



NUHPANEL | FLUX

SECTIONAL DOOR PANELS

FLUX

FLUX Sectional introduces innovations to the industry by discriminating models of door systems and discrete solutions.



Door panels and features

FLUX door panels have sandwich like structure with 0.5 mm thick galvanized sheet metals at both sides and contain PUR isolation material. Panel thickness is 42 mm.

"Finger saving" feature is standard for all door panels. Polymer seals affixed on the junction points of the special design panels provide insulation. These seals enhance the impermeability and insulation. Thermal insulation feature is outstanding. Thermal conductivity coefficient (λ) is 0.017 W/m²K. Panel weight is 10.5 kg/m².

42 mm

panel thickness

0.017

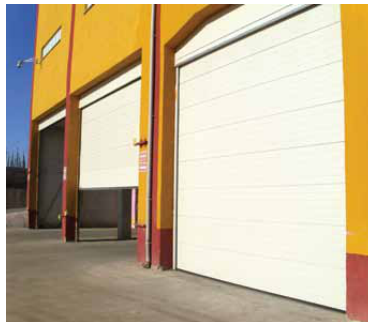
W/m²K thermal conductivity

10.5

kg/m² panel weight

45

kg/m³ PUR density



The panel is produced in Gebze and shipped dimensioned, ready for the door builder to assemble.

Inspired panel design

FLUX door panels expose high standards and offer advantages not available in other door panels.

- The density of the PUR isolation material is 45 kg/m³. This high density provides higher strength and a better thermal isolation. Panels have "B,s2,d0" fire class in accordance with the EN norms.
- All panels are designed in a "finger-saving" user friendly manner preventing any finger jams. Thus, the risk is minimized.
- Sheet metals are 140 g/m² galvanized and ensured a higher strength and a longer economic life by means of its 0.5 mm thickness. They are primer and polyester painted.



Both sides of the panels are indented. This is why, they have a stronger structure. Special embossing textures improve the strength of the sheet metal and provide a discrete sight.

Doors with discriminating sights such as wood and metal can be produced by coating sheet metal by PVC folio utilizing the technology of the FLUX Door panel production. Corrosion strength can be increased by PET plate lamination.



PANEL FEATURES

Panels

- Panels have sandwich like structure with 0.5 mm thick, galvanized and painted sheet metals inside and outside furnished with 45 kg/m³ polyurethane isolation material in between. The spume used has CFCs Free PUR and B2 fire retarding feature.
- Panel thickness is 42 mm and alternative heights of 500 mm and 610 mm are available. Panels are designed in a finger-saving manner preventing any finger jams.
- Polymer seals are affixed on special design panels during mounting in order to provide isolation on joints. The maximum isolation efficiency is achieved by means of these seals.
- The wind resistance is 90 km/h. Wind bars are utilized to increase the wind resistance of doors larger than 5500 mm.
- The inner and outer surfaces of the panels have embossing textures and their resistance is strengthened by latitudinal indents. Panel weight is 10.5 kg/m². Ral 9002 is used as the standard color.
- The internal padding polyurethane furnishes high thermal and sound insulation. Thermal insulation is $k=1.51 \text{ w/m}^2\text{K}$, whereas sound isolation is $RW = -26 \text{ db}$.

42 mm

panel thickness

500 mm / 610 mm

panel heights

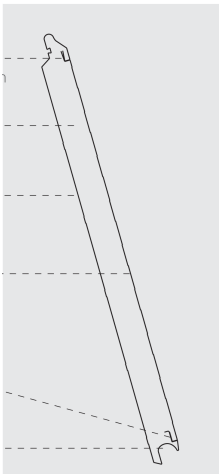
B,s2,d0

fire class, EN norms

90 km/h

wind resistance

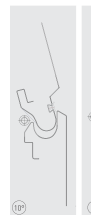
Panel section



- Reinforcement sheet of hinge installation
- Polyurethane filler
- Outer surface sheet (0,5 mm)
- Inner surface sheet (0,5 mm)
- Foam gasket

Joint geometry

The joint at 10° and at 0°. The polymer seal sits in the channel and closes the section as the panel comes down.



Finger saving technology

The junction geometry closes on itself as the panel folds, so there is no open gap for a finger to enter.



The coating on the sheet

A prepainted sheet is not one layer but several: the steel, its zinc coating, a chemical pre-treatment, a primer and the top coat. What the panel does over twenty years is decided by that stack, not by the top coat alone.

Polyester paint

The standard finish on the FLUX panel. Roller applied over a primer in the coil coating line, normally 20 to 25 microns of top coat. It is the most economical of the coil coatings and holds colour well in mild climates. On long south-facing runs in strong sun a highly durable polyester is the sensible upgrade, since it resists chalking and fading better for the same thickness.

Plastisol

A thick PVC coating, typically around 200 microns, embossed while still warm. The film is tough, takes abrasion well and its sheer thickness adds a barrier against corrosion that thin paints cannot give. It softens above roughly 80 °C and dislikes solvents, so it belongs on roofs and cladding rather than next to heat.

PVDF

A fluoropolymer top coat, usually 25 to 28 microns. The resin is not broken down by ultraviolet light, so gloss and colour hold for far longer than polyester. It costs more and the colour range is narrower, so it earns its place on prestige facades rather than on a working industrial door.

PET and PVC film

Instead of paint, a finished film is laminated onto the strip. FLUX uses both: a PET film where the sheet needs a harder, more corrosion resistant face, and a PVC film where the door has to look like timber or brushed metal. Films take deep forming without cracking and can carry printed or embossed patterns.

Coating	Typical thickness	Where it belongs
Polyester	20 - 25 µm	General purpose, interior and exterior, mild climates
Highly durable polyester	25 - 60 µm	Exterior where fading and chalking matter
PVDF	25 - 28 µm	Facades where colour must hold for decades
Plastisol	100 - 300 µm	Roofing and cladding, abrasion and corrosion exposure
PET film	film	Hard, corrosion resistant face; appliances and clean areas
PVC film	film	Wood and metal decors on the visible face

The FLUX panel is supplied with primer and polyester paint as standard, and with PET or PVC film lamination on request. PVDF and plastisol are described here for comparison; they are not part of the FLUX range.

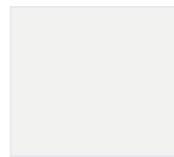
FINISHES

Colors and textures

The panel is delivered painted as standard, and can be laminated with PET or PVC foil for a different sight and a higher corrosion strength.

Poliamit coat

White and gray (standart colors)



RAL 9002
White



RAL 9006
Gray aluminium

PET foil lamination

Increases the corrosion strength of the sheet metal.



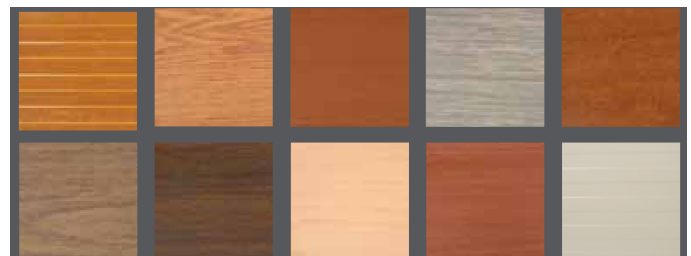
Brushed aluminium



Stone texture

PVC lamination

Foil coated wood textures



FLUX supplies the door panel. Hardware, springs, tracks, automation and accessories are not part of the range.

GET IN TOUCH

Ask for a quotation

Tell us the panel height, the finish and the quantity; our technical sales team will come back with a specification and a price.

ADDRESS

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