

Unipoly®

EPS Block/Panel



Multi-functional Unipoly® provides thermal insulation, conserves energy and is 100% recyclable.

Unipoly®

Unipoly® is Unipod's multi-use moulded polystyrene product, manufactured and tested in Australia in compliance with Australian standards AS 1366.3. Unipoly® is manufactured into a wide range of products, including Geofoam, thermal insulation, waffle pods and wall cladding.

Unipoly® is between 96% and 99% air depending upon the grade specified. The lightweight nature of this material means that installation of Unipoly® products can often be done by one person. For example a 2.5m X 1.2m sheet of Unipoly® 75 mm thick M grade weighs about 4 kg.

When Unipoly® is incorporated into a certified and approved building design, it complies with Australian Building Standards.

Grades

The various grades commonly referred to in moulded polystyrene material are defined by density and strength.

SL grade
M grade
VH grade

Unipoly® absorbs sound and assists with noise reduction performance of walls, floors and ceilings.

Performance benefits

- Durable and long-lasting
- Lightweight for easy application
- Strong and sturdy
- Thermal Insulation
- Low water absorption
- Moisture resistant
- CFC Free
- Complies with AS 1366.3
- Noise reduction capabilities
- Buoyancy, floats on water

Size and shape

Unipoly® is available in various standard and custom sizes to suit project requirements.

- 1.2m width
- 2.5m, 3.0m, 5.0m, or 6.0m lengths
- 20mm up to 1.2 m thickness
- Custom sizes and fabrication are available

Thermal Insulation

Thermal Insulation is measured by thermal resistance, also known as R-value. The higher the R-value, the better the insulation performance.

Material	R Value (M2K/W)
Unipoly® M grade	1.2
Fibreglass Batts	1.1
Timber (Pine)	0.5
Particle Board	0.4
Plaster Board	0.3
Brick (pressed)	0.05
Concrete (Solid)	0.04

R-values calculated on materials, 50mm thick.

Quality Control and Testing

Unipoly® is manufactured by Unipod® to AS1366, Rigid cellular plastic sheets for thermal insulation Part 3: Rigid Cellular Polystyrene-Moulded.

Unipod® has a strict Quality Assurance program to guarantee Unipoly® strength. Product is dispatched upon meeting strength testing criteria, ensuring only high quality, reliable material is delivered to site. Customers can rely on Unipoly® to meet their project needs.

Environment

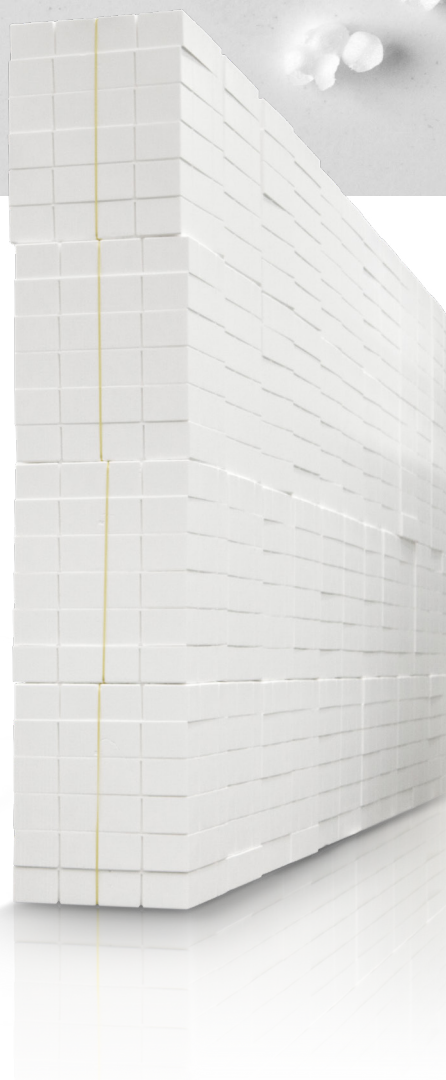
Unipoly® is manufactured without the use of chloroflourocarbons. The raw material used by Unipod® is not made from, nor does it contain any CFCs. Unipoly® is 100% recyclable.



Applications

- Wall insulation systems
- Underslab thermal insulation
- Roof insulation
- Pipe insulation
- Ceiling panels
- Decorative cladding
- Protective packaging
- Flotation products

A sheet of Unipoly® SL grade with dimensions of 1 metre square and 100mm thick, can support 7000 kilograms.





Unipod®

Unipoly® is manufactured in Australia by Unipod® using world class designed and precision built equipment. Unipoly® complies with Australian standards for moulded polystyrene materials and with American standards for areas such as geofoam applications where there are no existing Australian Standards. Unipod has technology agreements and support in place, with world leaders in polystyrene technology in both Europe and America to ensure high performance solutions for the construction industry in Australia.

In addition to Unipoly® EPS Block, Panel/Sheet, Unipod® also manufactures and supplies:

- Unitherm® Underslab Insulation
- Unibloc Geofoam®
- Unipod® Waffle Pods
- Marine Pontoons
- Profile cutting

Unipod® is a progressive moulded polystyrene manufacturing and recycling company, founded in 2007, Victoria Australia. The plant's machinery and equipment are custom designed and built, making the plant a state-of-the-art operation, and Unipod® the market leader in product quality, design flexibility and overall service.

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