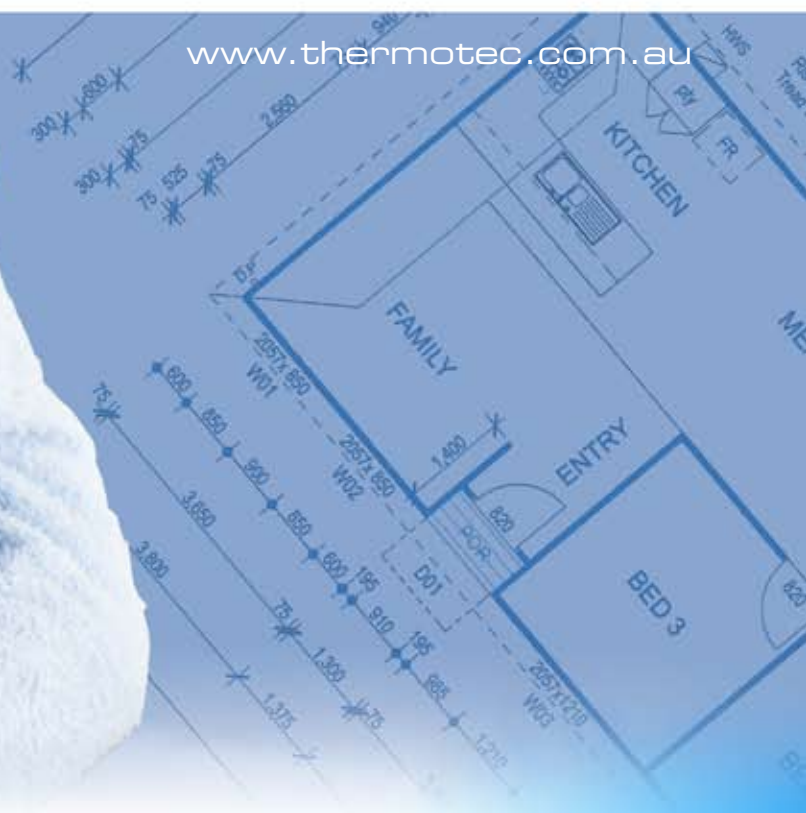




E-therm  
INSULATION



[www.thermotec.com.au](http://www.thermotec.com.au)



## Insulation has E-Volved!



- > Safe
- > Ecofriendly
- > 100% Australian

Call: 1300 727 083  
[www.thermotec.com.au](http://www.thermotec.com.au)



 australia pty ltd.  
**thermotec**



## Features Checklist

### INSULATION PERFORMANCE

Radiant barrier	Yes
Conduction barrier	Yes
Moisture barrier	Yes
Draft barrier	Yes
Good in tropical-humid climates	Yes
Moisture resistant	Yes
Effective acoustic barrier	Yes



E-therm™ has been independently tested by Australian Hearing National Acoustic Laboratories, an accredited and recognised Australian testing authority.

**E-therm™ insulation (8mm) on its' own achieves a STC 12 giving up to 12dB sound reduction to help minimise rain, aircraft and traffic noise. This is one of the highest acoustic ratings amongst reflective insulation products.**

### RESISTANT TO

Most chemicals	Yes
Mould and fungus	Yes
Rodents	Yes
Dust entrapment	Yes



### HEALTH AND SAFETY

Fibre free	Yes
Allergy free	Yes
Anti glare	Yes
Formaldehyde free	Yes



### APPLICATIONS

Roofs	Yes
Walls	Yes
Sub-floors	Yes
Shed lining	Yes
Self supporting	Yes (semi rigid)



### ENVIRONMENT

Recyclable/Reusable	Yes
Made using recycled foam materials	Yes
In-house recycle facility	Yes
Foam contains no CFC's or HCFC's	Yes
Energy Efficient	Yes
Australian Made	Yes



### By choosing E-Therm you put the environment FIRST.

E-therm is Greenstar and Basix compliant in that it meets International ODP-EMI9 requirements. This means there are no ozone depleting substances used in either the manufacturing process or the composition of the actual product.

E-therm also contributes to reducing its' own carbon footprint, by utilizing an in house recycling facility, and incorporating up to 80% recycled foam content in the manufacture of the product.



E-Therm's energy efficient products greatly reduce cooling and heating costs helping achieve the 5 Star Energy Rating, lowering greenhouse gas emissions.

E-Therm is Australian made not transported from overseas, a further reduction in harmful greenhouse gas emissions.

By choosing E-Therm you are maximizing both energy saving & environmental benefits for the whole life of the building, which will not only benefit the planet but also create long term energy cost saving solutions for you!

## E-therm™ saves you more with cost effective overlap piece

Did you know in most cases you are paying for more product than you actually need?

When installing other similar products, in most cases you are required to overlap the product, causing a loss of around 3m<sup>2</sup> every roll. This means you need to purchase an extra 10% of product than the square metres actually required on your job.



Now with E-Therm's solution the overlap is provided for you, gone are the days of buying 30m<sup>2</sup> but only getting 27m<sup>2</sup> coverage. Using E-Therm's unique overlap piece gives an extra 10% coverage on every roll, so when you buy 30m<sup>2</sup> of E-Therm you get 30m<sup>2</sup> coverage.

Greater coverage per roll means less rolls per job, less labour, less transport cost and less storage costs.

**This all adds up to further cost savings for you!**





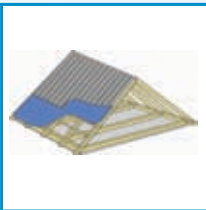
## Indicative R-Values

6.5mm thermal performance - deduct R0.05 - in most cases the same as 8mm

### Metal Roof

Pitched Metal Roof with Flat Ceiling  
Ventilated

R-Value	Heat In	Heat Out
5mm	R2.7	R1.2
8mm	R2.8	R1.3



E-THERM UNDER METAL OVER BATTEN

### Tile Roof

Pitched Tile Roof with Flat Ceiling  
Ventilated

R-Value	Heat In	Heat Out
5mm	R2.7	R1.4
8mm	R2.8	R1.5



E-THERM UNDER TILES UNDER BATTEN

### Commercial Roof

5° Metal Roof with Ceiling

R-Value	Heat In	Heat Out
5mm	R3.2	R1.4
8mm	R3.3	R1.5

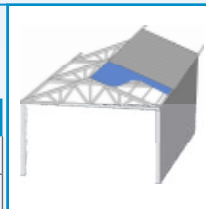


E-THERM UNDER METAL OVER BATTEN

### Commercial or Shed Roof

5° Metal Roof with no Ceiling

R-Value	Heat In	Heat Out
5mm	R1.9	R0.8
8mm	R2.0	R0.9

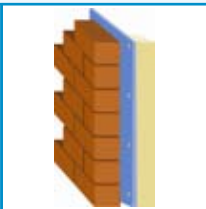


E-THERM UNDER METAL OVER BATTEN

### Brick Veneer Wall

110mm brick  
10mm Plasterboard

R-Value	Heat In	Heat Out
5mm	R2.0	R2.0
8mm	R2.1	R2.1

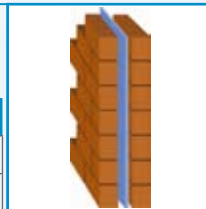


BRICK VENEER, E-THERM TO OUTSIDE OF FRAME

### Double Brick Wall

110mm brick  
110mm brick

R-Value	Heat In	Heat Out
5mm	R2.0	R2.0
8mm	R2.1	R2.1



DOUBLE BRICK, E-THERM IN MIDDLE OF CAVITY

### Cladded Wall

Cladding  
10mm Plasterboard

R-Value	Heat In	Heat Out
5mm	R1.8	R1.7
8mm	R1.9	R1.8

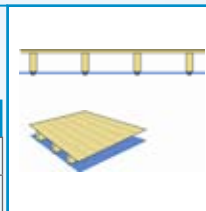


E-THERM BEHIND CLADDING

### Timber Floor

19mm Timber Floor  
Unventilated

R-Value	Heat In	Heat Out
5mm	R1.1	R2.7
8mm	R1.2	R2.8

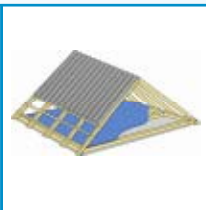


E-THERM UNDER FLOOR JOISTS

### Metal Roof Retrofit Ceiling

Pitched Metal Roof with Flat Ceiling  
Ventilated

R-Value	Heat In	Heat Out
5mm	R3.2	R1.2
8mm	R3.3	R1.3



METAL ROOF E-THERM OVER CEILING JOISTS VENTILATED

### Commercial Roof Retrofit

5° Metal Roof Retrofit  
No Ceiling

R-Value	Heat In	Heat Out
5mm	R3.0	R1.2
8mm	R3.1	R1.3



METAL ROOF E-THERM UNDER PURLINS RETROFITTED

## E-therm™ Insulation - the ORIGINAL innovation for thermal break

The Building Code of Australia requires a thermal break in steel framed walls and roof construction.

To reduce thermal bridging on walls a minimum thermal break of R0.2 is required between the steel frame and wall cladding. On roofs this R0.2 thermal break is required between the steel frame and metal roof if there is no ceiling, or the ceiling is also attached to the underside of the frame.

E-Therm's 6.5mm and 8mm products meet or exceed the BCA's requirement for steel framed construction, making E-Therm the all-in-one solution for:

**Thermal break, Insulation, Vapour Barrier  
and Acoustic Barrier**



## Technical Specifications

Specification	Standard	Rating
Emissivity	ASTM E 408-71	Silver 0.03 Antiglare 0.06
Thermal Break (Thermal Resistance)	ASTMC518	5mm RO.16 6.5mm RO.20 8mm RO.25
Thermal Performance	AS/NZS 4859.1	Compliant
Flammability Index	AS/NZS 1530 Part 2	≤5 Pass
Ignitability Index	AS/NZS 1530 Part 3	0 Pass
Spread of Flame Index	AS/NZS 1530 Part 3	0 Pass
Heat Evolved Index	AS/NZS 1530 Part 3	0 Pass
Smoke developed Index	AS/NZS 1530 Part 3	0 Pass
Oxygen Consumption	AS/NZS 3837	Group One Rating
Toxic Fume Performance	BS 6853	Non Toxic Pass
Airborne Sound Performance	AS 1191	STC 12 Rw (12dB reduction)
Vapour Barrier Performance	AS/NZS 4200	Medium
Duty Rating - Extra Heavy Duty	AS/NZS 4200	2.4mtr span (without product support mesh)
Edge Tear Test	AS/NZS 4200	Pass
Dry Delamination	AS/NZS 4200	Pass
Wet Delamination	AS/NZS 4200	Pass
Water Penetration	AS/NZS 4200	Pass
Shrinkage	AS/NZS 4200	Pass
Compression Recovery	ASTM D 545-84	95%
Load Bearing	ASTM D 545-84	10Kn

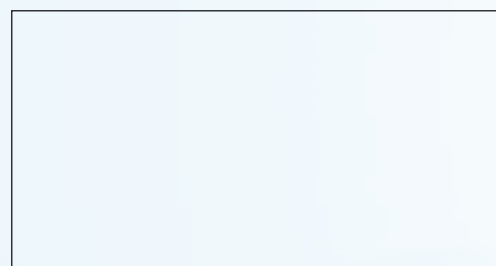
## Product Dimensions

Ethern 5mm		
Thickness	5mm	Nominal
Length	22.25mtr	30m² cover per roll, plus overlap piece
Width	1.35mtr	
Weight	13Kg	Approximate Weight
Ethern 6.5mm		
Thickness	6.5mm	Nominal
Length	22.25mtr	30m² cover per roll, plus overlap piece
Width	1.35mtr	
Weight	15.5Kg	Approximate Weight
Ethern 8mm		
Thickness	8mm	Nominal
Length	22.25mtr	30m² cover per roll, plus overlap piece
Width	1.35mtr	
Weight	18Kg	Approximate Weight



**E-therm**  
INSULATION

## Distributed by



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