

Extruded Polystyrene Insulation **FOAMULAR**[®]



“Owens Corning’s Foamular insulation is an extruded polystyrene rigid foam insulation with stable, high insulating values and superior moisture resistance when compared to other types of foam insulation.”

Owens Corning has been producing insulation since 1935 and has been a leading force in the way the insulation industry has developed. Owens Corning is a member of EPA Climate leaders program, and is committed to reducing Greenhouse gas Emissions in the manufacturing process and through product performance.



“Insulation Is One Of The Most Effective Ways To Improve A Buildings Energy Efficiency.”

Austech has been nationally distributing building products for 25 years, and distributes Foamular Australia wide. Austech’s sales and technical team can recommend the best product for your application and help with the specification process.

New South Wales

Austech External Building Products
80 Tattersall Road, Blacktown NSW 2148
PO Box 4208 Marayong NSW 2148
Phone: 02 9831 1623
Fax: 02 9831 5043
Contact: Tony Curran
Email: sales@austech.com.au

Queensland

Austech External Building Products (QLD)
1/1089 Kingsford Smith Drive,
Eagle Farm Brisbane QLD 4009
Phone: 07 3268 3066
Fax: 07 3268 3021
Contact: Matt Reeder & Scott Follent
Email: sales@austech-ql.com.au

Victoria and South Australia

Austech External Building Products (VIC)
36 Isabella Street, Moorabbin VIC 3189
Phone: 03 9532 0131
Fax: 03 9532 1868
Contact: Alan Mooney
Email: sales-vic@austech.com.au

Western Australia

Austech External Building Products (WA)
20 Hilltop Cl, Mahogany Creek WA 6072
Phone: 08 9295 0500
Fax: 08 9295 6699
Contact: John Vadala
Email: sales-wa@austech.com.au

Tasmania

Austech External Building Products (TAS)
4/8 Melrose Court, Sandy Bay Hobart TAS 7005
Phone/Fax: 03 6225 4003
Contact: Tony Caldwell
Email: sales-tas@austech.com.au

New Zealand

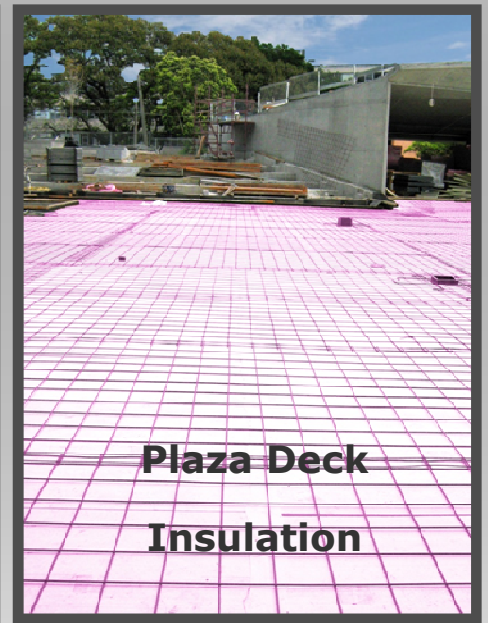
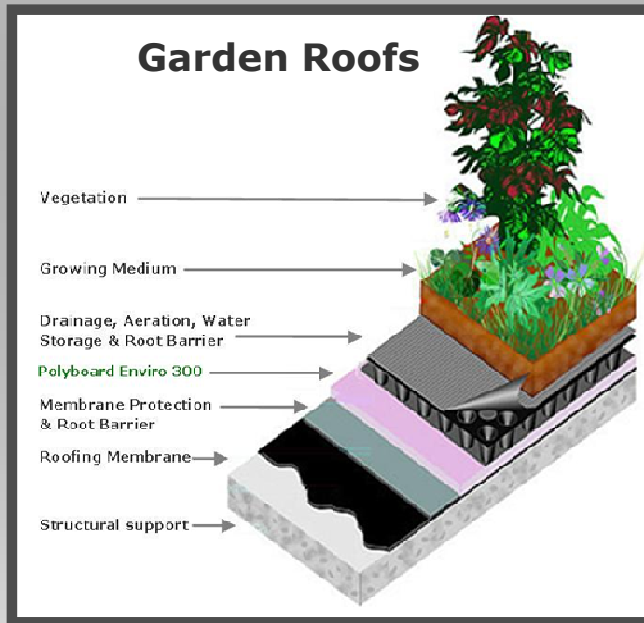
Tironui Contractors Ltd
Unit 2/32 Tironui Road, Takanini Papakura
Auckland, New Zealand
Phone: +64 9298 7055
Fax: +64 9298 7054
Contact: Leigh Ingle
Email: sales-nz@austech.com.au

POLYBOARD ENVIRO 300

ZERO ODP EXTRUDED POLYSTYRENE INSULATION



Traditional high performance properties of closed cell rigid board with the additional benefit of Zero Ozone Depletion Potential (ODP)



Polyboard Enviro 300 Technical Data		
Compressive Strength	300 KPA minimum	BS 3837: Pt2:1980
Density	35 Kg/m ³	BS 4370
Thermal Conductivity	0.033 w/mK	BS 3837: Pt2:1980 BS874
Thermal Resistance	50mm = R1.56, 75mm = R2.34	
Water Absorption	>0.2% by volume	BS 3837: Pt2:1980
Thickness	25-100 mm	
Sheet Size	2450 x 600	
Fire Rating	B2	BSEN ISO 3582
Blowing Agent	C02	

For Technical Information, Contact Mike Nagle - 0417 268 660
mnagle@austech.com.au • www.austech.com.au

NSW • QLD • VIC • WA • TAS • NZ

Extruded Polystyrene Insulation

FOAMULAR®



Application: PRMA (Protected Roof Membrane Assembly).



PRMA (Protected Roof Membrane Assembly) is a method of insulating roofs by placing insulation above the waterproofing membrane, therefore protecting the membrane. The insulation is held in place with specified ballast, usually gravel or cement pavers.

Unlike most other insulation, Foamular has a closed cell structure, so it maintains its ability to insulate in the presence of water. This plus its high strength make it excellent insulation for all roofing applications.

**“Good Insulation
Pays For Itself In
Energy Savings”**



Foamular is guaranteed to maintain its physical properties and a minimum 90% R-Value for a period of 20 years. This superior performance and increased membrane protection vastly improves a buildings sustainability, reducing maintenance costs, energy consumption and environmental impacts.

Recommended Material: FM 250-350, 30-100mm (to meet R-values and traffic loads)

**For Technical Information, Contact Mike Nagle - 0417 268 660
mnagle@austech.com.au • www.austech.com.au**

NSW • QLD • VIC • WA • TAS • NZ

Extruded Polystyrene Insulation **FOAMULAR**[®]



Application: Insulation in Green Garden Roof Assemblies.

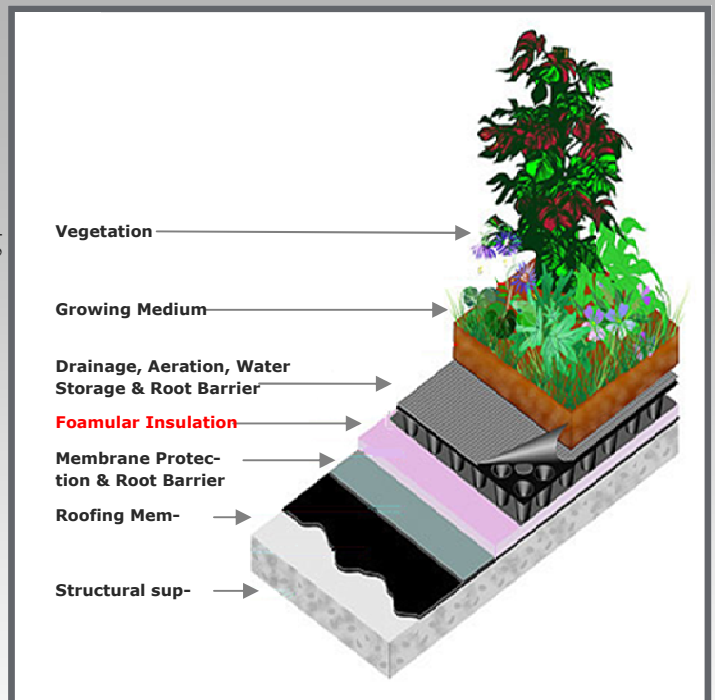


Foamular Extruded Polystyrene is the ideal insulation for a green garden roof assembly. It provided no nutritional value to plants or animals and has guaranteed long term thermal

“Green Roof Gardens Are Carbon Sequestrators, Absorbing Carbon From The Air & Improving Air Quality”

Prolonged contact with the growing medium is not an issue since Foamular is not damaged by contact with soil, moisture, bacteria and other organic compounds.

Foamular’s high moisture resistance and superior strengths makes it ideal for protecting the roofing membrane, increasing the roof’s life-cycle, plus reducing maintenance costs and energy demands.

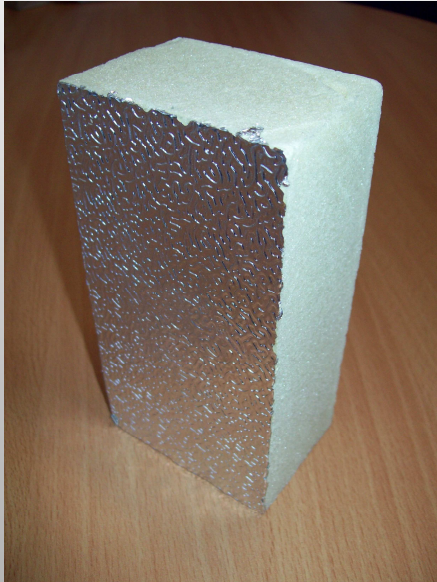


Recommended Material: FM 250/350, 75mm [R2.67]

**For Technical Information, Contact Mike Nagle - 0417 268 660
mnagle@austech.com.au • www.austech.com.au**

NSW • QLD • VIC • WA • TAS • NZ

Application: Commercial Under Slab Insulation.



Foamular Foil Faced XPS Insulation is a Group 1 material as per part C.1.10A of the BCA. (Part 3, walls and ceilings) this makes it ideal for a variety of commercial applications, including car parks, apartments, manufacturing, high-rise and retail.

Foamular Foil Faced 50mm has an R Value of R2.0 at 24°C, giving it superior insulation properties in comparison to EPS and Polyurethane.

All Foamular products are guaranteed to maintain 90% minimal thermal performance for a period of 20 years. This makes Foamular an investment that can pay for itself in energy savings.

“Fire Resistant Insulation Saves Energy and Lives”

Fixing using Hiltie XIE or Ramset Systems are proven cost effective methods.

Adhesive fixing is also quite acceptable as Foamular has a tensile strength of 300 kpa.



Foamular is lightweight yet tough and durable, it is easy to handle and quick to fit, saving on labor costs plus the need for extensive structural support and scaffolding.

Recommended Material: FM 250 Foil Faced, 30-100mm (to meet R-values) (foil-free available)

**For Technical Information, Contact Mike Nagle - 0417 268 660
mnagle@austech.com.au • www.austech.com.au**

NSW • QLD • VIC • WA • TAS • NZ

Application: Residential On Ground Slabs with Floor Heating Systems.

Improved energy efficiency is achieved by using Foamular as a thermal barrier under the slab and around the exposed slab Perimeter.

In simple terms heat will transfer to cooler medium such as the ground and external air. To keep the slab warm a continual supply of energy is required to replace escaping heat.

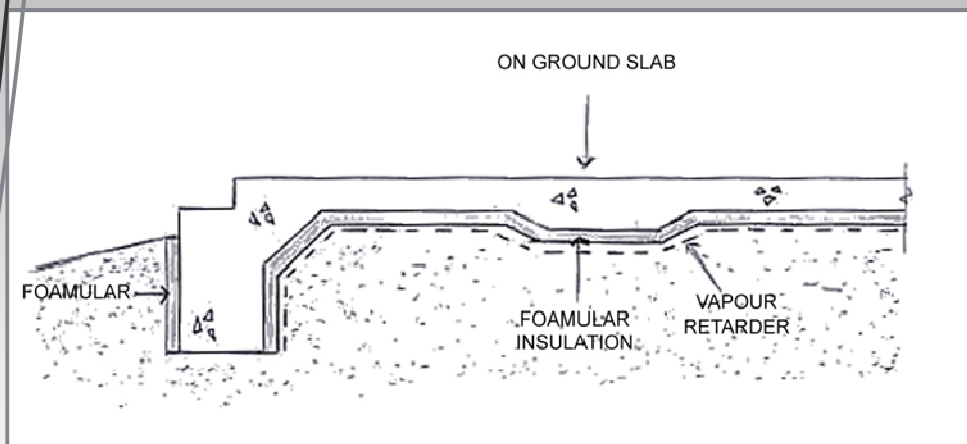


Fixing Foamular as a thermal barrier minimises heat loss so less energy is required to maintain slab temperature.

Long term energy efficiency is achieved by this simple application.

**“Lower Energy Demand = Lower Operating Costs
= Lower Greenhouse Gas Emissions”**

Installation: Foamular is laid directly over the slab area, on top of the plastic sheeting, with supports and reinforcement placed over the Foamular.



As Foamular is not affected by moisture, soil borne bacteria or mould it can be back filled against for gardens etc. with no loss of thermal a physical properties.

Recommended Material: FM 250, 30mm [R1.07] FM 250, 50mm [R1.78]

**For Technical Information, Contact Mike Nagle - 0417 268 660
mnagle@austech.com.au • www.austech.com.au**

NSW • QLD • VIC • WA • TAS • NZ

Application: EIFS – Exterior Insulation and Finishing System.

Foamular Extruded Polystyrene is an ideal energy efficient substrate for EIFS, especially suited for new generation PM render finishes. The closed cell construction of Foamular Metric ensures long term thermal performance with virtually no moisture absorption.

Foamular has high 'R' Values (50mm=R1.78) which are guaranteed to not drop below 90% of the original value for 20 years.

“Foamular Minimises Thermal Bridging, Literally Wrapping Your Home In Insulation”



For timber or steel framed construction Foamular Metric XPS is screw fixed directly to the studs, which is 30% more effective than between stud insulation. Foamular is then coated with a polymer modified render system.

This new generation PM render system provides a tough mesh-reinforced, seam-free finish with high impact resistance. Foamular Metric XPS is a strong yet lightweight building material, which ensures quick build time while minimising OH&S risks associated with other cladding substrates.

Recommended Material: FM 250, 30-100mm (To meet desired R-values)

For Technical Information, Contact Mike Nagle - 0417 268 660
mnagle@austech.com.au • www.austech.com.au

NSW • QLD • VIC • WA • TAS • NZ

Extruded Polystyrene Insulation **FOAMULAR**[®]



Application: Cold Storage Floor Insulation.

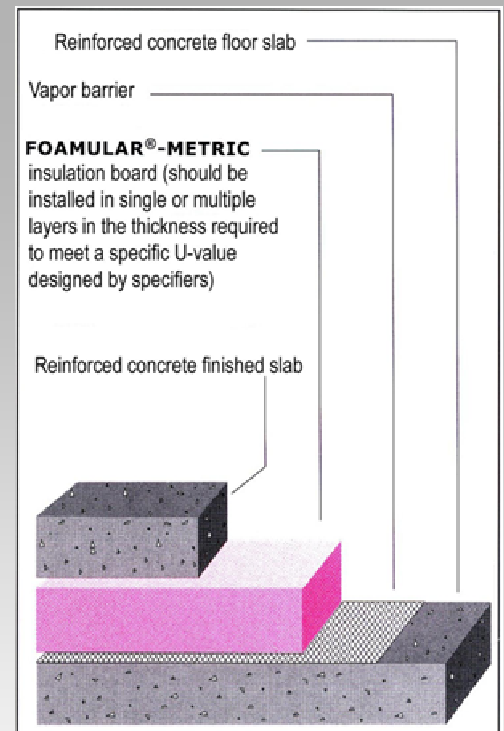
The high compressive strength of Foamular coupled with high thermal performance and moisture resistance make Foamular an ideal material for cold storage floor insulation.

Foamular minimises compressive creep by providing superior support of the slab by minimising deflection, even during exposure to extreme cold and moisture.



“Achieve Increasing Levels Of Energy Efficiency And Reduce Environmental Impacts”

When used in cold storage application, Foamular outperforms most other insulation materials in maintaining insulation performance and supporting the imposed load, minimising the risk of floor damage through expansion and/or contraction.



Recommended Material: FM 300/350, 75&100 mm (Common spec, 2 layers of FM 350/75mm)

**For Technical Information, Contact Mike Nagle - 0417 268 660
mnagle@austech.com.au • www.austech.com.au**

NSW • QLD • VIC • WA • TAS • NZ

Extruded Polystyrene Insulation **FOAMULAR**[®]



Application: Precast/Masonry Wall Internal Insulation.

Masonry and concrete have revolutionised the way we build, but they have the big drawback of having very bad insulation properties. Foamular Extruded polystyrene is a closed cell insulation board ideal for increasing the r-value of internal walls.

Just 50mm of Foamular had an R value of R1.78. In comparison, 110mm of brickwork is R0.18 and 100mm concrete slab is R0.069. Foamular is therefore the ideal solution to improve the performance of these walls.

“Any Carbon Released During Production of Foamular Is Easily Re-Couped Through Increased Energy Efficiency”



Foamular Extruded Polystyrene boards meet BCA Part J requirements with added benefits. Foamular is lightweight but tough, which makes it easier and safer to use on site.

Foamular is suitable for various fixing mechanisms. Depending on the project, Foamular can be fitted using adhesives, mechanical fixings eg Hilti XIE) or furring Channel.

Recommended Material: FM 250, 50-75mm (To meet desired R-values)

**For Technical Information, Contact Mike Nagle - 0417 268 660
mnagle@austech.com.au • www.austech.com.au**

NSW • QLD • VIC • WA • TAS • NZ

Extruded Polystyrene Insulation **FOAMULAR**[®]



Application: Masonry/Brick Cavity Wall Insulation

Brick, masonry and concrete walls all benefit from the addition of Foamular extruded polystyrene insulation through improved thermal performance.

These types of construction have low thermal values. Masonry and brick are very good at storing heat but are also very good at transferring heat. Often bricks and masonry will heat up during the day, store that heat and then radiate it back into the house at night. Properly installed insulation can limit this transfer and dramatically improve energy efficiency.



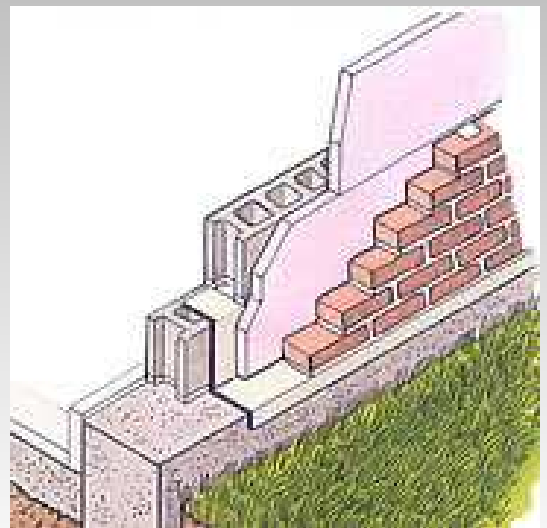
Foamular Extruded Polystyrene is closed celled insulation, so it is not effected by moisture. It can reduce the transfer of moisture and its physical properties are not reduced in the presence of moisture.

As a result of its reduced moisture absorption, it is guaranteed to maintain 90% of its thermal properties for 20 years



A double brick cavity wall has an R-value of only R0.69. In comparison just 30mm of Foamular Extruded Polystyrene has an R-value of R1.07. Combining the two would provide an R-Value of 1.76 and vastly improve the walls thermal performance.

To meet BCA and BASIX requirements, Foamular XPS in various thicknesses can be easily fitted to meet thermal requirements. Highly energy efficient buildings not only save money, but are also worth more money.



Recommended Material: FM 250, 25-40mm (To meet desired R-values)

**For Technical Information, Contact Mike Nagle - 0417 268 660
mnagle@austech.com.au • www.austech.com.au**

NSW • QLD • VIC • WA • TAS • NZ

Application: Wine Cellar & Wine Storage Insulation.

Successful wine storage requires constant temperature and high humidity, creating some unique problems for insulation. Most insulation would underperform in these conditions, but Foamular is not affected by moisture in the air, so it is ideal for this unique circumstance.



Foamular can be directly fixed to timber, steel, masonry or concrete. Foamular will not aid in the transfer of humidity, which helps protect the adjoining rooms and structures. Foamular is also an ideal substrate for many finishing systems, including render, timber and stone.



“Insulation Is An Investment”

Serious wine storage requires expensive temperature and humidity control, but Foamular’s high R-Values create an effective barrier to temperature fluctuations, reducing the strain on machines and improving energy efficiency.



Recommended Material: FM 250, 30-75 mm (To meet desired R-values)

**For Technical Information, Contact Mike Nagle - 0417 268 660
mnagle@austech.com.au • www.austech.com.au**

NSW • QLD • VIC • WA • TAS • NZ