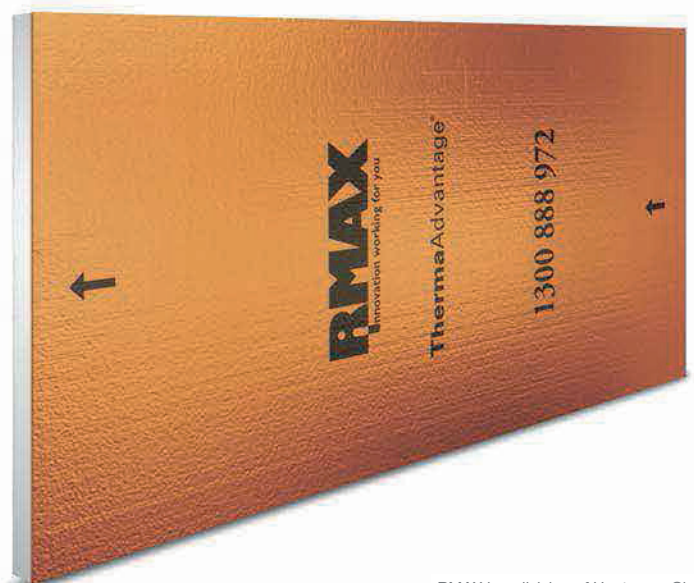


Conserve Energy and Save Costs with RMAX **ThermaAdvantage**®

Enhanced foil faced EPS rigid insulation panel for walls, roofs and floors.

- ✓ Safe Environmental Expanded Polystyrene (EPS).
- ✓ Fully BCA compliant for Class 1 and 10 building construction.
- ✓ Increases energy efficiency.
- ✓ Decreases energy bills.
- ✓ Long-life, non-degradable.
- ✓ Safe to handle, easy to install.
- ✓ Lightweight.
- ✓ Earlier weather proofing of building envelope.



Available in four thicknesses and two sheet sizes:

Sheet thicknesses: 10mm, 15mm, 20mm or 25mm

Sheet sizes: 2500mm x 1200mm or 2700mm x 1200mm

RMAX is a division of Huntsman Chemical
Company Australia Pty. Limited
ABN 48 004 146 338

HUNTSMAN
Enriching lives through innovation

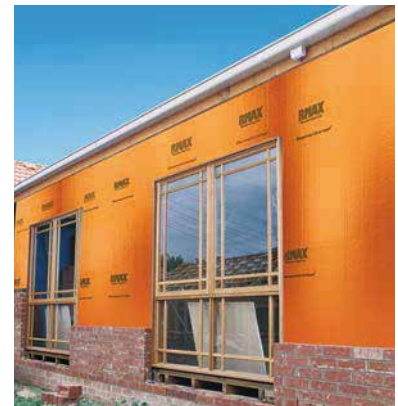
RMAX **ThermaAdvantage**® is a foil backed expanded polystyrene (EPS) board suitable for use as an internal wall, floor or ceiling lining insulation in **class 1 and 10 buildings**. It is an effective combination of proven RMAX EPS insulation with the addition of reflective foil backing.

RMAX **ThermaAdvantage**® Foil faced rigid insulation panels provide superior levels of insulation while reducing heating and cooling costs. It combines the outstanding thermal characteristics of EPS, with the high reflectivity and low emissivity (see explanation below) of aluminium foil producing a cost effective, space saving insulation product.

Unlike conventional 'between stud' insulation, RMAX **ThermaAdvantage**® provides a continuous insulation membrane by completely covering studs and noggins, which can occupy up to 15% of the total wall area. This large proportion of wall area when uninsulated, promotes heat loss and gain, while creating other related problems such as dust encroachment into the interior living spaces.

RMAX **ThermaAdvantage**® provides enhanced levels of protection and security from severe weather over the entire lifetime of the building and meets the requirements of the AS/NZS 4859:1 2018 standard for rigid insulation.

In addition to its insulative qualities, RMAX **ThermaAdvantage**® can provide real benefits during construction by providing an early weather proof building envelope allowing internal trades to commence work prior to completion of the external finish. This helps to reduce overall construction times.

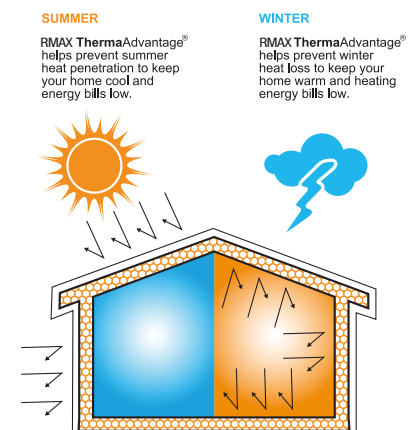


Emissivity and Reflectivity

Emissivity is the amount of radiant heat energy emitted or radiated from the surface. The lower the emissivity value the greater the insulation protection from radiant energy transfer.

Reflectivity is the ability a surface has to reflect radiant heat energy. The higher the reflectivity, the less potential a material has to absorb radiant heat. Thus less heat is conducted through its mass and emitted or re-radiated through the opposite side.

Combining the low thermal conductivity of RMAX EPS with the reflective properties of aluminium foil, RMAX **ThermaAdvantage**® significantly reduces heat transfer through walls, floors and ceilings.



FEATURES	BENEFITS
Thermal performance.	Provides superior levels of insulation comfort with reduced heating and cooling costs. Insulates up to 15% more area by covering framing studs and noggins thus reducing thermal leakage and increasing overall insulation efficiency.
Complete wall cover.	Enhances insulation characteristics, reduces dust encroachment. Provides an early weatherproof envelope to the structure.
RMAX Environmental EPS.	Enhances R values of the structure. Low environmental footprint.
Long term R values.	Provides “as new” insulation for the life of the structure. Doesn't settle over time.
Thin, lightweight panels.	Saves space without loss of insulation qualities. Easy to handle and install.
Easy to install.	Can be easily cut to shape with knife or hand saw.
Safe to use.	Non-irritant, inert and does not contain harmful gases.
Neutral environment.	Does not promote bacterial growth or provide a food source for insects or vermin.
Moisture resistant.	Retains its R value even under the most severe conditions.

Easy to Install.

RMAX **ThermaAdvantage**® rigid insulation panels are lightweight, clean and easy to cut to shape on site using a knife or handsaw. The panels can be quickly fixed to the stud using Pryda board fixers located on every stud horizontally and positioned at 600mm centres vertically. Once fixed in place, the joints are then sealed with an RMAX approved joining tape.

Safe.

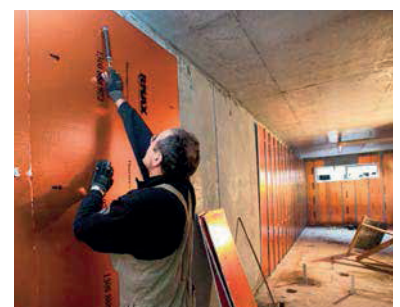
RMAX **ThermaAdvantage**® is made from inert EPS and does not irritate the skin like some fibreglass insulation products can. It does not provide a food source or host environment for insects, vermin or bacterial growth, nor does it decay or rot.

Long term R values.

RMAX **ThermaAdvantage**® stands out due to its superior thermal insulation qualities. Insulation performance does not deteriorate with age due to its rigid cellular structure, which contains only stabilised air. RMAX **ThermaAdvantage**® provides ‘as new’ insulation protection for the life of the building. Performance is further enhanced by its low moisture vapour transmission rate, dimensional stability and it's rigid nonsagging characteristics.

Moisture Resistant.

The EPS used in the production of RMAX **ThermaAdvantage**® is highly resistant to the adverse affects of moisture. Even when force saturated to moisture content ten times its own dry weight, RMAX EPS has been found to retain up to 80% of its as tested product R value.



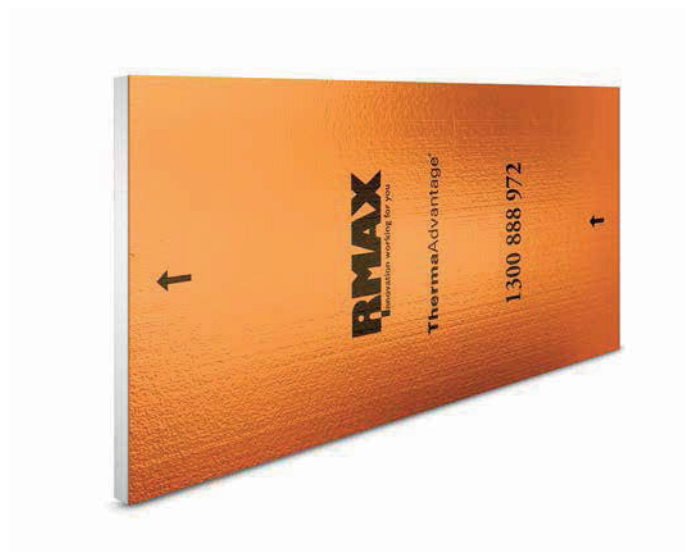
PRODUCT SPECIFICATIONS

Product Specification	TAd10	TAd15	TAd20	TAd25
Reflectance				
Anti-Glare Face	95%	95%	95%	95%
Reflective Face	97%	97%	97%	97%
Emittance				
Anti-Glare Face	E0.05	E0.05	E0.05	E0.05
Reflective Face	E0.03	E0.03	E0.03	E0.03
Sheet Thickness	10mm	15mm	20mm	25mm
Sheet Size (mm)	2500 x1200 2700 x1200	2500 x1200 2700 x1200	2500 x1200 2700 x1200	2500 x 1200
Weight (grams)	767 848	995 1100	1233	1467
Core Density (kg/m³)	13.5	13.5	13.5	13.5
Core	Fire Retardant SL Grade EPS	Fire Retardant SL Grade EPS	Fire Retardant SL Grade EPS	Fire Retardant SL Grade EPS
Anti-Glare	Metal Etching UV Stabilised Spec Formula: 21477	Metal Etching UV Stabilised Spec Formula: 21477	Metal Etching UV Stabilised Spec Formula: 21477	Metal Etching UV Stabilised Spec Formula: 21477
Adhesive	Contact Adhesive Proprietary Formula	Contact Adhesive Proprietary Formula	Contact Adhesive Proprietary Formula	Contact Adhesive Proprietary Formula
Ozone Depleting Substance				
Content	0	0	0	0
Manufacture	0	0	0	0
VOC (volatile organic compound)				
Content	0	0	0	0
Manufacture	<0.8 g/l	<0.8 g/l	<0.8 g/l	<0.8 g/l

Product Testing

Thermal Performance	AS/NZS 4859.1 2018
Surface Corrosion	AS/NZS 4859.1 2018
Thermal Resistance	ASTM C518
Emittance	ASTC-E408
Ignitability	AS 1530.3
Flame Spread	AS 1530.3
Heat Evolved	AS 1530.3
Smoke Developed	AS 1530.3
Rigid Cellular Polystyrene - Moulded	AS 1366.3
Nominal Density	AS 1366.3
Vapour Transmission	AS 2498.5
Dry Delamination	AS/NZS 4201.1 Method 1
Wet Delamination	AS/NZS 4201.1 Method 2
Shrinkage	AS/NZS 4201.1 Method 3
Water Barrier	AS/NZS 4201.4
Sound Transmission Loss	AS 1191-2002

Relevant test reports can be provided upon request.



ThermaAdvantage®

FOIL INSULATED BOARD

AS/NZS 1530.3:1999 - Early Fire Hazard test

Material	Ignitability Index 0-20	Spread of Flame Index (0-10)	Heat Evolved index (0-10)	Smoke Developed Index (0-10)
SL GRADE EPS	7	0	1	4

*Summary of Construction System 'R' Values

System	Ref No.	Application	Product	Winter Heat Flow Out	Summer Heat Flow In
Residential Walls	1	Brick Wall	TAd10*	1.92	1.86
	1	Brick Wall	TAd20*	2.17	R2.1
	2	Cladded Wall-Weather Board	20mm Batten TAd10	1.83	1.77
	2	Cladded Wall-Weather Board	20mm Batten TAd20	2.08	2.01
	3	Double Brick	TAd10*	1.33	1.29
	3	Double Brick	TAd20*	1.59	1.53
Underfloor	4A	Floor Saddle	TAd10*	3.67	1.65
			TAd20*	3.93	1.89
Concrete Systems	5	Wall Single Airspace	28mm Batten TAd10*	1.32	1.25
	5		28mm Batten TAd20*	1.57	1.51
	5		16mm Batten TAd10	1.19	1.17
	5		16mm Batten TAd20	1.45	1.41
	6	Ceiling Single Airspace	28mm Batten TAd10	1.32	1.25
	6		28mm Batten TAd20	1.57	1.51
	7	Wall Dual Airspace	28mm Batten TAd10*	1.88	1.82
	7		28mm Batten TAd20*	2.13	2.06
	7		16mm Batten TAd10	1.80	1.75
	7		16mm Batten TAd20	2.13	2.06
	8	Ceiling Dual Airspace-90mm air gap	28mm Batten TAd10	1.51	2.51
	8	-90mm air gap	28mm Batten TAd20	1.76	2.66

Physical Property	Units	Product Spec.	Performance
Weighted Sound Reduction Index (Rw)	dB (Decibels)	15mm Thick SL Grade ThermaAdvantage®	Rw=8dB

* NOTE:

Perceived Change in Decibel Level

Change in Sound Level	Perceived Change to the Human Ear
± 1db	Not Perceptible
± 3db	Threshold of Perception
± 5db	Clearly Noticeable
± 10db	Twice (or Half) as Loud
± 20db	Fourfold (4x) Change

For verification of the RMAX calculated results, please consult your RMAX sales representative.

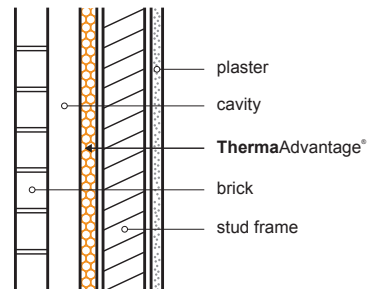
The product and system R-values published in this brochure are based on determinations derived from AS/NZS 4859.1:2018, material for Thermal Insulation of buildings system R-value calculations incorporating dust assumptions of AS/NZS 4859.1:2018. Total R-values are for the insulation path only and include indoor and outdoor air films. The quoted system R-value results have been independently verified as per the requirements of AS/NZS 4859.1:2018.

APPLICATION TIPS

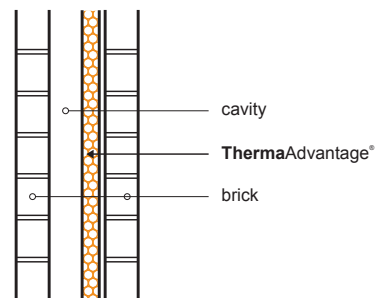
RMAX ThermaAdvantage® panel is quick and simple to install. It can be fastened using a combination of self drilling screws, washers, aluminium tape and/or adhesive for a secure and permanent fix. Its lightweight construction and ease of workability means it is suitable for virtually every kind of building and construction method in class 1 and 10 building applications.

RMAX ThermaAdvantage® panel is not suitable and cannot be applied in any class 2 to 9 commercial building constructions.

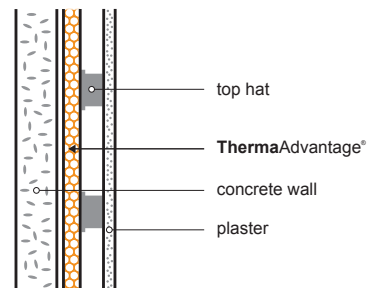
BRICK VENEER



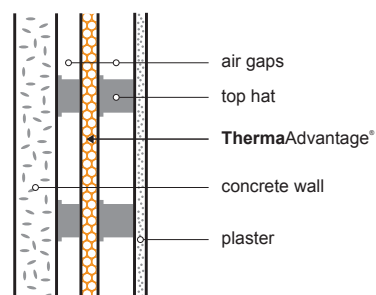
DOUBLE BRICK



PRE CAST or CONCRETE WALL DIRECT FIX

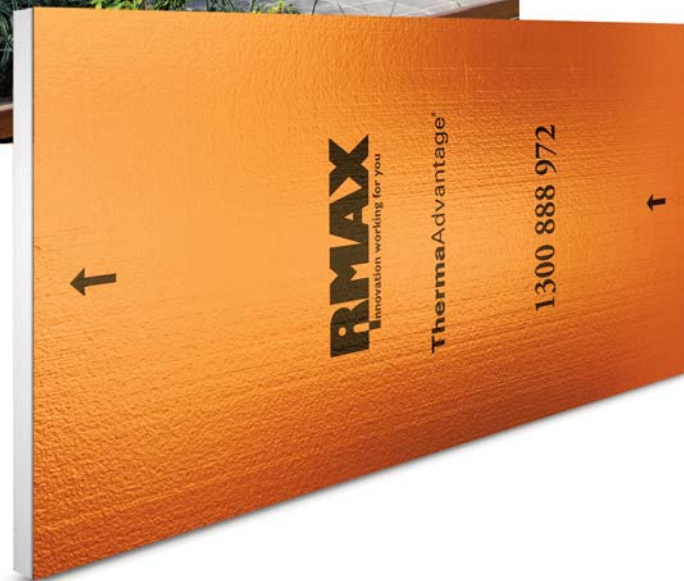


PRE CAST or CONCRETE WALL DIRECT FIX WITH SPACER

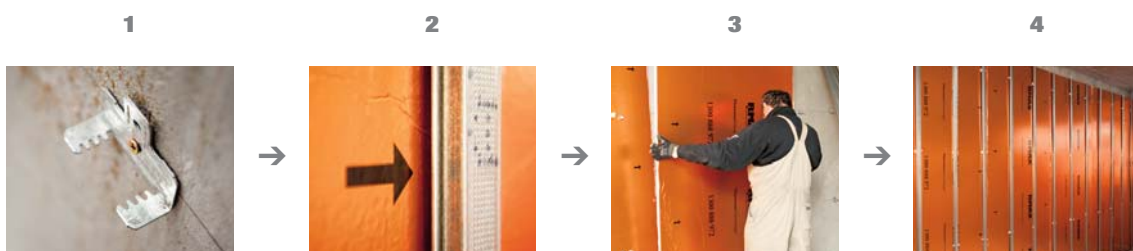


ThermaAdvantage[®]

FOIL INSULATED BOARD



As simple as;



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 its production.

The effective application of EPS insulation can cut carbon dioxide emissions by up to 50%. The energy used in its manufacture is recovered within approximately 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 are used in its manufacture.

RMAX promotes the use of EPS, with its 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).

Energy Efficient Manufacture

The manufacture of EPS is a low pollution process. There is no waste in production as all off cuts or rejects are re-used or recycled.

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.

Other innovative products from RMAX are ThermaSlab™ and ThermaProof™. For details on these and other products in our range, visit www.rmax.com.au.

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.

Developed in Australia. Made in Australia.

RMAX ThermaAdvantage® has been developed in Australia by RMAX specifically for Australian conditions and to meet the stringent Australian Building Codes in all states. It is manufactured in RMAX plants around Australia in controlled production processes to maintain consistent quality.



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