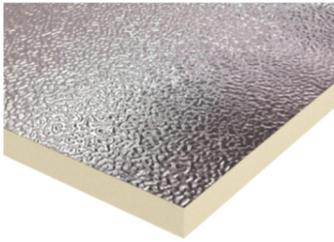


PIR boards PirroVentiDuct

DESCRIPTION:



PirroVentiDuct is an insulation board made of rigid polyisocyanurate (PIR) foam, faced on both sides with embossed pure aluminum foil of 50 μ . It can be used as is a structural composite material for the air ducts and shaped products with high thermal insulation.

PIR has the lowest thermal conductivity compared to traditional insulation for ducts, which significantly reduce the required insulation thickness.

The high mechanical strength of the material is ensured by the closed-cell structure and increased core density.

The low density of material combined with high compressive strength reduces the load on the ceiling.

Due to its special chemical structure and component composition, the material is characterized by stable properties, is resistant to chemical effects and is resistant to elevated temperatures.

PIR does not melt and does not form burning melt droplets. When exposed to an open flame, the material is charred, while its structure becomes porous.

The PirroVentiDuct plate is produced with a thickness of 20 mm, sufficient to provide a level of rigidity comparable to steel ducts and a level of thermal protection comparable to traditional solutions.

The lining of the PirroVentiDuct plates is corrosion-resistant, completely vapor-proof and ensures the consistency of hygienic characteristics throughout the entire service life.

The plates are supplied in the following delivery forms: Standart, Line and Practical:

- Standart - PirroVentiDuct plate is supplied without cutting. The cutting of parts for the manufacture of air ducts, shaped products and air distributors is carried out at the facility using cutting knives.
- Line - the PirroVentiDuct plate is supplied with the opening of parts in the form of strips ready for the assembly of straight sections.
- Practical - the PirroVentiDuct plate is supplied with the opening of the parts necessary for the assembly of shaped products and air distributors. The cutting is carried out according to the customer's specification.

APPLICATION:

The PirroVentiDuct plate is designed for the manufacture of air ducts, fittings and air distributors used in low-pressure ventilation, air heating and air conditioning (HVAC) systems.

These ventilation systems are intended for use:

- in the premises of public buildings and structures,
- in residential private houses (including for intra-apartment wiring),
- in industrial buildings,
- in rooms with increased requirements for the cleanliness of the internal environment.

They are recommended for use in industrial buildings and premises with a relative humidity level of more than 75%, as well as in the reconstruction of buildings and structures with requirements to reduce the load on the supporting structures of the building.

TECHNICAL FEATURES:

Characteristic	Description	Units	Value
Facings	Pure aluminum foil	μ	50
Edge profiling	Delivery Form Standart	-	Without profiling
	Delivery Form Line	-	Profiling of long sides, cut 45°
	Delivery Form Practic	-	Project profiling
Width x length	Delivery Form Standart	1200x3000	(EN 822)
	Delivery Form Line	B*x3000	(EN 822)
	Delivery Form Practic	Project	(EN 822)
Thickness	(EN 822)	mm	20
Thickness tolerance	(EN 823)	-	T2

Characteristic	Description	Units	Value
Density	PIR foam	kg/m ³	35 ± 5
Dimensional stability under specified temperature and humidity conditions	(EN 1604)	-	DS(-20,0) 2 DS(70,90) 3
Deformation under specified compressive load and temperature conditions	(EN 1605)	-	DLT(2) 5
Short term water absorption by partial immersion	WS (EN 1609)	-	WS 0,1
Long term water absorption	(EN 12087)	-	WL(T) 1
Flatness after one-sided wetting	FW (EN 825)	mm	≤ 5
Thermal conductivity	λD (EN 12667)	W/m·K	0,023
Heat transfer	λd/dn	W/m ² ·K	1,15
Water vapour resistance	Z (EN 12086)	m ² ·h·Pa/mg	Z10-20
Compressive strength at 10% deformation	(EN 826)	kPa (kg/cm ²)	≥ 150 (1,5)
Flammability group	GOST 30244	-	G1 low - burning
Upper temperature	in accordance with the regulations	°C	+ 80

PACKAGE:

Boards are packed in bundles of up to 220 mm in height and covered with shrink film. The bundles are formed in pallets up to 2200 mm height. At the bottom of each pallet there are the support for the forklift. Each bundle and pallet is provided with the label.

TRANSPORTATION:

In covered vehicles in a horizontal position. Pack sizes are optimal for standard internal dimensions of road transport. Loading and transportation should comply with current shipping rules for the corresponding kinds of transport.

STORAGE:

Boards are stored on horizontal surface, closed from rain and direct sun exposure. It is necessary to ensure fire safety requirements. Boards should be stored in their original packaging. When bundles are stored without the support bars, it is recommended to check the absence of sharp edges on the support surface.