

FABRIC

DESCRIPTION

FIBRANxps **FABRIC** is a board of thermal insulation foam rigid extruded polystyrene (XPS). Has a closed-cell structure and is manufactured in accordance with procedures certified according to European Standard EN 13164 – “Thermal insulation products for buildings - Factory made products of extruded polystyrene (XPS)-specification ”. FIBRANxps **FABRIC** boards are presented without skin and with or without a rough and grooved surface, straight edge of profile



PROPERTIES

THERMAL

- Excellent thermal insulation characteristics (low λ_d);
- High resistance to water absorption
- High resistance to diffusion of water vapor;
- No capillarity;

MECHANICAL

- Exceptional compressive strength;
- High dimensional stability;

FIRE RESISTANCE

- Euroclass E;

ENVIRONMENTAL

- Produced with environmentally friendly expanding gases (without CFCs or HCFC'S);
- Useful lifespan estimated 50 years, identical to the building;
- 100% recyclable
- Produced with blowing agent that has zero Ozone Depletion Potential (ODP=0) and low Global Warming Potential (GWP <4);

CHEMICAL RESISTANCE

- Insensitive to attack by acids and bases, but sensitive to materials with volatile components (solvents);
- Compatible with conventional building materials (cement mortars, lime, plaster, etc.);
- Possible incompatibility with PVC-based waterproofing membranes.
- Does not develop any mold or other efflorescences;
- Without nutritional value for rodents, insects, etc.;

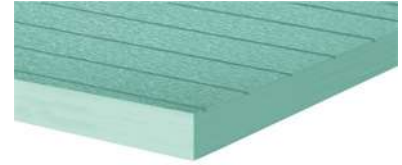
APPLICABILITY

- Easy to transport, cut and apply:

These properties are stable over time.

fibran[®]xps

ENERGY SHIELD.



FIBRANxps **FABRIC** is a very high-quality product perfect for demanding constructive solutions.

FIBRANxps **FABRIC** boards offer a high thermal insulation performance.

APPLICATIONS

FABRIC

- Can be used as core in sandwich panels of different materials such as wood, aluminium among others, in a huge variety of applications as cold rooms, facade boards, interior partitions, panels for walls coated with special mortar and fiberglass on both sides, indoor and outdoor doors, caravans, publicity panels, etc.
- Can be used on thermal slabs or other elements for construction sector.
- This product is produced according client's specification

PROFILE




CERTIFICATIONS

Produced and tested according to European Standard: EN 13164



TECHNICAL DATASHEET (CONT.)

TECHNICAL DATA		Designation Code according to EN 13164: XPS-EN13164-T3-CS(10\Y)* -DS (70,90)		
Properties		Unidades	EN standard	FIBRANxps FABRIC
Edge profile				Straight edge profile
Surface				With or without skin and with or without grooves
Board's Dimensions	Length	mm	EN 822	1000 a 3300
	Thickness			20 - 140
	Width			500 - 1250
Thickness tolerance	Length	mm	EN 823	-0/+10
	Thickness			±0,5
	Width			-0/+5
Declared Compressive strength at 10% deformation		kPa	EN 826	200 d _N = 20mm 300 – 700 > 20mm
Declared thermal conductivity λ _d (after 25 years))	20mm<d <40mm	W/(m.K)	EN 12667	0,033
	40mm<d ≤80mm			0,035
	80mm<d ≤140mm			0,037
Declared value of dimensional stability		%	EN 1604	≤ 5
Reaction to fire (Euroclass)			EN 13501-1	E
Nominal Density		Kg/m ³	EN1602	>32
Water absorption		% volume	EN 12087	≤ 1,5
Resistance to water vapour		μ	EN 12086	≥ 50
Capillarity		Kg/m ²	EN 1609	0,05
Lateral abd surface finishing				

Abbreviations used in the Designation Code according to EN 13164 (European Standard for thermal insulation products in extruded polystyrene): XPS – extruded polystyrene; Ti - Level thickness tolerance stated; CS (10\Y)x - Declared compression resistance (at 10% strain), DS (TH) - Dimensional stability under specified temperature and declared wet conditions.

INSTRUCTIONS FOR USE

FIBRANxps boards must be applied on clean and flat surfaces. Good resistance to bitumen, lime, cement, gypsum, salt water, bleach, acids, inorganic gases and silicon. However contact with materials containing volatile ingredients will initiate the dissolution process. The direct contact with PVC elements (example: waterproofing membranes) is not possible. When in doubt perform a preliminary test or contact the manufacturer.

The maximum temperature for application is 75 °C and the minimum is -50°C, only can be used for heavy loads after 45 days of manufacturing (boards with compressive strength ≥ 500kPa). The shrink film should be removed immediately before application of FIBRANxps. These boards are easily and safely transportable, easy to cut with a saw blade, knife or blade, or with a hot wire device. During the cut of the boards, if in enclosed spaces, we recommend the use of respiratory protective masks and eye protection.

PACKING

The FIBRANxps **FABRIC** packages consist on pallets with shrink film for the full protection of the product. The packages always have a label with the information and specifications content.

STORAGE

FIBRANxps boards can be stored outdoors, on a clean and smooth surface, or in enclosed and ventilated spaces. They are resistant to rain and snow, but not to ultraviolet radiation. The shrink film is UV resistant for up to 6 months.

They should be stored away from flammable materials, fire or other ignition sources. Avoid contact with solvents such as gasoline, coal tar and formic acid, or with gases such as methane, ethane, propane and butane. The appearance or structure may be damaged when in contact with mineral and vegetable oils, paraffin, phenol, and fats.