KNAUF INSULATION
it's time to save energy

IMPROVED THERMAL CONDUCTIVITY

February 2018

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 straight or shiplap 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 product has an estimated thermal conductivity of ClimaFoam® XPS Board is 0.030W/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

Caution - ClimaFoam® XPS Board is a flammable product and should not be used where the product could be exposed to flames.

ClimaFoam® XPS Board

Compliance
Will contribute to the thermal insulation of buildings and the compliance with the Building Code of Australia (BCA) requirements.

Durability
The continuous service temperature limit of ClimaFoam® XPS Board is up to +70°C.

Compressive strength
ClimaFoam® XPS Board has an estimated compressive strength of 250 kPa and will withstand 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
ClimaFoam® XPS Board has an estimated 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 an estimated 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.

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^2K/W)	Width (mm)	Length (mm)	Joint Type	Compressive strength** (kPa)
ClimaFoam® XPS Board - 600mm wide						
30	0.030	1.0	600	1200	Straight	250
40	0.030	1.3	600	1200	Straight	250
50	0.030	1.7	600	2200	Shiplap	250
70	0.030	2.5	600	2200	Shiplap	250

Thickness (mm)	Thermal conductivity* (W/mK)	R-Value (m^2K/W)	Width (mm)	Length (mm)	Joint Type	Compressive strength** (kPa)
ClimaFoam® XPS Board - 1200mm wide						
30	0.030	1.0	1200	2200	Shiplap	250
40	0.030	1.3	1200	2200	Shiplap	250
50	0.030	1.7	1200	2200	Shiplap	250
75	0.030	2.5	1200	2200	Shiplap	250

*The thermal values have been calculated on a thermal conductivity of 0.030

**ClimaFoam® XPS Board has an estimated compressive strength of 250 kPa. for critical applications the product should be independently tested.

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