

XPS

WHAT IS XPS INSULATION BOARD?

XPS Insulation Board is a high compressive strength product. XPS insulation is widely used for building envelop insulation & protection from heat ingress. This insulation contains millions of densely packed air cells; the closed – cell structure with continuous skin formed on both side surfaces provides excellent resistance to water, mildew, corrosion and rot. It is also Fire Retardant (FR) as per ASTM Standards.

WHERE IS XPS INSULATION BOARD USED?

XPS Insulation Board is a material of choice for insulating roof, wall, floor for various building types including residential, offices, hospitals, institutions, hotels, malls, cold storage buildings, etc.

The performance of this insulation for INFILL applications is exceptional. Typical applications include, concrete floors, foundations, roadways, rail beds, permafrost protection and other high load – bearing applications.

TYPICAL PHYSICAL PROPERTIES

Property	Value	Test Method
Thermal Conductivity (k) ¹	0.028 W/mk	ASTM C 518
Thermal Resistance (R) min 1,2,3	1.73 m ² k/W	ASTM C 518
Compressive Strength (min) ³	250 kPa	ASTM D 1621
Water Absorption (% by volume)	< 1%	ASTM D 2842
Cell Size	0.4 mm Avg.	ASTM D 3576
Oxygen Index 3	24.1 – 28.1%	ASTM D 2863
Flame Spread & Smoke Developed	5 & 30	ASTM E 84

1. Properties shown are representative values for 50 mm thick material tested at 24 (+/-) 1° C
2. 'R' Means the resistance to heat flow; the higher the value the greater the insulation. This insulation must be installed properly to obtain the desired 'R' value. Follow manufacturer's instructions carefully.
3. Meets requirements of ASTM C 578 – Type IV



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