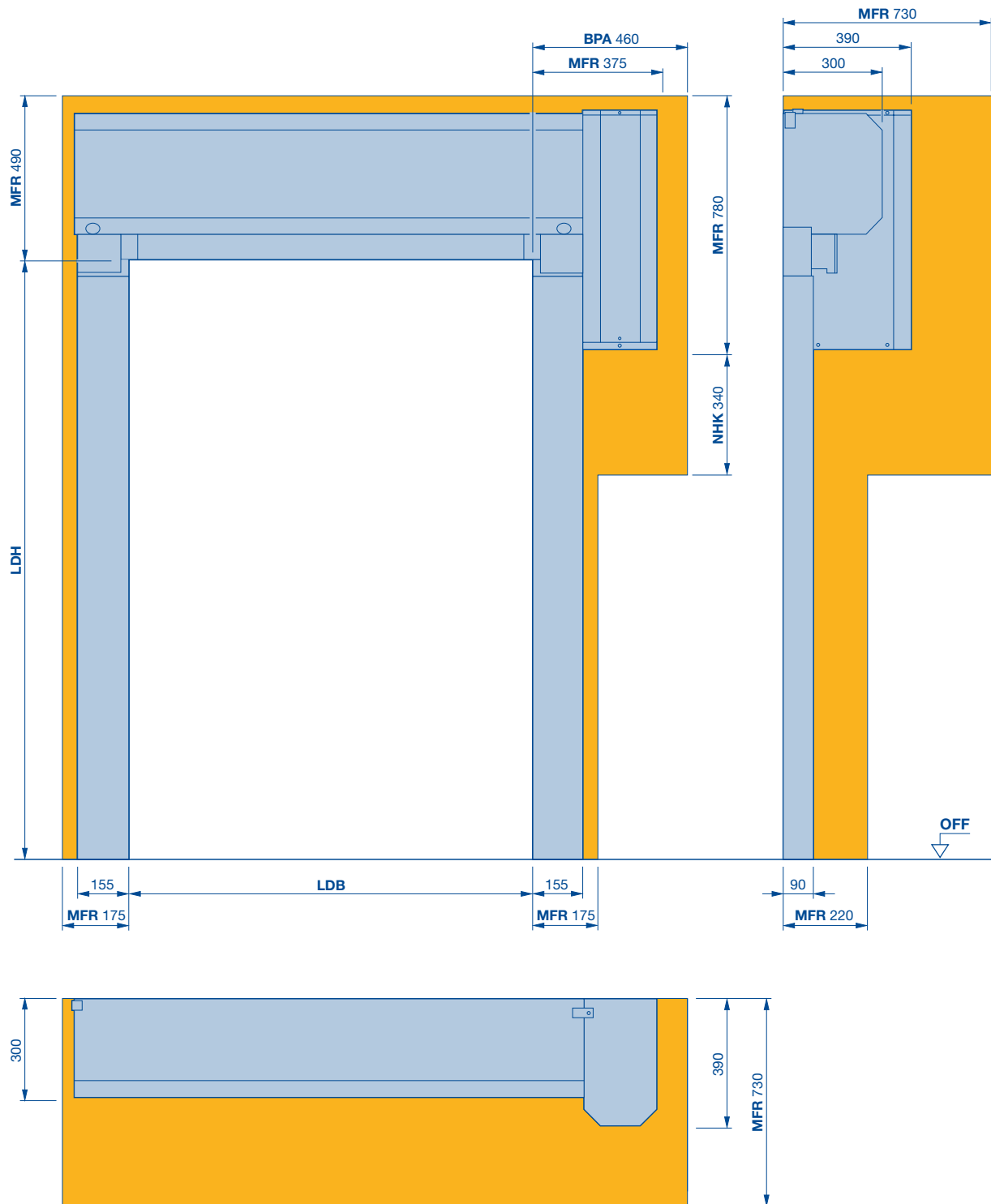
**BPA** Space required to fit and dismantle the operator  
**LDB** Clear passage width  
**LDH** Clear passage height

**MFR** Space for fitting the door  
**NHK** Space requirement for emergency crank handle  
**SD** Lintel seal

# High-speed doors with flexible door leaf V 5015 SEL

With SoftEdge and anti-crash

Full cladding, straight



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

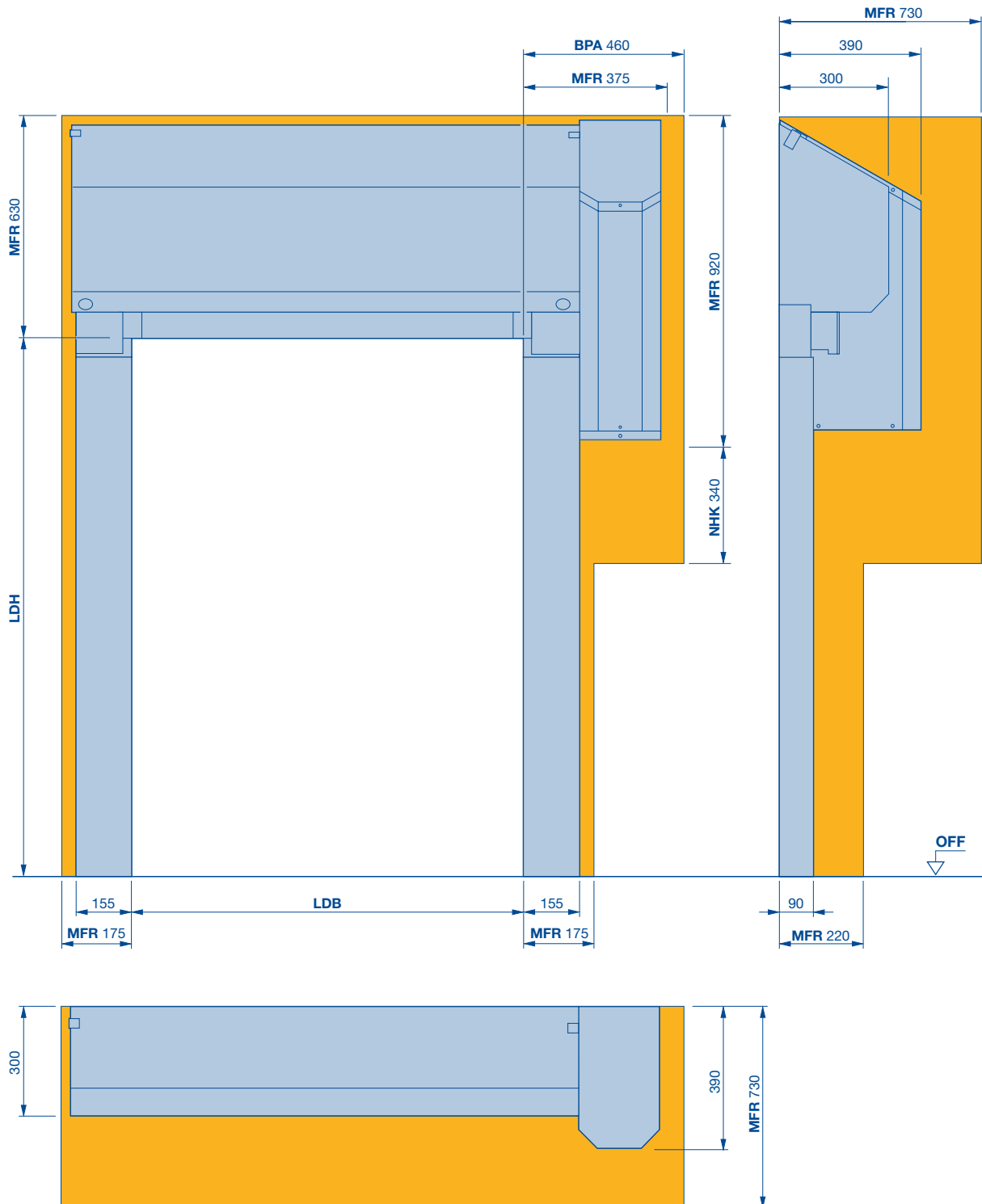
**MFR** Space for fitting the door

**NHK** Space requirement for emergency crank handle

# High-speed doors with flexible door leaf V 5015 SEL

With SoftEdge and anti-crash

Full cladding, chamfered



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

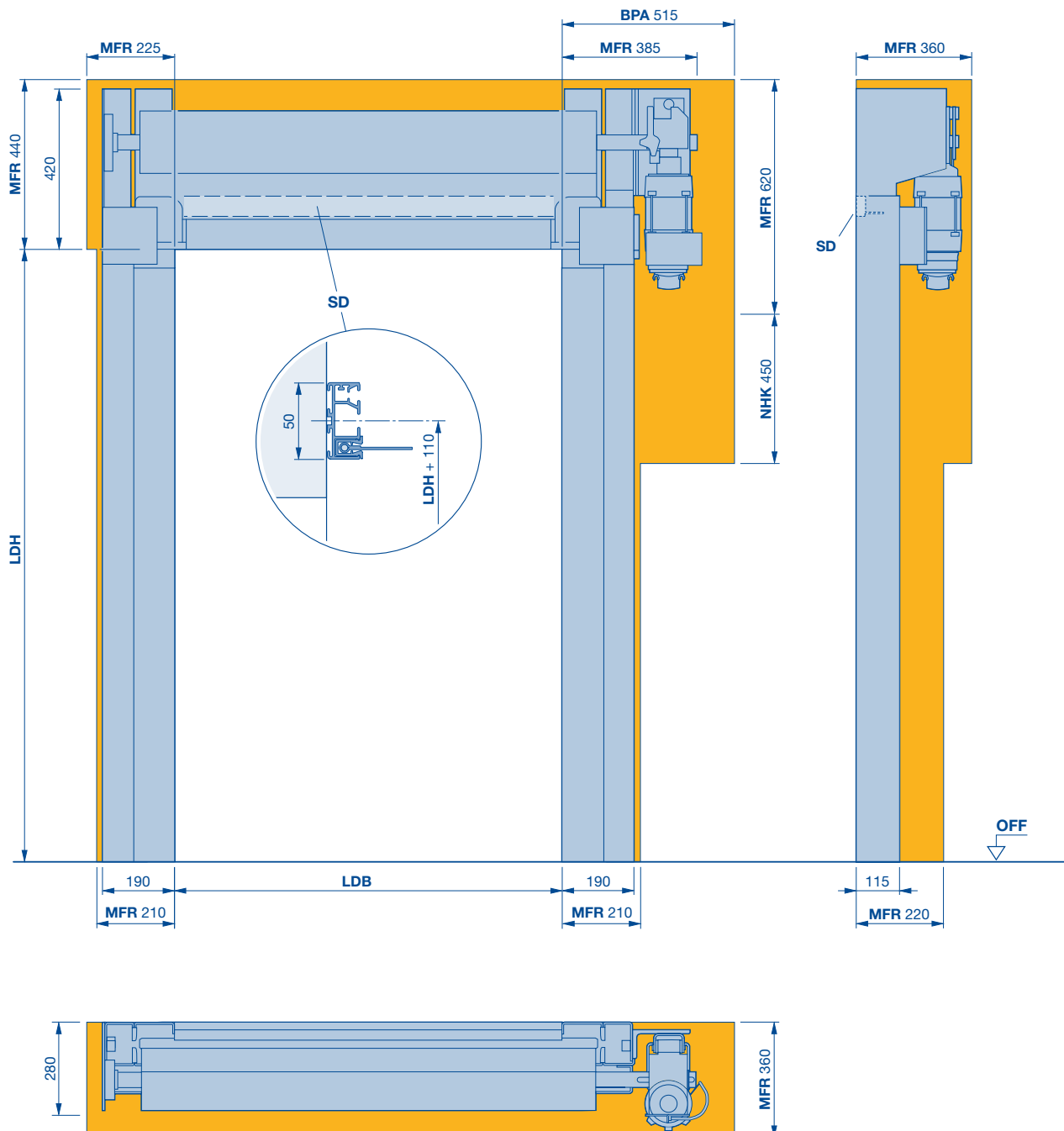
**LDH** Clear passage height

**MFR** Space for fitting the door

**NHK** Space requirement for emergency crank handle

# High-speed doors with flexible door leaf V 5030 SEL

With SoftEdge and anti-crash



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

**MFR** Space for fitting the door

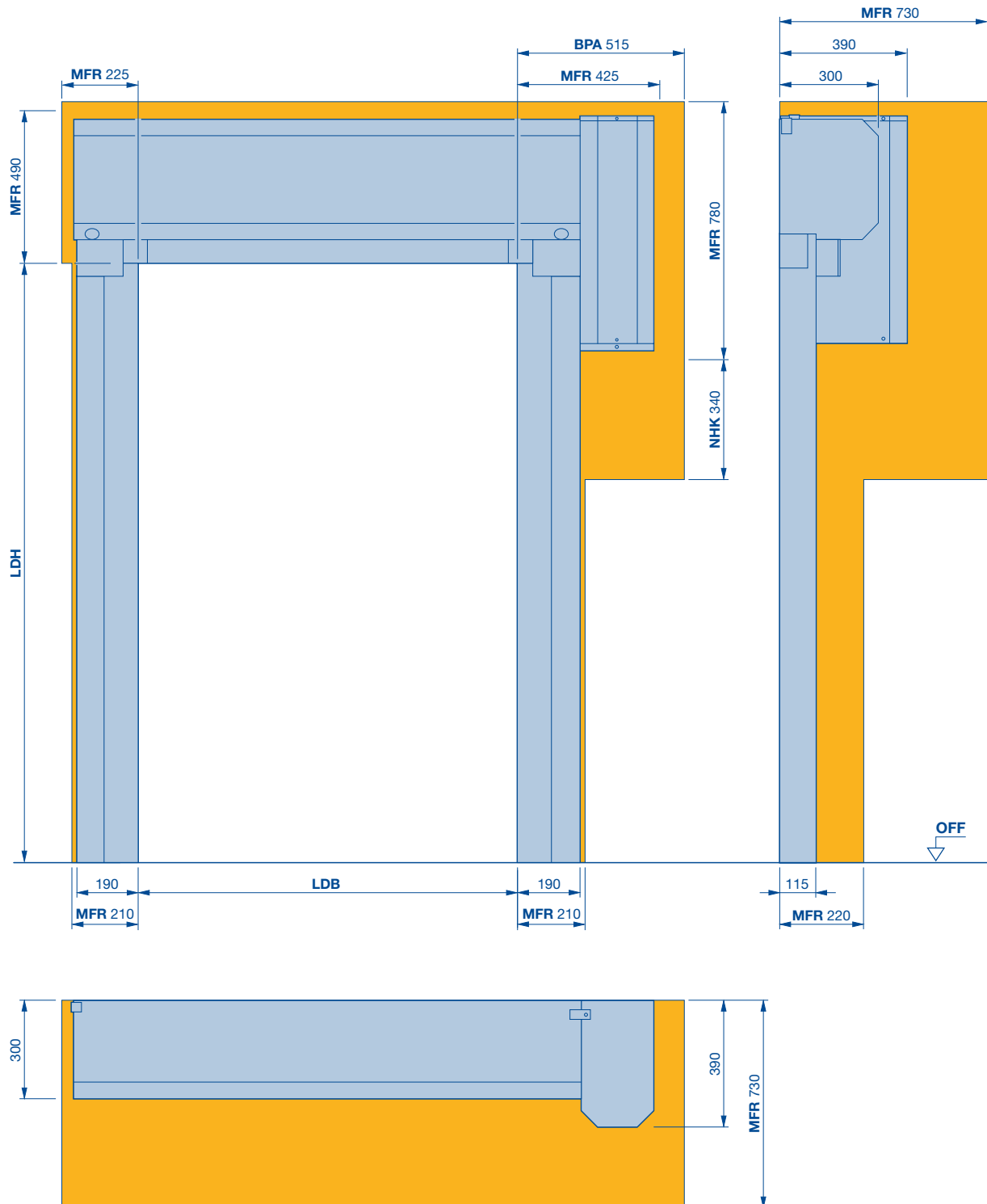
**NHK** Space requirement for emergency crank handle

**SD** Lintel seal

# High-speed doors with flexible door leaf V 5030 SEL

With SoftEdge and anti-crash

Full cladding, straight



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

**MFR** Space for fitting the door

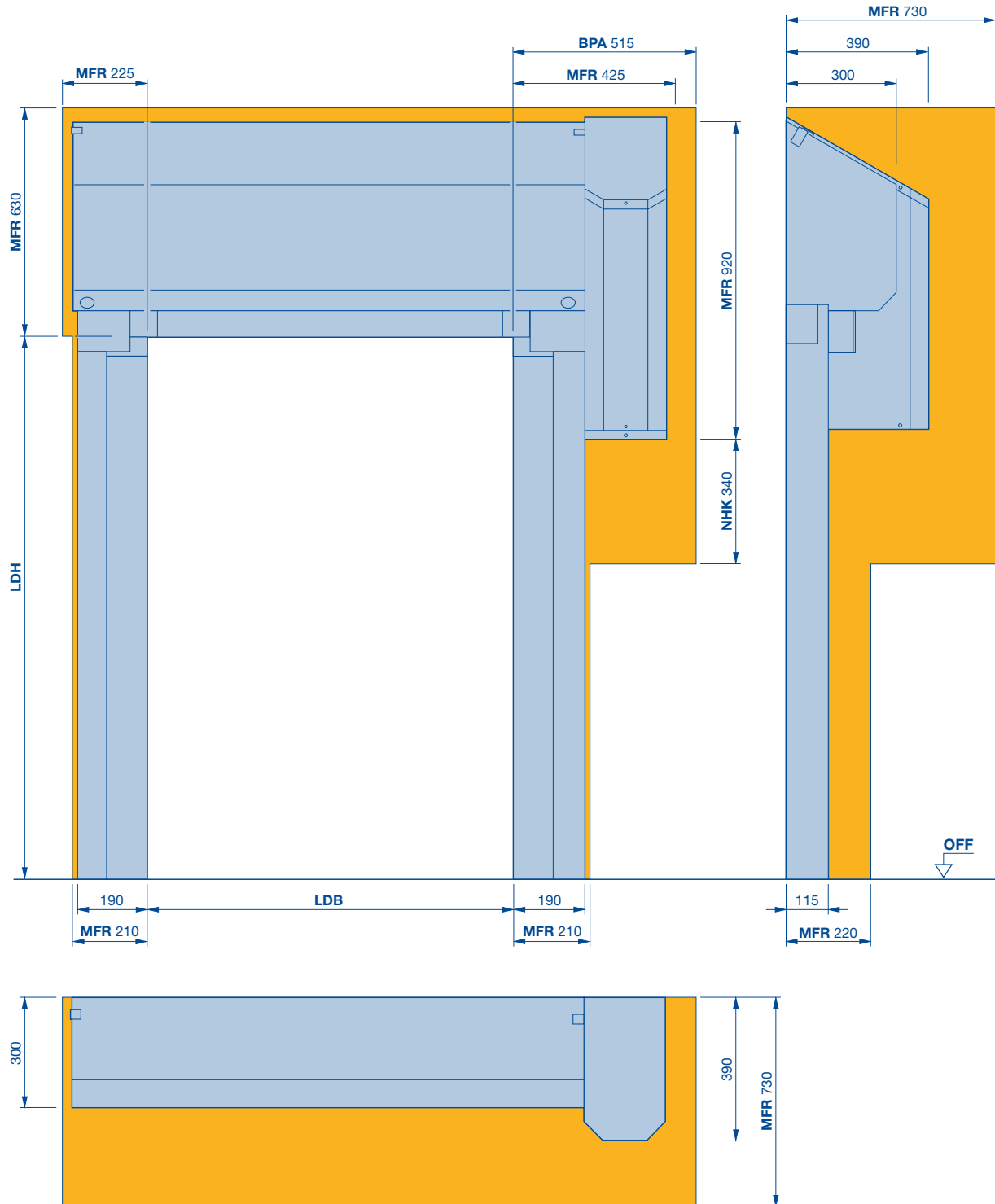
**NHK** Space requirement for emergency crank handle



# High-speed doors with flexible door leaf V 5030 SEL

With SoftEdge and anti-crash

Full cladding, chamfered



**BPA** Space required to fit and dismantle the operator

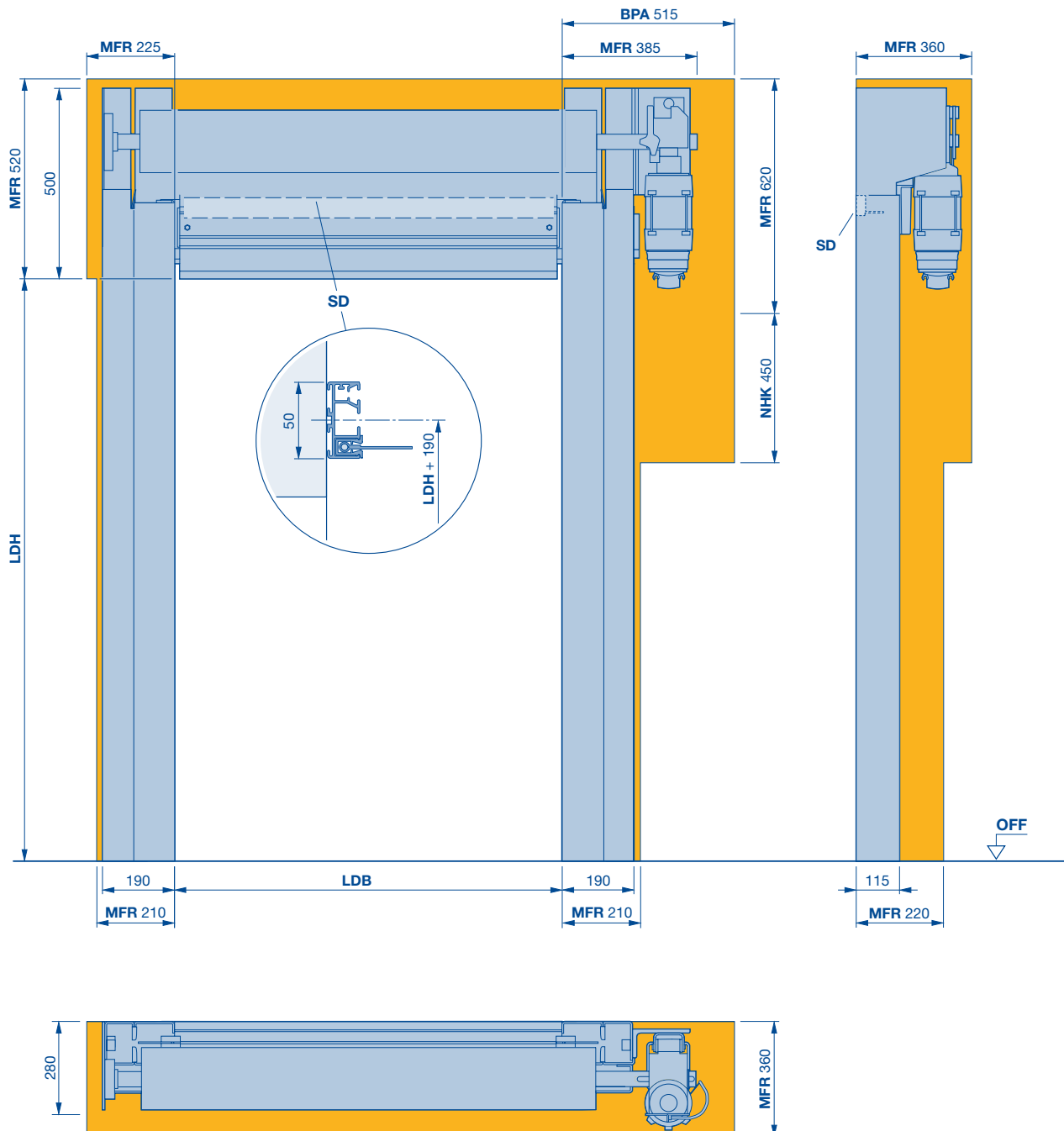
**LDB** Clear passage width

**LDH** Clear passage height

**MFR** Space for fitting the door

**NHK** Space requirement for emergency crank handle

# High-speed doors with flexible door leaf V 5030 SEL

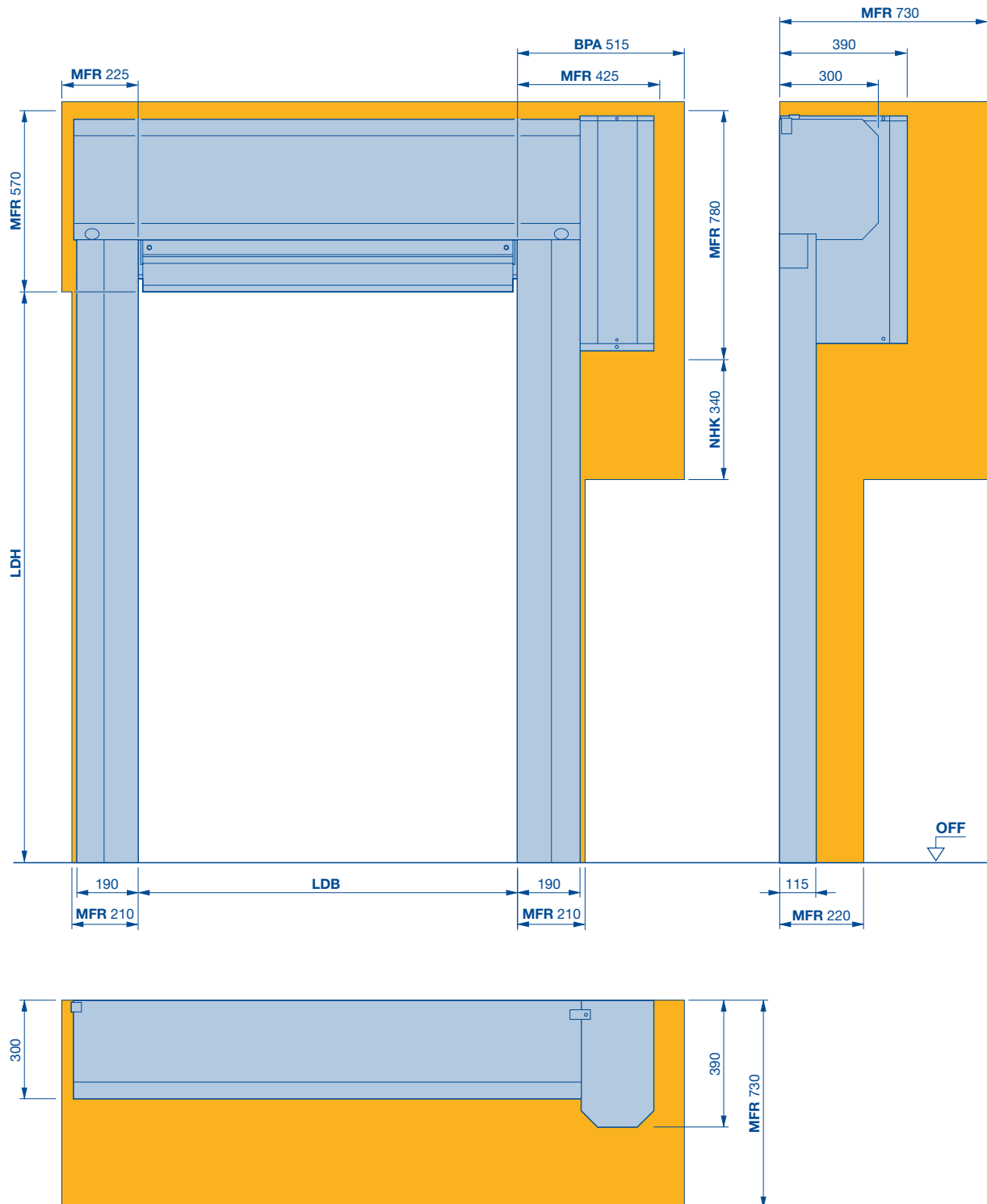


**BPA** Space required to fit and dismantle the operator  
**LDB** Clear passage width  
**LDH** Clear passage height

**MFR** Space for fitting the door  
**NHK** Space requirement for emergency crank handle  
**SD** Lintel seal

# High-speed doors with flexible door leaf V 5030 SEL

Full cladding, straight



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

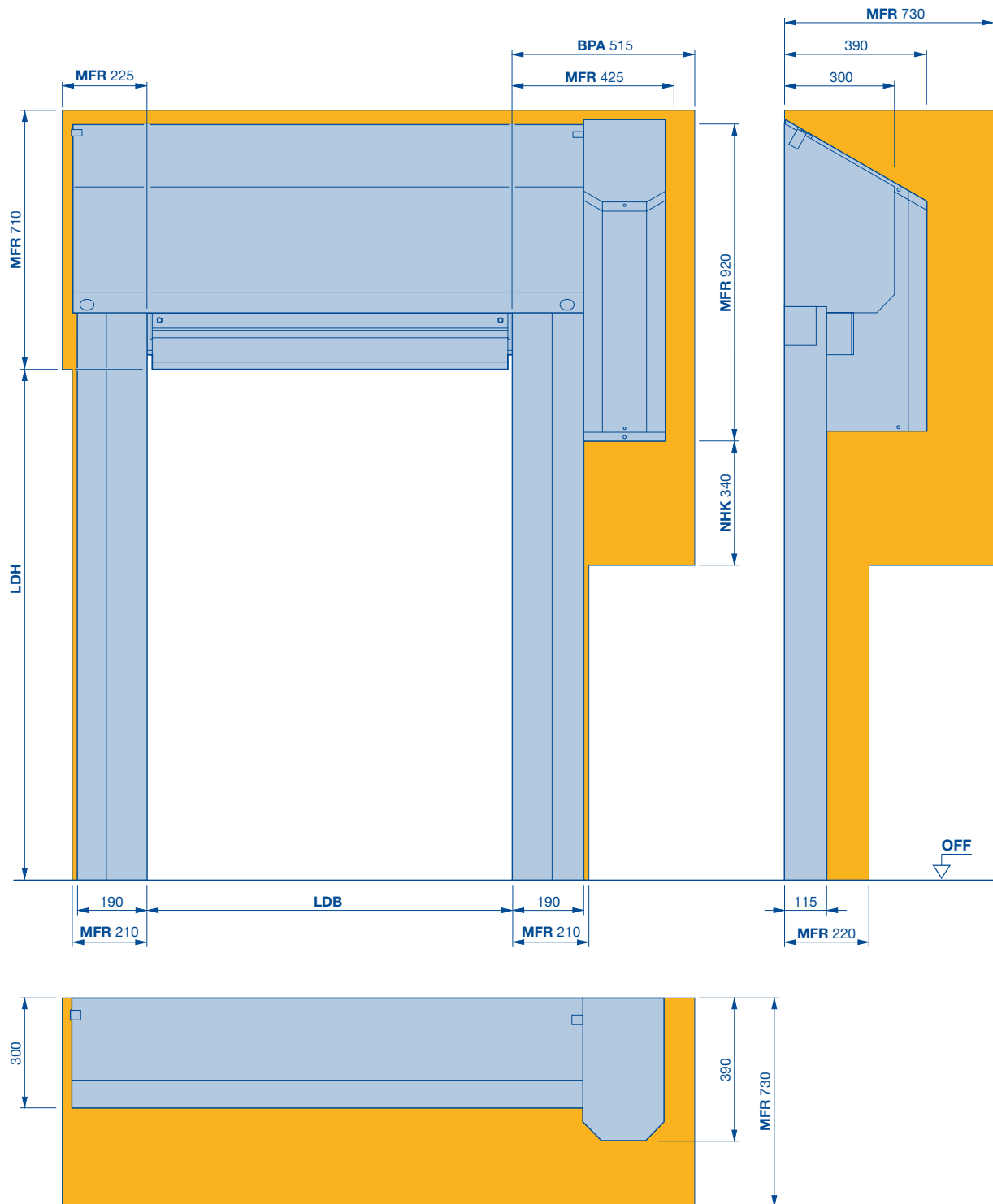
**MFR** Space for fitting the door

**NHK** Space requirement for emergency crank handle

# High-speed doors with flexible door leaf V 5030 SEL

With aluminium bottom part and anti-crash

Full cladding, chamfered



**BPA** Space required to fit and dismantle the operator

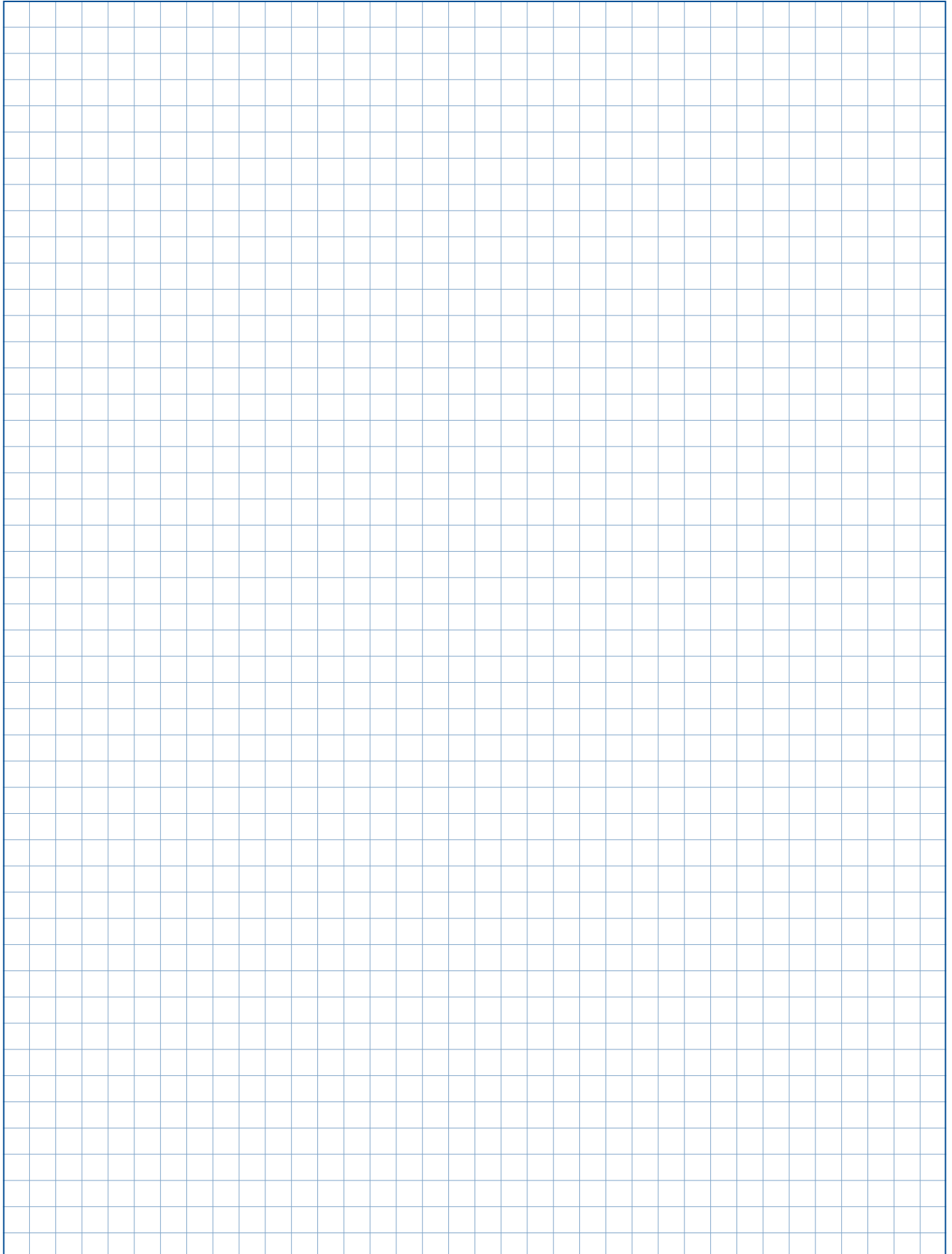
**LDB** Clear passage width

**LDH** Clear passage height

**MFR** Space for fitting the door

**NHK** Space requirement for emergency crank handle

# Notes



# High-speed doors with flexible door leaf

## Technical data for external doors and internal doors

<b>Use</b>	Internal door	
	External door	
<b>Door sizes</b>	Maximum width LDB	
	Maximum height LDH	
<b>Speed</b>	Frequency converter control, 1-phase	Max. opening approx. m/s
	Frequency converter control, 3-phase	Max. opening approx. m/s
<b>Security equipment</b>	EN 13241	
<b>Wind load resistance</b>	EN 12424	LDB ≤ 4000 mm
		LDB > 4000 mm, ≤ 5000 mm
		LDB > 5000 mm
<b>Door construction</b>	Self-supporting	
<b>Door leaf material and surface</b>	Galvanized	
	Galvanized steel, coated, in colours based on RAL	
	Polished stainless steel V2 A	
<b>Operator cover and shaft cover</b>	Straight	
	30° chamfered (5°)	
<b>Door leaf</b>	Fabric, transparent	1.5 / 2.0 mm
		2.4 / 4.0 mm
	Transparent	4.0 mm
	Aluminium / spring steel wind lock	
	Door leaf tension	
<b>SoftEdge, aluminium bottom profile</b>		
<b>Operator and control</b>	Frequency converter	
	Connecting voltage	1-phase, 1–230 V, N, PE
		3-phase, 3–400 V, N, PE
	Open-Stop-Close button	
	Main switch, all-pole switch-off	1-phase
		3-phase
	Emergency-off button	1-phase
		3-phase
	Fuse protection	1-phase, 3-phase
	Protection category for control	
	Protection category for operator	
	Closing zone monitoring	Safety light curtain IP 67
		Closing edge safety device and photocell
	Hold-open phase, in sec.	
	Electronic limit switch DES	
<b>Emergency opening</b>	Crank handle	
	Emergency hand chain	
	UPS in plastic cabinet for frequency converter control 230 V, 1-phase	
<b>Volt-free contacts</b>		
<b>Plug-in control wiring</b>		

● = Standard

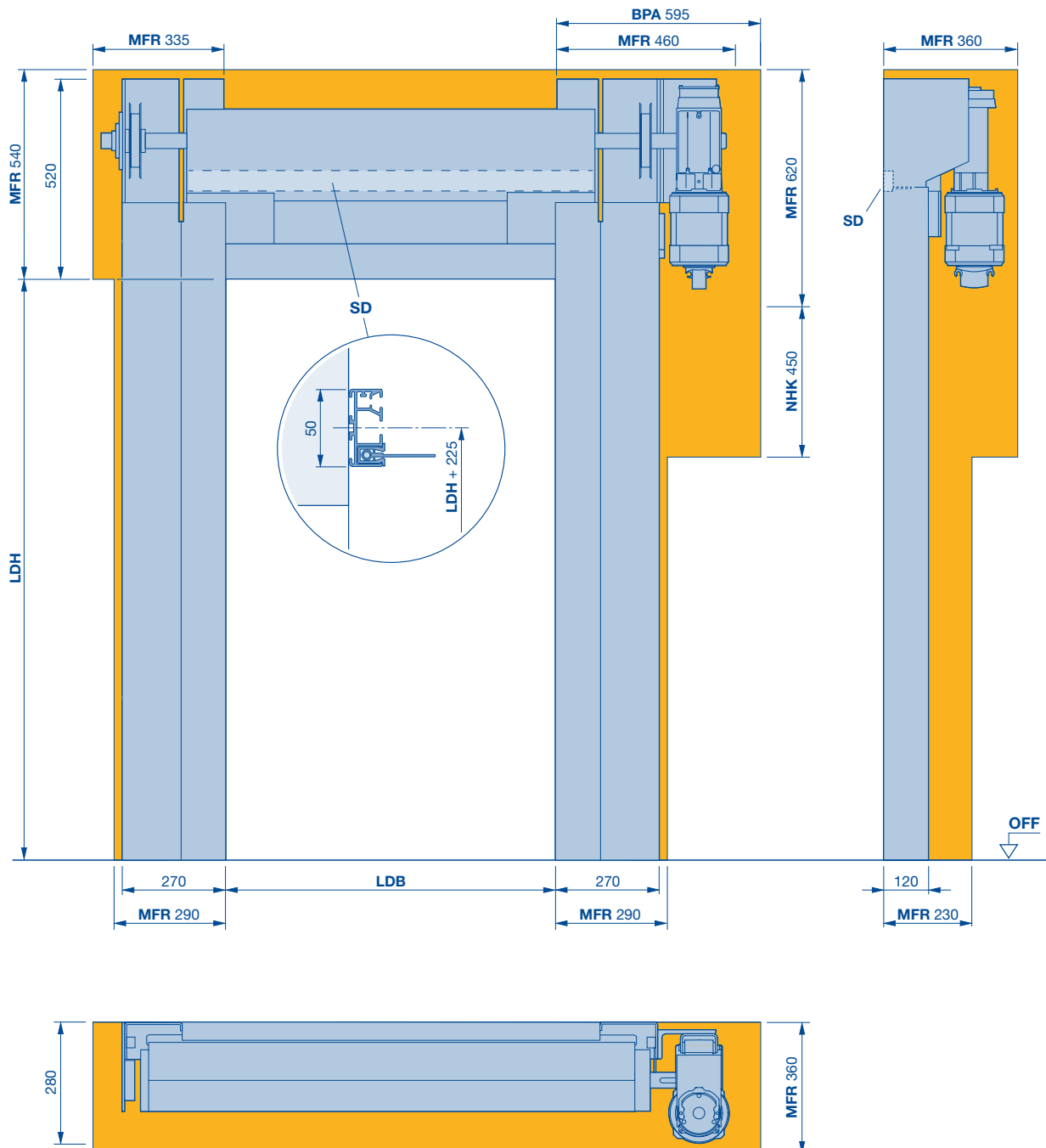
○ = Optional

V 6030 SEL	V 6020 TRL	V 10008
●	●	●
●	●	●
5000	6000	10000
6000	7000	6250
2,0	2,0	—
2,0	2,0	1.5/0.8 1)
●	●	●
Class 2	Class 2	Class 4
Class 2	Class 2	Class 3
Class 2	Class 2	Class 2
●	—	—
●	●	●
0	0	0
0	0	—
0	0	—
0	0	(0)
●	—	●
—	0	—
—	●	—
-/●	-/●	-/●
●	●	●
●/0	-/●	-/●
●	●	●
●	●	—
0	●/0	●
●	●	●
0	0	—
●	●	●
0	0	—
●	●	●
16 A, slow-acting	16 A, slow-acting	16 A, slow-acting
IP 65	IP 65	IP 65
IP 54	IP 54	IP 54
●	●	—
—	—	●
1-200	1-200	1-200
●	●	●
●	●	—
0	0	●
0	0	—
3	3	3
●	●	—

1) If LB > 6000 mm

# High-speed doors with flexible door leaf V 6030 SEL

With SoftEdge and anti-crash



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

**MFR** Space for fitting the door

**NHK** Space requirement for emergency crank handle

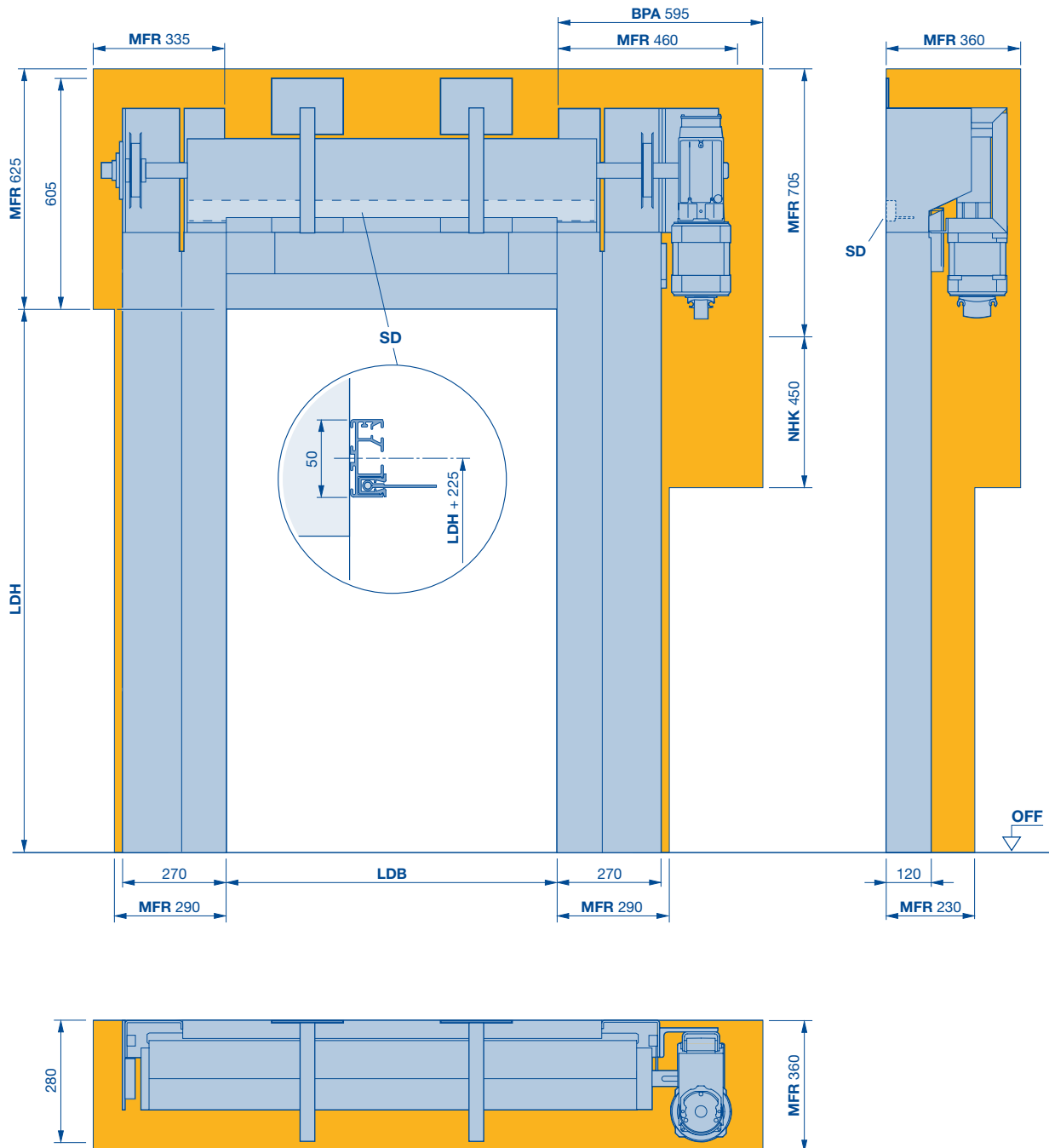
**SD** Lintel seal



# High-speed doors with flexible door leaf V 6030 SEL

With SoftEdge and anti-crash

Curtain fixing



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

**MFR** Space for fitting the door

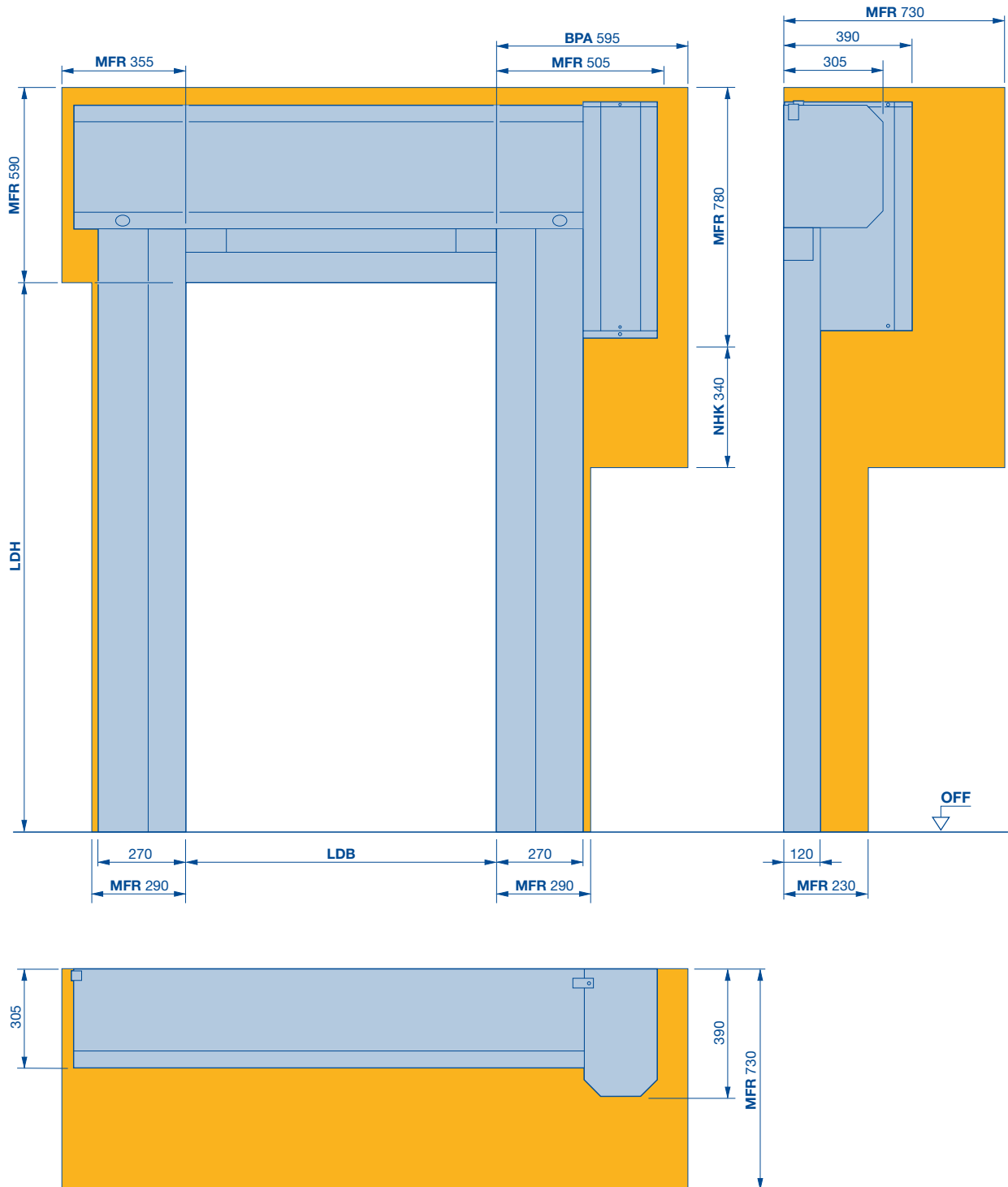
**NHK** Space requirement for emergency crank handle

**SD** Lintel seal

# High-speed doors with flexible door leaf V 6030 SEL

With SoftEdge and anti-crash

Full cladding, straight



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

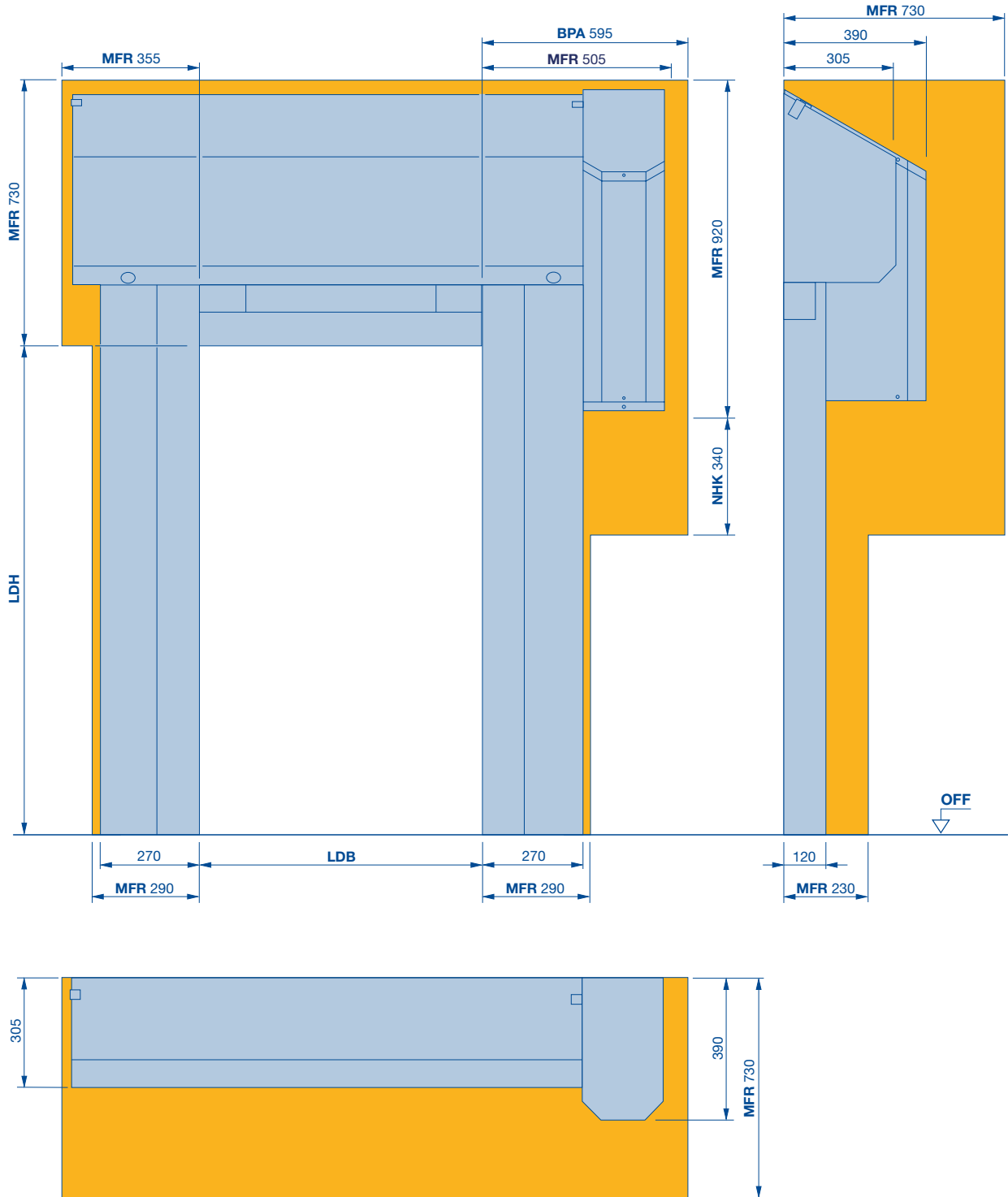
**MFR** Space for fitting the door

**NHK** Space requirement for emergency crank handle

# High-speed doors with flexible door leaf V 6030 SEL

With SoftEdge and anti-crash

Full cladding, chamfered



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

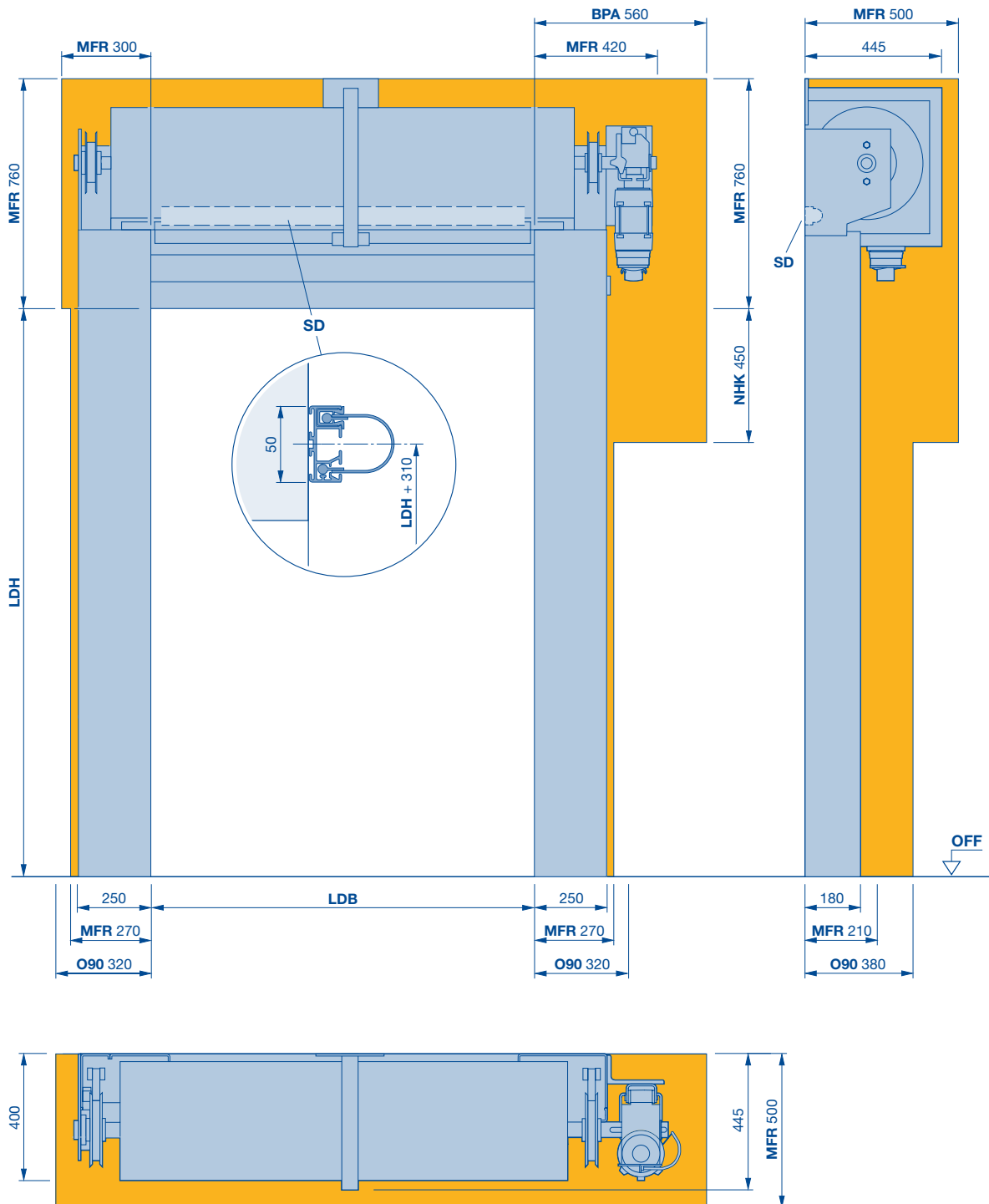
**LDH** Clear passage height

**MFR** Space for fitting the door

**NHK** Space requirement for emergency crank handle

# High-speed doors with flexible door leaf V 6020 TRL

Fully transparent



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

**MFR** Space for fitting the door

**NHK** Space requirement for emergency crank handle

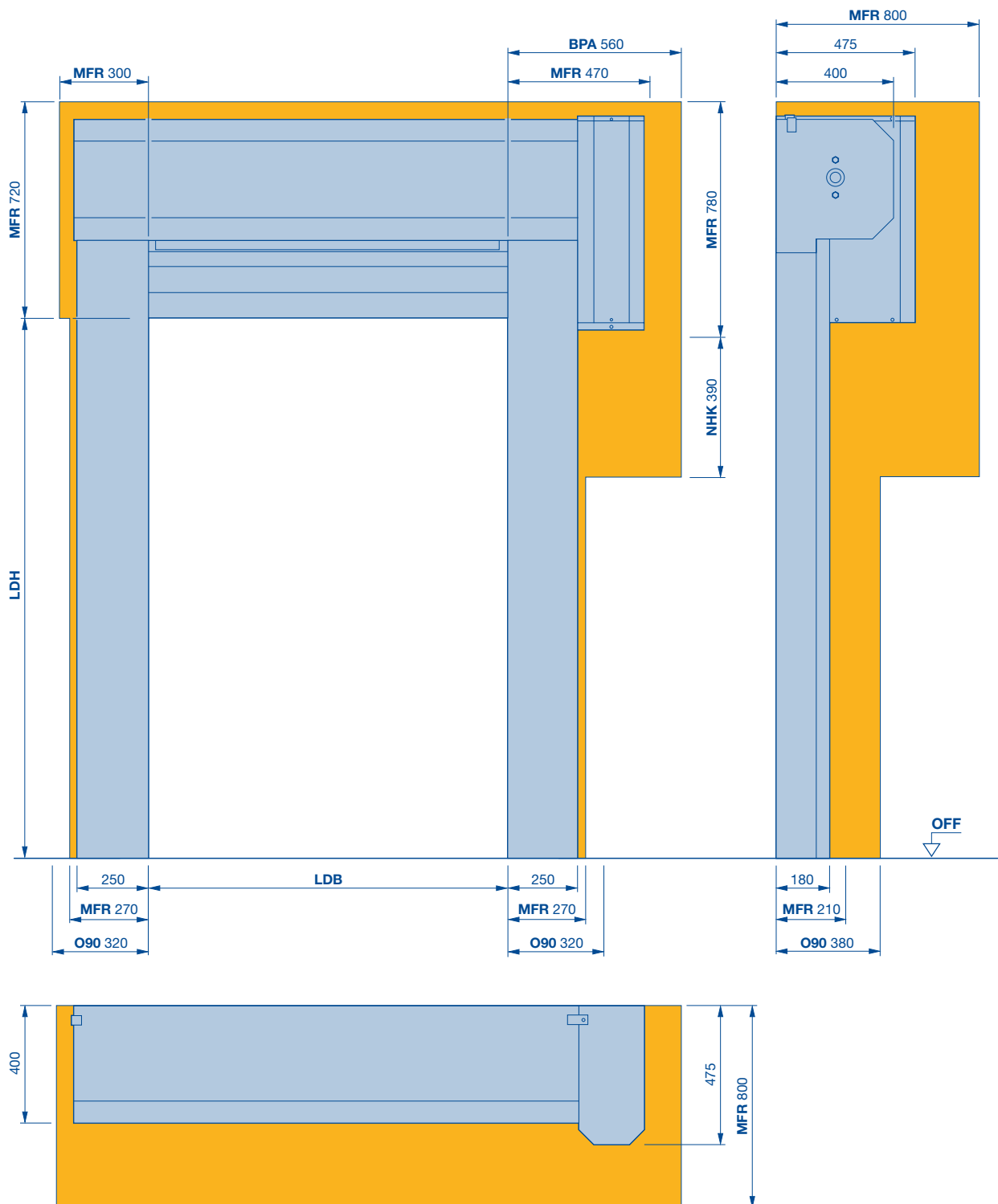
**O90** For opening 90°

**SD** Lintel seal

# High-speed doors with flexible door leaf V 6020 TRL

Fully transparent

Full cladding, straight



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

**MFR** Space for fitting the door

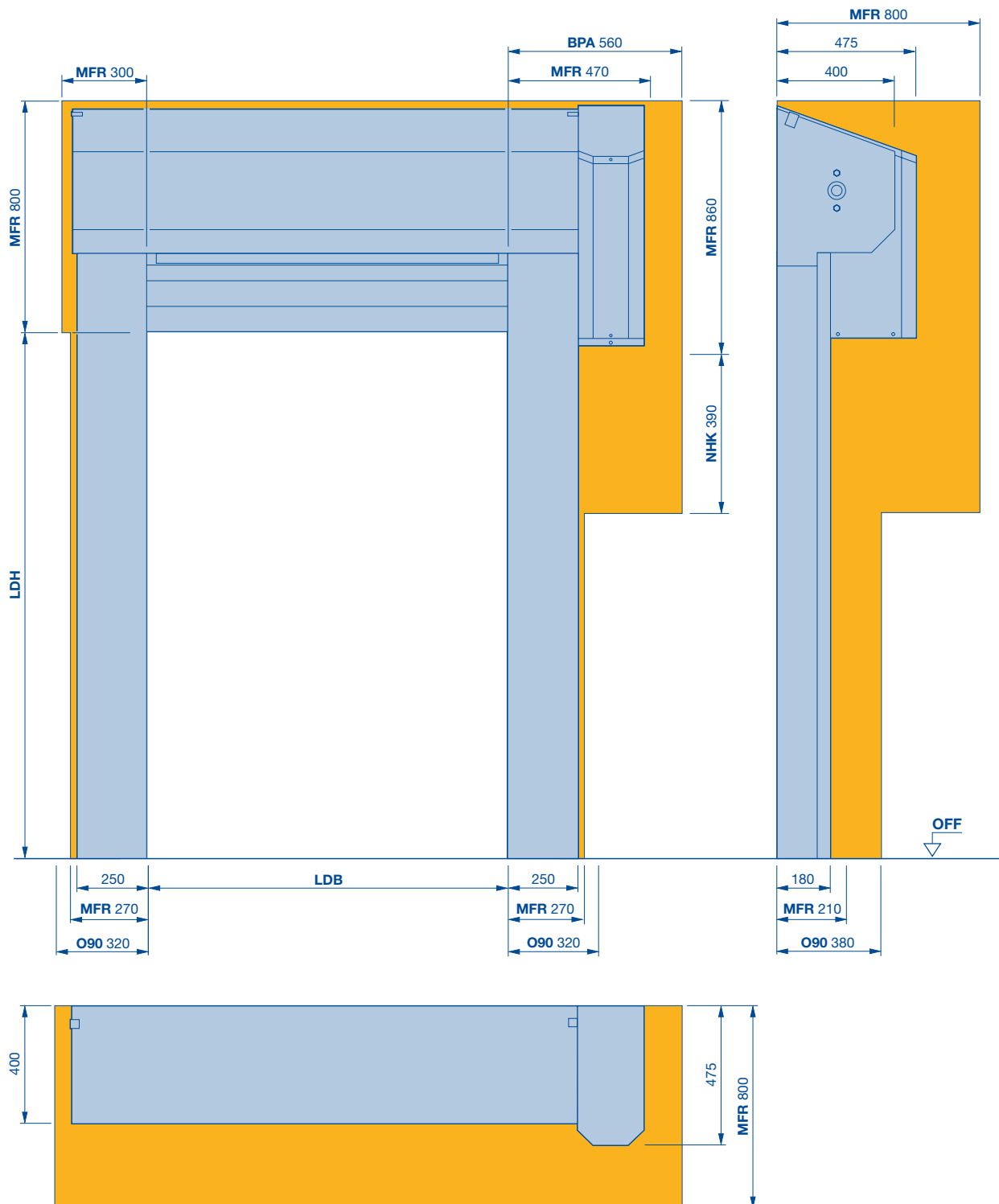
**NHK** Space requirement for emergency crank handle

**O90** For opening 90°

# High-speed doors with flexible door leaf V 6020 TRL

Fully transparent

Full cladding, chamfered

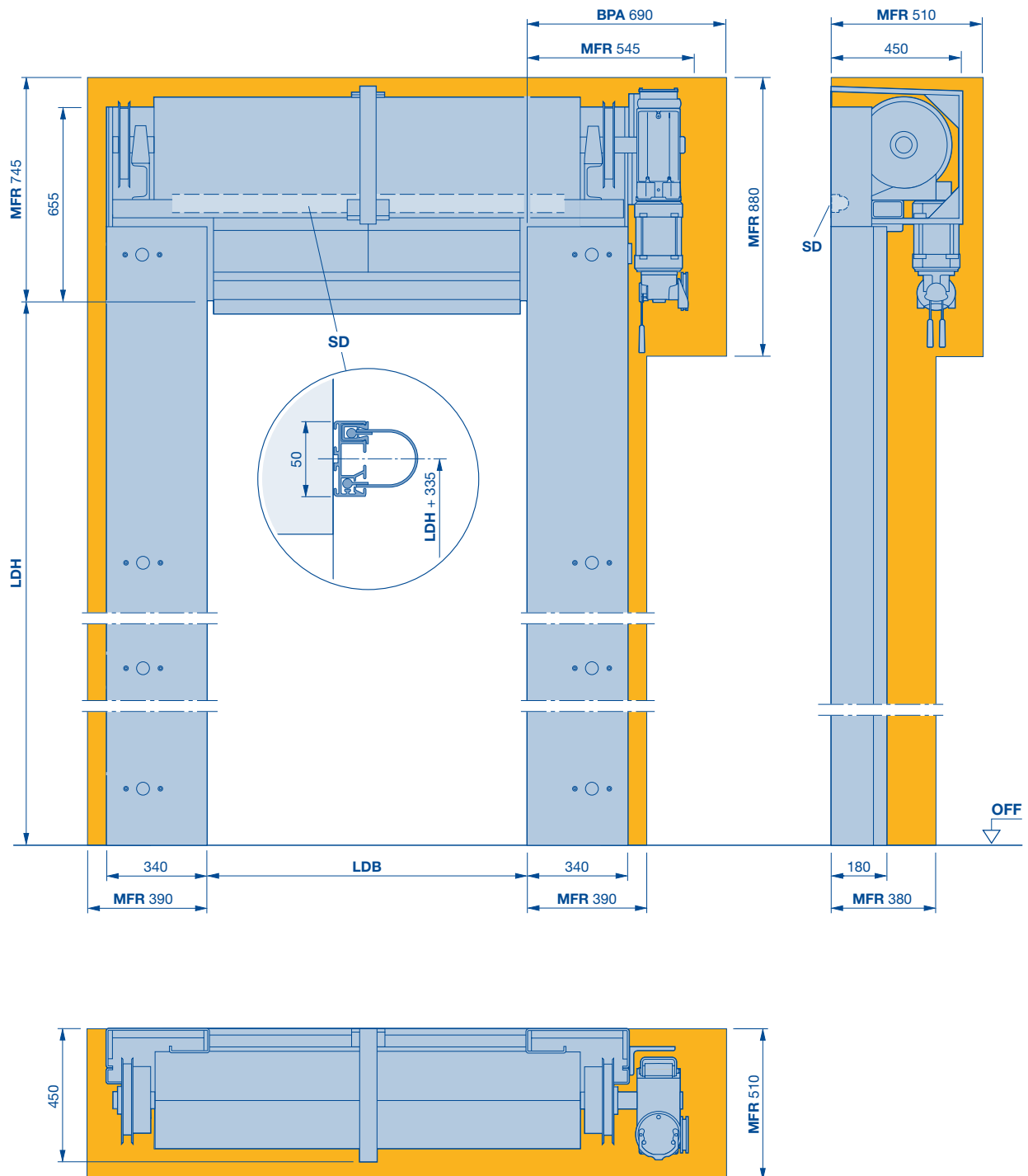


**BPA** Space required to fit and dismantle the operator  
**LDB** Clear passage width  
**LDH** Clear passage height

**MFR** Space for fitting the door  
**NHK** Space requirement for emergency crank handle  
**O90** For opening 90°

# High-speed doors with flexible door leaf V 10008

Large door



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

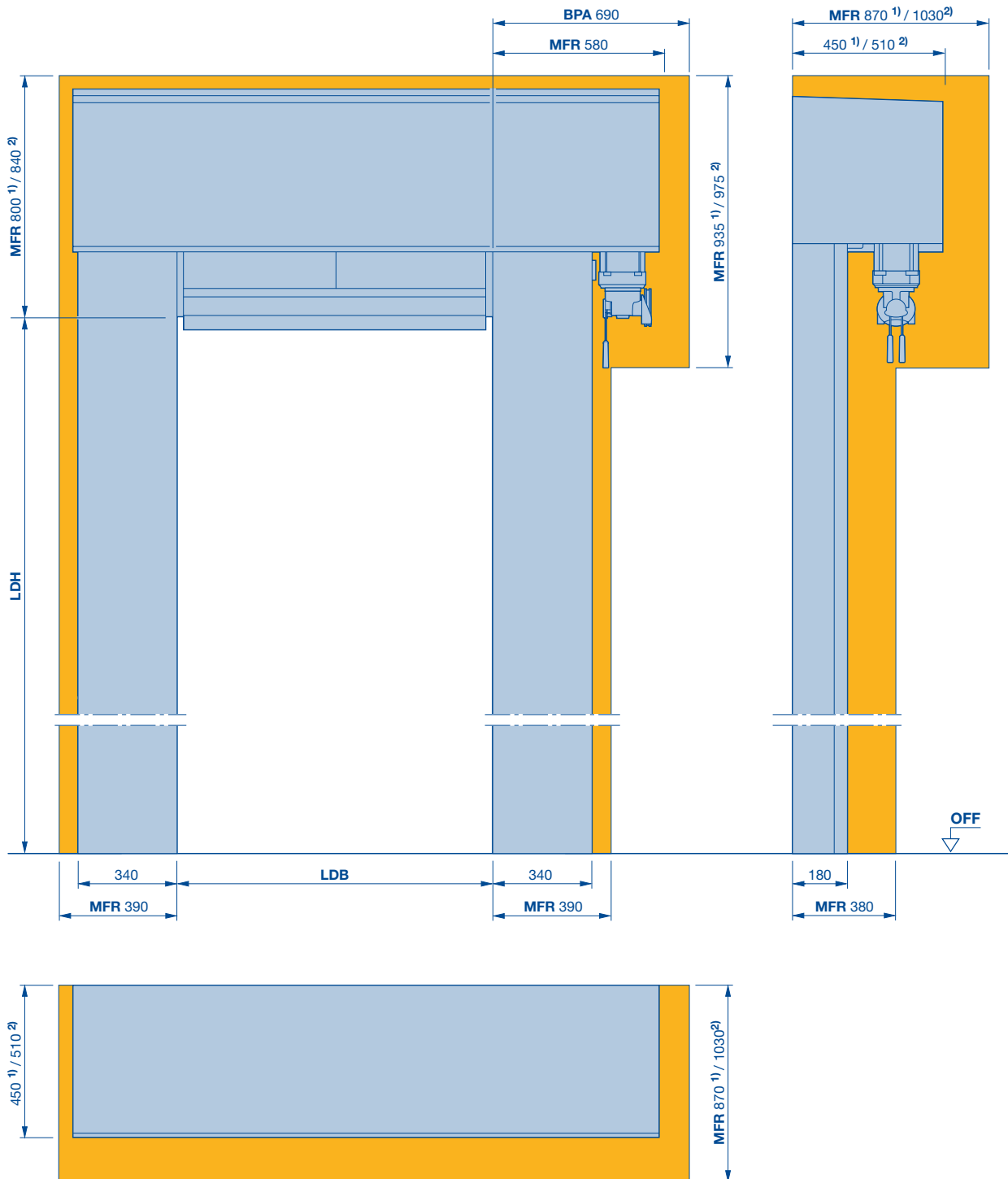
**MFR** Space for fitting the door

**SD** Lintel seal

# High-speed doors with flexible door leaf V 10008

Large door

Full cladding



1)  $LDB \leq 7300$  and  $LDH \leq 6500$

2)  $LDB > 7300$  or  $LDH > 6500$

**MFR** Space required to fit and dismantle the operator

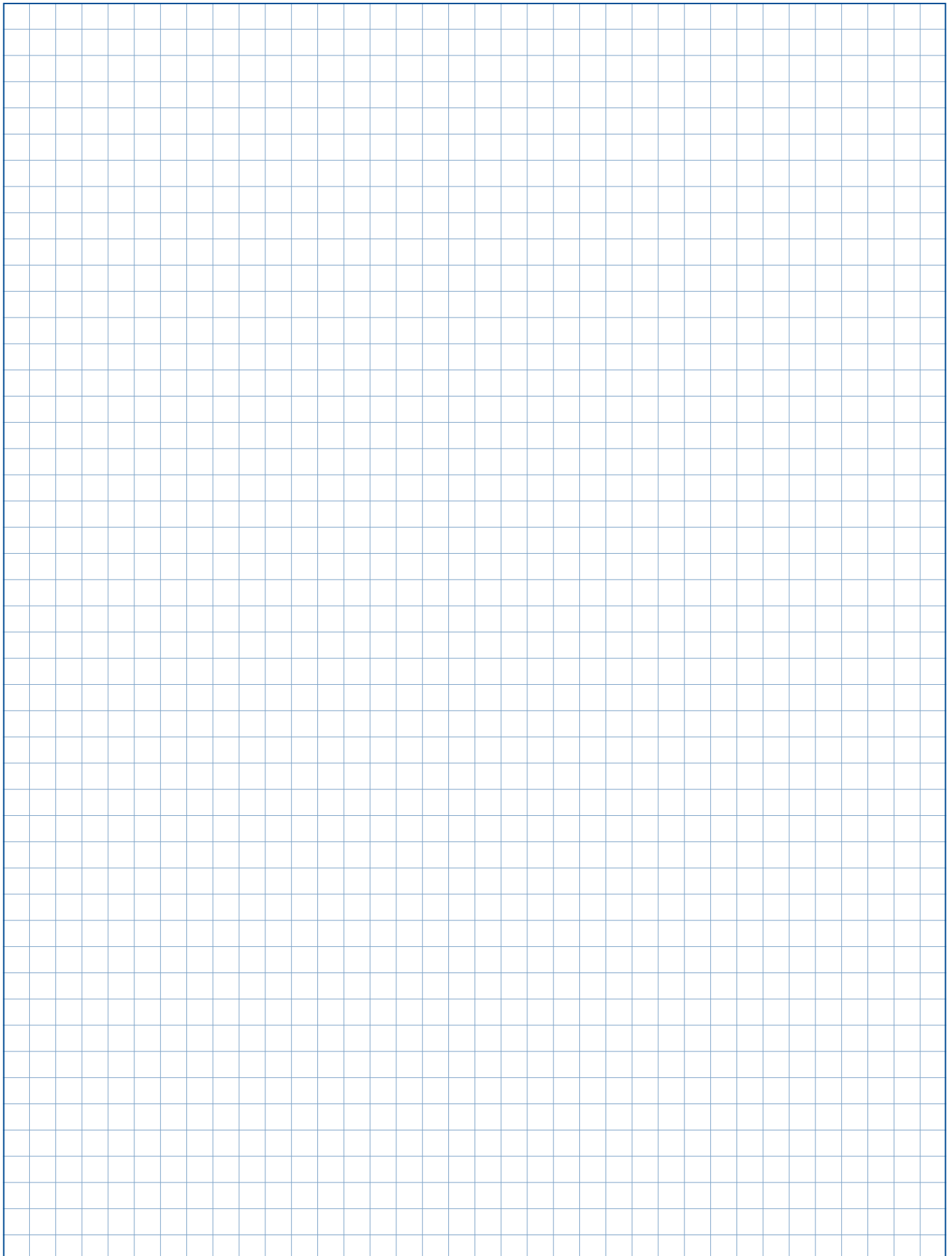
**LDB** Clear passage width

**LDH** Clear passage height

**MFR** Space for fitting the door



# Notes



# Internal doors for special applications

## Technical data

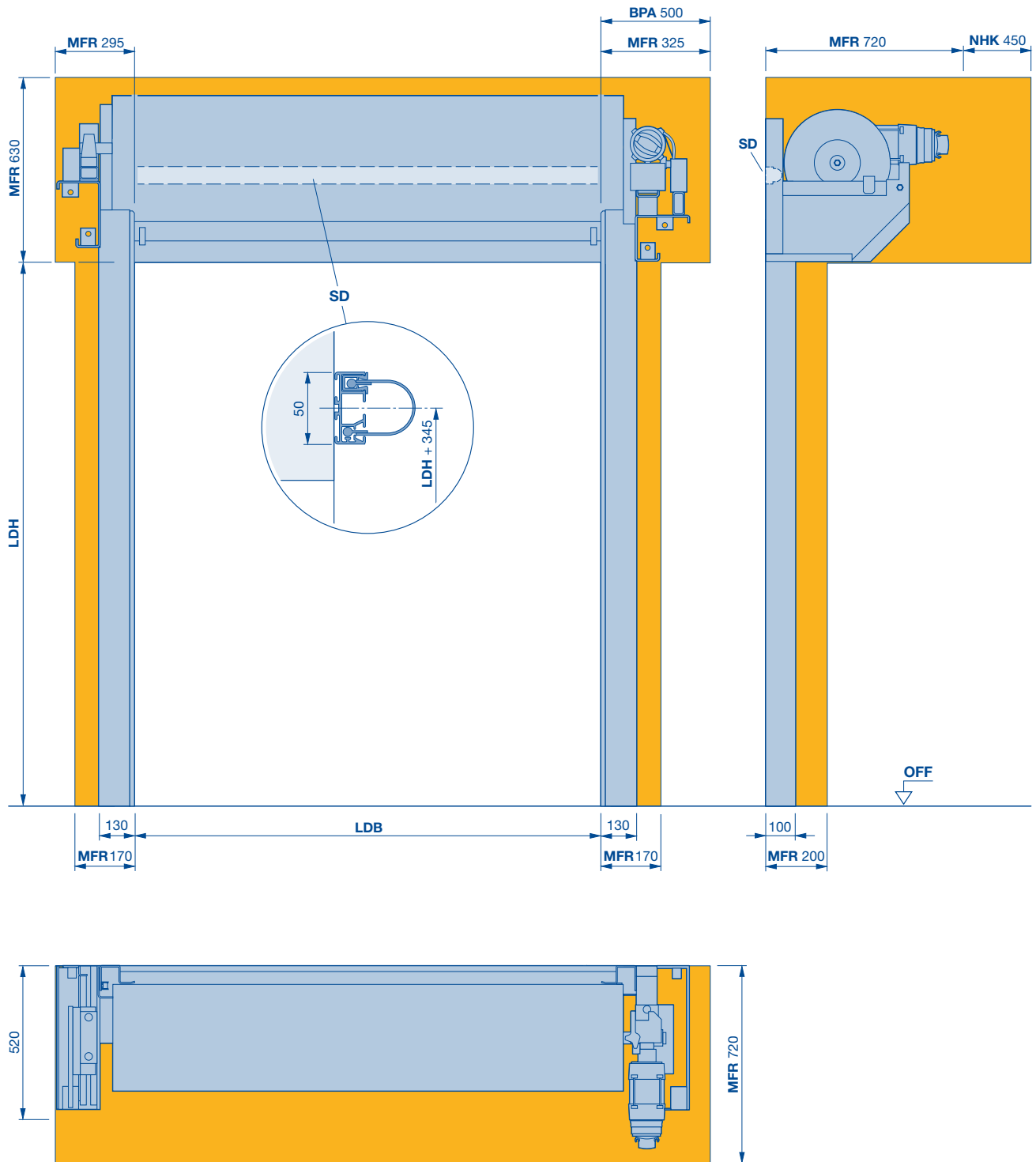
<b>Use</b>	Internal door	
	External door	
<b>Door sizes</b>	Maximum width LDB	
	Maximum height LDH	
	Frequency converter control, 1-phase	Max. opening approx. m/s
		Max. closing approx. m/s
<b>Security equipment</b>	EN 13241	
<b>Wind load resistance</b>	EN 12424	
<b>Thermal insulation</b>	EN 13241-1, ISO 12567-1	
<b>Door construction</b>	Self-supporting	
<b>Door leaf material and surface</b>	Galvanized	
	Galvanized steel, coated, in colours based on RAL	
	Polished stainless steel V2 A	
<b>Operator cover and shaft cover</b>	Straight	
	5° chamfered	
<b>Door leaf</b>	Fabric, transparent	1.5/2.0 mm
	Transparent	4.0 mm
	Insulating curtain, curtain pockets with 20 mm thick PE foam infill	
	Aluminium / spring steel wind lock	
<b>SoftEdge, aluminium bottom profile</b>		
<b>Operator and control</b>	Frequency converter	
	Connecting voltage	1-phase, 1 – 230 V, N, PE
	Open-Stop-Close button	
	Main switch, all-pole switch-off	1-phase
	Emergency-off button	1-phase
	Fuse protection	1-phase
	Protection category for control	
	Protection category for operator	
	Closing zone monitoring	Safety light curtain IP 67
		Closing edge safety device and photocell
		Light grille
	Hold-open phase, in sec.	
	Electronic limit switch DES	
<b>Emergency opening</b>	Emergency crank handle	
	Counter weight and operating current brake	
	UPS in plastic cabinet for frequency converter control 230 V, 1-phase	
<b>Volt-free contacts</b>		
<b>Plug-in control wiring</b>		

● = Standard

O = Optional

V 4015 Iso L	V 2515 Food L	V 2012	V 3015 Clean
●	●	●	●
—	—	—	—
4000	2500	2500	2500
4500	4000	2500	3000
1,5	1,2	1,2	1,5
0,5	0,5	0,5	0,5
●	●	●	●
npd	npd	npd	npd
1,6	—	—	—
—	●	●	●
●	—	●	—
○	—	○	—
○	●	○	●
—	—	●	—
○	●	—	●
—	●	●	—
—	—	—	●
●	—	—	—
●/-	-/●	-/●	-/●
-/●	●/-	●/-	-/●
●	●	●	●
●	●	●	●
●	●	●	●
○	●	●	●
○	●	●	●
16 A, slow-acting	16 A, slow-acting	16 A, slow-acting	16 A, slow-acting
IP 65	IP 65	IP 65	IP 65
IP 54	IP 54	IP 54	IP 54
●	●	—	—
—	—	—	●
—	—	●	—
1-200	1-200	1-200	1-200
●	●	●	●
●	—	●	●
—	—	●	—
○	○	—	○
3	3	3	3
●	●	—	—

# High-speed doors for special applications V 4015 Iso L

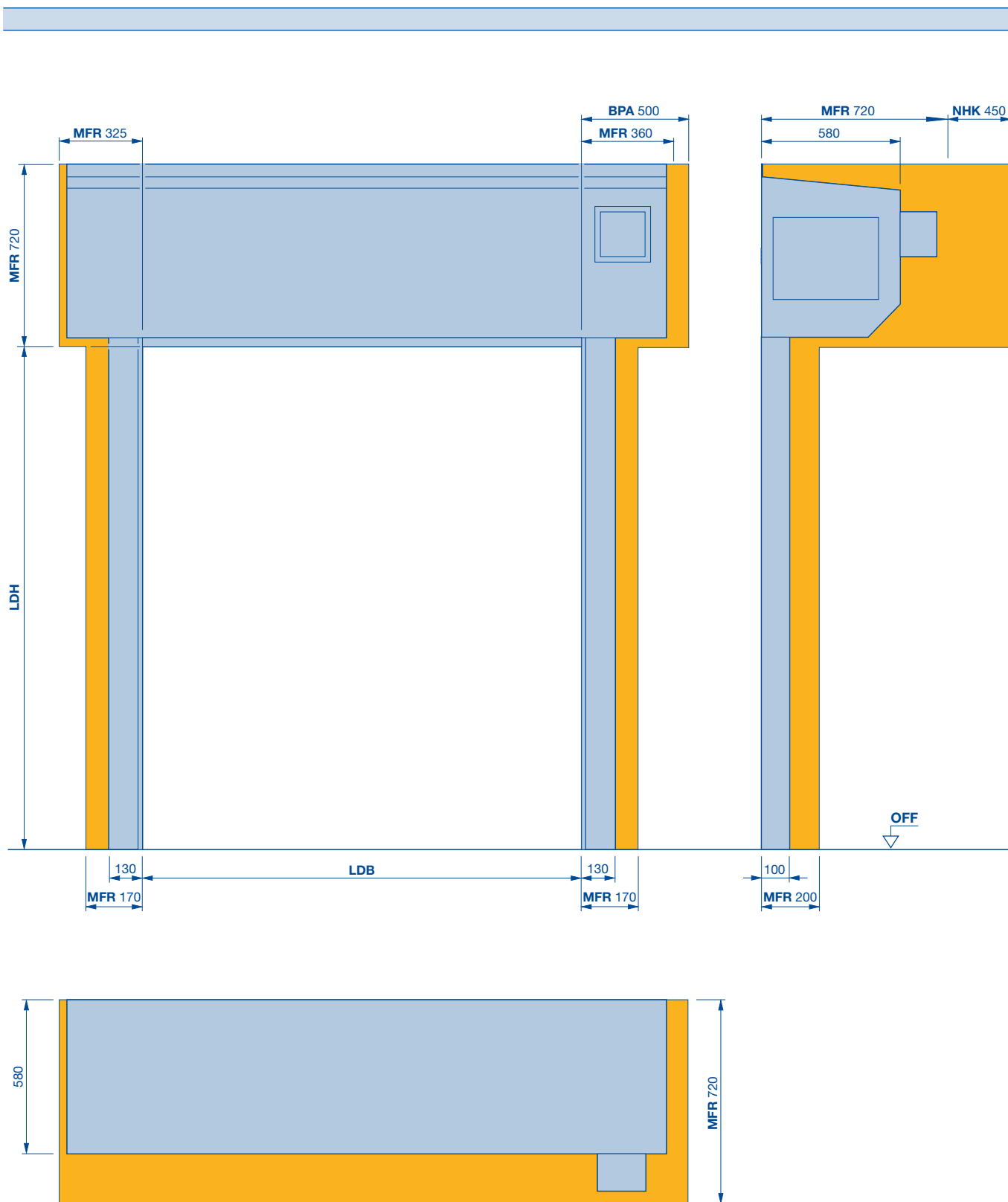


**BPA** Space required to fit and dismantle the operator  
**LDB** Clear passage width  
**LDH** Clear passage height

**MFR** Space for fitting the door  
**NHK** Space requirement for emergency crank handle  
**SD** Lintel seal

# High-speed doors for special applications V 4015 Iso L

Full cladding, chamfered



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

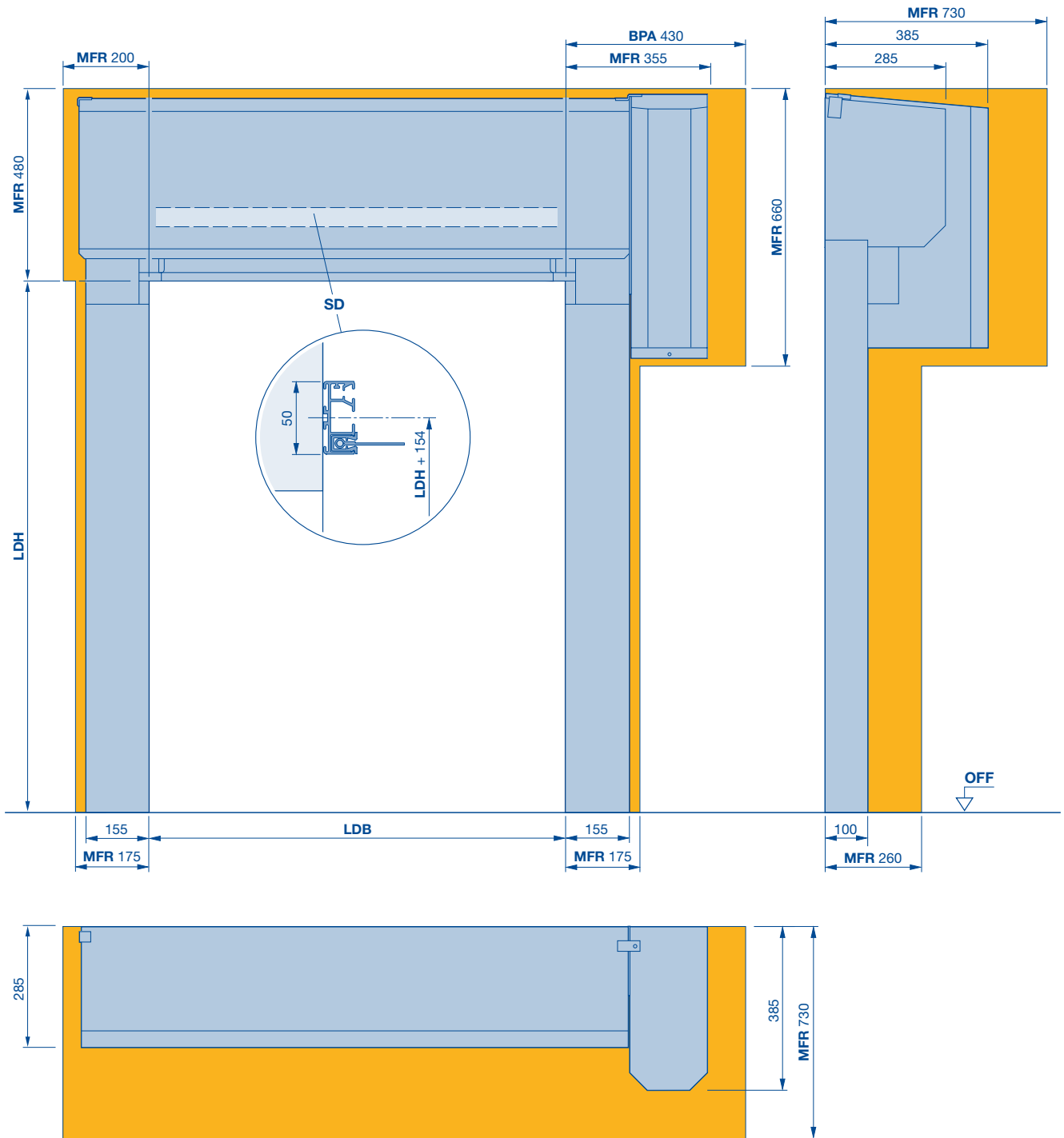
**LDH** Clear passage height

**MFR** Space for fitting the door

**NHK** Space requirement for emergency crank handle

# High-speed doors for special applications V 2515 Food L

Food industry

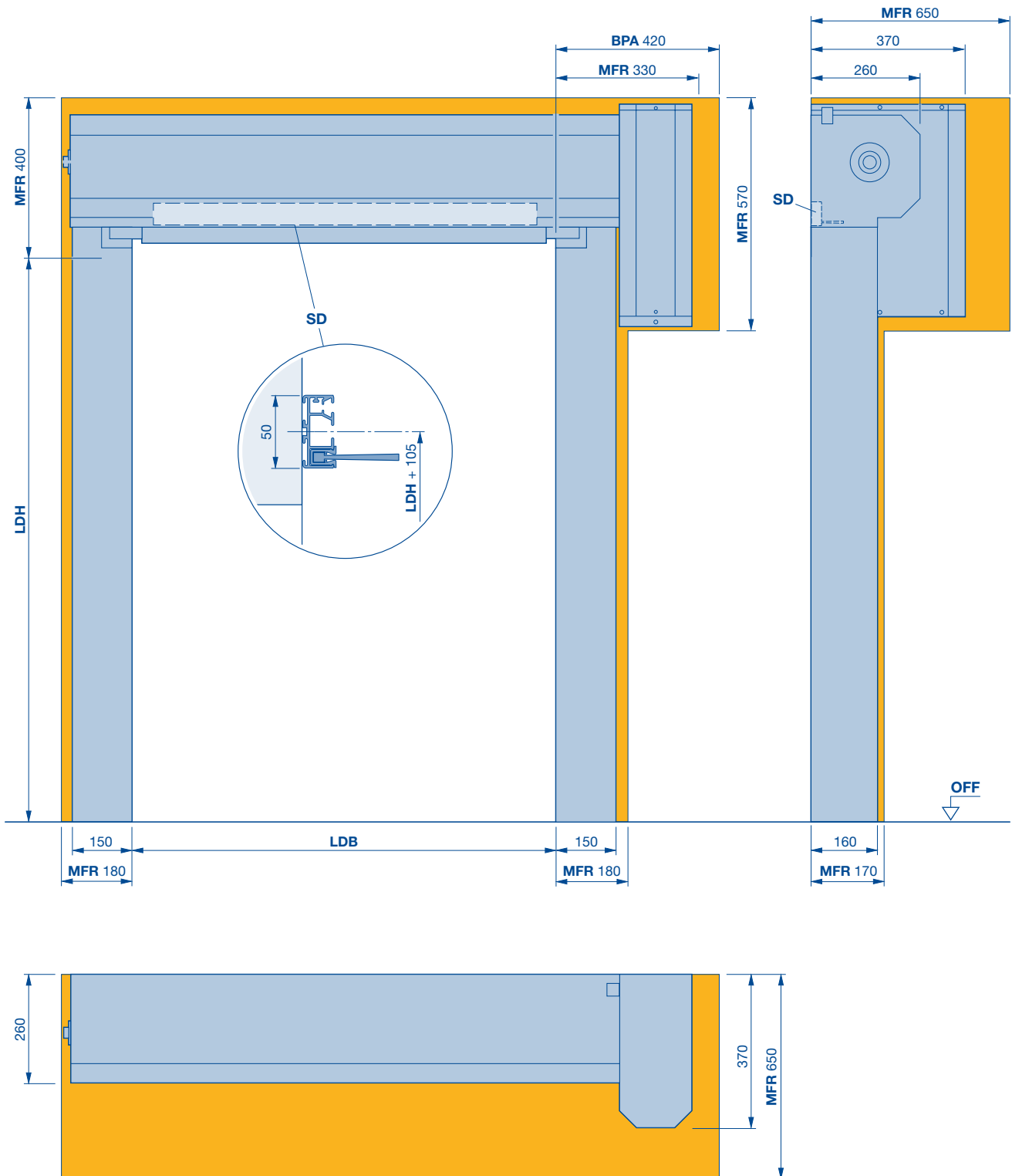


**BPA** Space required to fit and dismantle the operator  
**LDB** Clear passage width  
**LDH** Clear passage height

**MFR** Space for fitting the door  
**SD** Lintel seal

# High-speed doors for special applications V 2012

## Supermarket door



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

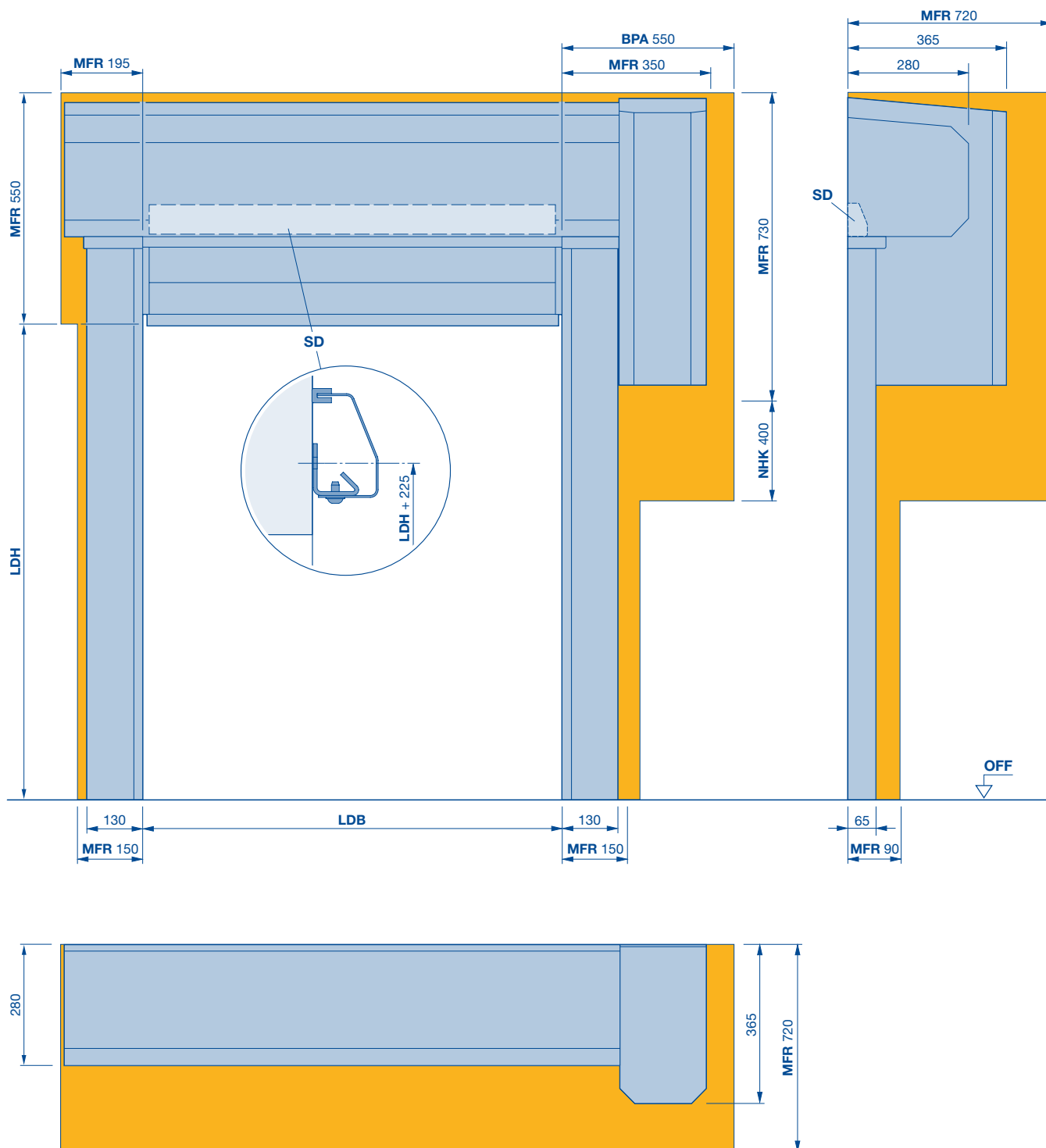
**LDH** Clear passage height

**MFR** Space for fitting the door

**SD** Lintel seal

# High-speed doors for special applications V 3015 Clean

## Clean rooms

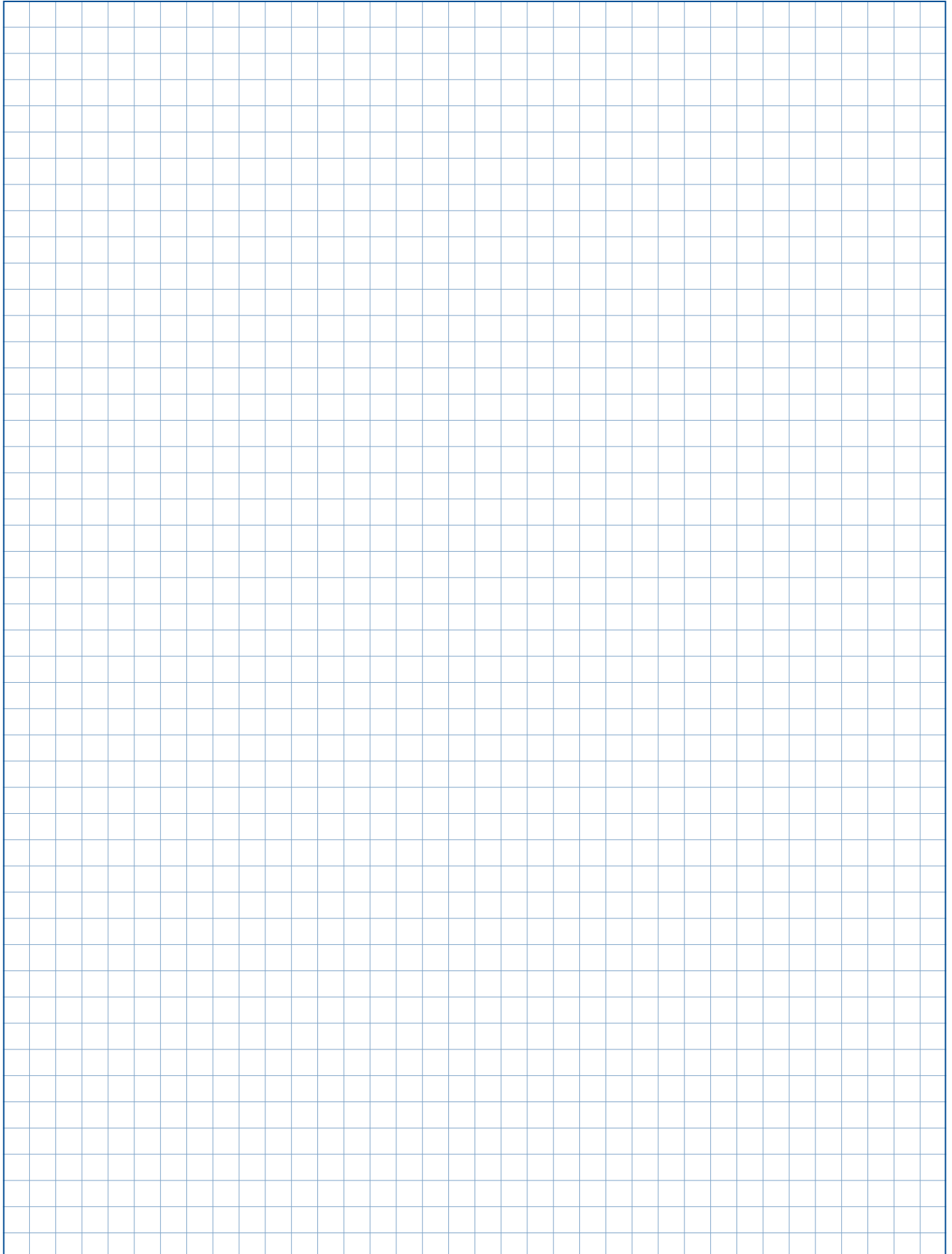


**BPA** Space required to fit and dismantle the operator  
**LDB** Clear passage width  
**LDH** Clear passage height

**MFR** Space for fitting the door  
**NHK** Space requirement for emergency crank handle  
**SD** Lintel seal



# Notes



# Internal doors for individual requirements

## Technical data

<b>Use</b>	Internal door	
	External door	
<b>Door sizes</b>	Maximum width LDB	
	Maximum height LDH	
<b>Speed</b>	Frequency converter control, 1-phase	Max. opening approx. m/s
	Frequency converter control, 3-phase	Max. opening approx. m/s
	Relay control unit, 3-phase	Max. opening approx. m/s
		Max. closing approx. m/s
<b>Security equipment</b>	EN 13241	
<b>Wind load resistance</b>	EN 12424	
<b>Thermal insulation</b>	EN 12428	
<b>Door construction</b>	Self-supporting	
<b>Door leaf material and surface</b>	Galvanized	
	Galvanized steel, coated, in colours based on RAL	
	Polished stainless steel V2 A	
<b>Operator cover and shaft cover</b>	Straight	
	30° chamfered	
<b>Door leaf</b>	Fabric, transparent	1.5 / 2.0 mm
		2.4 / 4.0 mm
	Transparent	4.0 mm
	Aluminium / spring steel wind lock	
<b>SoftEdge, aluminium bottom profile</b>		
<b>Operator and control</b>	Frequency converter	
	Connecting voltage	1-phase, 1 – 230 V, N, PE 3-phase, 3 – 400 V, N, PE
	Open-Stop-Close button	
	Main switch with all-pole switch-off	1-phase 3-phase
	Emergency-off button	1-phase 3-phase
	Fuse protection	1-phase, 3-phase
	Protection category for control	
	Protection category for operator	
	Closing zone monitoring	Safety light curtain IP 67 Closing edge safety device and photocell
	Hold-open phase, in sec.	
	Electronic limit switch DES	
<b>Emergency opening</b>	Emergency crank handle	
	Emergency hand chain	
	UPS in plastic cabinet for frequency converter control 230 V, 1-phase	
<b>Volt-free contacts</b>		
<b>Plug-in control wiring</b>		

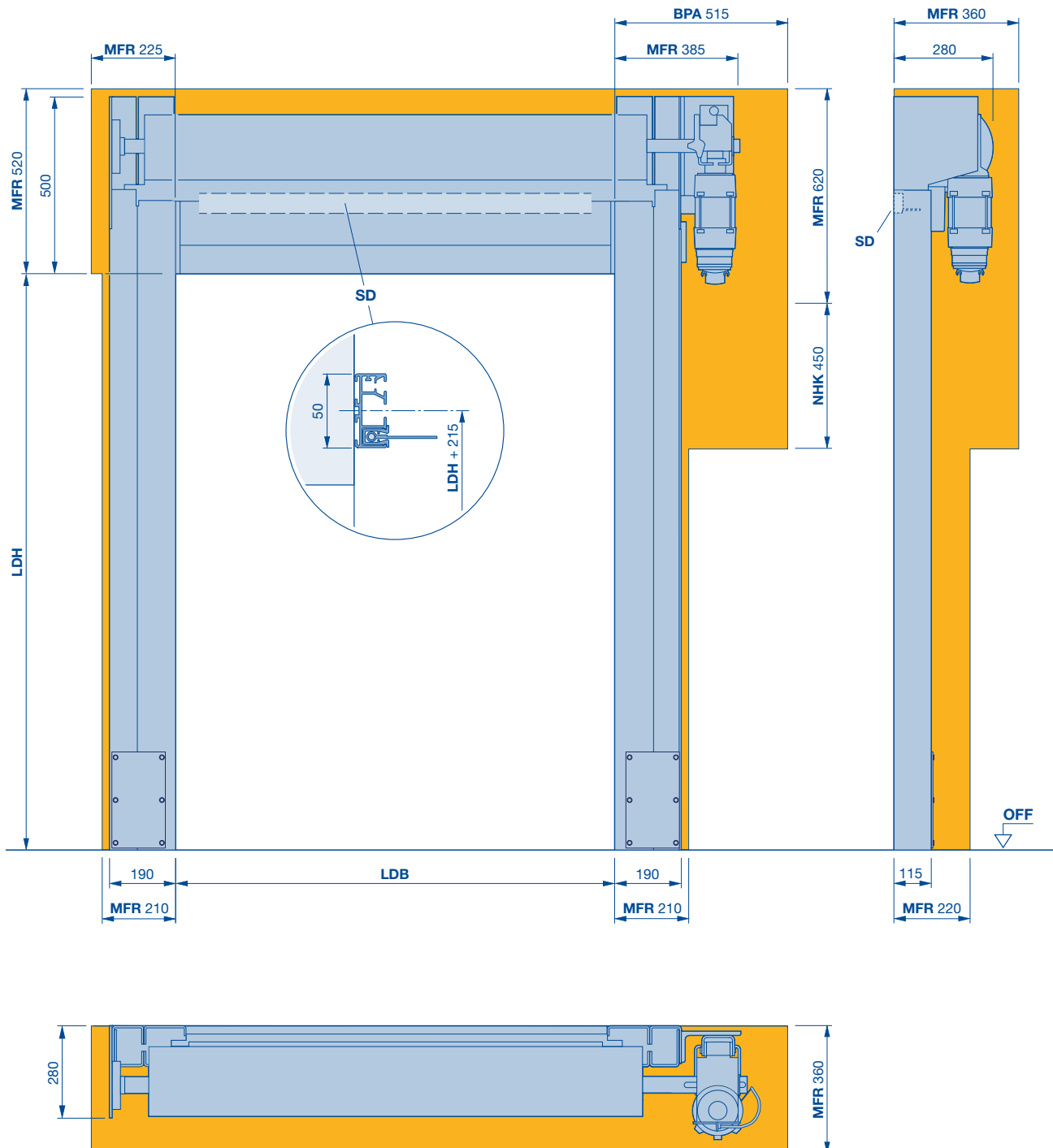
● = Standard

○ = Optional

V 5030 MSL	V 3009	V 6030 ATEX
●	●	●
—	—	—
4000	3500	4000
4000	3500	4000
1,5	—	—
1,5	1,2	1,5
—	0,8	—
0,8	0,8	0,8
●	●	●
Class 1	npd	npd
npd	npd	npd
●	●	●
●	●	●
○	○	—
○	○	○
○	○	○
○	○	○
—	●	●
○	—	—
●	—	—
-/●	●/-	-/●
-/●	-/●	-/●
●	○	●
●	○	●
●	●	—
●	●	●
○	○	●
●	●	—
○	○	●
●	●	—
16 A, slow-acting	16 A, slow-acting	16 A, slow-acting
IP 65	IP 54	IP 65
IP 54	IP 54	IP 65
●	—	—
—	●	●
1-200	1-200	1-200
●	●	●
●	●	●
○	○	—
○	—	—
3	2	8
●	—	—

# High-speed doors for individual applications V 5030 MSL

## Equipment protection



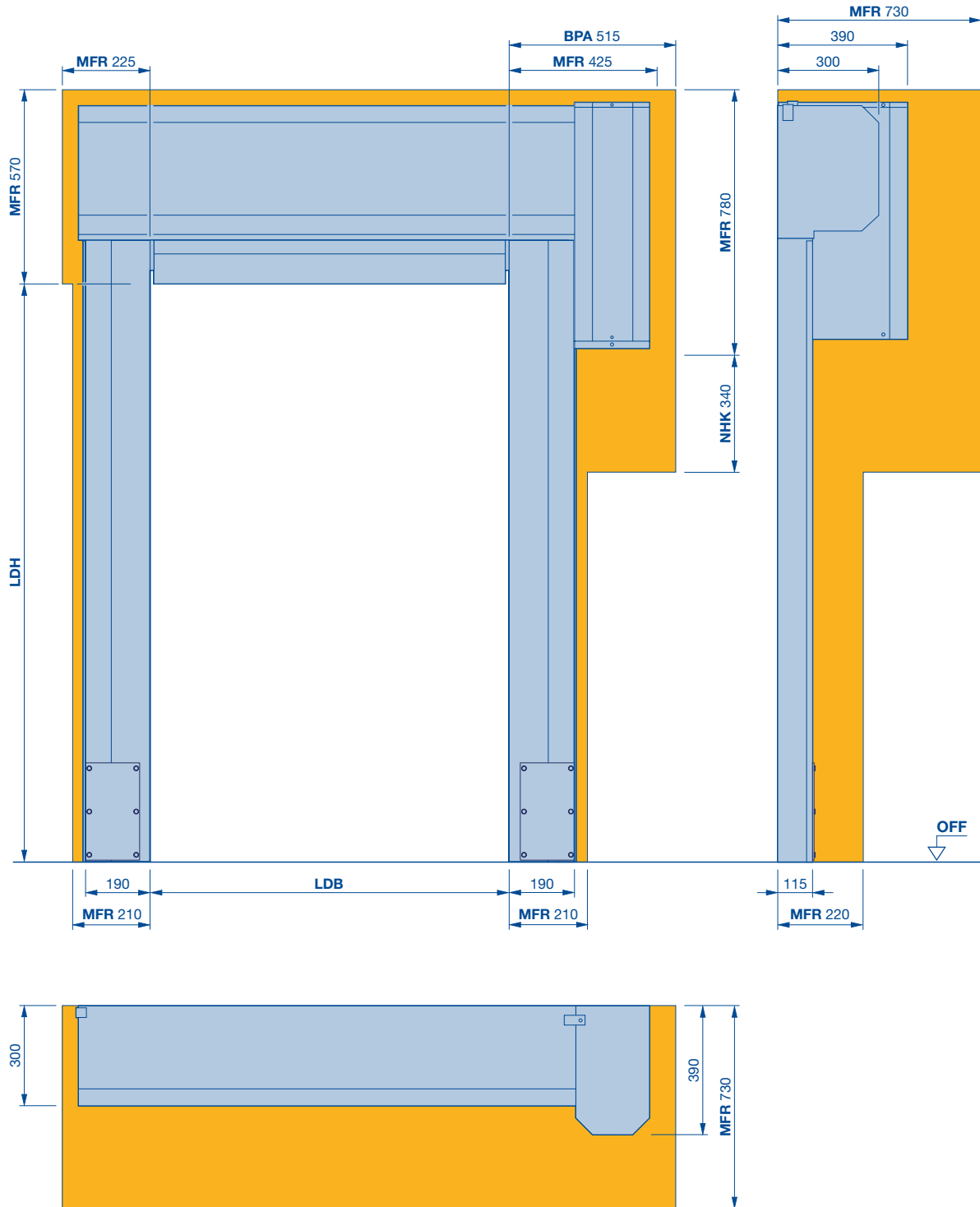
**BPA** Space required to fit and dismantle the operator  
**LDB** Clear passage width  
**LDH** Clear passage height

**MFR** Space for fitting the door  
**NHK** Space requirement for emergency crank handle  
**SD** Lintel seal

# High-speed doors for individual applications V 5030 MSL

Equipment protection

Full cladding, straight



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

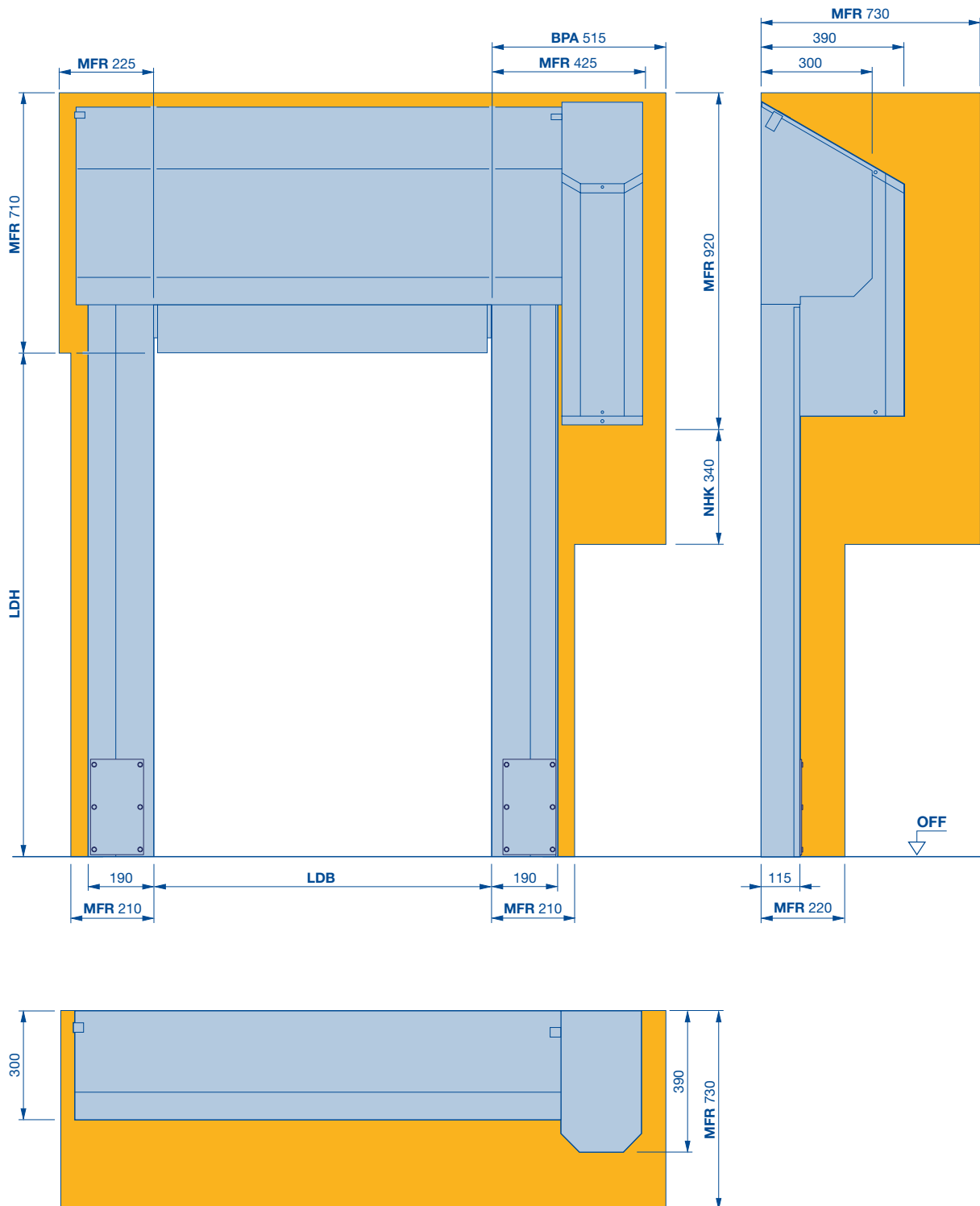
**MFR** Space for fitting the door

**NHK** Space requirement for emergency crank handle

# High-speed doors for individual applications V 5030 MSL

Equipment protection

Full cladding, chamfered



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

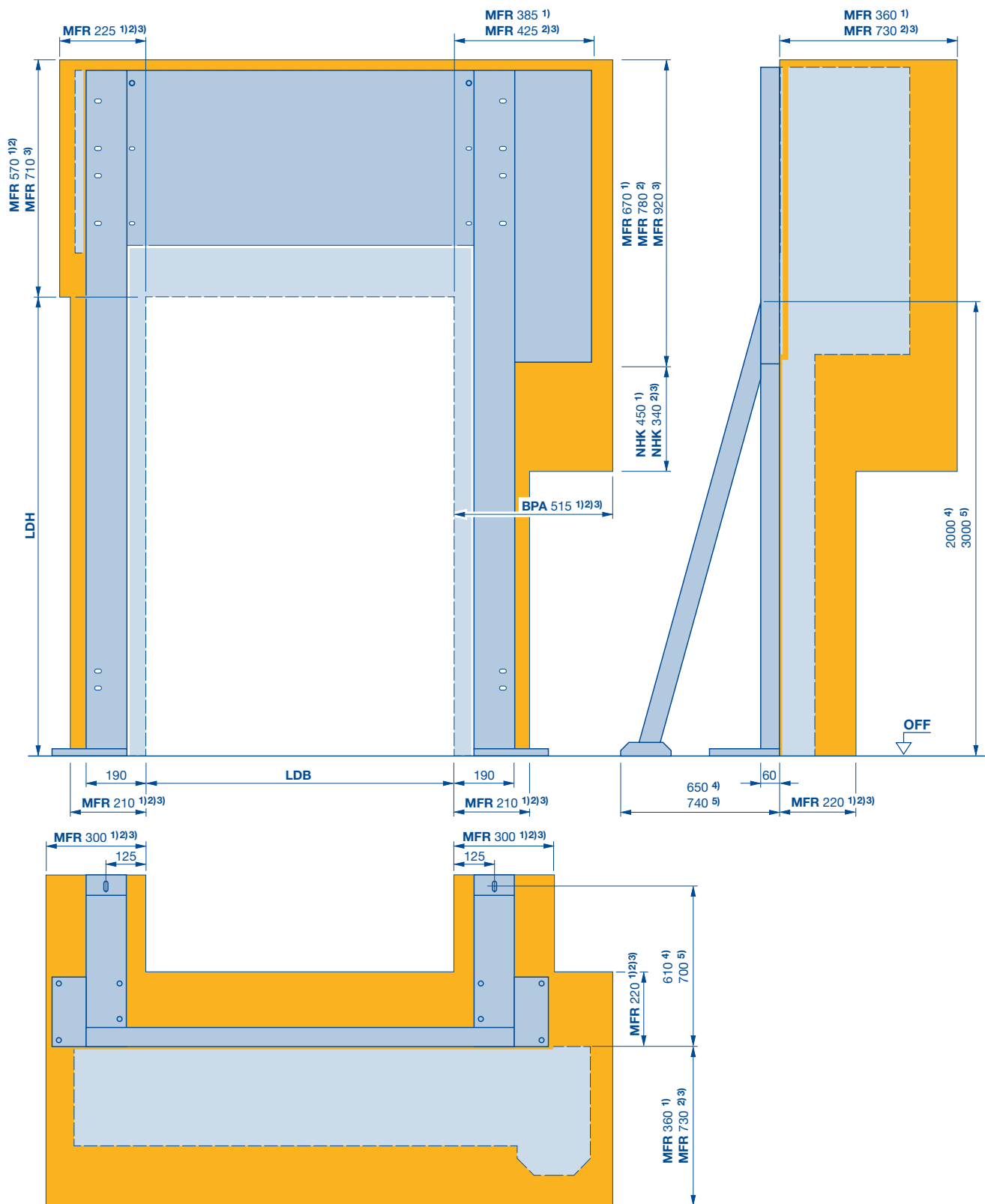
**MFR** Space for fitting the door

**NHK** Space requirement for emergency crank handle

# High-speed doors for individual applications V 5030 MSL

## Equipment protection

### Installation frame



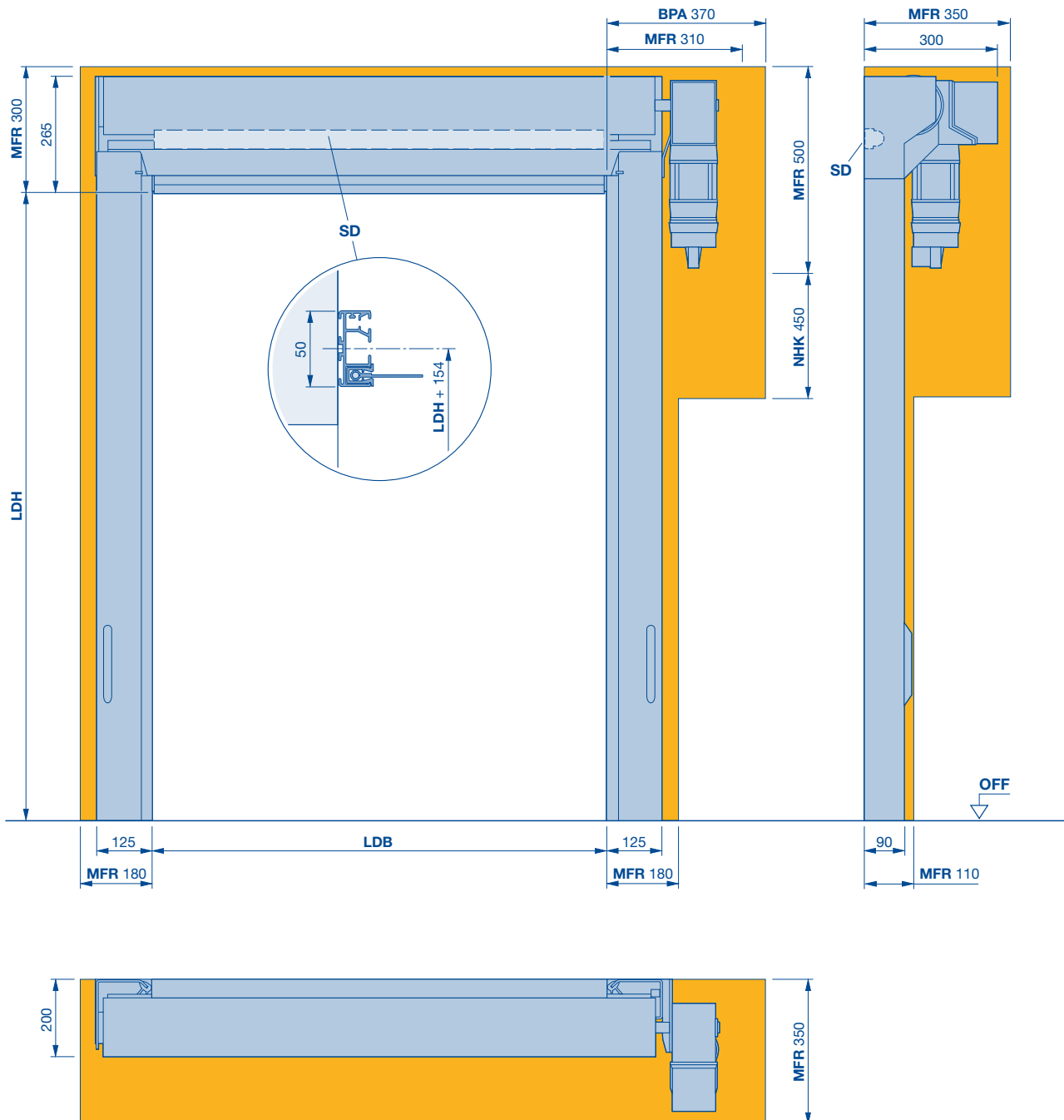
- 1) Without cladding
- 2) Full cladding, straight
- 3) Full cladding, chamfered
- 4) Side element length  $\leq 3500$

- 5) Side element length  $> 3500$
- BPA Space required to fit and dismantle the operator
- LDB Clear passage width

- LDH Clear passage height
- MFR Space for fitting the door
- NHK Space requirement for emergency crank handle

# High-speed doors for individual applications V 3009

Conveyor systems



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

**MFR** Space for fitting the door

**SD** Lintel seal

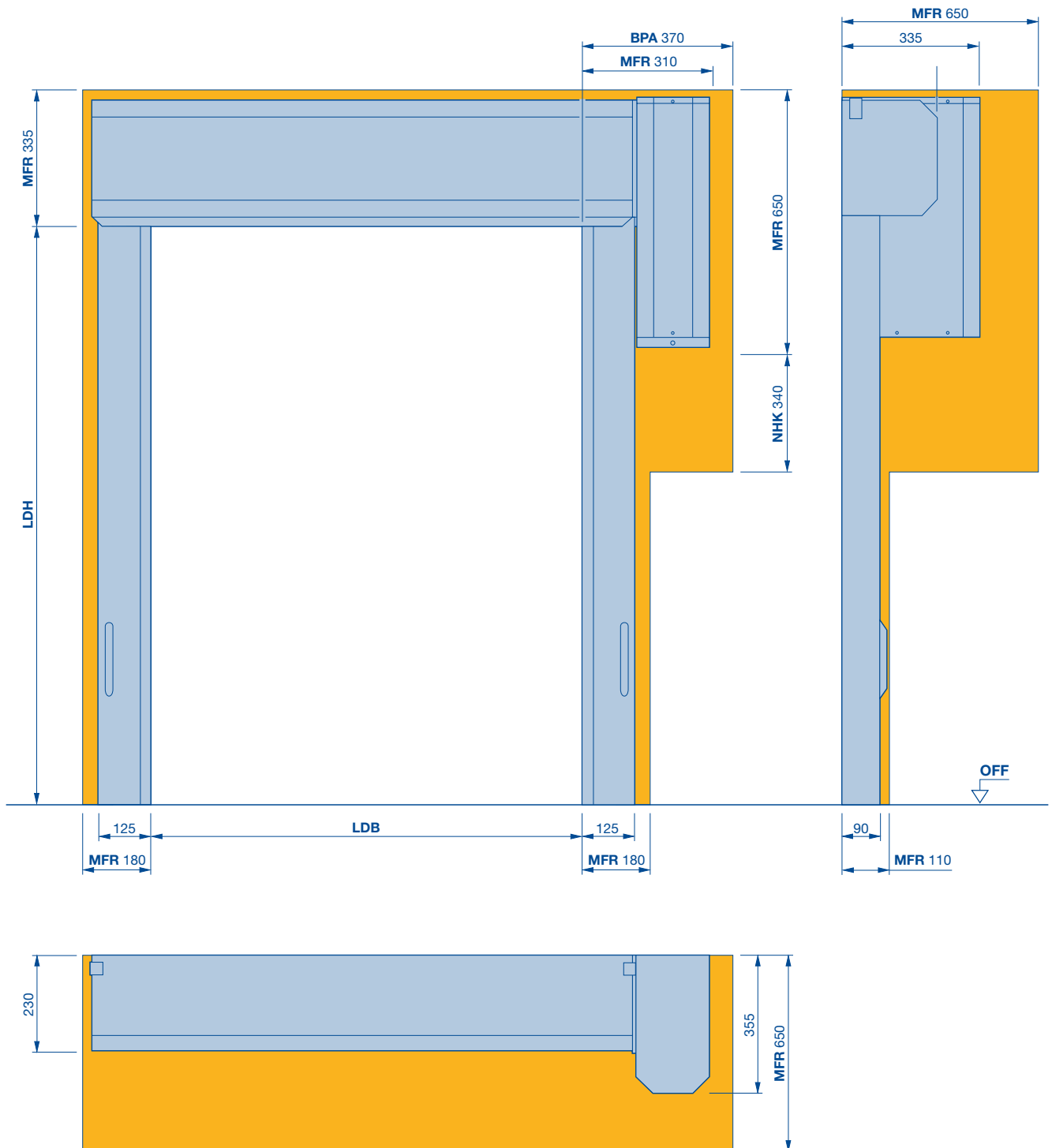
**NHK** Space requirement for emergency crank handle



# High-speed doors for individual applications V 3009

Conveyor systems

Full cladding, straight



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

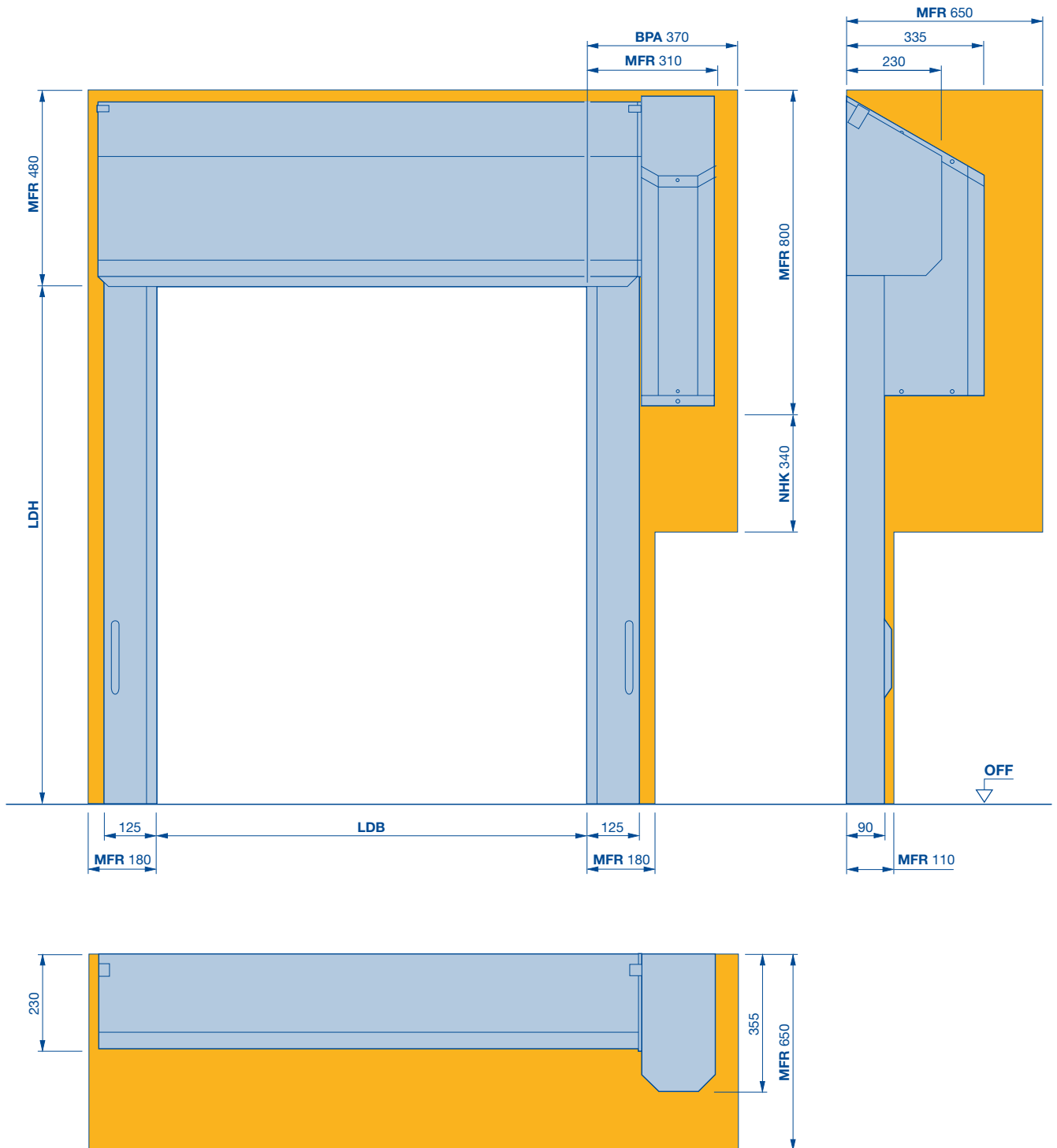
**MFR** Space for fitting the door

**NHK** Space requirement for emergency crank handle

# High-speed doors for individual applications V 3009

Conveyor systems

Full cladding, chamfered



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

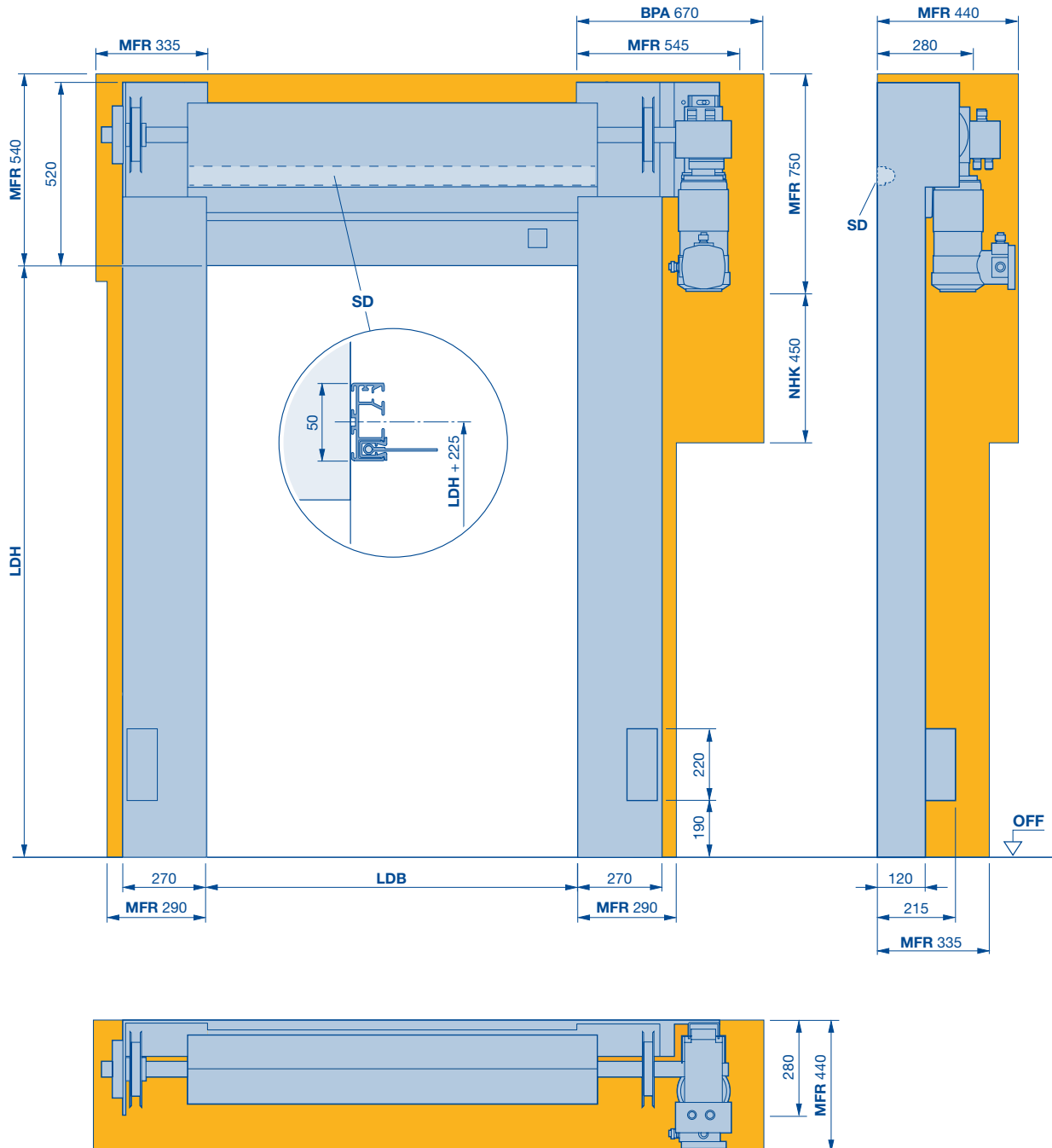
**LDH** Clear passage height

**MFR** Space for fitting the door

**NHK** Space requirement for emergency crank handle

# High-speed doors for individual applications V 6030 Atex

Potentially explosive areas



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

**MFR** Space for fitting the door

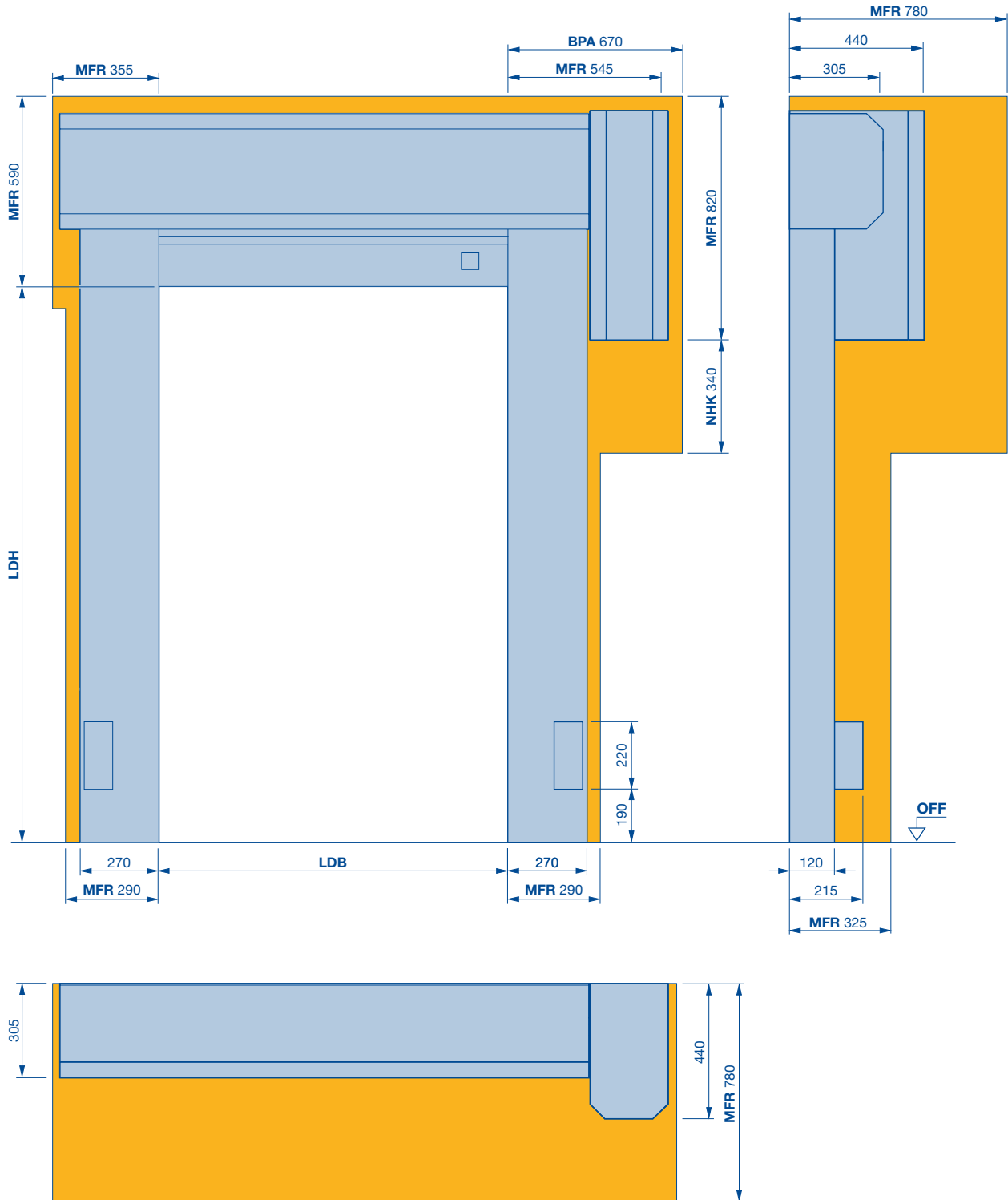
**SD** Lintel seal

**NHK** Space requirement for emergency crank handle

# High-speed doors for individual applications V 6030 Atex

Potentially explosive areas

Full cladding, straight



**BPA** Space required to fit and dismantle the operator

**LDB** Clear passage width

**LDH** Clear passage height

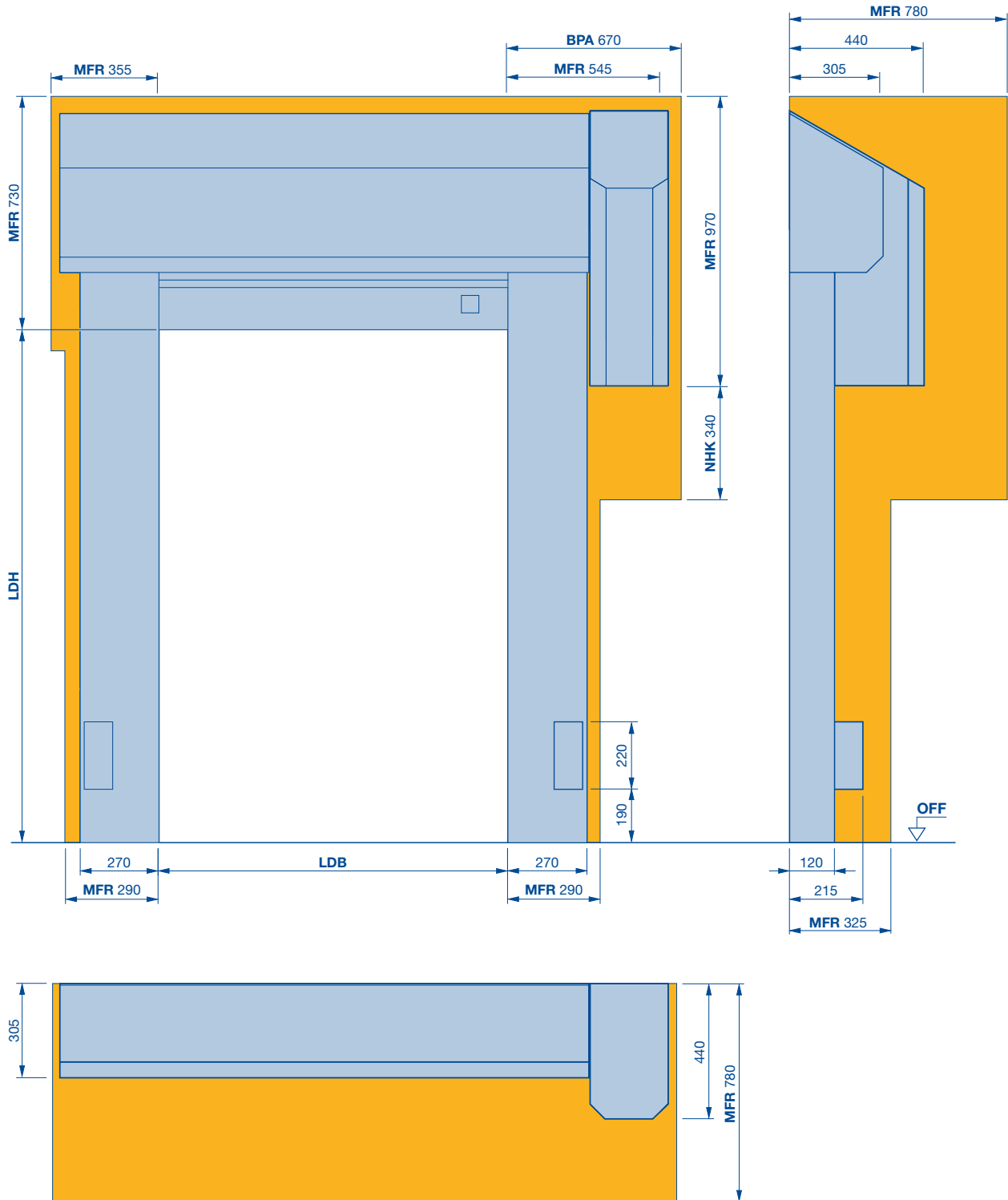
**MFR** Space for fitting the door

**NHK** Space requirement for emergency crank handle

# High-speed doors for individual applications V 6030 Atex

Potentially explosive areas

Full cladding, chamfered



**BPA** Space required to fit and dismantle the operator

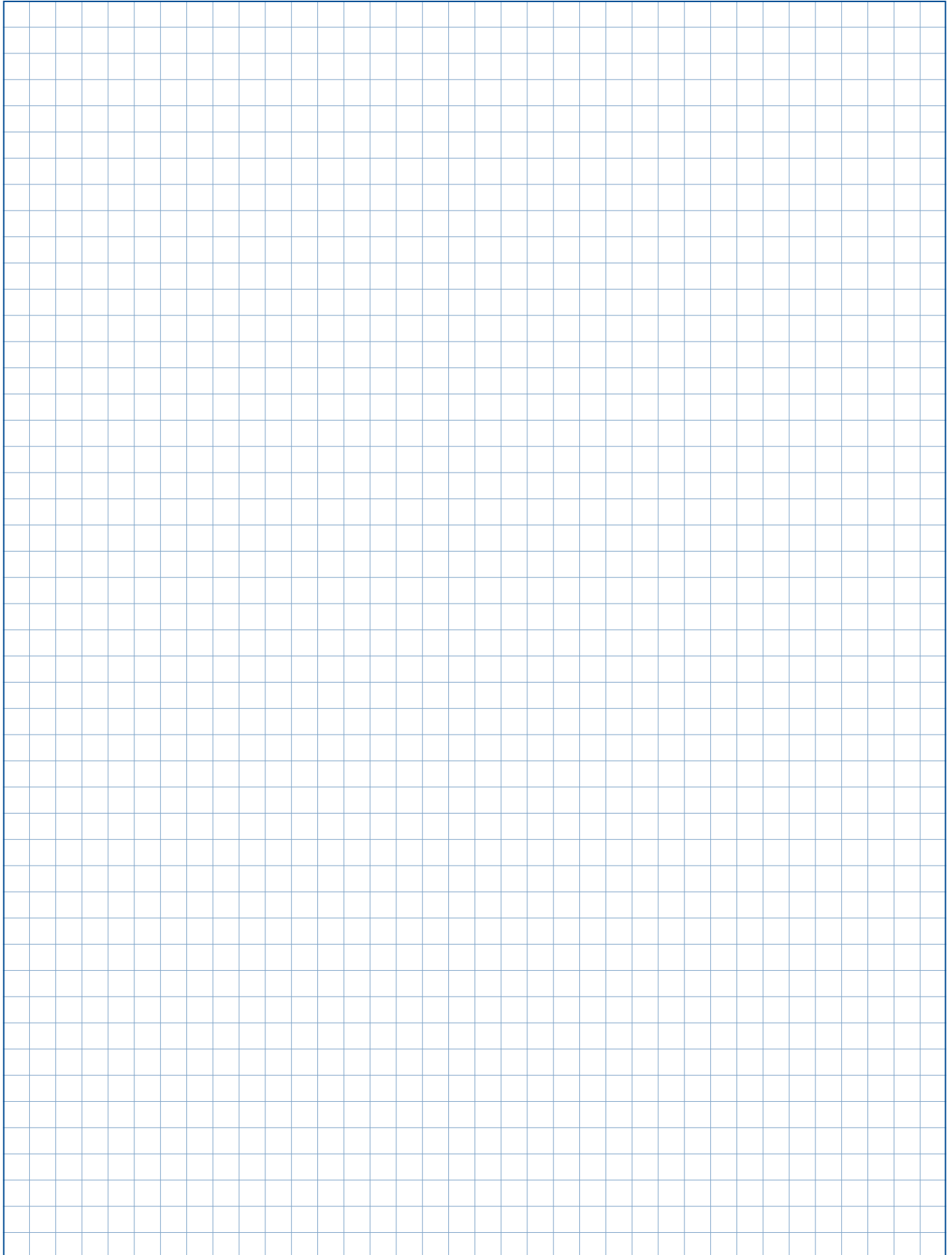
**LDB** Clear passage width

**LDH** Clear passage height

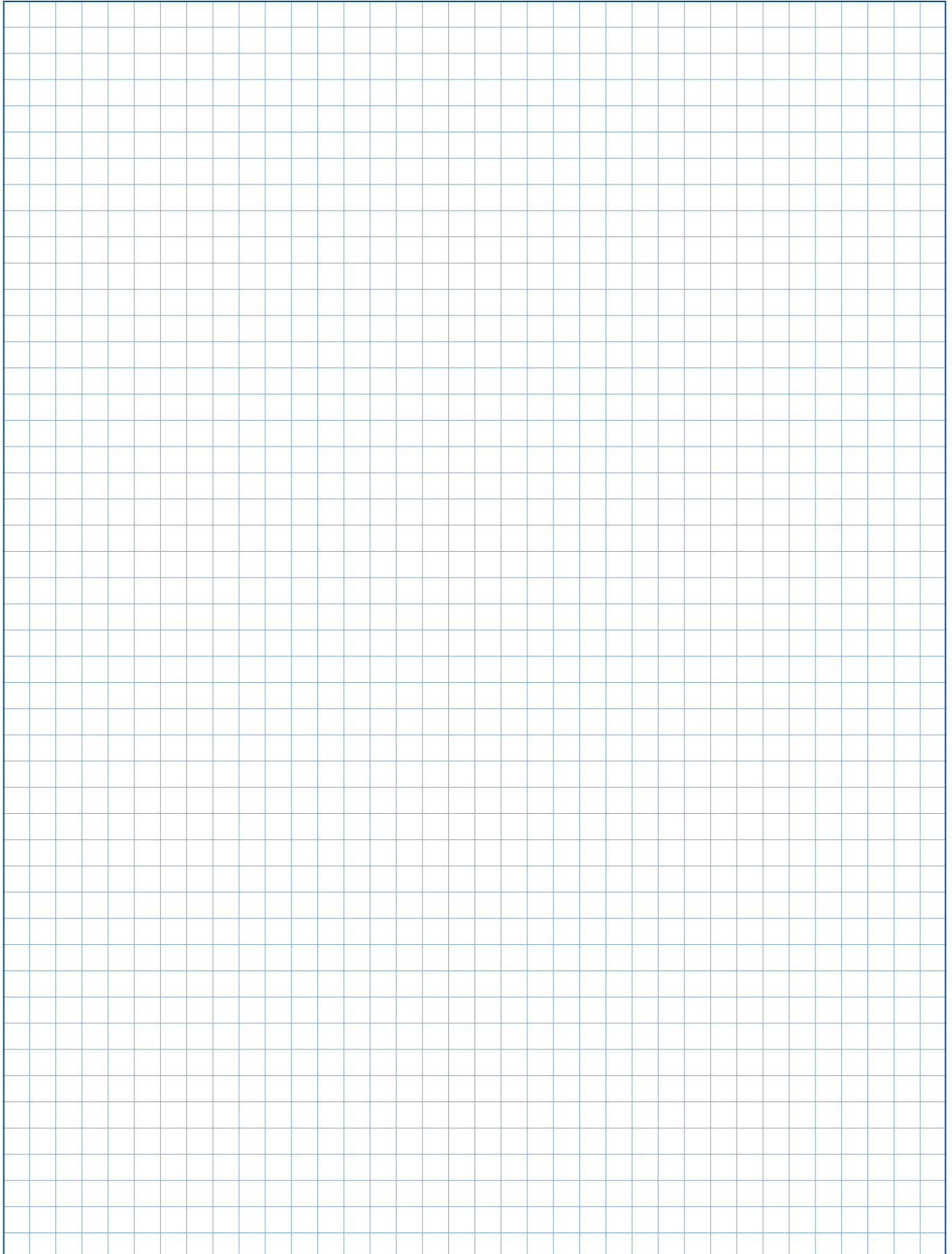
**MFR** Space for fitting the door

**NHK** Space requirement for emergency crank handle

# Notes



# Notes



# Hörmann: Quality without Compromise



Hörmann KG Amshausen, Germany



Hörmann KG Antriebstechnik, Germany



Hörmann KG Brandis, Germany



Hörmann KG Brockhagen, Germany



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**GARAGE DOORS**  
**OPERATORS**  
**INDUSTRIAL DOORS**  
**LOADING EQUIPMENT**  
**HINGED DOORS**  
**DOOR FRAMES**