

**Styroboard<sup>®</sup>**  
**XPS**

ROBUST RESILIENCE  
FOR SUPERIOR THERMAL  
PERFORMANCE



ANOTHER ENGINEERED SOLUTION FROM:

**FOAMEX<sup>®</sup>**  
EST-1982

# AUSTRALIAN INGENUITY FOR SUPERIOR THERMAL PERFORMANCE

**Foamex is the only company in the Australian market that manufactures and sells Australian made extruded polystyrene built specifically for Australian conditions.**

Extruded polystyrene provides higher long-term R-values and thermal performance than expanded polystyrene. A resilient and robust construction material, Styroboard XPS can be used across a wide range of residential and commercial building and construction applications.

Unlike other insulation materials that degrade when wet, Styroboard XPS is impervious to water. It will always preserve its thermal and physical properties under all conditions, thanks to its high-density closed cell structure.

Dimensionally stable, organically inert and moisture resistant, Styroboard XPS meets a number of key requirements in structural and civil engineering. Offering superior compressive strength and higher long-term R-Values, Styroboard XPS is suitable for use on floors subjected to engineered loads and

constant traffic, as well as insulation for inverted roofs, rooftop gardens, parking decks and as commercial purlin roof spacers.



## Australian made for Australian conditions

**Foamex is the only company in the Australian market that manufactures and sells Australian made extruded polystyrene built specifically for Australian conditions.**

Using Foamex Styroboard XPS, made in Australia for the Australian climate, ensures the integrity of your building project. Importantly, when you choose Styroboard XPS by Foamex you'll enjoy peace of mind knowing that the grade of material used in the manufacturing process is second to none.

Such guarantees cannot be made with imported XPS products. This is a critical Styroboard XPS discriminator, as over time extruded polystyrene manufactured using low quality input material can rapidly leach out harmful blowing agents. This can harm the environment while also affecting the functionality of the product via reduced R-Values.

Foamex Styroboard XPS combines high quality, virgin resin with inline reprocessing streams which ensures the integrity, safety and longevity of your project. Using recycled content which is obtained wholly as a by-product of our extrusion process, forms part of our sustainability commitment to manufacture products free from unnecessary waste. All Styroboard XPS products by Foamex are industry trusted to deliver dependable quality where it's most needed.





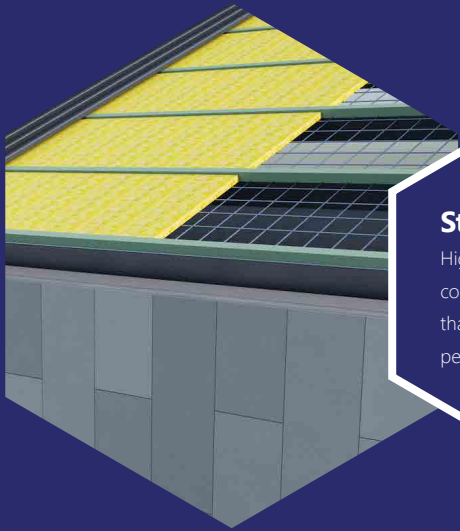
# STYROBOARD XPS PRODUCT RANGE

A highly compressive and durable construction material for building & creative applications.



## StyroLink

Highly compressive commercial roof spacers that deliver superior thermal performance and strength.



## StyroTherm

A highly compressive and durable construction material for building & creative applications.



## StyroRoof

XPS sheets that are ideal for insulating and protecting inverted and green roofs.



## Design Features

- Durable and sturdy for long lasting applications
- Australian made and manufactured
- Lightweight and easy to handle
- Environmentally friendly – HCFC free
- 100% recyclable
- High compressive strength
- KPA rating to suit any project
- Low moisture absorption
- Long term retained R-values

If your project demands a 100% Australian made, quality extruded polystyrene solution that will stand the test of time, then make sure its Styroboard XPS from Foamex.



## A FIRE-SAFE SOLUTION

All Styroboard XPS products are manufactured from a fire-retardant raw material. This means that they do not present as a fire hazard when correctly installed. Like other organic materials, polystyrene will burn when in contact with a flame, but it will self-extinguish when the fire source is removed.



## AN ENVIRONMENTALLY SAFE SOLUTION

Produced with no refrigerants and free from HCFCs, Styroboard XPS is a truly 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.

# StyroTherm®

## XPS sheets with industry leading R-Values & thermal performance

Proven through industry use, StyroTherm is a dependable insulation product used in building and construction as well as in creative and model making applications. In the building and construction industry StyroTherm is the widely used insulation product of choice for floor, under slab, slab edge, and perimeter insulation.

Manufactured in Australia from Styroboard XPS, the highest quality extruded polystyrene available – StyroTherm is a highly compressive and durable product. StyroTherm's density and closed cell structure make the product practically impervious to water, dimensionally stable and organically inert. StyroTherm is used as an insulation material across a range of residential, commercial and industrial buildings.

One of the best value thermal insulation solutions in Australia and a truly green building product, StyroTherm delivers a robust slab edge insulation system, which helps prevent thermal bridging around the perimeter of a home. StyroTherm is also used under residential or commercial concrete slabs to provide additional insulation benefits.

## Design Features

- Superior compressive strength
- Extremely durable for long lasting applications
- Lightweight & easy to handle in any weather
- Practically impervious to water
- Delivers long-term retained R-Values
- Environmentally friendly - CFC & HCFC
- Complies with all relevant building codes
- 100% Australian made for Australian conditions

## Specifications

- Compressive strength range 250kPa to 350kPa
- Width: 600mm
- Length: 2400mm
- Thickness: 25mm, 30mm, 40mm, 50mm, 60mm, 75mm
- Edge configuration: Square
- Nominal density: 32-36 kg/m<sup>3</sup>





# StyroLink®

## XPS roof spacers that deliver thermal performance and strength

StyroLink is a critical component of a thermally stable metal deck roofing system. It helps deliver thermal efficiency on commercial metal deck roofing applications, by avoiding thermal bridging. Manufactured from Styroboard XPS extruded polystyrene, StyroLink roof spacers allow for the insulation blanket to return to its design thickness, ensuring the maximum thermal efficiency of the roofing system.

Unlike many locally available roof spacers, StyroLink is 100% Australian made at our state-of-the-art facility in Victoria. StyroLink roof spacers by Foamex are produced from the highest quality extruded polystyrene and boast a kPa rating that exceeds BCA regulations. StyroLink roof spacers can be custom cut to your specific requirements.

## Design Features

- Lightweight and easy to handle
- High compressive strength
- Superior water resistance
- Complies with BCA thermal bridging requirements
- 100% Australian made for Australian conditions

## Specifications

- Compressive strength range 250kPa to 350kPa
- Length: 1200mm
- Width from 30mm to 600 mm
- Thickness: 25mm, 30mm, 40mm, 50mm, 60mm, 75mm
- Edge configuration: Square
- Nominal density: 32-36 kg/m<sup>3</sup>



# StyroRoof®

## Premium XPS sheets that insulate and protect green roofs

Durable, lightweight, organically inert and delivering a high compressive strength, StyroRoof is the preferred choice for inverted roofs and green roof systems that are subjected to engineered loads or constant foot traffic.

StyroRoof, made from Styroboard XPS extruded polystyrene, is closed cell sheeting that delivers high R-values and excellent compressive strength. Even when faced with extreme weather conditions, StyroRoof still preserves its thermal and physical properties thanks to its high density closed cell structure and low moisture absorption.

StyroRoof is an Australian made product, manufactured at our state-of-the-art production facility in Melbourne. A true green building product, StyroRoof is environmentally friendly, refrigerant free, and produces no ozone depleting substances.

If you're looking to increase the sustainability of your commercial building design, incorporating StyroRoof into your roofing project will assist in creating not only a healthier building environment, but a more sustainable building that will pay for itself in savings through reduced energy bills.

## Design Features

- Highly compressive
- Durable and sturdy for long lasting applications
- Very low moisture absorption
- KPA rating to suit every application

## Specifications

- Compressive strength range 250kPa to 350kPa
- Width: 600mm
- Length: 2400mm
- Thickness: 25mm, 30mm, 40mm, 50mm, 60mm, 75mm
- Edge configuration: Square
- Nominal density: 32-36 kg/m<sup>3</sup>



# ENVIRONMENTALLY FRIENDLY BUILDING & CONSTRUCTION SOLUTIONS

**The Styroboard XPS range delivers innovative and truly sustainable solutions for residential construction applications, commercial building applications, packaging applications, and various retail and creative applications.**

Made from 98% air, Styroboard XPS can be shaped, moulded, and compressed into a durable, versatile, and long-lasting product. All Foamex Styroboard XPS products are produced without the use of toxic, ozone depleting substances and are 100% recyclable.

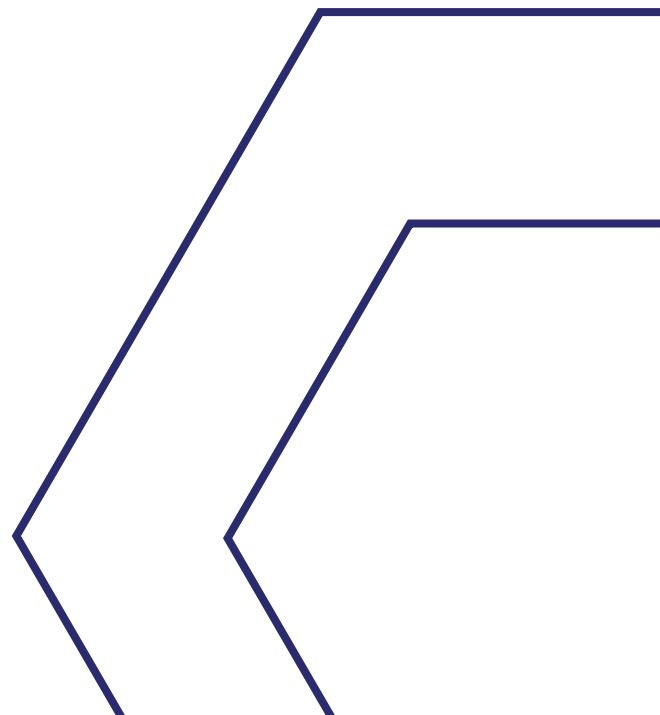
But it's not just how we produce our Styroboard XPS products in an environmentally friendly manner. It's also how the product remains an environmentally safe solution over the course of its lifetime, from its waste-free manufacturing to its ability to be recycled up to seven times without deteriorating after use.



## The Foamex commitment to green building

At Foamex, we are strong advocates of green building practices, and our Styroboard XPS products are testament to this commitment. Styroboard XPS extruded polystyrene by Foamex is manufactured without CFCs, HFCs, and has no refrigerants in its chemical make-up.

Foamex works closely with architects, specifiers and builders to provide environmentally sustainable building solutions that promote a move away from dated building practices and towards green building design. Incorporating Styroboard XPS products into the built environment will contribute to the Green Star ratings of your next project.





# STYROBOARD XPS: TECHNICAL SPECIFICATIONS

## PHYSICAL PROPERTIES

Panel Surface	Smooth Skin
Edge Profile	Square Edge
Length and Width	2400 x 600mm
Nominal Density	32 – 36kg/m <sup>3</sup>

NOMINAL THERMAL RESISTANCE	R-VALUE R(50/90)	K-VALUE λ(50/90)	TEST METHOD
Thickness 25mm	0.81R	0.031λ	AS-4589.1-2018 / ASTM C518-2017
Thickness 30mm	0.97R	0.031λ	AS-4589.1-2018 / ASTM C518-2017
Thickness 40mm	1.29R	0.031λ	AS-4589.1-2018 / ASTM C518-2017
Thickness 50mm	1.52R	0.033λ	AS-4589.1-2018 / ASTM C518-2017
Thickness 60mm	1.82R	0.033λ	AS-4589.1-2018 / ASTM C518-2017
Thickness 75mm	2.27R	0.033λ	AS-4589.1-2018 / ASTM C518-2017
Thickness 75mm	2.68R	0.031λ	AS-4589.1-2018 / ASTM C518-2017

COMPRESSIVE STRESS Measured parallel to rise (min.)	2%	10%	YIELD	TEST METHOD
Thickness 25mm	on request	>250kPa	n/a	AS-2498.3 // ASTM D1621
Thickness 30mm	on request	>250kPa	n/a	AS-2498.3 // ASTM D1621
Thickness 40mm	on request	>300kPa	n/a	AS-2498.3 // ASTM D1621
Thickness 50mm	>230kPa	>350kPa	>300kPa	AS-2498.3 // ASTM D1621
Thickness 60mm	>240kPa	>350kPa	>400kPa	AS-2498.3 // ASTM D1621
Thickness 75mm	>210kPa	>350kPa	>400kPa	AS-2498.3 // ASTM D1621

FLAME PROPOGATION CHARACTERISTICS	RESULTS	TEST METHOD
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

PROPERTIES OTHER	RESULTS	TEST METHOD
Rate of vapour transmission, max. measured parallel to rise at 23°C, DC SO	125 µg/m <sup>2</sup> s	AS-2498.5
Max. dimensional stability of length, width and thickness, 7 days at 70°C, DC SO	1%	AS-2488.6
Min. thermal resistance (50mm sample), at a mean temperature of 25°C	1.79m <sup>2</sup> K/W	AS-2464.5 / EN13164 / ASTM C518
Water absorption max.	1.7% vol/vol	AS-2498.8

# FOAMEX: INNOVATION IN ALTERNATE BUILDING AND INSULATION PRODUCTS

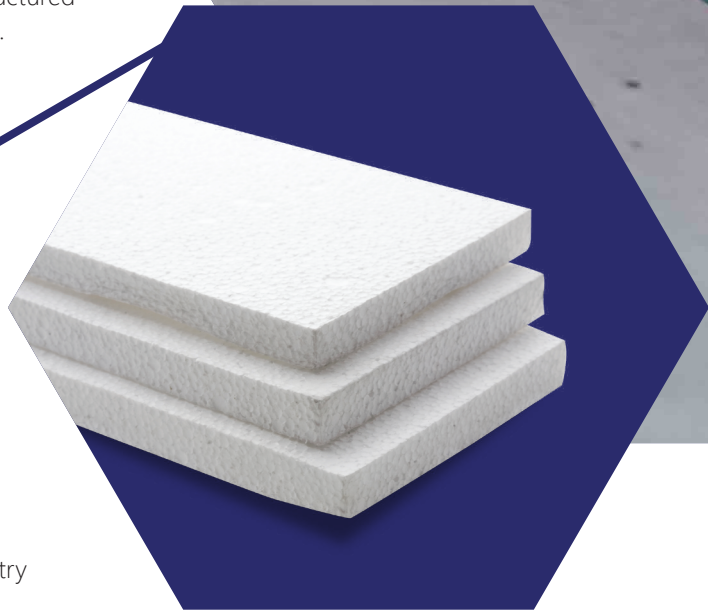
Foamex is one of Australia's largest manufacturers of high-quality building and insulation products. We supply a range of extruded polystyrene (XPS) and expanded polystyrene (EPS) specialty foam products for various residential and commercial building applications, civil engineering applications, packaging applications, as well as for retail and creative purposes.

A nationally recognised leader in sustainable building and insulation solutions, Foamex is proudly Australian-owned and operated. All of our polystyrene products are manufactured in-house to strict Australian quality control standards.

ALSO AVAILABLE IN

**Styroboard**<sup>®</sup>  
**EPS**

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



**The Styroboard XPS range of products are available to order direct from your local Foamex sales office.**

**CALL 1300 AU FOAM**

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