



Not to scale. For illustrative purposes only.

About Styroboard® XPS

Styroboard® XPS has become the number one choice for home builders, specifiers, architects and engineers due to its high compressive strength and superior thermal performance.

Styroboard® XPS extruded polystyrene sheets are strong and durable, making it an ideal product for use across a range of construction and building applications – both residential and commercial. The high-density cell structure of Styroboard® XPS also makes it practically impervious to water. When insulation comes into contact with water it loses its thermal abilities, but even when facing extreme weather conditions, Styroboard® XPS preserves its thermal and physical properties; making it the preferable choice for building materials.

Thanks to a revolutionary new manufacturing process, Styroboard® XPS is also environmentally friendly. Produced with no refrigerants and HCFC free, Styroboard® XPS is truly a green building product. With Styroboard® XPS you can limit external temperature influences, reduce internal

temperature fluctuations, and in turn, reduce the need for mass air conditioning and electricity consumption. Maintaining thermal consistency means less energy is consumed, which leads to fewer greenhouse emissions.

Styroboard® XPS meets a number of key requirements in structural and civil engineering. Styroboard® XPS is dimensionally stable, rot-proof and moisture resistant. With superior compressive strength and higher, long-term R-values when compared to traditional expanded polystyrene, Styroboard® XPS is suitable for use on floors subject to heavy loads and constant foot traffic, as well as insulation for inverted roofs, rooftop gardens, parking decks and as commercial purlin roof spacers.

Styroboard® XPS is a highly versatile construction material boasting excellent compressive strength. Strong, resilient and robust with superior thermal performance, Styroboard® XPS is ideal for all your building needs.

Features & Benefits

- Durable and sturdy for long lasting applications
- Lightweight and easy to handle
- High compressive strength
- Low moisture absorption
- Long term retained R-Values
- Australian made and manufactured
- Environmentally friendly – HCFC free
- KPA rating that exceeds BCA regulations
- Compliant with Australian Standards AS1366.4

Also available in

Styroboard® EPS

A highly versatile material suitable for a number of applications across the building & construction industry as well as commercial and retail environments.



About Foamex

Styroboard® XPS is one of the leading products brought to you by the Foamex Group. Foamex has been supplying builders, engineers, architects, designers and specifiers with quality building products since 1982. An Australian owned and operated company with branches across the country, Foamex is well known for its product innovation and testing, as well as dedicated team, resulting in a superior and versatile building product.

For further information please contact your local Foamex sales representative.

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Styroboard® XPS



**Strong, resilient and robust
with a superior thermal performance.**

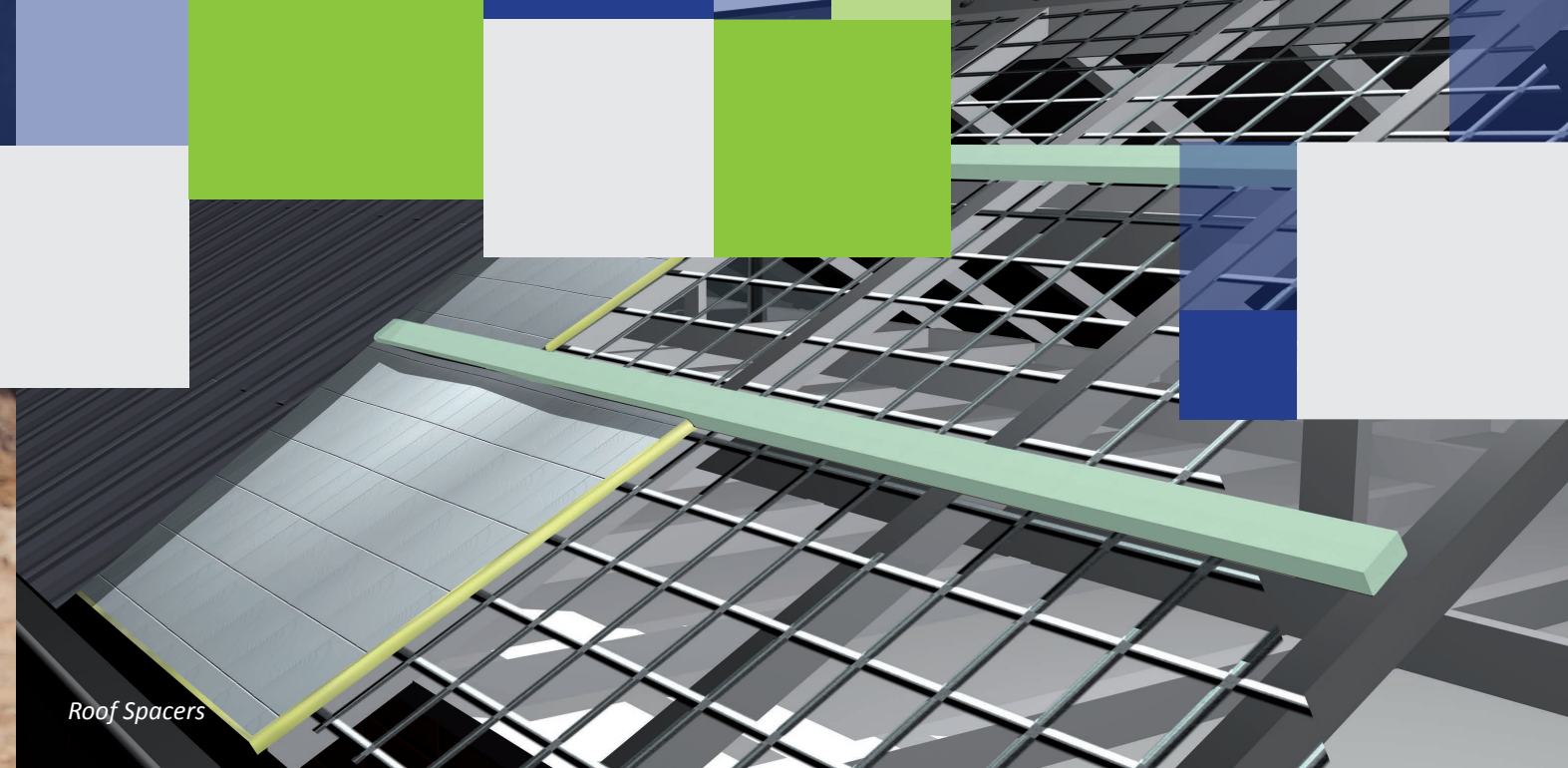


www.styroboard.com

Styroboard® XPS



Floor Insulation



Roof Spacers



Floor Insulation

- Ideal for heavy load bearing floors
- Impervious to water

The high compressive strength of Styroboard® XPS is suitable for insulating a wide range of floor constructions; especially those subjected to heavy loads – warehousing, production areas, car parks and even aircraft maintenance hangars.

Highly compressive and durable, Styroboard® XPS can absorb local peak loads as well as adjust to uneven surfaces under pressure. Dimensionally stable, Styroboard® XPS will not attract vermin and is resistant to most ground contaminants.

Perimeter Insulation

- Moisture & rot resistant
- Superior R-values

Styroboard® XPS is ideal for perimeter insulation – surrounding the shell of a building without forming any thermal bridges. Perimeter insulation helps a slab retain warmth, further reducing the amount of heat lost through the building's foundations.

Suitable for use in pervious, semi-pervious and impervious soils, Styroboard® XPS delivers excellent thermal insulation properties, is moisture resistant and rot-proof. Its R-values will also help increase your Energy Efficiency Rating (EER) for a relatively low expenditure.

Roof Spacers

- Manufactured in Australia
- KPA rating exceeds BCA regulations

Designed using Styroboard® XPS, Foamex PurlinK® roof spacers assist with the reduction of thermal loss on commercial metal deck roofing applications. These roof spacers provide a thermal break, allowing insulation to recover to its nominal thickness, which helps maximize thermal efficiency and increase R-Values.

Foamex PurlinK® roof spacers deliver a high compressive strength, are impervious to water and produce zero OPD substances due to a revolutionary new manufacturing process, which makes this a truly green building product.

Inverted Roofs

- High compressive strength
- Does not rot or decompose

Inverted roofs have an insulation layer fitted over the waterproofing seal to help protect the membrane from fluctuations in weather conditions. Styroboard® XPS is durable, does not rot or decompose and its high compressive strength makes it an ideal insulation material for roofs subjected to heavy loads or constant foot traffic.

Styroboard® XPS is suitable for use across a wide range of roofing applications, including inverted roofs, duo or plus roofs, roof gardens, promenade roofs and parking decks.

Styroboard® XPS is an Australian made product, manufactured locally in Victoria at our state-of-the-art production facility. Using a new gas developed in partnership with Honeywell Australia, Styroboard® XPS is environmentally friendly, refrigerant free, and produces no ozone depleting substances.

Don't risk non-compliance with inferior, imported products; use Australian made and manufactured XPS. With short lead in times and a fast turnaround on delivery, Styroboard® XPS boasts the best thermal properties in the world.

Styroboard® XPS complies with Australian Standard 1366 Rigid Cellular Plastic Sheets for Thermal Insulation, Part 4: Rigid Cellular Polystyrene-Extruded (RC/PS-E); and meets section J of the Building Code of Australia, in relation to energy efficiency requirements.

Physical Properties

Styroboard® XPS	Styroboard 250 (Class IV)	Styroboard 350 (Class IV)
Panel Surface	Skin	Skin
Length and Width	2400 x 600	2400 x 600
Nominal Density (kg/m3)	35	40
Thermal Resistance (m ² K/W)		
Thickness 30mm	1.04R	1.04R
Thickness 50mm	1.74R	1.74R
Thickness 75mm	2.61R	2.61R
Properties - Class IV AS1366.4		
Min. Compressive Strength at 10% deformation measured parallel to rise.	240 kPa	350 kPa
Cross Breaking Strength, min.	375 kPa	375 kPa
Rate of Vapour Transmission, max. measured parallel to rise at 23°C, dry conditions	100 µg/m ² s	100 µg/m ² s
Max. dimensional stability of length, width and thickness; 7 days at 70°C, dry conditions	1.0%	1.0%
Flame propagation characteristics		
median flame duration max.	1.5s	1.5s
eighth value, max.	2.5s	2.5s
median volume retained	70s	70s
eighth value, min.	60s	60s
Min. thermal resistance, (50mm sample): at a mean temperature of 25°C	1.74 m ² K/W	1.74 m ² K/W
Water absorption, max	1.7% vol/vol	1.7% vol/vol



Perimeter Insulation



Inverted Roofs