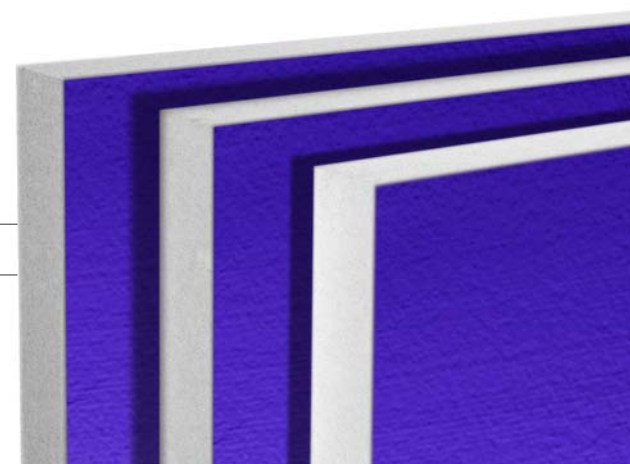


THERMAL INSULATION THAT WORKS:

*... rain, hail or shine!*

Rigid Panel EPS Insulation for:

- RESIDENTIAL
- COMMERCIAL
- UNDERFLOOR



## 12 GOOD REASONS to choose Cool Foil Rigid Panel Insulation

- Thermally efficient
- Acoustically effective
- Weatherproof
- Fire Retardant
- Easy to install
- Lightweight
- Save on Energy Costs
- Economic EPS
- Rigid-No Sag
- Will not delaminate
- Earlier Lock-up
- Safe to Handle



Available in 2 sheet sizes:

SHEET SIZES:

2440<sub>mm</sub> x 1200<sub>mm</sub>  
2700<sub>mm</sub> x 1200<sub>mm</sub>

THICKNESSES

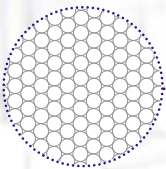
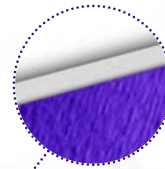
Eco Range: Eco<sup>10</sup> 10<sub>mm</sub>, Eco<sup>15</sup> 15<sub>mm</sub>,  
Eco<sup>20</sup> 20<sub>mm</sub>, Eco<sup>25</sup> 25<sub>mm</sub>.

High Density: HD 50<sub>mm</sub>, HD 65<sub>mm</sub>

Can also be customised to size to achieve R-Value

### HIGH GRADE REFLECTIVE FOIL

Industrial grade reflective foil is permanently adheres to the EPS panel and enhance over all insulation efficiency. The distinctive deep purple colour minimises glare and eye fatigue during installation.



### EPS CELLS

Expanded Polystyrene (EPS) beads are bonded together to form a unique cellular structure that resists the conduction of thermal energy. The cellular structure traps air between the beads, repels moisture and makes EPS a lightweight, highly efficient thermal insulator.

### HIGH DENSITY RANGE (HD)

The HD Range has been specifically designed for applications requiring thicker and denser panels. This is achieved by significantly increasing the number of EPS beads per cubic meter to achieve higher R-Value.



### NO-DAMAGE DELIVERY

Every Cool Foil order is meticulously wrapped and securely bound onto a 100% re-cycleable cardboard pallet to ensure that all deliveries are protected in transit and will arrive safely on-site undamaged.



## Cool Foil Rigid Panel Insulation

Cool Foil insulation panels are a durable, economical and highly effective thermal insulator that has been specifically designed to protect Australian residential homes and commercial buildings from the extreme weather conditions and temperature fluctuations commonly experienced throughout the country.

Each panel is made from minute Expanded Polystyrene (EPS) beads that have been bonded together under extreme heat and pressure to form a rigid, lightweight and waterproof material that is resistant to the conduction of thermal energy. An additional commercial grade reflective foil is adhered to each panel to enhance it's overall insulation characteristics that make it ideal for modern Australian buildings.



Rigid Panel EPS Insulation for:

RESIDENTIAL

COMMERCIAL

UNDERFLOOR

### Tough, Versatile, Economical

Cool Foil is a tough insulation material that will not sag, degrade or succumb to mould, insect attack or extreme weather conditions. It is the ideal insulation choice for:

- Walls, Ceiling and Under Floor
- Residential homes; new or retro fit
- Apartment buildings and Townhouses
- Commercial Offices
- Industrial units and Factories

Cool Foil is light to lift and manoeuvre around work sites and can be cut and trimmed to fit virtually any shape. The rigid flat panel design assists overall structure strength and provides an ideal early weatherproof shield that allows other trades to start work without the need to wait for brick work to be completed.

It is a proven and popular insulation material that is widely used around the world. It's low unit cost and ease of installation make Cool Foil EPS panels a highly sought after and preferred insulation material compared to many other alternatives.



### R Value Reference

System	Application	Product	Heat Flow Out (Winter)	Heat Flow In (Summer)
Residential	Brick Veneer	Eco 20mm	R2.4	R2.1
		Eco 15mm	R2.3	R2.0
		Eco 10mm	R2.1	R1.8
	Cladded Wall 20mm batten	Eco 20mm	R2.0	R2.0
		Eco 10mm	R1.8	R1.8
		Eco 20mm	R2.1	R2.0
Under Floor	with saddle	Eco 15mm	R2.6	R1.3
		Eco 10mm	R2.2	R1.2
		Eco 20mm	R1.7	R1.3
	with double air space 28mm batten	Eco 15mm	R1.5	R1.4
		Eco 10mm	R1.4	R1.2
		Eco 20mm	R2.2	R2.1
Concrete	Concrete floor with 28mm batten	HD 50mm	R3.4	R2.0
		HD 65mm	R3.0	R2.4
		HD 50mm	R2.5	R2.0
	Concrete floor direct fixes	HD 65mm	R3.0	R2.4
		Eco 20mm	R1.9	R3.9
		Eco 15mm	R1.6	R3.7
Ceiling	Factory iron clad	Eco 20mm	R1.9	R3.9
		Eco 15mm	R1.6	R3.7

Call your local distributor now!

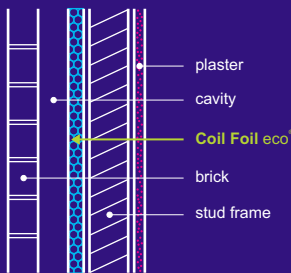


\*The R values listed have been verified in accordance with AS/NZS 4859.1:2002/Amdt 1 2006. Other R values in this table are based on Cool Foil's calculations. For verification of the Cool Foil calculated results please consult your Cool Foil sales representative. The values published are based on determinations derived from AS/NZS 4859.1:2002/Amdt 1 2006. Material for Thermal Insulation of buildings and the Australian Institute of Refrigerations Air-Conditioning & Heating (AIRAH) Handbook (2007 Edition). Calculations incorporate dust assumptions of AS/NZS 4859.1:2002/Amdt 1 2006. Total R values are for the insulation path only and include indoor and outdoor air films. Cavity air space insulation values were estimated using Reflect 3 software using infra-red emmittances e1 and e2 and defined air gaps. The results have been independently verified as per the requirements of AS/NZS 4859.1:2002/Amdt 1 2006.

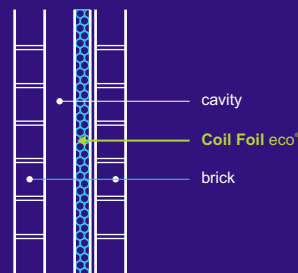
## COOLFOIL eco

Product Specification	eco10	eco15	eco20	eco25
<b>Sheet Thickness</b>	10mm	15mm	20mm	25mm
<b>Sheet Size (mm)</b>	2440 x 1200	✓	✓	✓
	2700 x 1200	✓	✓	✓
<b>Core</b>	Fire Retardant EPS	✓	✓	✓
<b>Reflective Surface</b>	100% Reflective Aluminium			
	Reflectance 97%	✓	✓	✓
Emittance	E0.03	✓	✓	✓
<b>Anti-Glare</b>	TBA Purple UV Ink			
	Reflectance 95%	✓	✓	✓
Emittance	E0.05	✓	✓	✓
<b>Adhesive</b>	Approved Proprietary Formula	✓	✓	✓
<b>Vapour Transmission</b>	(max) ug/m <sup>2</sup> s Nil	✓	✓	✓

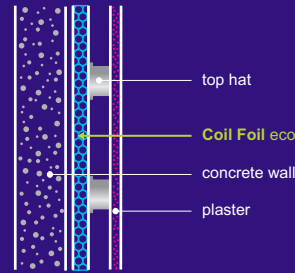
Product Testing	
<b>Thermal Performance</b>	AS/NZS 4859.1
<b>Thermal Resistance</b>	ASTM C518
<b>Emittance</b>	ASTM-E408-71
<b>Ignitability</b>	AS 1530.3
<b>Flame Spread</b>	AS 1530.3
<b>Heat Evolved</b>	AS 1530.3
<b>Smoke Developed</b>	AS 1530.3
<b>Rigid Cellular Polystyrene - Moulded</b>	AS 1366.3
<b>Cone Calorimeter</b>	AS/NZS 3837
<b>Vapour Transmission</b>	AS 2498.5
<b>Delamination</b>	AS/NZS 4201.1



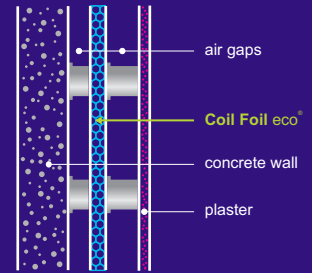
**BRICK VENEER**



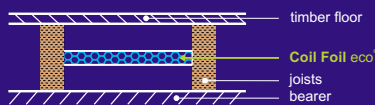
**DOUBLE BRICK**



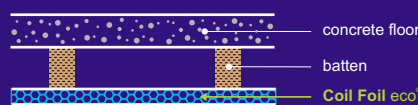
**CONCRETE WALL DIRECT FIX**



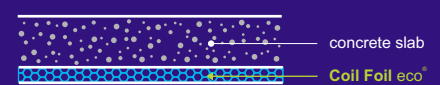
**CONCRETE WALL WITH DOUBLE SPACER**



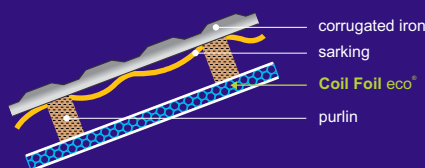
**UNDERFLOOR TIMBER**



**UNDER FLOOR CONCRETE**



**UNDER CONCRETE DIRECT FIX**



**COMMERCIAL FACTORY ROOF**