

Normstahl

My door.

SMART XL





OVERHEAD SECTIONAL DOOR SMART XL
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OUR COMPANY

NORMSTAHL

Founded in 1946 in Moosburg, Germany, **NORMSTAHL** has grown into one of the largest garage door manufacturers in Europe.



OUR MISSION

NORMSTAHL is a renowned brand for garage doors with pioneering technology for private and industrial applications. As specialists in automated entrance solutions, we offer our customers a broad portfolio for every garage.

Our qualified specialist dealers will provide you with information about our high-quality products and assist you with consultation, installation and service.

OUR VALUES

- **TRADITION:** Since 1946, our customers have valued us as a renowned brand for manufacturing garage doors.
- **QUALITY:** Normstahl garage doors provide premium quality. That's why we also offer a 2-year factory warranty on all door parts*.
- **INDIVIDUALITY:** A Normstahl door will always match your house perfectly – both in terms of dimensions as well as design – from classic to modern. With us, every door is custom-made and will fit your garage perfectly.

*You can find our detailed written warranty at www.normstahl.com

78
YEARS
NORMSTAHL

OVERHEAD SECTIONAL DOOR SMART XL PRODUCT DESCRIPTION AND OPTIONS

MODELS

The models shown correspond to the proportions for the size 2,500 x 2,125 mm. Deviations may occur with other sizes.

Linea



parallel grooves across the entire panel height with aesthetic

Trend



with aesthetic groove in the centre of the panels

Style



without groove in the panel

Flair



with double groove in the top panel area

DOOR LEAF

Sections comprising section-joints, PU foam finger pinch protection with foam-encased reinforcement profile, panel thickness 42 mm, section joints thermally isolated with finger trap protection, end-caps made from galvanized steel plate. Finished surface, inside Grey white, sim. RAL 9002.

Shop painted special solid colours are available similar to RAL colours, except pearlescent, light, metallic colours.

Note: Dark surfaces and direct sunlight can cause the panels to bend. This is taken into account in the door construction by means of internally mounted reinforcement profiles for doors from 4 m width. However, even with reinforcement profile(s), deflection cannot be completely prevented, which may impair the function. Additional reinforcement profiles are optionally available.

PERFORMANCE CHARACTERISTICS ACCORDING TO EN 13241 + A2:2016

Thermal transmission coefficients

» Panel 42 mm	U = 0,5 W/(m²K)
» E.g. installed door without glazing 5,000 x 2,250 mm	U = 1,1 W/(m²K)
» E.g. installed door without glazing 2,500 x 2,125 mm	U = 1,2 W/(m²K)
» Air permeability, DIN EN 12426:	min. Class 2
» Wind load, DIN EN 12424	min. Class 2
» Water Penetration (without manual locking):	min. Class 3

HARDWARE PARTS/TRACKS/COVERINGS

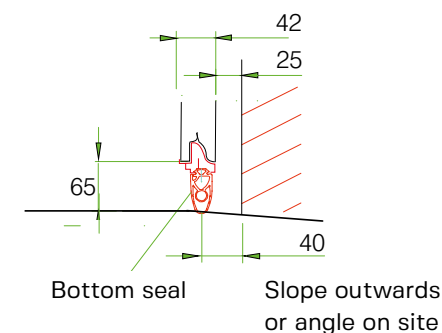
- » **Hardware parts/Tracks:** Frames made from galvanized sheet steel. Ball-bearing drives.
- » **Coverings:** A range of side and lintel coverings are available for order.

FITTINGS AND LOCKS

- » **Locking and operation:** Manual doors can be ordered with outside handle. Automatic doors with shaft drive frequency 400 without mechanical locking.

BOTTOM SEAL

By default without ventilation-holes



WARRANTY

2 years on all door parts*.

*You can find our detailed written warranty at www.normstahl.com

OVERHEAD SECTIONAL DOOR SMART XL
AUTOMATIC

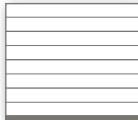
PANEEL SURFACE, DESIGN UND COLOR

DESIGN

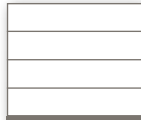
Linea



Trend



Style

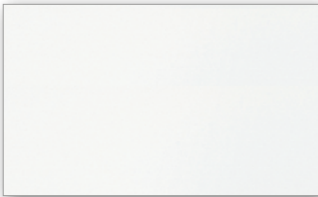


Flair



STRUCTURE

Smooth



Woodgrain



Brilliant



STANDARD DESIGN/STRUCTURE/COLORCONFIGURATION

Surface	Modell	Traffic white (sim. RAL 9016)	White aluminium (sim. RAL 9006)	Grey aluminium (sim. RAL 9007)	Anthracite (sim. RAL 7016)	Deep black (sim. RAL 9005)	Decorative oak light 060	Decorative oak dark 070
Brilliant	Linea	✓	✗	✗	✗	✗		
	Trend	✓	✓	✓*	✓	✗		
	Style	✓	✓	✓*	✓	✗		
Woodgrain	Trend	✓	✓	✓*	✓	✗	✓**	✓**
	Style	✓	✓	✓*	✓	✗	✓**	✓**
Smooth	Linea	✓	✓	✗	✓	✗		
	Trend	✓	✓	✓	✓	✓	✓**	✓**
	Flair	✓	✓	✓	✓	✗	✓**	✓**
	Style	✓	✓	✓	✓	✓	✓**	✓**

✓ Standard colour ✗ Preferred colour *painted ** PVC foiled

OVERHEAD SECTIONAL DOOR SMART XL
AUTOMATIC

SPECIAL PAINT

Shop painted special solid colours available similar RAL colour, except pearlescent, light, metallic colours.

Preferred colours RAL and N-FM

Ruby red similar to RAL 3003	Umbra gray similar to RAL 7022
Dark red similar to RAL 3011	Light gray similar to RAL 7035
Mossgreen similar to RAL 6005	Window gray similar to RAL 7040
Signal gray similar to RAL 7004	Ocher brown similar to RAL 8001
Basalt gray similar to RAL 7012	Clay brown similar to RAL 8003
Black gray similar to RAL 7021	Sepia brown similar to RAL 8014
Gray Metallic DB703*	Chocolate brown similar to RAL 8017

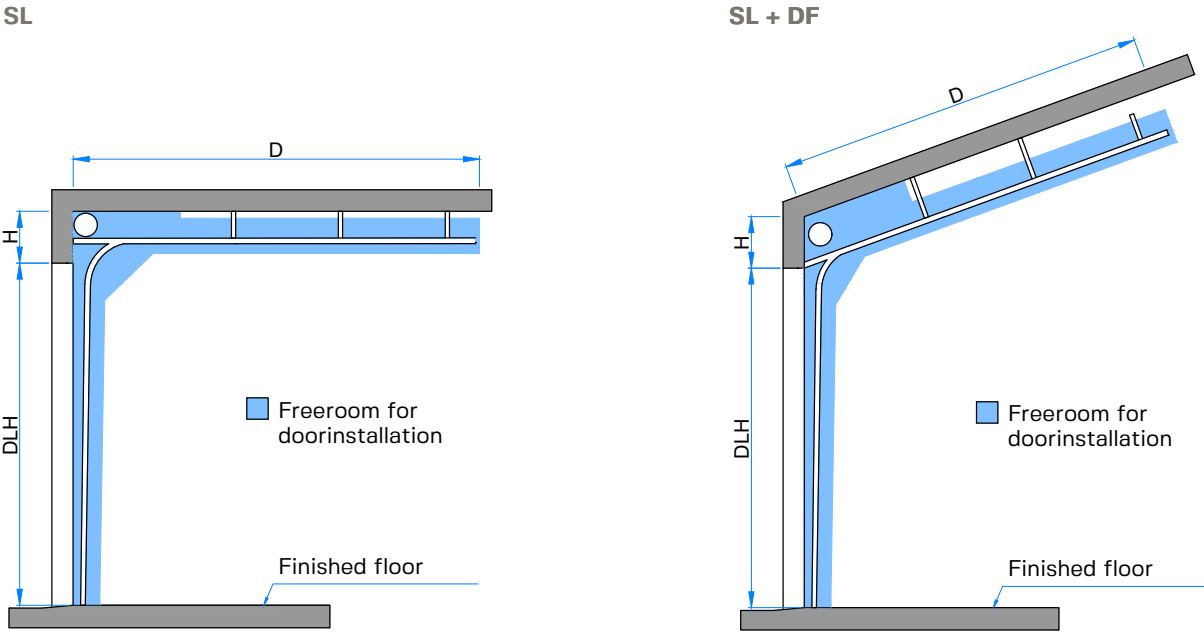
N-FM02
N-FM03
N-FM04
N-FM05
N-FM12
N-FM13
N-FM14
N-FM21
N-FM22

(all N-FM colours are only applicable on smooth surfaces)

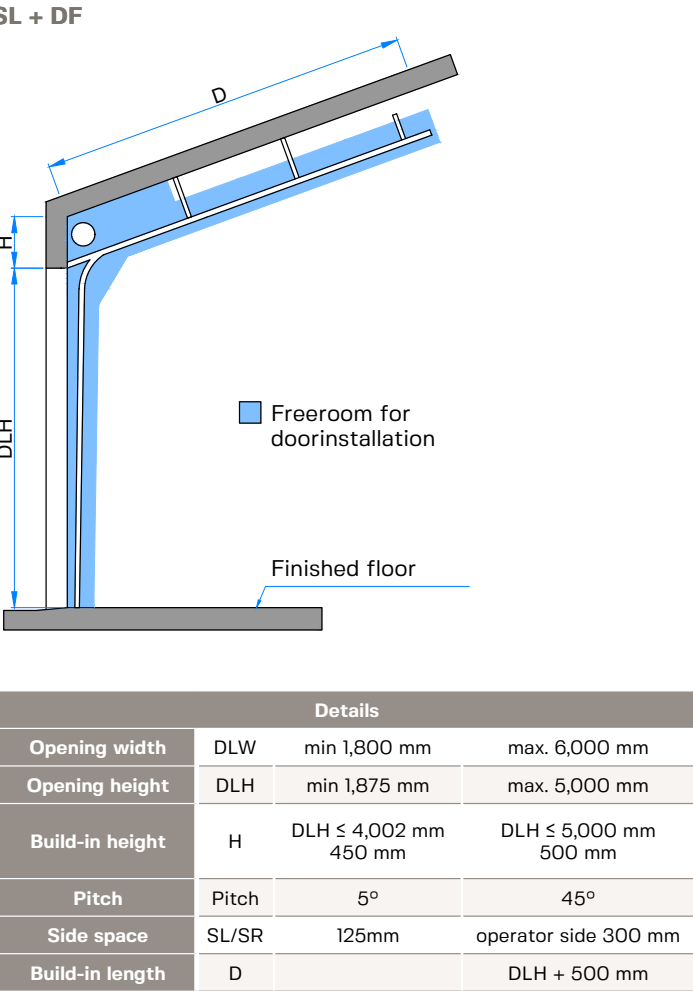
- N-FM colours: N-FM-02, N-FM-03, N-FM-04, N-FM-05, N-FM-12, N-FM-13, N-FM-14, N-FM-21 and N-FM-22.
- DB703, only possible for STYLE, TREND and FLAIR in smooth structure.
- FIATGR60SA
- No metallic, pearl or fluorescent colours.

Extra layer of protective transparent coating is available for all special colours except DB703 and all N-FM colours. Smooth panels with RAL9005 and DB703 are only available in structured paint texture.

OVERHEAD SECTIONAL DOOR SMART XL
INSTALLATION DIMENSIONS AND TECHNICAL SPECIFICATIONS

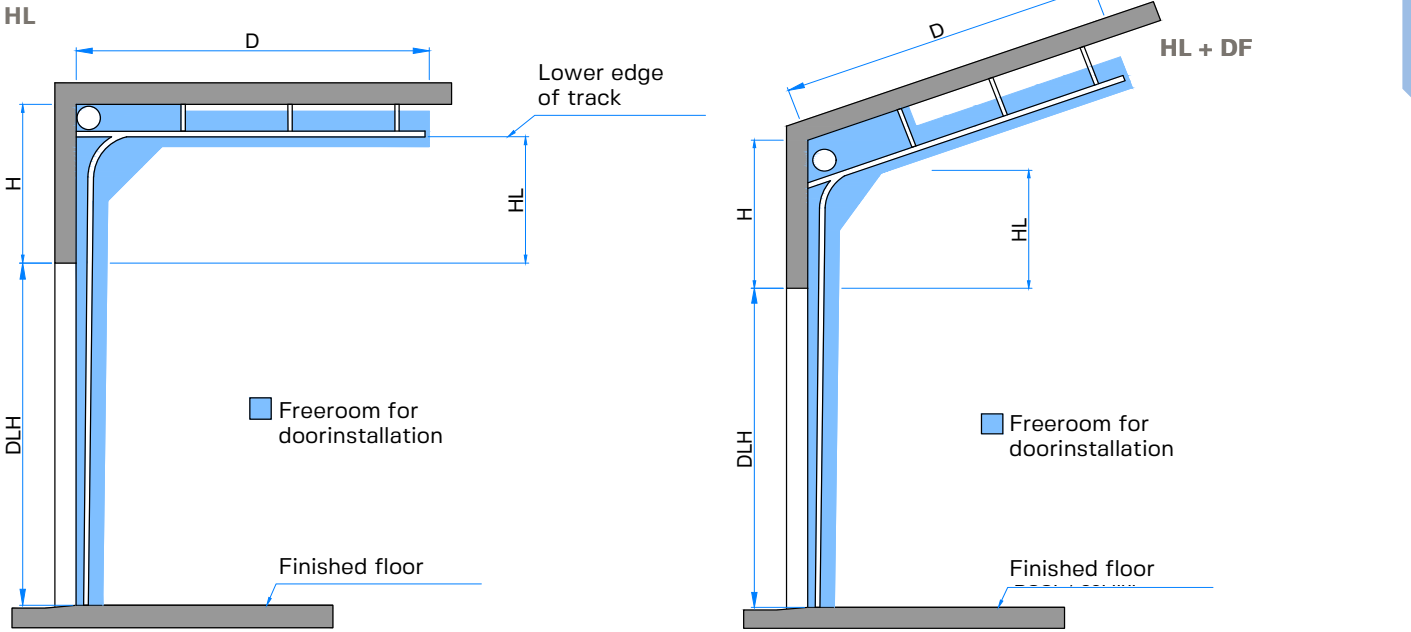


Details			
Opening width	DLW	min 1,800 mm	max. 6,000 mm
Opening height	DLH	min 1,875 mm	max. 5,000 mm
Build-in height	H	DLH ≤ 4,002 mm 450 mm	DLH ≤ 5,000 mm 500 mm
Side space	SL/SR	125mm	operator side 300 mm
Build-in length	D	DLH + 500 mm	



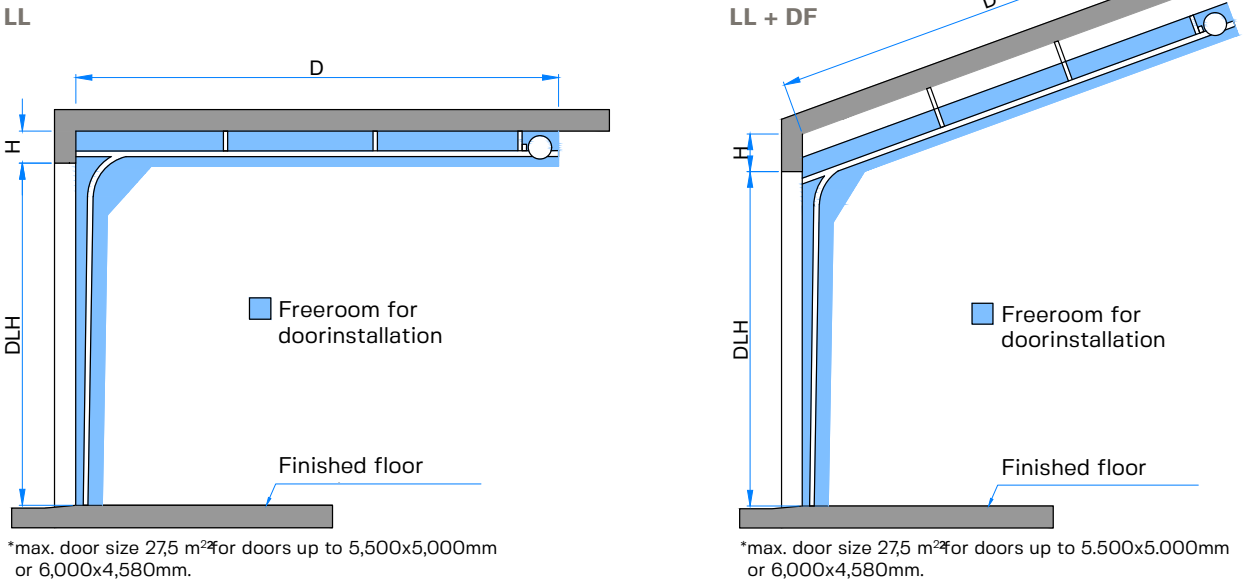
Details			
Opening width	DLW	min 1,800 mm	max. 6,000 mm
Opening height	DLH	min 1,875 mm	max. 5,000 mm
Build-in height	H	DLH ≤ 4,002 mm 450 mm	DLH ≤ 5,000 mm 500 mm
Pitch	Pitch	5°	45°
Side space	SL/SR	125mm	operator side 300 mm
Build-in length	D	DLH + 500 mm	

OVERHEAD SECTIONAL DOOR SMART XL
INSTALLATION DIMENSIONS AND TECHNICAL SPECIFICATIONS



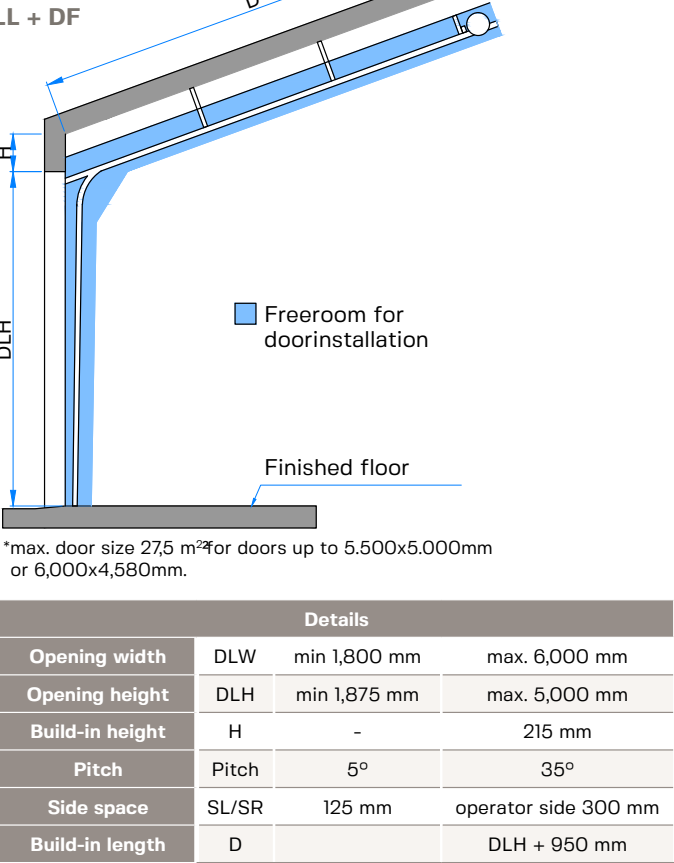
Details			
Opening width	DLW	min 1,800 mm	max. 6,000 mm
Opening height	DLH	min 1,875 mm	max. 5,000 mm
High lift	HL	≤ 1,370 mm	≤ 4,100 mm
Build-in height	H	DLH ≤ 4,800 mm HL + 250 mm	DLH ≤ 5,000 mm HL + 325 mm
Side space	SL/SR	125mm	operator side 300 mm
Build-in length	D	DLH - HL + 700 mm	

Details			
Opening width	DLW	min 1,800 mm	max. 6,000 mm
Opening height	DLH	min 1,875 mm	max. 5,000 mm
High lift	HL	≤ 1,370 mm	≤ 4,100 mm
Build-in height	H	DLH ≤ 4,800 mm HL + 250 mm	DLH ≤ 5,000 mm HL + 325 mm
Pitch	Pitch	5°	45°
Side space	SL/SR	125mm	operator side 300 mm
Build-in length	D	DLH - HL + 700 mm	DLH - HL + 775 mm



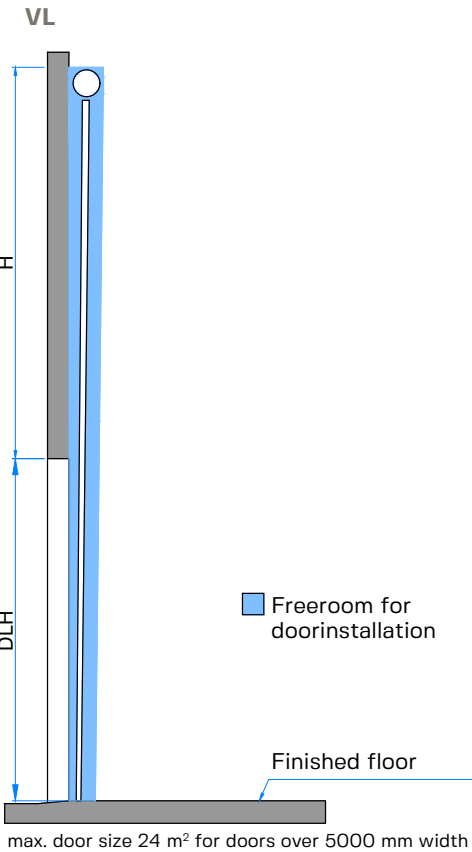
*max. door size 27,5 m² for doors up to 5.500x5.000mm or 6.000x4.580mm.

Details			
Opening width	DLW	min 1,800 mm	max. 6,000 mm
Opening height	DLH	min 1,875 mm	max. 5,000 mm
Build-in height	H	-	215
Side space	SL/SR	125 mm	operator side 300 mm
Build-in length	D	DLH + 950 mm	

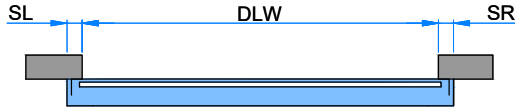


*max. door size 27,5 m² for doors up to 5.500x5.000mm or 6.000x4.580mm.

Details			
Opening width	DLW	min 1,800 mm	max. 6,000 mm
Opening height	DLH	min 1,875 mm	max. 5,000 mm
Build-in height	H	-	215 mm
Pitch	Pitch	5°	35°
Side space	SL/SR	125 mm	operator side 300 mm
Build-in length	D	DLH + 950 mm	



Side space and opening width of all doors



Details			
Opening width	DLW	min 1,800 mm	max. 6,000 mm
Opening height	DLH	min 1,875 mm	max. 5,000 mm
Build-in height	H	DLH ≤ 3,300 mm 300 mm	DLH ≤ 5,000 mm DLH + 355 mm
Side space	SL/SR	125 mm	operator side 300 mm

OVERHEAD SECTIONAL DOOR SMART XL
INSTALLATION DIMENSIONS AND TECHNICAL SPECIFICATIONS

Order size in mm	Section height in mm		Total number of sections
	Bottom and middle section height	Top section height	
4,946-5,000	521	761-815*	9
4873-4,945	553	438-510	9
4,732-4,872	490	307-447	10
4,693-4,731	490	758-796*	9
4,664-4,692	553	782-810*	8
4,482-4,663	521	297-478	9
4,383-4,481	521	719-817*	8
4,242-4,382	490	307-447	9
4,190-4,241	553	307-359	8
4,143-4,189	490	698-744*	8
3,961-4,142	521	297-478	8
3,893-3,960	521	751-818*	7
3,752-3,892	490	307-447	8
3,637-3,751	553	307-421	7
3,622-3,636	490	667-681*	7
3,440-3,621	521	297-478	7
3,403-3,439	521	782-817*	6
3,288-3,402	490	333-447	7
3,101-3,287	553	324-510	6
2,928-3,100	521	307-478	6
2,913-2,927	553	688-702*	5
2,772-2,912	490	307-447	6
2,758-2,771	521	658-671*	5
2,736-2,757	490	761-782*	5
2,579-2,735	553	354-510	5
2,423-2,578	521	323-478	5
2,282-2,422	490	307-447	5
2,237-2,281	521	658-702*	4
2,183-2,236	490	698-751*	4
2,058-2,182	553	386-510	4
1,933-2,057	521	354-478	4
1,875-1,932	490	390-447	4

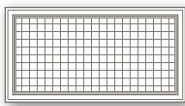
* composed top section

OVERHEAD SECTIONAL DOOR SMART XL
WINDOW INSERTS AND FRAMED SECTIONS

MOTIF WINDOW



Motif 1



Ventilation grille for Motif 1

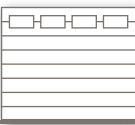


Motif 2

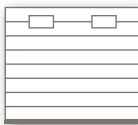
Motif window frames made from PUR, painted to match door colour. Double glazed acrylic window cassette or perforated aluminium ventilated sheet. Coated in color tone similar to standard color, wood color tones in elaborate two-tone coating. Overall frame dimension W x H = 450 x 263 mm.

(Overall frame dimension W x H = 450 x 263 mm)	per unit
Motif window 1 - 2, acrylic glass - clear	Window
Motif window 1 - 2, acrylic glass - textured	Window
Ventilation grille for Motif 1 made from aluminium perforated panel, anodised E6/EV1, ventilation cross-section 300 cm²	Window

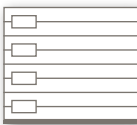
WINDOW CONFIGURATIONS WITH MOTIF WINDOWS



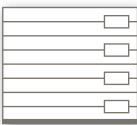
Window inserts complete (3-8)



2 window inserts



Window inserts left



Window inserts right

Bottom and second section not possible in conjunction with manual locking, as well as in the second section if an outside handle is needed.

Door width mm	1,800 - 2,399	2,400 - 3,099	3,100 - 3,649	3,650 - 4,249	4,250 - 4,849	4,850 - 6,000
Window	3	4	5	6	7	8

LIGHT BAND SECTIONS FOR NORMSTAHL OVERHEAD SECTIONAL DOORS



The height of the continuous light band sections always corresponds to the height of the panel sections. Continuous light band are made of aluminum profiles with finger pinch protection, and in some case integrated reinforcement profile. Various acrylic glass fillings can be selected, profiles and glazing beads anodized E6/EV1. Glazing double-pane 27 mm clear. Bottom and top section cannot be glazed. For door width 5,000 mm or bigger, only one light band is possible. Max door width is 6,000 mm.

Door width mm	1,800-3,000	3,001-4,500	4,501-6,000
Number of panes	2	3	4

GARAGE DOOR OPERATORS

PRODUCT DESCRIPTIONS AND TECHNICAL INFORMATION



DOOR OPERATOR – FREQUENZ 400 VOLT

- » Drive in traditional industrial design, which acts on the balancer shaft.
- » The motor can be positioned on the left or right.

Most of the accessories used for the Magic operators can also be used in combination with the industrial operator. One exception: External emergency release of the drive is not possible for gates with industrial drives. Therefore, gates with industrial operators are not suitable for installation in garages without a separate entrance. The door operator consists of:

- Motor
- Control unit
- 7m cable motor/control
- Optosensor unit
- Mains cable with 400V plug
- Mounting bracket

*You can find our detailed written warranty at www.normstahl.com

Technical data subject to change without notice.
Colour deviations due to the printing process may occur.



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www.normstahl.com