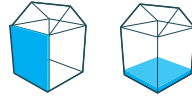


## CLIMAFOAM® XPS BOARD

June 2020



### APPLICATIONS



### DESCRIPTION

ClimaFoam® XPS board is ideal for the insulation of concrete slabs and concrete retaining walls. The product has a high compressive strength and the closed cell structure makes it resistant to water. ClimaFoam® XPS board has a low thermal conductivity which produces high R-Values relative to its thickness. ClimaFoam® XPS board is durable and equipped for 'site survival'.

ClimaFoam® XPS Board can be used for the thermal insulation of:

#### Underground Concrete Slabs:

- underslabs
- around trenches
- edge beams

#### Retaining Walls:

- behind retaining walls where the product is contained in earth

## PERFORMANCE

### Thermal

Thermal conductivity:

The thermal conductivity of ClimaFoam® XPS Board is 0.028W/mK.

## BENEFITS

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

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### ADDITIONAL INFORMATION

#### Specification Compliance

AS/NZS 4859.1: 2002 Materials used in the Thermal Insulation of Buildings and comply with the New Zealand Building Code requirements.

#### Specification Guide

The edge beam / concrete slab / retaining wall insulation shall be ClimaFoam® XPS board R\*\*, \*\*mm thick and 250kPa compressive strength.

\*architect to nominate relevant application.

\*\*architect to insert details of products used.

#### Compressive strength

ClimaFoam® XPS 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 ClimaFoam® XPS board is estimated to be 625MN/g.m.

#### Moisture absorption

ClimaFoam® XPS board has an estimated moisture absorption 0.6% by volume and can be laid in standing water or up against wet concrete with negligible impact on the performance of the product.

#### Handling and storage

ClimaFoam® XPS 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. ClimaFoam® XPS board should not be left exposed to prolonged sunlight as this will result in surface degradation.

#### Fire performance

ClimaFoam® XPS board is considered a combustible material. The product has not been tested to AS1530.3 and is only recommended for applications highlighted in this datasheet. For use outside these applications it is the responsibility of the designer and user to validate the product's suitability.

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### SPECIFICATIONS

0.028	R-Value (m <sup>2</sup> K/W)	Thermal conductivity (W/mK)	Thickness (mm)	Width (mm)	Length (mm)	Joint type	Compressive strength (kPa)
434707	1.1	0.028	30	1200	2200	Shi lap	250
455554	1.4	0.028	40	1200	2200	Shi lap	250
434706	1.8	0.028	50	1200	2200	Shi lap	250
463076	2.7	0.028	75	1200	2200	Shi lap	250

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