



July 2013

## Knauf Insulation XPS Foam Board

For edge beams, green roofs, slabs and cool rooms

### Description

Knauf Insulation XPS Foam Board is a rigid extruded polystyrene (XPS) board with Zero Ozone Depletion Potential (ODP). The boards are lightweight with a high compressive strength and are available in ship lapped edge or straight edge.

### Application

Knauf Insulation XPS Foam Board is used for the thermal insulation of

#### Flat Roofs:

- in an inverted roof below ballast or paving slabs
- in a green/garden roof
- in a flat roof with a single ply membrane

#### Under Slabs:

- around trenches
- in between pods

#### Cool Rooms:

- Refrigeration
- Trucks

#### Edge Beams

#### Green Roofs

### Thermal

The thermal conductivity of Knauf Insulation XPS Foam Board is 0.028W/mK

### Performance

- Excellent thermal performance
- High compressive strength
- Highly resistant to water absorption
- Lightweight and easy to install
- Tough and durable, not easily damaged
- Dimensionally stable

## Knauf Insulation XPS Foam Board

### Standards

Knauf Insulation XPS Foam Board is manufactured in accordance with BS EN 13164, EN 16001 Energy Management Systems, OHSAS 18001 Occupational Health and Safety Management Systems, ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management Systems, as certified by Bureau Veritas.

### Durability

The continuous service temperature limit of Knauf Insulation XPS Foam Board is up to +70° C.

### Environmental

Knauf Insulation XPS Foam Board has zero Ozone Depletion Potential (ODP) and is 100% recyclable.

### Compressive strength

Knauf Insulation XPS Foam Board is highly resistant to compression and withstands both occasional and long term static loads. The high compressive strength and rigidity of the boards allows a range of ballast materials including gravel, soil and concrete slabs to be used as part of the construction. Load bearing construction elements should be designed to adequately support the combination of imposed and dead loads without creating excessive deflection.

### Vapour resistivity

The water vapour resistivity of Knauf Insulation XPS Foam Board is 625MN<sub>s</sub>/g.m when tested in accordance with ASTM E96-2010.

### Moisture absorption

Knauf Insulation XPS Foam Board has a moisture absorption 0.6% by volume when tested in accordance with ASTM C 272 and can be laid in standing water or up against wet concrete with negligible impact on the performance of the product.

### Handling and storage

Knauf Insulation XPS Foam Board is easy to handle and install. Ensure the board product is not stored close to open flames or other ignition sources and avoid volatile organic compounds and chemicals such as solvents. Knauf Insulation XPS Foam Board should not be left exposed to prolonged sunlight as this will result in surface degradation. When outside storage for extended periods is required cover the products with opaque/light coloured sheeting.

Thickness (mm)	Thermal conductivity (W/mK)	R-Value (m <sup>2</sup> K/W)	Length (mm)	Width (mm)	Lap Joint (mm)	Compressive strength (kPa)
<b>Knauf Insulation XPS Foam Board</b>						
50	0.028	1.8	2200	1200	25	300
30	0.028	1.1	2200	1200	15	300

### Knauf Insulation Pty Ltd

Unit 2, 44 Borthwick Avenue  
Murarrie QLD 4172

### Customer Service (Sales)

Tel: +61 7 3393 7300  
Fax: +61 7 3902 0613  
Email: orders.au@knaufinsulation.com

### Technical Advisory Centre

Email: tech.au@knaufinsulation.com

**knaufinsulation.com.au**

Distributor



285 Holt Prade  
Thomastown Vic 3074  
Tel: +61 3 94640177