

300 L LOW LAMBDA

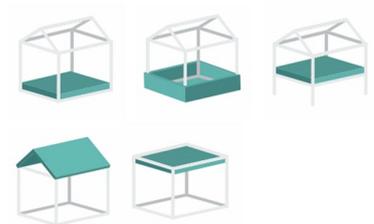


ENERGY SHIELD.



FIBRANxps **300 L Low Lambda** is a very high-quality product with crucial features for building and construction solutions, it achieves the demands.

APPLICATIONS



300 L LOW LAMBDA

- Inverted warm flat roof and warm flat roofs
- Roof terraces and green roofs
- Floors between storeys and basement floors
- Floor heating and cold rooms
- Perimeter basement walls (even when water is present)
- Pavements of industrial sheds with moderate loads

PROFILE



CERTIFICATIONS

Produced and tested according to European Standard: EN 13164



DESCRIPTION

FIBRANxps **300 L Low Lambda** is a high-performance rigid insulation board of extruded polystyrene foam (XPS). It has a closed-cell structure and it is manufactured in agreement with procedures certified according to European Standard EN 13164 – “Thermal insulation products for buildings - Factory made products of extruded polystyrene foam (XPS)-specification”. FIBRANxps **300 L Low Lambda** boards presents with a smooth surface on both sides and “L” profile shape of edge.



PROPERTIES

THERMAL

- Excellent thermal insulation characteristics, low coefficient of thermal conductivity
- High resistance to water absorption and diffusion of water vapor;
- Capillarity null;
- Inertia climatic variations;

MECHANICAL

- High mechanical strength, especially compressive;
- High dimensional stability;

FIRE RESISTANCE

- Euro class E;

ENVIRONMENTAL

- It contains no CFC, HCFC's and HFC's (according to the highest environmental requirements);
- Shelf life identical to the building (estimated 50 years);
- 100% recyclable
- Manufactured with a blowing agent that has zero Ozone Depletion Potential (ODP=0) and low Global Warming Potential (GWP=6);

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.);
- Do not develop any mold or other efflorescences;
- No nutritional value for rodents, insects, etc.;

APPLICABILITY

- Easy to transport, cut and apply: these properties are stable over time.

TECHNICAL DATA

Designation Code according to EN 13164: XPS-EN13164-T1-CS(10\Y) 300-DS (70,90)

Properties		Measurement Units	EN standard	FIBRANxps 300 L Low Lambda
Shape of edge profile				L profile shape of edge
Surface				Smooth surface
Board's Dimensions	Length	mm	EN 822	1250 mm
	Thickness			30-120
	Width			600
Thickness Tolerance		mm	EN 823	T1
				+2/-2(<50mm)
				+3/-2(≥50mm)
Declared Compressive* strenght at 10% deformation		kPa	EN 826	300
Declared termal Conductivity – λ _d (after 25 years)	20mm<d<80mm	W/(m·K)	EN 12667	0,029
Dimensional stability		%	EN 1604	≤ 2
Reaction to fire			EN 13501-1	E
Nominal density		Kg/m ³	EN 1602	>32
Water absorption		% volume	EN 12087	≤1,5
Resistance to water vapor		MU	EN 12086	≥50
Capillarity		Kg/m ²	EN 1609	0,05
Lateral and Surface Finishing				

*Unskinned product with or without grooves

Abbreviations used in the Designation Code according to EN 13164 (European Standard for thermal insulation products in extruded polystyrene): XPS – extruded polystyrene; T1 - 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 300 L Low Lambda boards must be applied on flat surfaces, regulated and clean. Good resistance to bitumen, lime, cement, gypsum, salt water, bleach, deodorants, acids, inorganic gases, alcohol and silicon. Contact with materials containing volatile ingredients come into the dissolution process. The direct contact with PVC elements (example: waterproofing membranes) is not allowed. If in doubt, it is recommended a preliminary test or contacts the manufacturer.

The maximum working temperature for application is 75 °C and the minimum is -50°C. The shrink film should only be removed immediately before application of FIBRANxps. These boards are easily transportable and security, and easy to cut with saw blade, knife or blade, or with a hot wire device. During the cutting boards, and in enclosed spaces, we recommend the use of respiratory protective masks and eyes protection.

PRESENTATION

Packaged in shrink film in packages with maximum height of 45 cm and content identification.

Board thickness (mm)	Nº of boards in one package (units)	Quantity in one package (m ²)
30	14	10,50
40	10	7,50
50	8	6,00
60	7	5,25
80	5	3,75
100	4	3,00
120	3	2,25
140*	3	2,25
160*	2	1,50

STORAGE

FIBRANxps boards can be stored outdoors, on a clean and smooth surface, or in enclosed and ventilated space. They are insensitive to water from 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. Come into 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.

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