

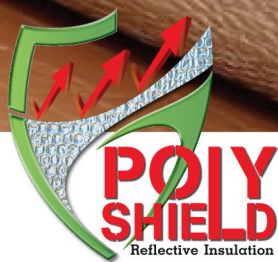
# polyfoam X40

REFLECTIVE INSULATION

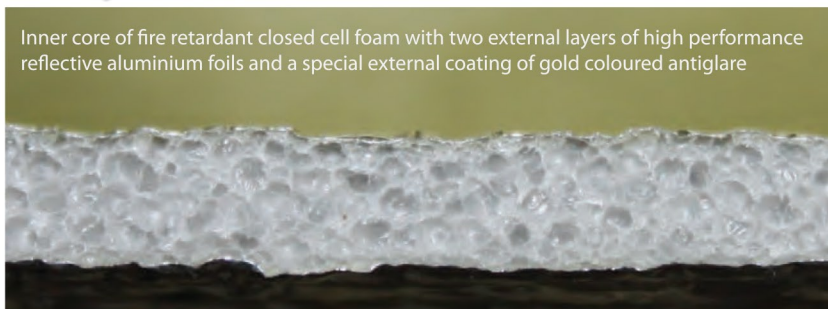
Durable  
Thicker  
Better  
Stronger



- Thermal break compliance for steel framed construction
- Advanced thermal performance reflecting up to 97% of radiant heat flow
- Excellent acoustic performances under metal roof Asssit to eliminate dumping noise
- Complies with the National Construction Code & Building Code of Australia
- Safe - made of Fire Retardant XPE Foam Meets European and Australian Fire
- Delivers safe, easy, cost effective thermal solutions for roofs, ceilings, walls and floors
- Double 18 microns foil + netting structure for extra strength
- Helps to achieve enery stars rating (LEED)
- Water resistant, no moisture retention and fibre free
- Up to 40.5m<sup>2</sup> per roll; reduces handling, storage and transport costs



Inner core of fire retardant closed cell foam with two external layers of high performance reflective aluminium foils and a special external coating of gold coloured antiglare



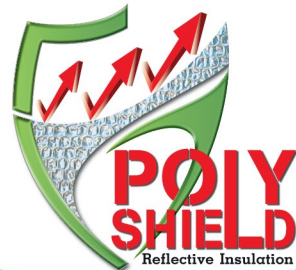
## Specification

|                 |                                 |
|-----------------|---------------------------------|
| Product         | PolyFoam X40                    |
| Thickness       | 4.00mm                          |
|                 | 36.0 & 30.0 m <sup>2</sup> roll |
| Roll Dimensions | 1.20 x 30, 1.35 x 22.23 m       |
| Roll Diameter   | 400 mm, 350 mm                  |
| Roll Weight     | 14.5 kg, 12.0 kg                |

| Product Testing                         | Results                | Test Method               |
|---|------------------------|---------------------------|
| Side 1; Reflective Performance (Gold)   | 95% (E=0.05)           | ASTM-E408                 |
| Side 2; Reflective Performance (Silver) | 97% (E=0.03)           | ASTM-E408                 |
| Material Thermal Resistance             | 0.12m <sup>2</sup> K/W | ASTM C 518                |
| R-Value Calculations                    | James Fricker          | AS/NZS 4859.1/Amdt 1 2006 |
| Third Party Endorsement                 | Dr Yarbrough           | AS/NZS 4859.1/Amdt 1 2006 |
| Dry Delamination                        | PASS                   | AS/NZS 4201.1             |
| Wet Delamination                        | PASS                   | AS/NZS 4859.1 (App I)     |
| Surface Corrosion                       | PASS                   | AS/NZS 4859.1 (App I)     |
| Fire - BCA Classification               | Group 1                | AS/NZS 3837:1998          |
| Fire - Flammability Index               | ≤ 5                    | AS/NZS 1530.2             |
| Fire - Ignitability Index               | 0                      | AS/NZS 1530.3             |
| Fire - Spread of Flame Index            | 0                      | AS/NZS 1530.3             |
| Fire - Heat Evolved Index               | 0                      | AS/NZS 1530.3             |
| Fire - Smoke Developed Index            | 0-1                    | AS/NZS 1530.3             |
| Fire - propagation                      | Class 0                | BS 476 Part 6             |
| Surface Flame Spread                    | Class 1                | BS 476 Part 7             |

Act Smart, Act Green, Use PolyShield™





### Product Description

PolyFoam X40 incorporates a special low-E copper colour antiglare and has an optional reinforcing net to extra strength. It combines a unique layered inner core of fire retardant XPE foam with a second low-E reflective aluminium foil layer.

The external copper antiglare surface reflects 95% of radiant heat, the internal silver surface reflects 97% and the double inner core prevents heat flow transferring from one surface to the next. PolyShield high thermal performance against heat flow provides an excellent energy efficient solution that's easy to install and cost effective.

PolyShield excels in laboratory testing for all mandatory Australian Standards and Building Code of Australia certification benchmarks. PolyShield products have been certified by Ecospecifier and are engineered to comply with the ABGR and Green Star Rating Scheme and avoid the use of azone depleting substances in both manufacture and composition.

### Thermal Performance

| Outdoor temperature   | 36 °C              |
|---|--------------------|
| Roof Systems  | Heat Flow DOWN     |
| Metal Roof ( <i>combo with R2.5 ceiling batts</i><br><i>22° pitch, naturally ventilated, flat ceiling</i> ) | R <sub>T</sub> 5.3 |
| Metal Roof<br><i>5° pitch, naturally ventilated, flat ceiling</i>   | R <sub>T</sub> 3.7 |
| Tiled Roof<br><i>22° pitch, naturally ventilated, flat ceiling</i>  | R <sub>T</sub> 2.7 |
| Metal Roof ( <i>Warehouse/Shed</i> )<br><i>1°-5° pitch, no ceiling</i>                                      | R <sub>T</sub> 2.4 |
| Wall Systems  | Heat Flow IN       |
| Brick Veneer Wall<br><i>With internal lining</i>  | R <sub>T</sub> 2.2 |
| Brick Cavity Wall<br><i>With internal lining (cavity application)</i>                                       | R <sub>T</sub> 2.4 |

The contribution of PolyShield products to a Total R-Value depends on the installation & environmental conditions. The values shown are Total R-Values for the building system, calculated using Reflect 3 computer software validated by James M Fricker M.IEAust M.AIRAH CPEng and are based on installed product service in accordance with AS/NZS 4859.1 : 2002/Amdt 1 2006. Varified by R&D Services Inc. Refer to the PolyShield products tech manual for further details. The information in this brochure is believed to be true at the time of publication. PolyShield C.L.P. reserves the right to change specifications without notice, and have no obligation or liability for the persons misrepresenting or misusing this information in any manner whatsoever.



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