



PROFOIL PANEL



DESCRIPTION

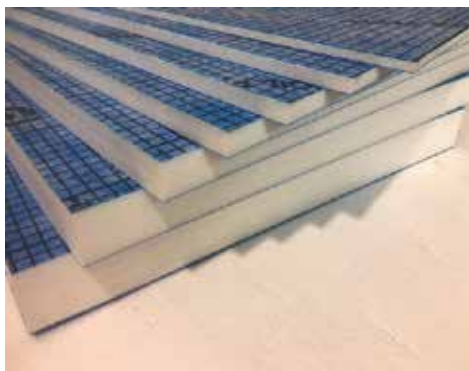
PROFOIL PANEL are extruded polystyrene panels provided on both sides with a waterproof membrane. The waterproof membrane and the adhesive used for its fixing stiffen the panels that allow to work quickly and economically.

MATERIAL

PROFOIL PANEL are extruded polystyrene panels with a density of 33 kg / m³, provided on both sides with a waterproof membrane. The panels are stiffened by the waterproof membrane and the adhesive used for its fixing. The panels, for indoor applications, are designed and tested for durability. They are suitable as support for tiling, to waterproof and to create structures and load-bearing walls. The panels are available with a thickness of 6.35 / 9.5 / 12.7 / 15.9 / 25 / 38.1 and 50.8 mm (1/4 " , 3/8" , 1/2 " , 5/8" , 1 " 1 1/2" and 2 "), a size of 91.5 x 270 cm and can be used on floors, ceilings and walls. **PROFOIL PANEL** allows you to complete your job faster and more economically.

AREAS OF USE

PROFOIL PANEL is suitable for indoor environments as laying support and heat-insulating panel for floor, wall and ceiling. The panel could be applied on rough masonries, on old floors, on fixed wooden and metal structures, for the construction of partition walls, top for kitchens, washbasin shelves and pieces of furniture.



WARNINGS

Do not use **PROFOIL PANEL** outdoor, when fire resistance is required, where heavy traffic is expected, and as a structural element. Do not apply on substrates that are not suitable for laying. Do not expose to UV rays.

PRODUCT PLUS AND FUNCTIONS

- **PROFOIL PANEL** is easy to cut.
- **PROFOIL PANEL** has a centimeter grid on the surface to facilitate cutting.
- **PROFOIL PANEL** is very lightweight so it is possible to carry many panels at a time.
- **PROFOIL PANEL** is a safe waterproofing.

LAYING INSTRUCTIONS

Laying on floor and wall with adhesive

1. Clean the support from dust, oil, grease, friable or weakly anchored parts, cement residuals, lime, plaster or paintings.
2. Apply a suitable adhesive on the back of the panel with a notched trowel.
3. Place the panel on the support and press it so that the adhesive adheres perfectly.
4. Put the panel near each other, taking care to align them.
5. Immediately after the panels laying the tiles can be laid.

Note: If waterproofing is required, see "Waterproofing" section.

Laying with dabs of adhesive

1. Clean the support from dust, oil, grease, friable or weakly anchored parts, cement residuals, lime, plaster or paintings.
2. Apply the dabs of adhesive on the back



of the panel every about 30 cm apart from each other.

3. Apply the panels to the wall, press them firmly in place and align them using a leveling bubble.

4. Immediately after the panels laying, the tiles can be laid with a notched trowel suitable for the tile size.

Note: If the dabs of adhesive are not needed to ensure optimum fixing of the panel, also use screws and anchors. If waterproofing is required, see "Waterproofing" section.

Laying on stud frame structures

1. For installations on stud frame structures the thickness of the panel must be at least 25 mm. The panel can be installed and screw mounted vertically and horizontally on professionally constructed stud frame. The screw must be at least 20 mm longer than the thickness of the panel in case of wood structures and at least 10 mm in case of metal structures. The distance between the screws should not exceed 25 cm.

2. When the joints between adjacent panels are not located over the stud, seal all the joints with **PROBAND FIX**

Note: If waterproofing is required, see "Waterproofing" section

Laying as partition wall

1. Lay all the panels on wall with a suitable adhesive, taking care to leave a space equal to the thickness of the panel that will be used as partition wall (only the thickness panel 50.8 can be used as a dividing wall). As an alternative, you can also screw a U-shaped profile on the permanent wall for the attachment of the partition wall.



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2. Fix the U-shaped profile, with a width equal to the thickness of the panel used as a partition wall, to the floor and ceiling.
3. Seal all vertical and horizontal joints between adjacent panels with **PROBAND FIX**

Note: If waterproofing is required, see "Waterproofing" section.

Waterproofing with PROFOIL PANEL

The joints between adjacent panels and the corners must be fully covered with **PROBAND 150** glued with **PROBAND FIX**. Similarly, critical areas such as jambs, window frames of metal, wood and plastic doors can be sealed.

TEXT TEMPLATE FOR TENDERS

Delivery and installation of extruded polystyrene panels with a thickness of 6.35 / 9.5 / 12.7 / 15.9 / 25 / 38.1 / 50.8 mm (1/4", 3/8", 1/2", 5/8", 1" 1/2" / 2") and a size of 91.5 x 152.4 cm (3" x 5'). The panels, with a density of 33 kg / m³, are provided on both sides with a waterproof membrane. They are stiffened by the waterproof membrane and the adhesive used for its fixing. The panels have to be use as support for tiling / to waterproof / to create structures / to create load-bearing walls on floor / ceiling / wall, like PROFOIL PANEL of the Progress Profiles company.

PFLPAN 6 / 9 / 13 / 16 / 25 / 38 / 50:
Polystyrene foam panel

Panel Height : _____ mm
 Panel length : _____ mt
 Panel tickness: _____ mm
 Material : _____ €/mt
 Application : _____ €/mt



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TECHNICAL DATA

Thickness 6,35 mm

	Method	Value
Size (cm)		91,5 x 152,4 ± 2
Thickness (mm) 2 kPa	EN ISO 9863-1	6.35 ± 0.5
Water absorption	EN 12087:2013 / 2A	1,8 %
Compressive strength (kPa)	EN 826:2013	408
Compressive stress at 10 % strain (kPa)	EN 826:2013	401
Tensile modulus of rupture using epoxy adhesive	EN 1348	N/mm ² 0,78

Thickness 9,5 mm

	Method	Value
Size (cm)		91,5 x 152,4 ± 2
Thickness (mm) 2 kPa	EN ISO 9863-1	9,5 ± 0.5
Compressive strength (kPa)	EN 826:2013	413
Compressive stress at 10 % strain (kPa)	EN 826:2013	404
Tensile modulus of rupture using epoxy adhesive	EN 1348	N/mm ² 0,88
Measured thermal conductivity	UNI EN 12667:2002	0,0375 W/(m*k)

Thickness 12,7 mm

	Method	Value
Size (cm)		91,5 x 152,4 ± 2
Thickness (mm) 2 kPa	EN ISO 9863-1	12,7 ± 0.5
Compressive strength (kPa)	EN 826:2013	428
Compressive stress at 10 % strain (kPa)	EN 826:2013	419
Tensile modulus of rupture using epoxy adhesive	EN 1348	N/mm ² 0,72

Thickness 15,9 mm

	Method	Value
Size (cm)		91,5 x 152,4 ± 2
Thickness (mm) 2 kPa	EN ISO 9863-1	15,9 ± 0.5
Compressive strength (kPa)	EN 826:2013	394
Compressive stress at 10 % strain (kPa)	EN 826:2013	N. A.
Tensile modulus of rupture using epoxy adhesive	EN 1348	N/mm ² 1,01

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TECHNICAL DATA

Thickness 25,4 mm

	Method	Value
Size (cm)		91,5 x 152,4 ± 2
Thickness (mm) 2 kPa	EN ISO 9863-1	25,4 ± 0.5
Initial adhesion strength	EN 1348	N/mm ² 0,35
Adhesion strength after water immersion	EN 1348	N/mm ² 0,27
Water absorption	EN 12087:2013 / 2A	1,0 %
Compressive strength (kPa)	EN 826:2013	412
Compressive stress at 10 % strain (kPa)	EN 826:2013	N. A.
Tensile modulus of rupture using epoxy adhesive	EN 1348	N/mm ² 0,80
Measured thermal conductivity	UNI EN 12667:2002	0,0363 W/(m*k)

Thickness 38 mm

	Method	Value
Size (cm)		91,5 x 152,4 ± 2
Thickness (mm) 2 kPa	EN ISO 9863-1	38 ± 0.5
Compressive strength (kPa)	EN 826:2013	407
Compressive stress at 10 % strain (kPa)	EN 826:2013	N. A.
Tensile modulus of rupture using epoxy adhesive	EN 1348	N/mm ² 0,86
Measured thermal conductivity	UNI EN 12667:2002	0,0357 W/(m*k)

Thickness 50,8 mm

	Method	Value
Size (cm)		91,5 x 152,4 ± 2
Thickness (mm) 2 kPa	EN ISO 9863-1	50,8 ± 0.5
Initial adhesion strength	EN 1348	N/mm ² 0,41
Adhesion strength after water immersion	EN 1348	N/mm ² 0,25
Water absorption	EN 12087:2013 / 2A	0,8 %
Compressive strength (kPa)	EN 826:2013	429
Compressive stress at 10 % strain (kPa)	EN 826:2013	N. A.
Tensile modulus of rupture using epoxy adhesive	EN 1348	N/mm ² 0,75
Measured thermal conductivity	UNI EN 12667:2002	0,0354 W/(m*k)