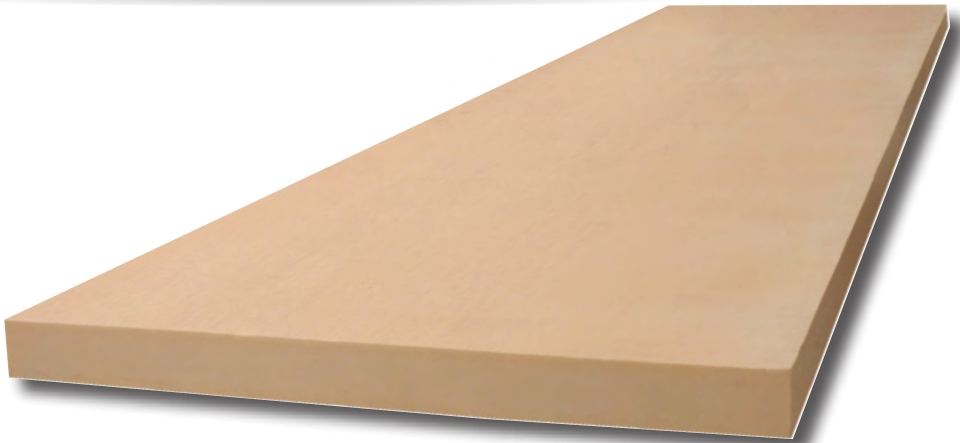


IMPROVED THERMAL CONDUCTIVITY



August 2015

ClimaFoam® XPS Board

For edge beams, green roofs, slabs
and cool rooms

Description

ClimaFoam XPS Board is a rigid extruded polystyrene (XPS) board. ClimaFoam XPS Board is lightweight with a high compressive strength and are available in ship lap or tongue and groove edges.

Application

ClimaFoam XPS Board can be 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

Concrete Slabs:

- around trenches
- in between pods
- edge beams

Cool Rooms:

- refrigeration
- trucks

Thermal

The thermal conductivity of ClimaFoam XPS 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

ClimaFoam® XPS Board

Specification Compliance

AS/NZS 4859.1: 2002 Materials used in the Thermal Insulation of Buildings and comply with the Building Code of Australia (BCA) requirements.

Standards

ClimaFoam XPS 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 ClimaFoam XPS Board is up to +70°C.

ClimaFoam is designed, used and installed and maintained in accordance with Knauf Insulation's instructions. It will meet or contribute to satisfying the NZBC Clause B2 Durability.

Performance B2.3.1:

- not less than 50 years, B2.3.1
- not less than 15 years and B2.3.1
- not less than 5 years.

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 625MNs/g.m when tested in accordance with ASTM E96-2010.

Moisture absorption

ClimaFoam XPS 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

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.

Specification Guide

The edge beam / green roof / concrete slab / cool room* insulation shall be ClimaFoam® XPS Board R**, **mm thick and 300kPa compressive strength. The product will be 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, by Knauf Insulation and shall be installed in accordance with the instructions issued by them.

*architect to nominate relevant application.

** architect to insert details of products used.

For more information call 1800 562 834

or visit us online at knaufinsulation.com.au

ClimaFoam® XPS Board

Thickness (mm)	Thermal conductivity (W/mK)	R-Value (m ² K/W)	Length (mm)	Width (mm)	Joint Type	Compressive strength (kPa)
ClimaFoam XPS Board - 1200mm wide						
30	0.028	1.1	2200	1200	Shiplap	300
40	0.028	1.4	2200	1200	Shiplap	300
50	0.028	1.8	2200	1200	Shiplap	300
75	0.028	2.7	2200	1200	Shiplap	300
100	0.028	3.5	2200	1200	Shiplap	300
30	0.028	1.1	2200	1200	T&G	300
40	0.028	1.4	2200	1200	T&G	300
50	0.028	1.8	2200	1200	T&G	300
75	0.028	2.7	2200	1200	T&G	300
100	0.028	3.5	2200	1200	T&G	300

Thickness (mm)	Thermal conductivity (W/mK)	R-Value (m ² K/W)	Length (mm)	Width (mm)	Joint Type	Compressive strength (kPa)
ClimaFoam XPS Board - 1200mm wide						
30	0.028	1.1	2200	1200	Shiplap	250
40	0.028	1.4	2200	1200	Shiplap	250
50	0.028	1.8	2200	1200	Shiplap	250
75	0.028	2.7	2200	1200	Shiplap	250
100	0.028	3.5	2200	1200	Shiplap	250
30	0.028	1.1	2200	1200	T&G	250
40	0.028	1.4	2200	1200	T&G	250
50	0.028	1.8	2200	1200	T&G	250
75	0.028	2.7	2200	1200	T&G	250
100	0.028	3.5	2200	1200	T&G	250

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Thickness (mm)	Thermal conductivity (W/mK)	R-Value (m ² K/W)	Length (mm)	Width (mm)	Joint Type	Compressive strength (kPa)
ClimaFoam XPS Board - 600mm wide						
30	0.028	1.1	2200	600	Shiplap	300
40	0.028	1.4	2200	600	Shiplap	300
50	0.028	1.8	2200	600	Shiplap	300
75	0.028	2.7	2200	600	Shiplap	300
100	0.028	3.5	2200	600	Shiplap	300
30	0.028	1.1	2200	600	T&G	300
40	0.028	1.4	2200	600	T&G	300
50	0.028	1.8	2200	600	T&G	300
75	0.028	2.7	2200	600	T&G	300
100	0.028	3.5	2200	600	T&G	300

Thickness (mm)	Thermal conductivity (W/mK)	R-Value (m ² K/W)	Length (mm)	Width (mm)	Joint Type	Compressive strength (kPa)
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30	0.028	1.1	2200	600	Shiplap	250
40	0.028	1.4	2200	600	Shiplap	250
50	0.028	1.8	2200	600	Shiplap	250
75	0.028	2.7	2200	600	Shiplap	250
100	0.028	3.5	2200	600	Shiplap	250
30	0.028	1.1	2200	600	T&G	250
40	0.028	1.4	2200	600	T&G	250
50	0.028	1.8	2200	600	T&G	250
75	0.028	2.7	2200	600	T&G	250
100	0.028	3.5	2200	600	T&G	250

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