



## IsoBoard (XPSBoard<sup>®</sup>)

**Description:** A rigid board bulk thermal insulator, available in various thicknesses and lengths to meet most insulation requirements

**Edge Profile:** Tongue and groove side profile  
 Straight Edge  
 Shiplap

### Uses

- Nail up ceiling application – steel
- IsoBoard – trap door specification
- Over purlin application
- Cavity Wall application
- Nail up ceiling application – wooden trusses
- In between rafters
- Inverted roof application
- Under floor application

Thickness	R-Value
25	0.893
30	1.071
40	1.429
50	1.786
80	2.857

### Specifications and Properties:

(as tested by SABS, CSIR & confirmed in Agrément certificates)

- |  |                             |
|--|-----------------------------|
| • Density  | 32 - 36 kg/m <sup>3</sup>   |
| • Compressive Strength                             | 220 - 310 kpa               |
| • Water vapor permeability                         | 0.78 ng/Pa.s.m              |
| • Co-Efficient of Linear Expansion and Contraction | 0.067mm per °C              |
| • Thermal Conductivity @ 90 days                   | 0.024 W/m°C                 |
| • Water Absorption                                 | 0.26% by volume             |
| • Combustibility and flame spread                  | SANS 428, B1,B2 H&V         |
| • Toxicity   | 2.34 (less toxic than wood) |

**Length:** 1.8m; 2.4m – 7.2m in 600mm increments, and 8m

**Width:** 600mm

**IsoBoard Over Purlin Spans:** (for dark coloured roofs and residential use reduce span by 200mm)

- 25mm IsoBoard: 1100 mm without support
- 30mm IsoBoard: 1400 mm without support
- 40mm IsoBoard: 1600 mm without support

**IsoBoard Finishes:**

- Bevelled @ 100mm centers (Isopine/T&G effect)
- Bevelled @ 600mm centers
- Plain

- **IsoBoard Over Rafter Spans:**
- **IsoBoard Nail Up Ceiling Spans:**
- **IsoBoard Exposed Rafter Spans:**

750mm  
 600mm  
 Batten alongside truss, & one in middle. If greater than 1200mm apart, apply Nail Up recommendation

### IsoBoard Lighting recommendations:

- Fix any light fittings to branding or trusses, as the IsoBoard cannot handle the weight of the light.
- If the light will generate over 80°C, we advise that a spacer block be placed between the light fitting and the IsoBoard
- For downlighters use fittings that have a rotating globe, this will prevent heat from transferring from the globe to the frame.
- The downlighter globes that can be used are the MR16 and GU10 types.