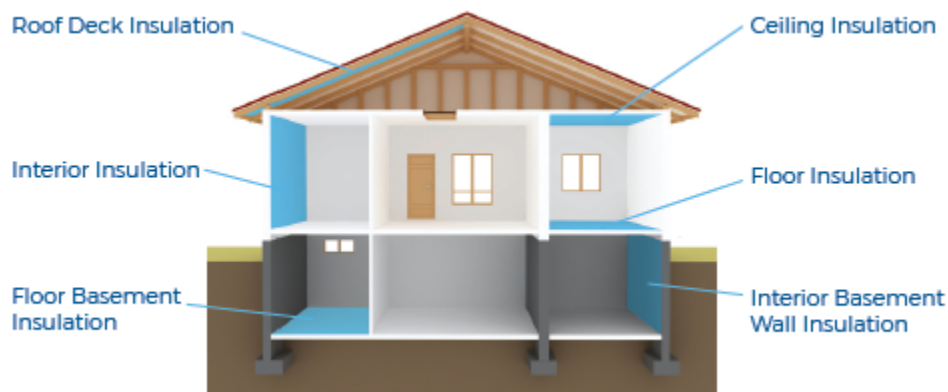


High Density Extruded Polystyrene Insulation Board

Genial XPS extruded polystyrene boards, resilient and robust construction material boasting high compressive strength, excellent resistance to water absorption and superior thermal insulation value. The ideal product for use across a range of construction and building applications - both residential and commercial.

It has a 100% closed cell structure are manufactured in accordance with international standards specifications. Genial XPS is the number one choice for home builders, specifiers, architects and engineers.



Genial XPS Usage

- Underfloor Heating and Cooling systems
- Perimeter insulation
- Floors insulation
- Inverted Roofs insulation
- Wall insulations
- Interior and exterior wall insulation
- Industrial - residential - commercial Floor insulation
- Agricultural farms, fish farms, wineries etc...
- Sandwich panels insulation
- Insulation under roads / railways / airport runways and suspended concrete slabs
- Cold storage floor and wall insulation.
- Refrigerated trucks for roads and rails

Features and Benefits of **Genial Extruded Polystyrene insulation boards:**

- Lightweight and easy to handle
- Enhances thermal efficiency, reducing energy cost
- Closed-cell extruded polystyrene foam
- Low moisture absorption
- High thermal resistance
- High compressive strength
- Durable and sturdy for long lasting applications
- High compressive strength
- Long term retained R-values
- Lebanese made and manufactured
- Environmentally friendly
- Saves Energy and Money
- Meets requirements of International standards (ASTM C 578 & DIN 4102)



Chemical Resistance to Genial Styrofoam insulation	
Acid inorganic(week or strong)	Excellent
Acid organic strong	Good
Bases	Excellent
Alcohols, including isopropyl alcohol	Excellent
Methyl ethyl ketone	Not recommended
Polyglycols, including propylene glycol	Excellent
Hydrocarbons	Not recommended
Salts	Excellent
Insecticides	Not recommended
Mineral oil USP	Excellent
Turpentine	Not recommended
Kerosene	Poor
Gasoline	Not recommended
Fruit juices	Good

Property	Standard	units	Average Value
Density	ASTM D 1622	Kg/m ³	32.79
Thermal conductivity laboratory value at 70°C (158° F)	DIN 52612 DIN 52616	W/m.k BTU in/h.ft ² .°F	0.03056 0.212
Compressive strength Perpendicular to board Surface	ASTM D2842-10	Kpa ≥ 104	261
Compressive Strength @10% deformation	ASTM D1621-25	Psi	46.5
Water absorption Method b	ASTM C272-01	% by Vol. ≥ 0.3	0.07
Initial Thermal Resistance Thickness (30mm)	ASTM C518-10	k. m ² /w	0.85
Thickness (50mm)	ASTM C578-16		1.40
Water Vapour Permeance	ASTM E96-10	Ng/Pa.s.m ² ≤ 86	44.8
Dimensional Stability 70°C, 97% RH, 7days	ASTM C303-07	% change	
Length		≤2.0	0.14
Width		≤2.0	0.28
Thickness		≤2.0	0.32
Volume		-	0.10
Dimensional Stability -40°C, Ambient RH, 7days	ASTM C303-07	% change	
Length			
Width		≤2.0	0.09
Thickness		≤2.0	0.04
Volume		≤2.0	0.23
		-	0.40
Flexural Strength, Maximum flexural stress (MD/XD)	ASTM D2126-01	≥276	1004/496

Property	Standard	units	Average value		
Fire Classification	---	Building Material Class	B2		
Length	1250 mm 2500 mm	Width	600mm	Thickness	20mm up to 100mm
Edge profile	Straight edge (SE) Shiplap edge (SL)	Surface Pattern	Plain Glossy (P) Embossed (E) Grooved (G)	Standard	ASTM E84-17 ASTM C 578-16 DIN 4102

NB: Class B1 available upon request