

XPS FOAM

INSUTECH's XPS is a rigid board manufactured through a continuous extrusion process of polystyrene. The XPS board is available in a wide selection of thicknesses and comes in our standard blue color, either with a flat edge profile or lipped overlap edge profile.

KEY FEATURES

- Reduces electric power consumption
- Reduces CO² emissions due to superior insulating performance
- Reduces loads imposed on adjacent and underlying soils and structures
- Low thermal conductivity
- High resistance to water penetration
- Prevents the intensification of moisture in the walls
- High compressive strength
- Light weight and easily bonded.

APPLICATION

- Roof Insulation
- Wall Insulation
- Perimeter Floor Insulation
- Pipe Insulation
- Soundproofing
- Thermal Insulation for Refrigeration Cabinets

INSTALLATION

Please refer to the INSUTECH Applicator Guide for complete instructions on the application of the product.

DELIVERY

Colour (Blue)	Thickness (cm)	Side Shape
121.5 (±0.5) x 61(+0.3/-0.0)	3	
	4	
	5	
	6	
121.5 (±0.5) x 61(+0.3/-0.0)	3	
	4	
	5	



PROPERTIES	CODE	TEST METHOD	DESCRIPTION		UNIT	VALUE	
Density					kg/m ³	32:36	
Thermal conductivity	λD	EN 12667	value measured at a mean temperature of 10 °C	mm 20	W/m K	0.031	
				mm 30, 40		0.034	
				From mm 50 to 100		0.036	
Thermal resistance	RD	EN 12667	related to thickness RD=d/ λD	mm 20	(m ² K)/W	0.065	
				mm 30		0.88	
				mm 40		1.18	
				mm 50		1.39	
				mm 60		1.37	
				mm 80		2.22	
				mm 100		2.78	
Compressive Stress	CS(10/Y)	EN 826	compression to 10% of thickness	mm 20	KPa	150	
				mm 30		200	
				From mm 40 to 100		300	
Dimensional stability	DS(TH)	EN 1604	test conditions (Storage for 48 h at 70 °C - 90% Relative Humidity)		%	Linear variation	< 5
						Variation in thickness	< 5
Fire rating	Euro class	UNI EN 13501-1				E	
Specific heat		EN 12524			J/(KgK)	1200	
Resistance to water vapour diffusion	MU	EN 12086	Depending on surface		μ	100 MU(100)	
Water absorption by Immersion	WL(T)	EN 12087	total immersion for 28 days		% volume	≤ 0.7 WL(T) 0.7	
Water absorption by Diffusion	WD(V)3	EN 12088	After 28 days , with moisture gradient 0%-100% between board sides and test temperature 50°C	D _n =50mm D _n =100mm	% volume	≤ 3	
						≤ 1.5	
Using Temperature					°C	75	

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