

FR FLOOR SYSTEM
FIRE-RESISTANT GLASS
POLFLAM F



POLFLAM[®]
FIRE RESISTANT GLASS

POLFLAM F fire-resistant glass was tested in certified research institutes across Europe.



POLFLAM F fire-resistant glass installed in FR FLOOR SYSTEM

POLFLAM® is an independent manufacturer of fire-resistant glass, from research to technology and to production. POLFLAM fire protection glass is manufactured on the basis of modern hydrogel technology which makes it possible to obtain a glass of exceptional functionality.

On the European market, **POLFLAM®** brand is today an unquestionable synonym of high product quality.

POLFLAM F fire-resistant glass is used for floor applications.

It is available for internal applications in the fire resistance classes REI 30, 60, 90 and 120.

Fire-resistant glazed floors provide for more daylight saturation while giving the building occupants maximum protection in the event of fire.

POLFLAM® offers fire-resistant glass for glazed floors with a load-bearing capacity up to $q_k = 5 \text{ kN/m}^2$.

POLFLAM F fire-resistant glass can be provided with anti-slip screen printing and is also available as irregular glass shapes.

For each application, the load-bearing structural design as well as all statically exposed elements and connections must be verified by a static calculation.

*This brochure gives a brief overview of the possibilities for POLFLAM F fire-resistant glass.
For the correct installation details and instructions the classification or test report from the tested construction needs to be observed.
Please contact your local POLFLAM sales representative for more information.*



	POLFLAM F62	POLFLAM F72	POLFLAM F110
Resistance to fire	REI 30, REI 60	REI 30	REI 30, REI 60, REI 90, REI 120
Total thickness [mm]	62 ±3	72 ±3	110 ±3
Weight [kg/m²]	136	136	158
Max. temperature range [°C]	-40 / +50		
Pendulum body impact resistance	1(B)1		1(B)1 / 1(B)1
Light transmittance τ_v [%]	75*	69*	55*
U_g -value [W/m²K]	4.0*	2.8*	0.8**
Sound reduction index R_w (C; C_{tr}) [dB]	53 (-3; -7)*	53 (-3; -7)*	54 (-3; -7)*
Maximum glass dimensions [mm]	2200x1650 REI 30 1900x1650 REI 60	2200x1650	2200x1650

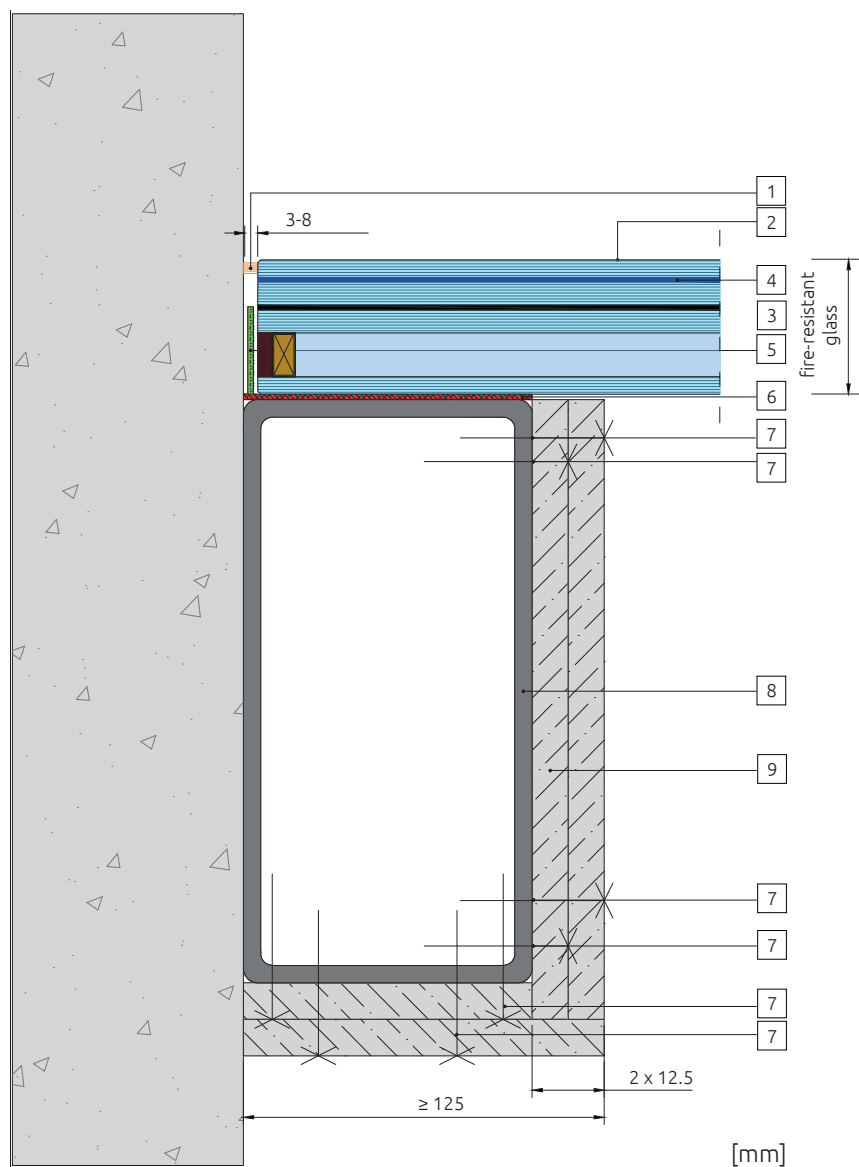
* estimated parameters

** estimated parameters; 2 x Low-E 1.1

Other glass compositions on request

POLFLAM F62

Installation of POLFLAM F on steel supporting structure

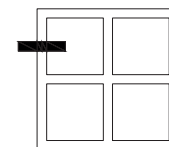


POLFLAM F62

REI 30, REI 60

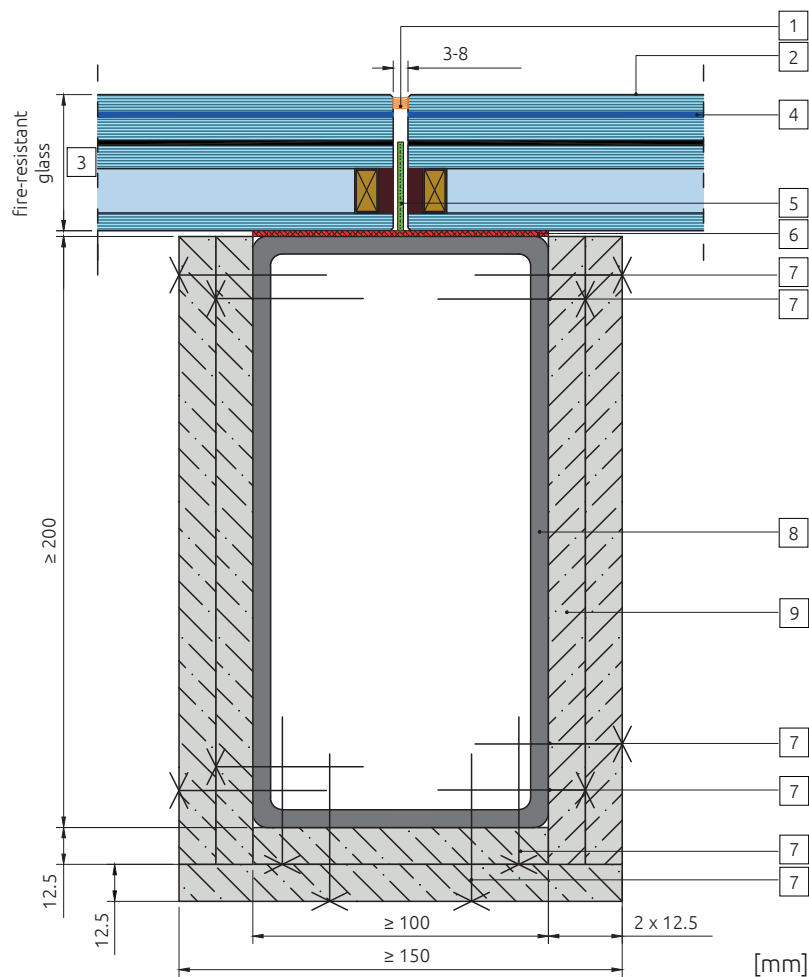
FR FLOOR SYSTEM

1	Silicone - DOWSIL™ 791
2	Anti-slip screen printing – optional
3	Fire-resistant glass POLFLAM F62
4	Edge screen printing
5	Intumescent tape KERAFIX® FXL 200 35 x 2 mm
6	Ceramic fibre paper
7	Self-drilling screw made of galvanized carbon steel (6.3 x 50 mm)
8	Substructure: steel beam or reinforced concrete beam according to static calculation (see detail on page 7)
9	Plasterboard type DF 2 x 12.5 mm



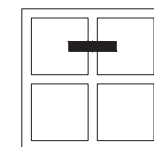
POLFLAM F62

Installation of POLFLAM F on steel supporting structure



POLFLAM F62

REI 30, REI 60

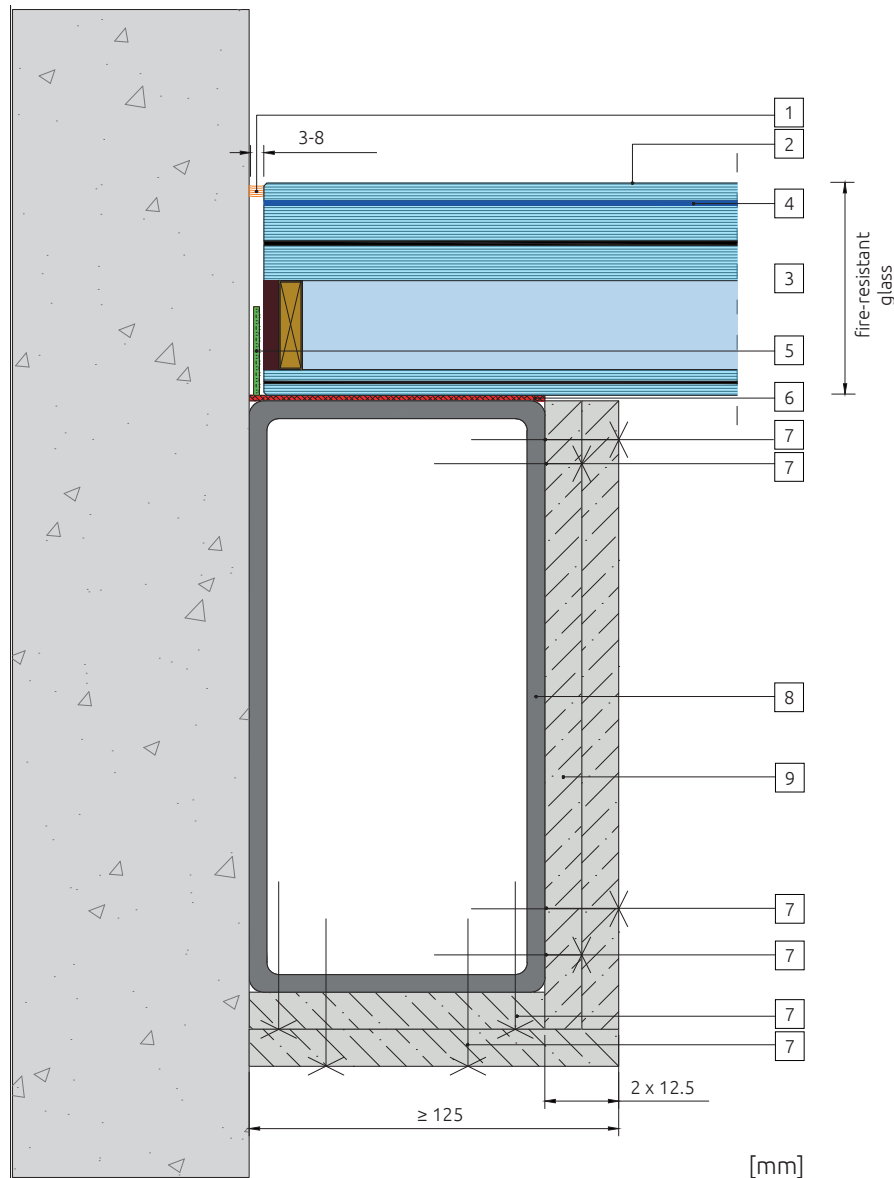


FR FLOOR SYSTEM

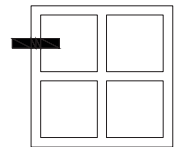
1	Silicone - DOWSIL™ 791
2	Anti-slip screen printing – optional
3	Fire-resistant glass POLFLAM F62
4	Edge screen printing
5	Intumescent tape KERAFIX® FXL 200 35 x 2 mm
6	Ceramic fibre paper
7	Self-drilling screw made of galvanized carbon steel (6.3 × 50 mm)
8	Substructure: steel beam or reinforced concrete beam according to static calculation (see detail on page 8)
9	Plasterboard type DF 2 x 12.5 mm

POLFLAM F72

Installation of POLFLAM F on steel supporting structure



POLFLAM F72
REI 30

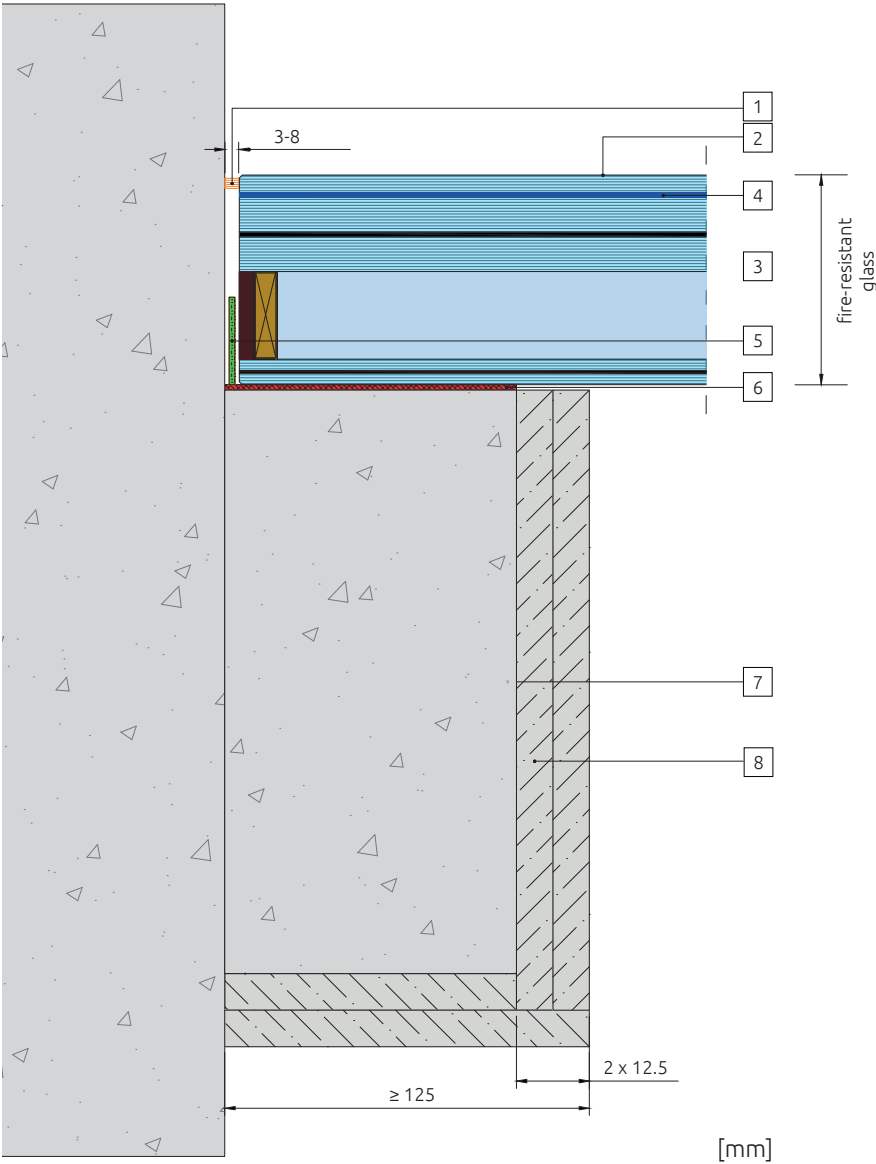


FR FLOOR SYSTEM

1	Silicone - DOWSIL™ 791
2	Anti-slip screen printing – optional
3	Fire-resistant glass POLFLAM F72
4	Edge screen printing
5	Intumescent tape KERAFIX® FXL 200 35 x 2 mm
6	Ceramic fibre paper
7	Self-drilling screw made of galvanized carbon steel (6.3 × 50 mm)
8	Substructure: steel beam or reinforced concrete beam according to static calculation (see detail on page 7)
9	Plasterboard type DF 2 x 12.5 mm

POLFLAM F72

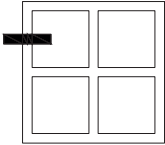
Installation of POLFLAM F on reinforced concrete supporting structure



POLFLAM F72
REI 30

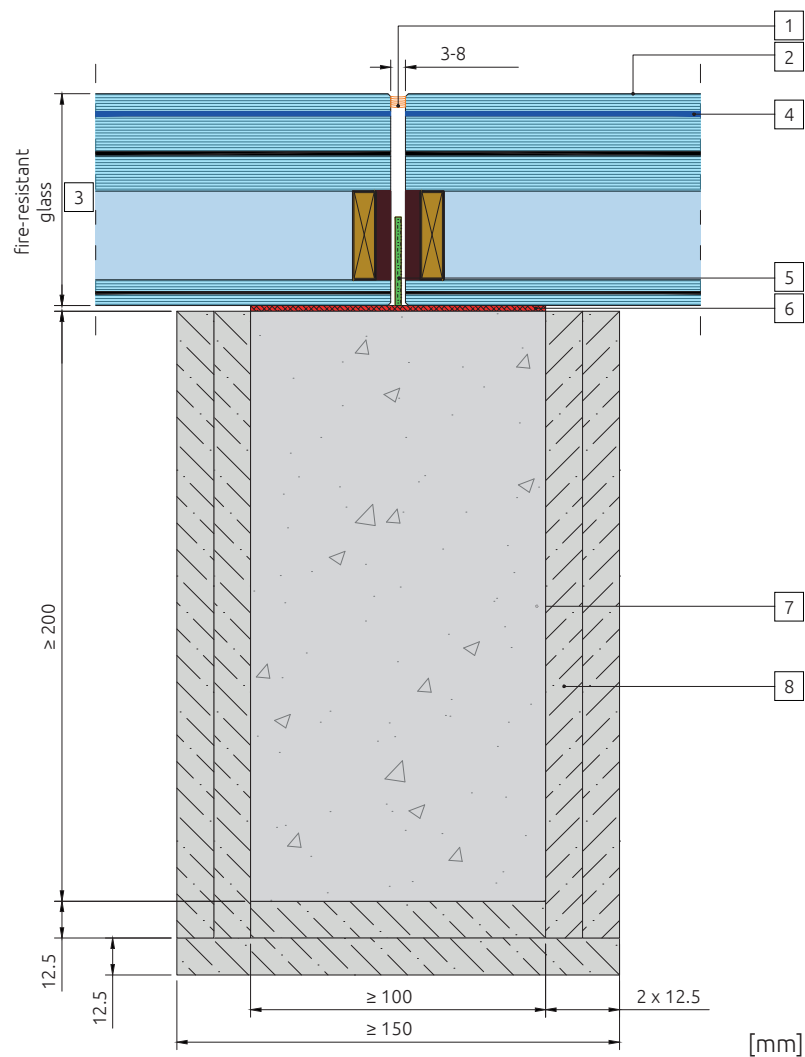
FR FLOOR SYSTEM

1	Silicone - DOWSIL™ 791
2	Anti-slip screen printing – optional
3	Fire-resistant glass POLFLAM F72
4	Edge screen printing
5	Intumescent tape KERAFIX® FXL 200 35 x 2 mm
6	Ceramic fibre paper
7	Reinforced concrete beam according to static calculation
8	Plasterboard type DF 2 x 12.5 mm – optional



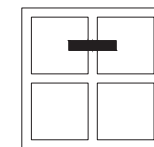
POLFLAM F72

Installation of POLFLAM F on reinforced concrete supporting structure



POLFLAM F72

REI 30

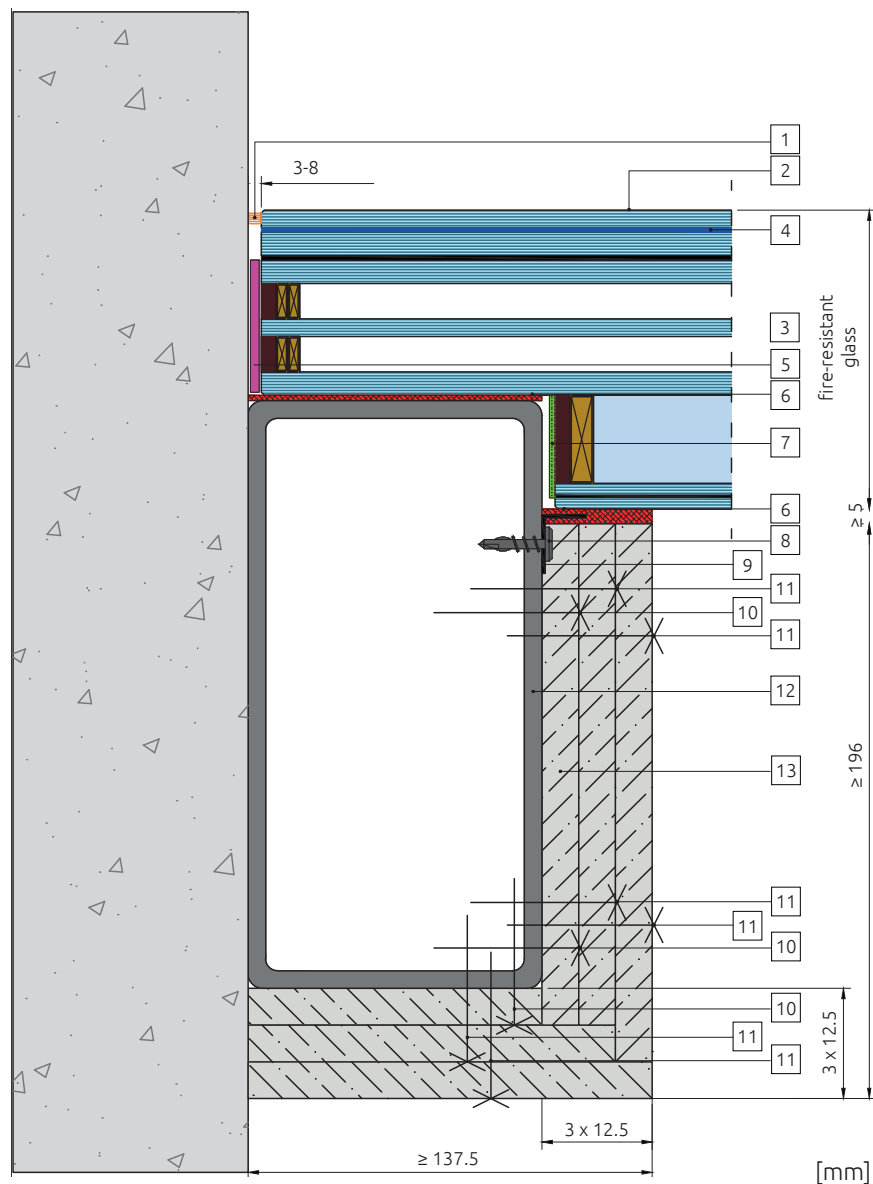


FR FLOOR SYSTEM

1	Silicone - DOWSIL™ 791
2	Anti-slip screen printing – optional
3	Fire-resistant glass POLFLAM F72
4	Edge screen printing
5	Intumescent tape KERAFIX® FXL 200 35 x 2 mm
6	Ceramic fibre paper
7	Reinforced concrete beam or steel beam covered with gypsum according to static calculation (see detail on page 5)
8	Plasterboard type DF 2 x 12.5 mm – optional

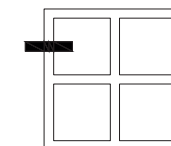
POLFLAM F110

Installation of POLFLAM F on steel supporting structure



POLFLAM F110

REI 30, REI 60, REI 90, REI 120

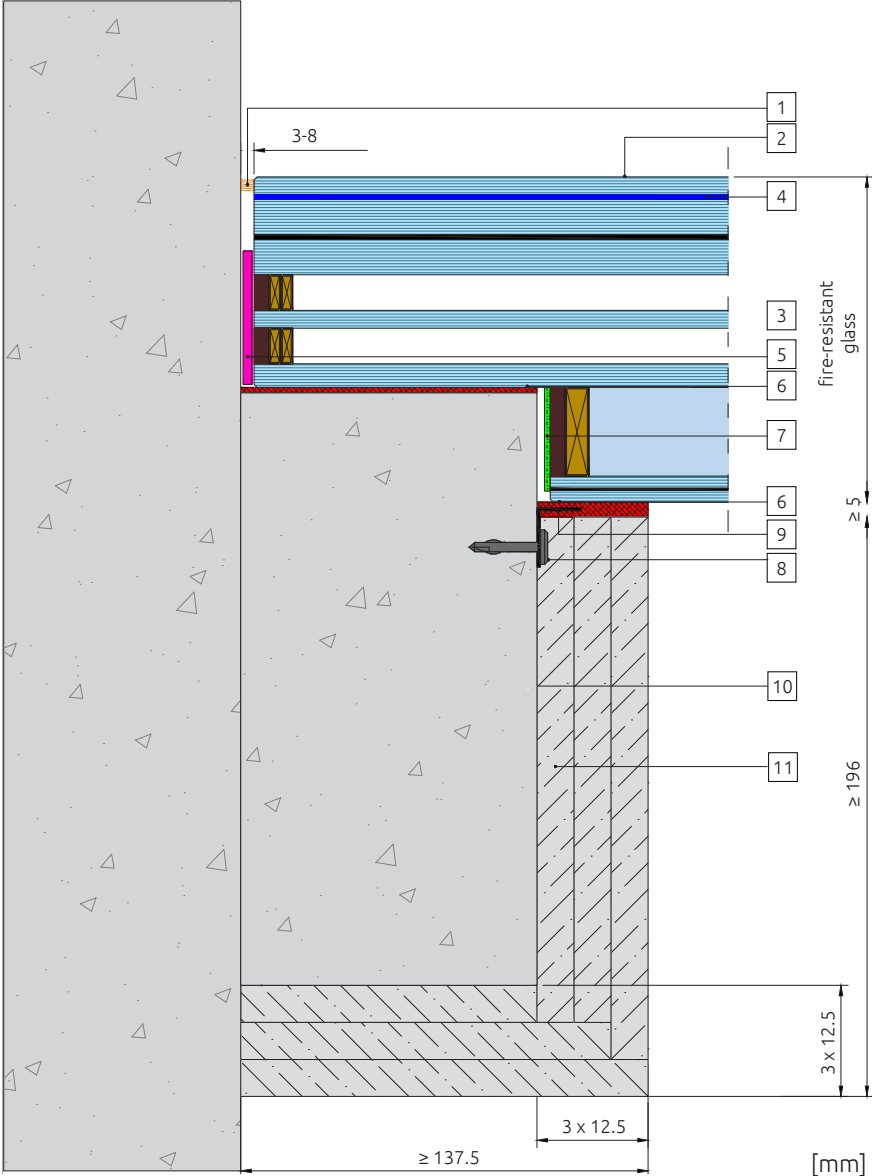


FR FLOOR SYSTEM

1	Silicone - DOWSIL™ 791
2	Anti-slip screen printing – optional
3	Fire-resistant glass POLFLAM F110
4	Edge screen printing
5	Filing with polypropylene (45 x 3 mm) – optional
6	Ceramic fibre paper
7	Intumescent tape KERAFIX® FXL 200 35 x 2 mm
8	Self-drilling screw made of galvanized carbon steel (4.2 x 25 mm)
9	Stainless steel L bracket 40/20/0.8 every 400 mm
10	Self-drilling screw made of galvanized carbon steel (6.3 x 50 mm)
11	Self-drilling screw made of galvanized carbon steel (6.3 x 70 mm)
12	Substructure: steel beam or reinforced concrete beam according to static calculation (see detail on page 10)
13	Plasterboard type DF 3 x 12.5 mm

POLFLAM F110

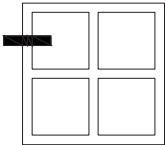
Installation of POLFLAM F on reinforced concrete supporting structure



POLFLAM F110
REI 30, REI 60, REI 90, REI 120

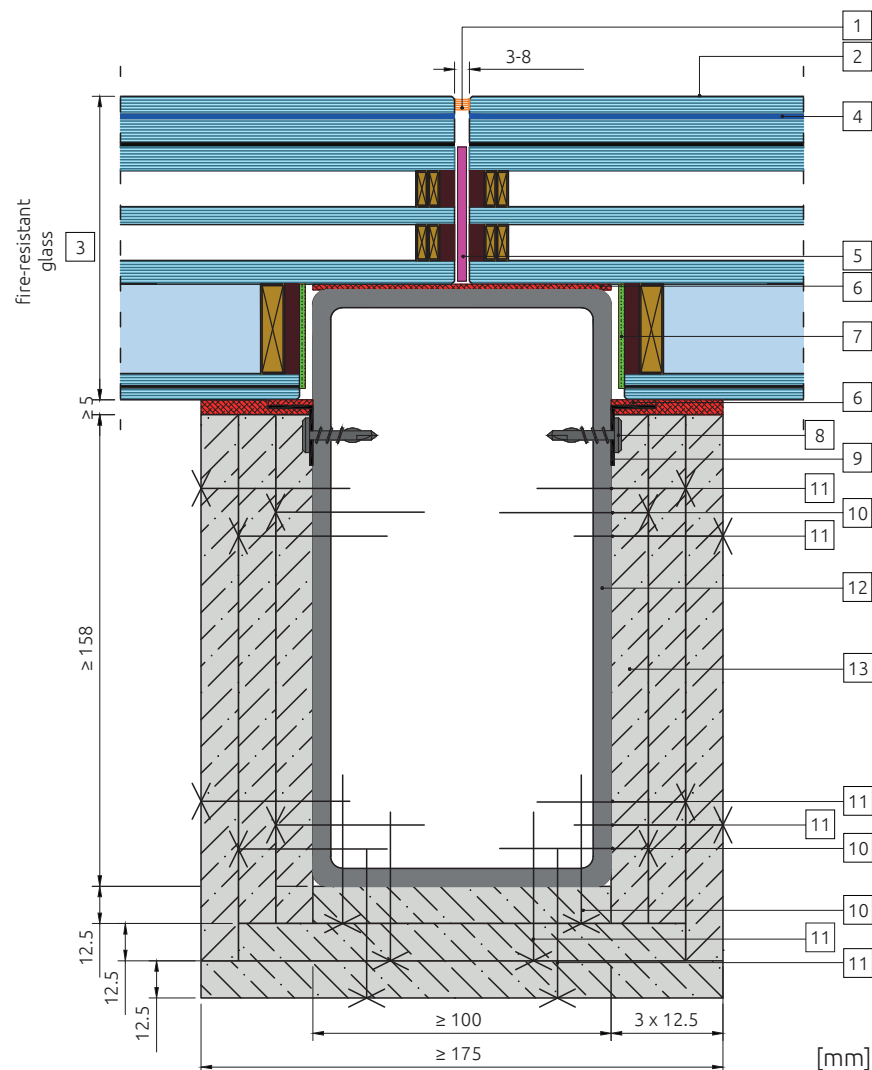
FR FLOOR SYSTEM

1	Silicone - DOWSIL™ 791
2	Anti-slip screen printing – optional
3	Fire-resistant glass POLFLAM F110
4	Edge screen printing
5	Filing with polipropylene (45 x 3 mm) – optional
6	Ceramic fibre paper
7	Intumescent tape KERAFIX® FXL 200 35 x 2 mm
8	Screw (4.2 x 25 mm)
9	Stainless steel L bracket 40/20/0.8 every 400 mm
10	Reinforced concrete beam according to static calculation
11	Plasterboard type DF 3 x 12.5 mm



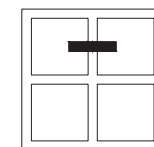
POLFLAM F110

Installation of POLFLAM F on steel supporting structure



POLFLAM F110

REI 30, REI 60, REI 90, REI 120

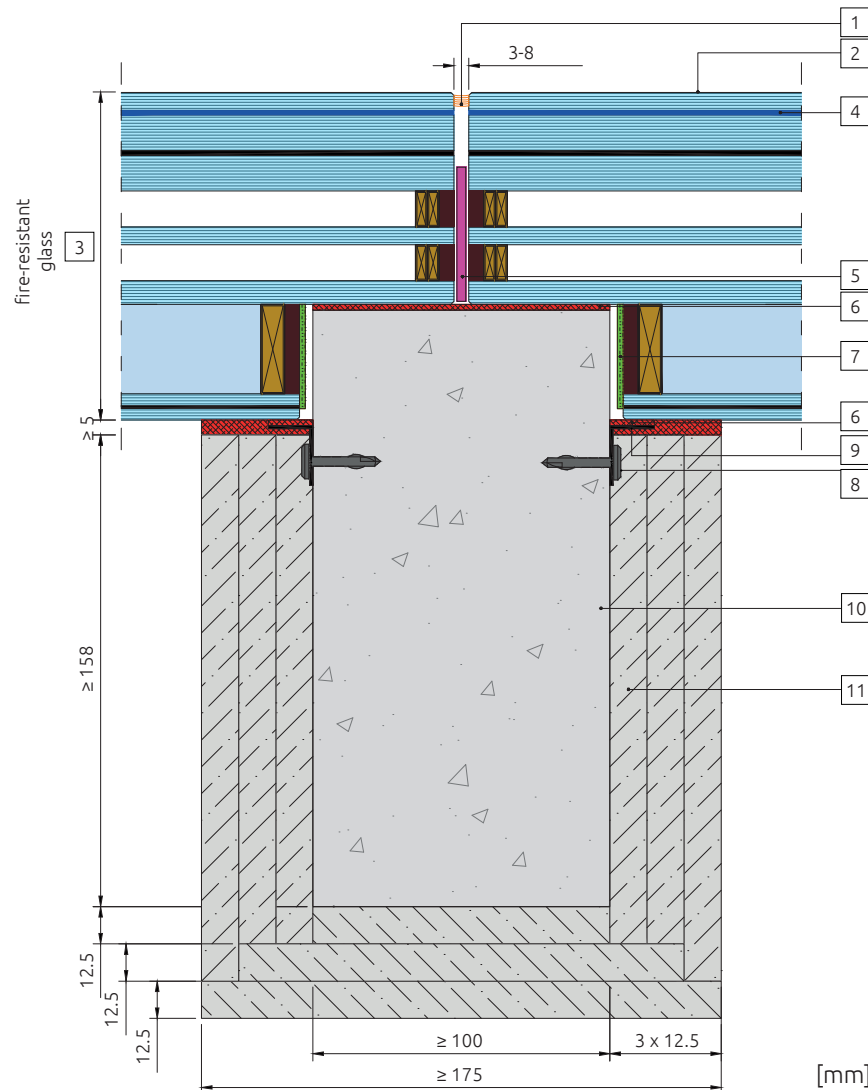


FR FLOOR SYSTEM

1	Silicone - DOWSIL™ 791
2	Anti-slip screen printing – optional
3	Fire-resistant glass POLFLAM F110
4	Edge screen printing
5	Filing with polypropylene (45 x 3 mm) – optional
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12	Substructure: steel beam or reinforced concrete beam according to static calculation
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POLFLAM F110

Installation of POLFLAM F on reinforced concrete supporting structure

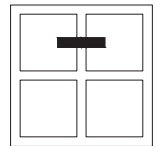


POLFLAM F110

REI 30, REI 60, REI 90, REI 120

FR FLOOR SYSTEM

1	Silicone - DOWSIL™ 791
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3	Fire-resistant glass POLFLAM F110
4	Edge screen printing
5	Filing with polypropylene (45 x 3 mm) – optional
6	Ceramic fibre paper
7	Intumescent tape KERAFIX® FXL 200 35 x 2 mm
8	Screw (4.2 x 25 mm)
9	Stainless steel L bracket 40/20/0.8 mm every 400 mm
10	Reinforced concrete beam according to static calculation
11	Plasterboard type DF 3 x 12.5 mm

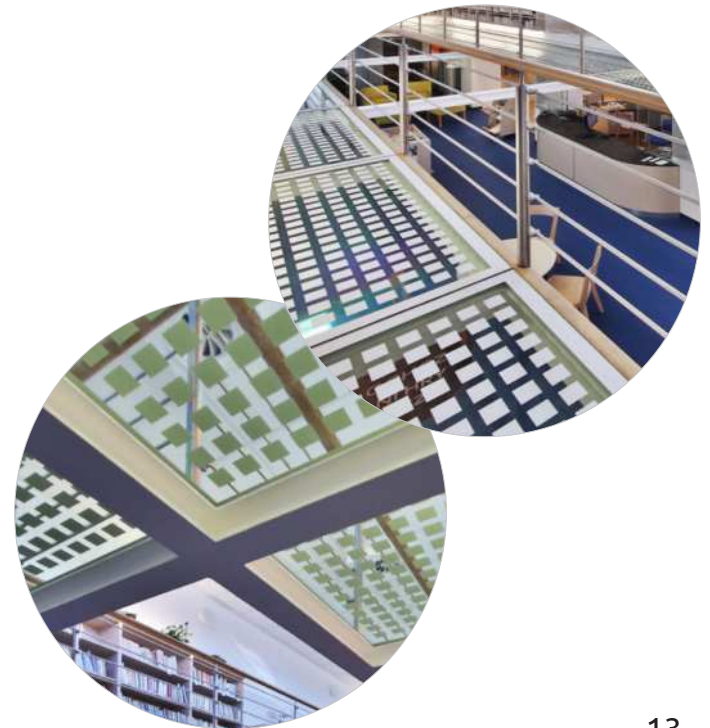
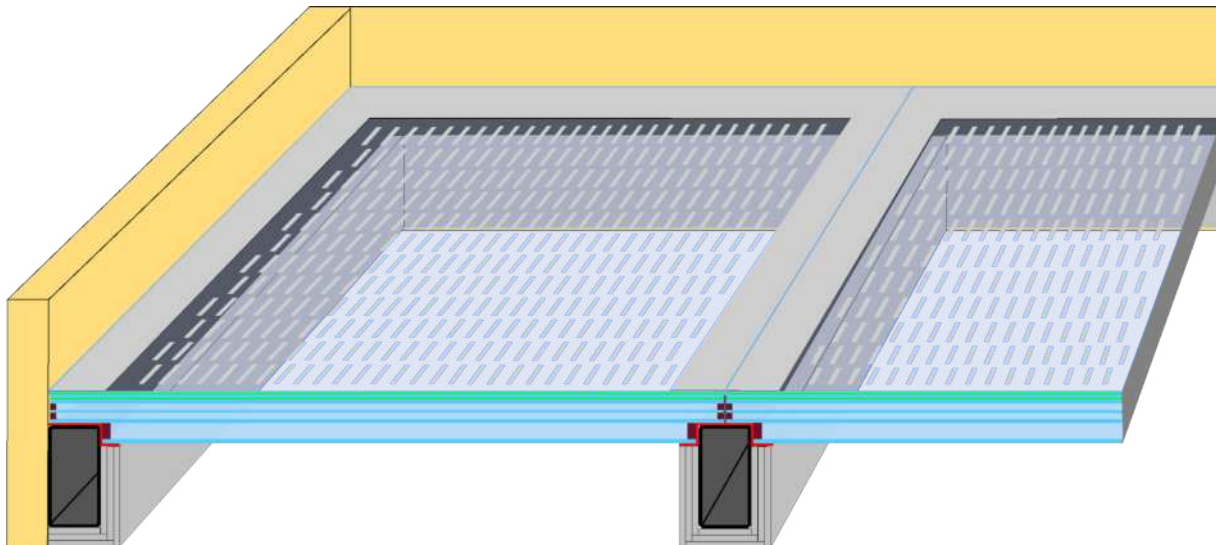
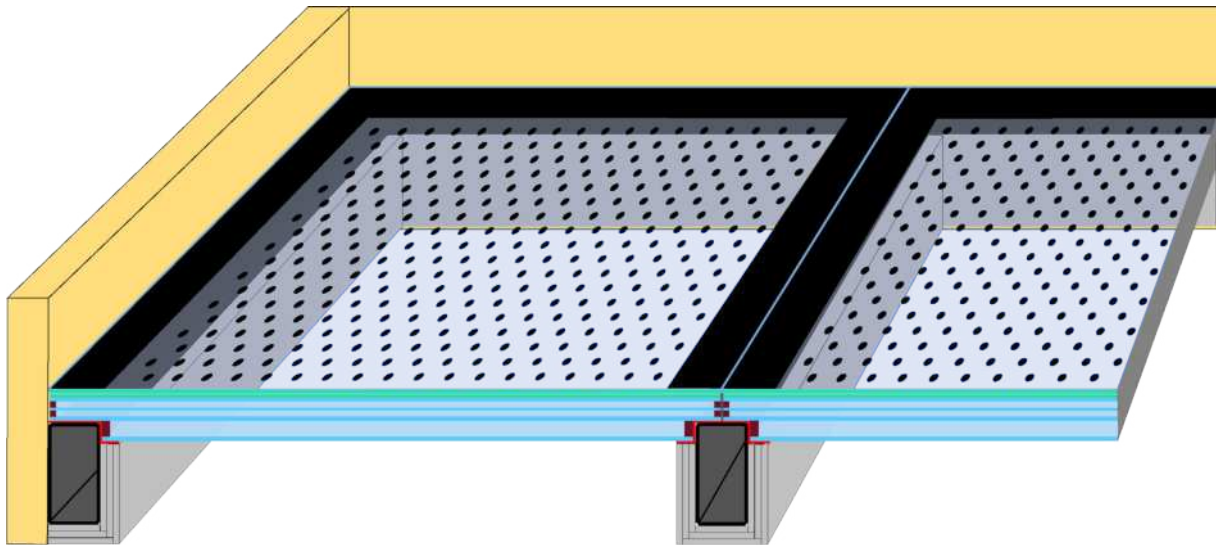


Screen printing variants for POLFLAM F

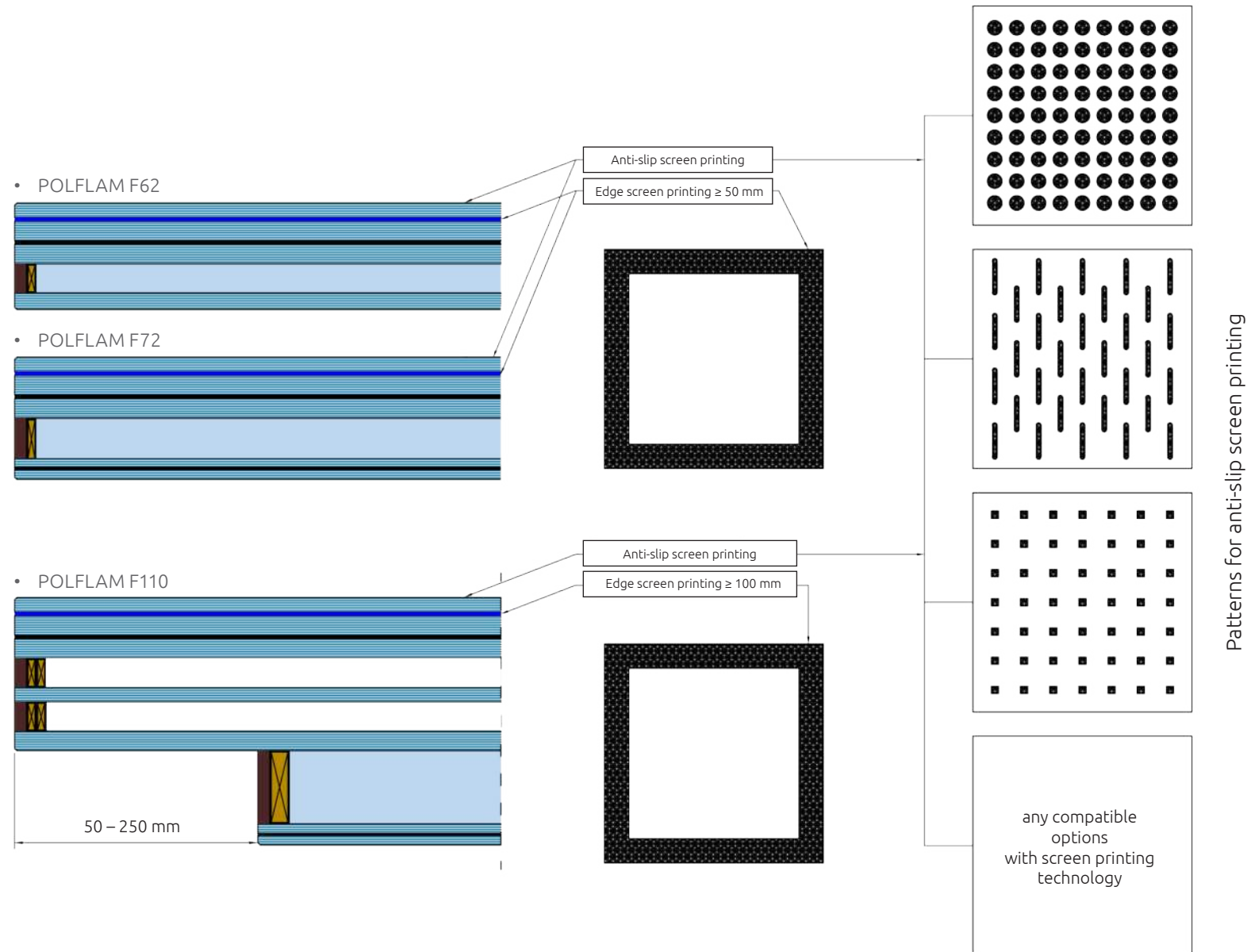
POLFLAM F glass is provided with an opaque edge screen printing ≥ 50 mm to conceal the supporting structure of the floor system.

Optional screen printed geometric pattern provides anti-slip properties to the glass surface and also improves appearance.

Both the edge screen printing and the surface patterns can be made in different RAL colours on request.

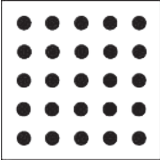
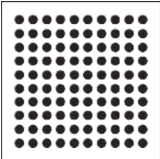
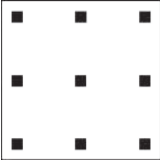
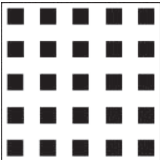


Screen printing variants for POLFLAM F



Anti-slip screen printing is not guaranteed, price and availability on request

Patterns for anti-slip screen printing

Name	Pattern	Technical Specifications
DOTS 3/3		• Dot diameter: 3 mm • Dot spacing: 3 mm • Surface coverage: 24.2% • ITB certified in accordance with DIN 51130: Anti-slip rating "R9" • Standard colours: satin, white • Non-standard colours: RAL – on request
DOTS 2/1		• Dot diameter: 2 mm • Dot spacing: 1 mm • Surface coverage: 37.3% • Standard colours: satin, white • Non-standard colours: RAL – on request
SQUARES 2.5/12		• Side length: 2.5 mm • Square spacing: 12 mm • Surface coverage: 5.7% • Standard colours: satin, white • Non-standard colours: RAL – on request
SQUARES 4/4		• Side length: 4 mm • Square spacing: 4 mm • Surface coverage: 30.9% • Standard colours: satin, white • Non-standard colours: RAL – on request
STRIPES 1200/1.5		• Stripe dimensions: 1200 × 1 mm • Stripe spacing: 1.5 mm • Surface coverage: 44.4% • Standard colours: satin, white • Non-standard colours: RAL – on request



PARTITIONS



WINDOWS
AND DOORS



FACADES
AND ROOFS



FLOORS



SMOKE
BARRIERS



CE marking confirms that a product complies
with the relevant harmonised European Norm.

Technical specification of the products are available at www.polflam.com



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