



RMAX Environmental EPS

### RMAX and the Environment

EPS (Expanded Polystyrene) is highly energy efficient. The energy saved over the lifetime of an EPS insulation panel in reduced heating demand, more than compensates for the raw material used in it's production.

The effective application of EPS insulation can cut carbon dioxide emissions by up to 50%. The energy used in it's manufacture is recovered within six months by the energy saved in the buildings when EPS is used to insulate the building.

RMAX EPS products do not contain ozone depleting substances and none is used in it's manufacture.

RMAX promotes the use of EPS, with it's superior thermal insulation properties, for the construction of buildings to lower energy requirements and reduce the impact of new buildings on the environment.

### Recycling EPS

EPS products are recyclable and RMAX has established recycling facilities in all of our plants throughout Australia.

RMAX is a member of PACIA (Plastics and Chemical Industries Association) and helped establish the EPS Industry Group, known as REPSA (Recycling Expanded Polystyrene Australia). RMAX, through REPSA play a major role in facilitating the collection and recycling of EPS in Australia.

### Energy Efficient Manufacture

The manufacture of EPS foam is a low pollution process. Steam is used as the major energy source and water is re-used many times during production. There is no waste EPS, in production, as all off-cuts or rejects are re-used.

### RMAX - Innovation Working for You

RMAX is a company driven by innovation. We have pioneered Rigid Cellular Plastics product technologies, leading the development of innovative product solutions for our customers and international partners.

In the Australian building industry, RMAX was the first to introduce termite resistant expanded polystyrene (EPS) - Isolite® Perform Guard® EPS. The exclusive patented technology incorporates a safe, non-toxic inorganic additive that is a deterrent to termites.

Identified by its grey colour, this material has been incorporated into ThermaWallPlus™ reinforced EPS exterior cladding to create a unique and valuable material for the building industry.

We are committed to working with our customers to deliver high quality creative solutions to construction problems. Contact us and see how our innovative approach using EPS in building construction can help you.



All Greenhouse Gas emissions associated with printing this product have been offset.

This product is 100% Carbon Neutral



www.rmax.com.au

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# ThermaAdvantage™



## FOIL FACED INSULATION BOARD



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**ThermaAdvantage™** is an internationally accepted expanded polystyrene (EPS) thermal insulation system. By combining the outstanding thermal characteristics of EPS with the high reflectivity and low emissivity of foil, ThermaAdvantage™ provides superior levels of insulation comfort with reduced heating and cooling cost. At the same time ThermaAdvantage™ provides enhanced levels of severe weather protection. All of this can be achieved without increasing the thickness of insulation.

The EPS cavity wall insulation system is one of a select group of insulation systems that meets the CSIRO Division of Building Research recommended specifications relating to wind driven rain.

ThermaAdvantage™ gives you a continuous insulation membrane by covering studs and noggins. These can occupy around 15 percent of a wall area. This large proportion of wall, when uninsulated, (as is the case with conventional between stud insulation) promotes heat loss and gain, while creating other related problems such as dust encroachment into the interior living spaces.

In addition to providing superior insulation quality and enhanced security from severe weather over the life of the building, ThermaAdvantage™ can provide real benefits during construction by giving an early weatherproof envelope to allow internal trades to commence work prior to completion of the external finish.

ThermaAdvantage™ has been awarded accreditation by the Building Regulation Advisory Committee.

### Easy and safe to install

ThermaAdvantage™ EPS boards are lightweight, clean and easy to cut or shape on site with a knife or handsaw.

ThermaAdvantage™ does not irritate the skin or give off any harmful fibres or gases. It does not provide a food source or host environment for insects, vermin or bacterial growth, nor does it rot or decay.

ThermaAdvantage™ panels are quickly fixed to the stud using Pryda board fixers located on every stud horizontally and positioned at 600mm centers vertically.

Once fixed in place the joints are then sealed with an RMAX approved joining tape.



### Long term R values

EPS stands out among insulation products due to its superior thermal insulation quality. EPS performance does not deteriorate with age due to its cellular structure which contains only stabilised air.

The performance of EPS is further enhanced by its low moisture vapour transmission rate, its dimensional stability and non-sagging characteristics.

As a result ThermaAdvantage™ can provide "as new" insulation protection for the life of the building.

### High moisture resistance

Of all the materials used for insulation EPS is one of the most resistant to the adverse affects of moisture. Even when force saturated to moisture content ten times its dry weight, EPS has been found to retain 80 percent of its R value.

### Breatheability

Even with the low water vapour transmission characteristic of EPS, EPS is not a water barrier. EPS breathes and does not trap water within walls. As a result ThermaAdvantage™ does not require costly venting, as do other impermeable insulation materials.

### Resistance to freeze-thaw cycling

ThermaAdvantage™ is able to withstand the effects of freeze-thaw cycling, thereby assuring long-term performance in low temperature climates.

Core specimens of EPS removed from freezer walls in place for 20 years demonstrated that ThermaAdvantage™ can withstand long-term freeze-thaw cycling without loss of its structural integrity or any physical property.

