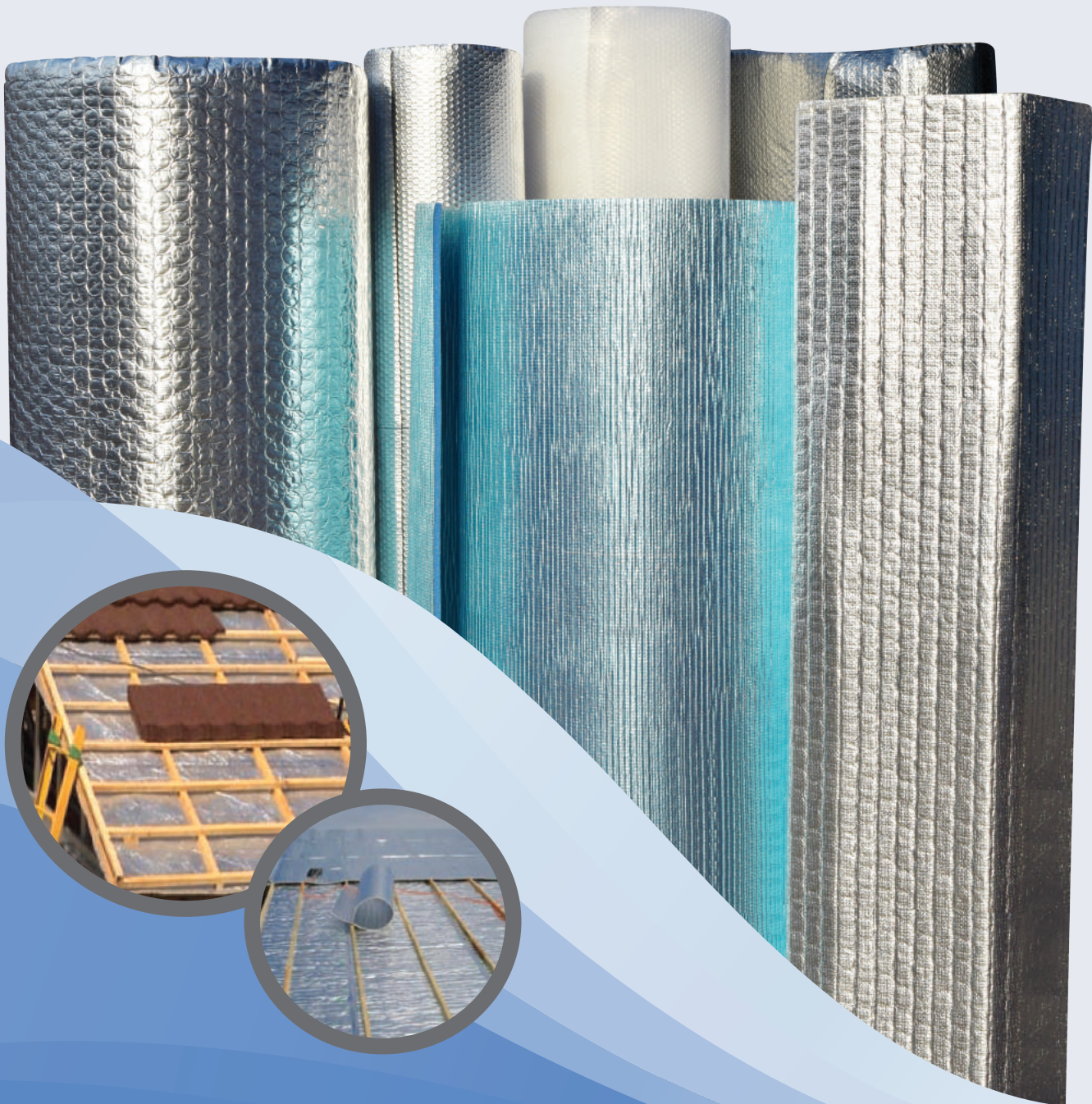


AEROFOAM[®]

REFLECTIVE INSULATION

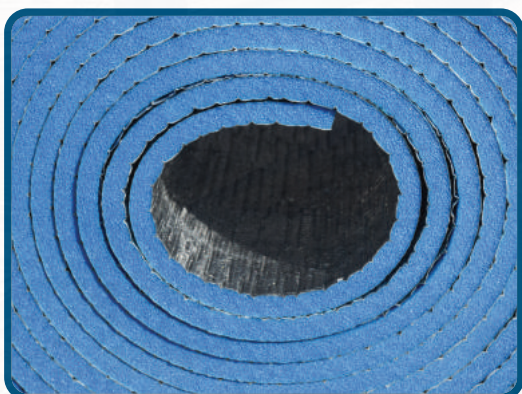


AEROREFLECT INSULATION-FOAM

Product Description:

AeroReflect Foam Insulation is a closed cell, cross-linked foam core between extra heavy duty reflective reinforced aluminium foil laminates. Foam core is a high quality foam product suitable for use in a roof, wall and floor applications. It reduces up to 97% of the sun's radiant heat, minimizes the risk of condensation and acts as an effective water and vapour barrier when installed correctly.

Foam core multipurpose incorporates a 150 mm overlap along one side edge to maximize coverage, minimize wastage and allow for sealed edge protection to improve aesthetics in exposed applications. An anti-glare coating is applied to one side of the product to reduce the level of glare experienced during installation.

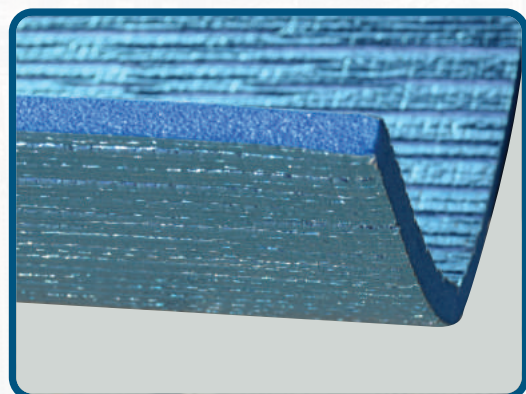


Product Construction:

AeroReflect Foam Insulation is made with aluminium foil laminated with reflectivity of 95% and emissivity of 0.05 to one side and 97% reflectivity and emissivity of 0.03 to the other, which complies with ASTM Standard E 408. Core are made of 8, 7, 6.5 & 4 mm of chemically cross-linked, closed-cell XLPE foam.

AEROFOAM uses Advanced Laminating Technology for the polymer adhesive remains tacky for an indefinite period and provides superior resistance to heat, fire and delamination.

- Highly effective in dampening noise.
- Fibre-free and non allergenic.
- Water resistant, fire resistant.
- Corrosion resistant



AEROREFLECT INSULATION-FOAM

Technical Specification:

| Test name | Standard | Values/Assessment |
|--|--------------------|--|
| Flammability index | AS 1530.2:1993 | Zero |
| Fire test | AS 1530.3:1999 | Ignitability index : Zero Spread of flame index: Zero Heat evolved index: Zero Smoke developed index: one |
| Material thermal resistance | ASTM C518 | R0.22 |
| Emissivity | ASTM E408 | E0.03 shiny, E0.05 for anti-glare |
| Duty | AS/NZS 4200.1:1994 | extra heavy |
| water vapor transmission | AS/NZS 4200.1:1994 | Medium |
| Resistance to dry delamination | AS/NZS 4201.1 | Pass |
| Resistance to wet delamination | AS/NZS 4201.2 | Pass |
| Pliable building membranes and underlays-shrinkage | AS/NZS 4201.3:1994 | 0.20% |
| surface water absorbency | AS/NZS 4201.4:1994 | un classified |
| Resistance to water penetration | AS/NZS 4201.4:1994 | High |
| California bearing ratio(CBR) | AS 3706.4:2012 | 1.1 kN |
| Resistance to surface corrosion | AS/NZS 4859.1:2002 | Pass |

R values for typical applications: AeroReflect Foam Insulation are met by maintaining the material R-value of R0.2. When it is incorporated into typical construction systems, the following thermal performance can be achieved:

| Construction Type | R-Value | |
|-------------------------|---------|--------|
| | Winter | Summer |
| Metal Roof unventilated | R 1.4 | R 3.7 |
| Metal Roof ventilated | R 1.3 | R 2.8 |
| Metal Roof unventilated | R 1.5 | R 2.4 |
| Tile Roof unventilated | R 1.5 | R 2.4 |
| Commercial Office Roof | R 1.4 | R 4.6 |
| Warehouse Shed Roof | R 1.5 | R 3.2 |
| Warehouse Shed Roof | R 1.0 | R 2.0 |
| Steel Stud Framed Wall | R 1.3 | R 1.1 |

Installation and environmental conditions play the major role in product contribution towards the total system R-value.

AEROREFLECT INSULATION-FOAM

Physical Specifications:

| Nominal thickness | Width | Overlap/flap | Length | Area per roll |
|-------------------|-------|--------------|-----------|----------------|
| mm | mm | Mm | m | m ² |
| 8 | 1350 | 150 | 22.25 | 30 |
| 7 | 1350 | 150 | 22.25 | 30 |
| 6.5 | 1350 | 150 | 22.25 | 30 |
| 4 | 1500 | - | 20 / 6.67 | 30 / 10 |

Notes: Aerofoam reflective insulation products must be kept dry and out of contact with alkaline products.

Compliance:

All the requirements of the National Construction Code and Building Code of Australia for insulation and pliable building membranes are met by AeroReflect Foam Insulation since it complies with AS/NZS 4859.1:2002/Amdt 1:2006 and AS/NZS 4200.1:1994.

Storage:

This product should be stored upright and under cover in a clean, dry place in the pack provided.

Product Specification:

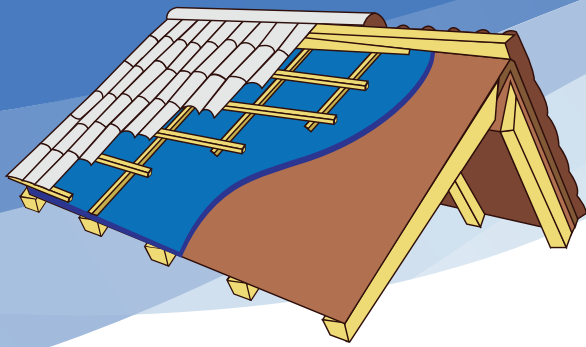
The insulation to be installed shall be AeroReflect Foam Insulation double sided reflective, fibre-free thermo reflective insulation, comprised of cross-linked, closed-cell core XLPE foam with anti-glare foil facing on one side and

and plain foil facing on the other side, thermal resistance R0.2 and 150mm overlap piece included.

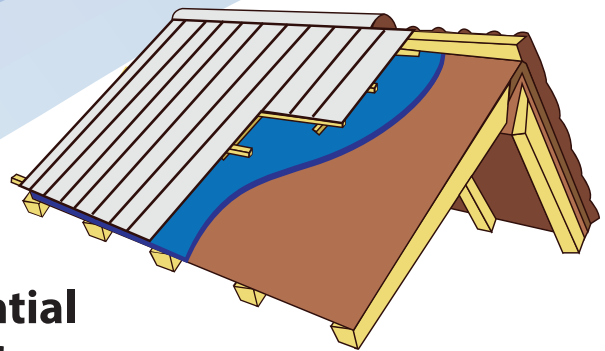
Emittance Bright Side: 0.03, Anti-glare Side: 0.05
Vapour Barrier Classification: Medium
Water Barrier Classification: High
Duty: Extra Heavy in accordance with AS/NZS 4200.1:1994
Corrosion resistance: AS/NZS 4859.1:2002 passed.

Health and safety:

AeroReflect Foam Insulation has assessed. As a result of the assessment, this product is classified as non-hazardous. To reduce risk of UV damage when installing this product, wear protective clothing, safety glasses and sunscreen, and work in the shade wherever practical.

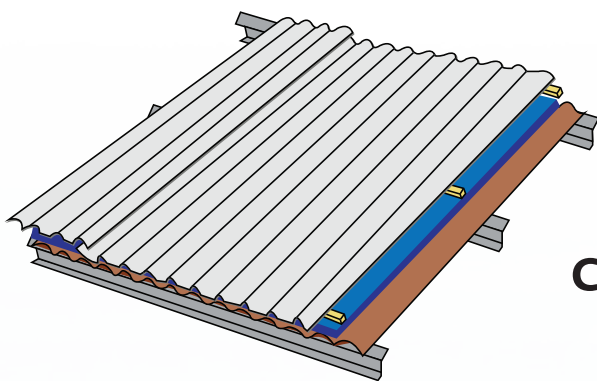


TILE ROOF

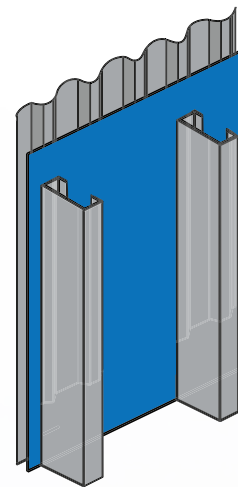


METAL ROOF

Residential Roofs

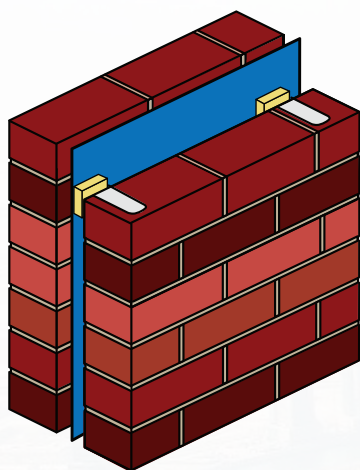


WAREHOUSE SHED

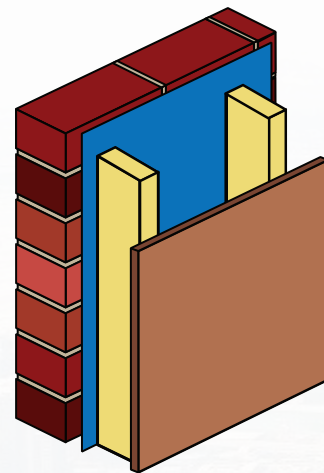


Stud Framed

Commercial Roofs



Double Brick



Brick Veneer

WALLS

Disclaimer: This information on Hira Industries products is presented to the best of our knowledge. All product data is based on average values and is for guidance only. As these products are subject to constant research and development, we reserve the right to update the contents without notice.

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