

Styroboard[®]

XPS



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





Floor Insulation



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, freezer floors in coolrooms, production areas, car parks and even aircraft maintenance hangars.

Extremely 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

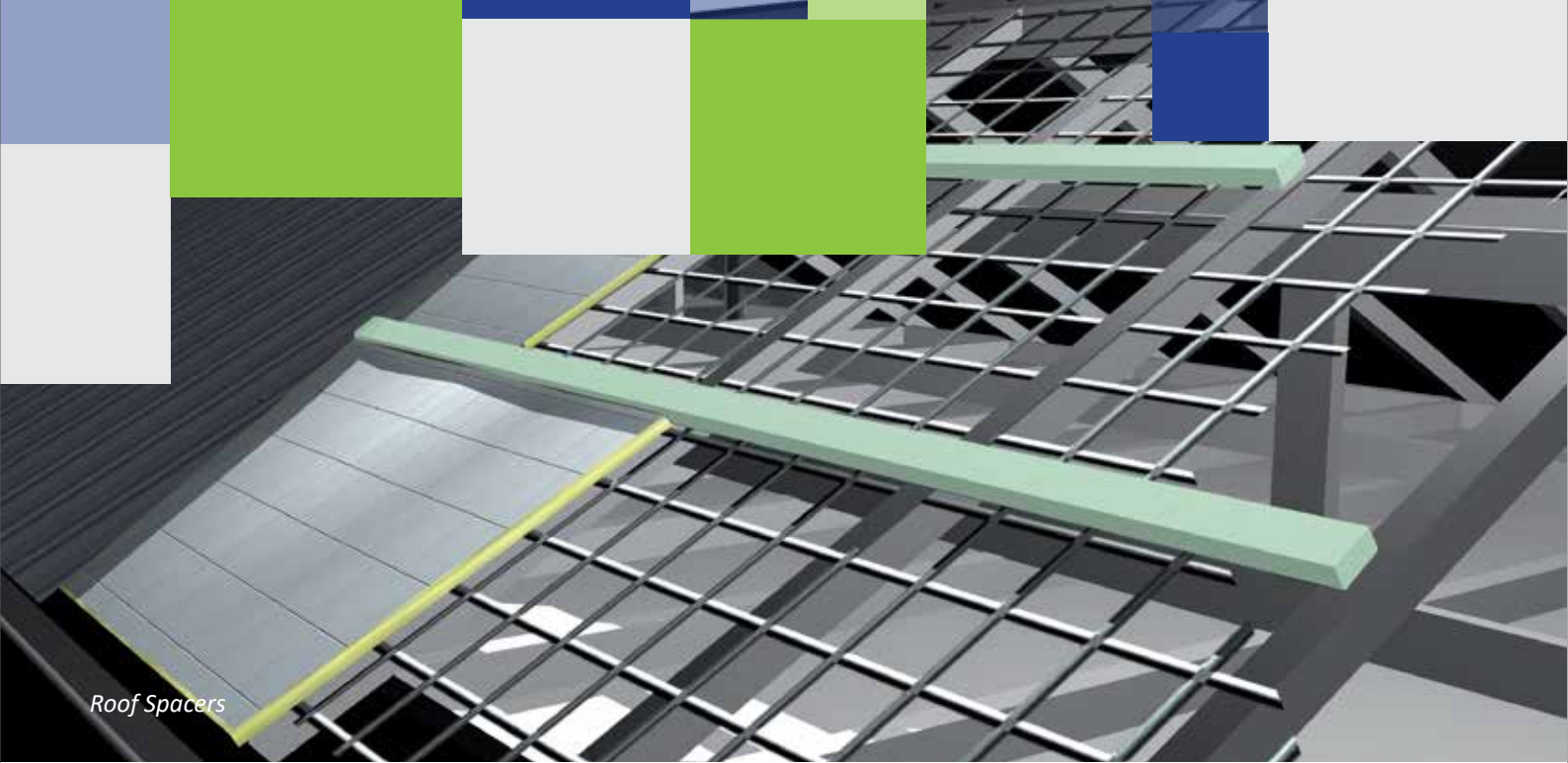
- Moisture & rot resistant
- Superior R-values

Styroboard® XPS is ideal for perimeter insulation – surrounding the shell of a building eliminating 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.



Perimeter Insulation



Roof Spacers



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 maximise thermal efficiency and increase R-Values.

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



Green Roofs

- **High compressive strength**
- **Does not rot or decompose**

Green 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 green roofs, duo or plus roofs, roof gardens, promenade roofs and parking decks.



Green Roofs



Styroboard® XPS is an Australian made product, manufactured locally in Victoria at our state-of-the-art production facility. Styroboard® XPS is environmentally friendly, produces no ozone depleting substances and is backed by a local manufacturing warranty hard to secure with less performing imported products.

Don't risk non-compliance with inferior, imported products manufactured in markets without proper environmental controls; use Australian made and manufactured XPS and deal direct with the manufacturer. With short lead in times and a fast turnaround on delivery, Styroboard® XPS is the only choice for peace of mind during the build and for the lifetime of the building.

Styroboard® XPS has been assessed in accordance with the test methods employed by Standards Australia to determine its true physical properties, which are shown below.

Physical Properties

Styroboard® XPS	Styroboard 350
Panel Surface	Skin
Edge Profile	Square Edge
Length and Width	2400 x 600
Nominal Density (kg/m ³)	32-36

Nominal Thermal Resistance	R-Value	K-Value	Relevant Test Method
Thickness 20mm	0.71R	0.028	AS-2464.5 / ASTM C518
Thickness 25mm	0.89R	0.028	AS-2464.5 / ASTM C518
Thickness 30mm	1.07R	0.028	AS-2464.5 / ASTM C518
Thickness 40mm	1.43R	0.028	AS-2464.5 / ASTM C518
Thickness 50mm	1.79R	0.028	AS-2464.5 / ASTM C518
Thickness 75mm	2.68R	0.028	AS-2464.5 / ASTM C518

Properties	Relevant Test Method			
	2%	10%	Yield	AS-2498.3 / ASTM D1621
Thickness 20mm	on request	≥220	≥220	
Thickness 25mm	on request	≥250	≥250	
Thickness 30mm	on request	≥250	≥250	
Thickness 40mm	on request	≥300	≥300	
Thickness 50mm	≥200	≥350	≥350	
Thickness 75mm	≥300	≥350	≥350	
Rate of Vapour Transmission, max. measured parallel to rise at 23°C, dry conditions	125 µg/m ² s			AS-2498.5
Max. dimensional stability of length, width and thickness; 7 days at 70°C, dry conditions	<1%			AS-2488.6
Flame propagation characteristics				
- median flame duration max.	1.5s			AS-2122.1
- eighth value, max.	2.5s			AS-2122.1
- median volume retained	70%			AS-2122.1
- eighth value, min.	60%			AS-2122.1
Min. thermal resistance, (50mm sample): at a mean temperature of 25°C	1.79 m ² K/W			AS-2464.5 / ASTM C518
Water absorption, max	1.7% vol/vol			AS-2498.8

The information submitted in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application, this data does not relieve the purchaser of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.



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 harmful 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 green 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 to suit every application

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.

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.



For further information please contact your local Foamex sales representative.

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