



Styrofoam LB

Details

The exceptional robustness of Dow Styrofoam™ LB™ extruded polystyrene (XPS) rigid insulation and long-term thermal performance helps to ensure energy efficiency in a wide range of residential and commercial construction applications.

With long term proven performance and creep data, Styrofoam™ LB™ XPS insulation is an ideal engineered product that designers may confidently specify in today's increasingly highly insulated designs. For sandwich panel cores, the lightweight, close tolerance, dust-free surface of Styrofoam™ LB™ XPS allows for excellent bonding to a wide variety of sheet materials.

Dow Styrofoam™ LB™ XPS rigid thermal insulation has been specifically designed to withstand severe dynamic loads and stresses which may eventually lead to fatigue and failure. It is specially designed to resist such force and in tests has been shown to perform extremely well under dynamic load cycling.

Styrofoam™ LB™ XPS insulation is manufactured through a continuous extrusion process, and as with all Dow Styrofoam™ products possess a rigid closed cell structure with unique properties such as low thermal conductivity, high resistance to water penetration and high compressive strength.

Styrofoam™ LB™ XPS insulation is produced in a range of thicknesses and is smooth on both facers. By placing the insulation outside the building mass it protects both membrane and slab from thermal cycling and loading.

The Dow Styrofoam™ LB™ XPS rigid insulation range will help curb escalating energy bills, reduce a building's carbon footprint and provide a more comfortable indoor environment.

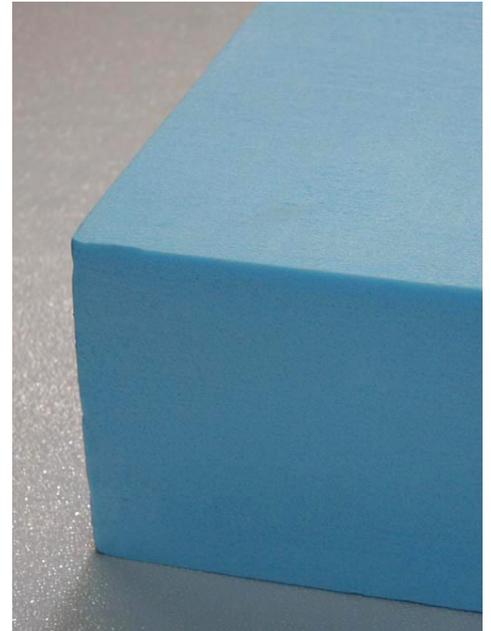
Applications

- Cold store floors
- Cold roof
- Cold bridge insulation
- External render and/or cladding
- Plasterboard laminate
- Refrigerated truck panels
- Composite building panels

Features

- High compressive strength-to-weight ratio
- Low susceptibility to rot, mould or fungal growth
- Clean, odourless and free from irritating dust

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Technical data

Product Name:	Dow Styrofoam™ LB™ Extruded polystyrene XPS rigid thermal insulation
Product Description:	Dow Styrofoam™ LB™ extruded polystyrene (XPS) rigid thermal insulation board for cold store floors, cold roof, cold bridge insulation, external redner and/or cladding, Plasterboard laminate, refrigerated truck panels and composite building panels
Surface finish:	Planed
Product code:	LB
Colour:	Blue
Edge treatment:	Butt edge
Thickness x Width x Length:	75 x 600 x 2500mm 100 x 600 x 2500mm
Density:	30 kg/m ³
Compressive strength :	300 kPa @ 10% deflection
Compressive Modulus:	12-20,000 kN/m ²
Tensile Strength:	500 kN/m ²
Tensile Modulus:	12-20,000 kN/m ²
Shear Strength:	250 kN/m ²
Shear Modulus:	8,000 kN/m ²
Capillarity:	Nil
Water absorption by immersion:	0.5% - vol. (28 days, full board)
Temperature Limited:	-50/+75°C

Thickness to R-Value Dow Styrofoam™ LB™ XPS @ 24°C		
Thickness Metres	Lambda/K Value/Thermal Conductivity	R Value
0.025	0.0278	0.90
0.030	0.0278	1.08
0.040	0.0278	1.44
0.050	0.0278	1.80
0.060	0.0278	2.16
0.075	0.0278	2.70
0.080	0.0278	2.88
0.090	0.0278	3.24
0.100	0.0278	3.60
0.120	0.0278	4.32
0.150	0.0278	5.40
0.200	0.0278	7.19

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