

# LOW-E

## REFLECTIVE INSULATION

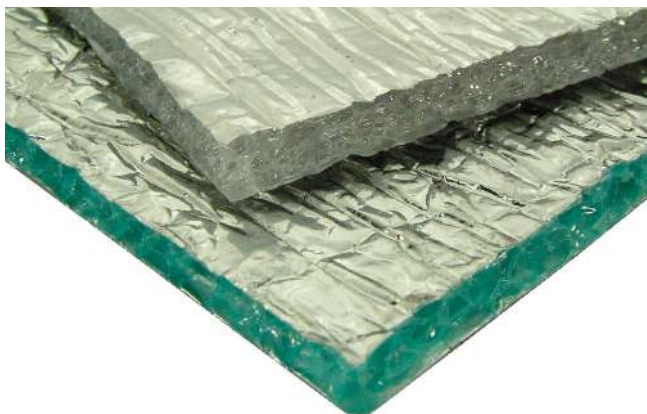


Micro-E™ Insulation is our thinnest ever reflective insulation. Still made using our unique recycled closed cell foam core and pure aluminium facing but at only 3mm thick Micro-E™ is extremely lightweight and easy to handle.

Low-E® Reflective Insulation products act not only as a superior air infiltration barrier, reducing draughts and un-controlled air movement, but it also increases thermal performance by blocking up to 97% of radiant heat. Unlike some other insulation materials that off gases, Low-E® is totally non-toxic and with no fibres and no itching, Low-E® is In-door Air Quality tested and approved. Our closed cell foam core is made from recycled material, it won't absorb moisture, delaminate or corrode. It's virtually rot proof. With no multiple layers Low-E is lightweight, easy to cut, handle and install save considerable labour costs. With a Class A/Class 1 Fire Rating, Low-E® stops heat, deadens sound and provides moisture control all in one product. With one of the lowest carbon footprints of any insulation material Low-E® Reflective Insulation products are the thinnest most effective reflective insulations on the market.

### Product Composition

Facing Material	99.4% Pure Aluminium
Core	Recycled Closed Cell Polyethylene
Facing Material	99.4% Pure Aluminium



Micro-E Insulation provides a thermal break while our pure aluminium facings reflect up to 97% of radiant heat. Micro-E™ can be used in all aspects of construction and regularly utilized in offsite construction and modular building but is particularly well utilized, due to its flexibility, in tents, yurts, sleeping bags, curtains, roman blinds and much more. Micro-E™ can easily be stapled, stitched, nailed or glued.

Micro-E VCL™ – Has foil on two sides, is classified as a Vapour Control Layer and has a Moisture Vapour Transmission Rate (MVTR) of over 2000 MNs/g.

### Low-E® Micro-E - L4EMET

Thickness	3 mm
Roll Width	1250mm
Weight	110 g / m <sup>2</sup>
MVTR	>2000 MN s/g
Air Permeability	Zero - m <sup>3</sup> hr <sup>-1</sup> m <sup>-2</sup> @ 600 Pa

## Technical Information

Product Type	Type 2	EN 16012
Core Conductivity	0.0366 W m <sup>2</sup> K	BS EN 12264
Emissivity	0.05	EN 16012
R-value - Floor (2 Airspaces)	1.85 m <sup>2</sup> K/W	BS EN 6946
R-value - Floor (1 Airspace)	1.05 m <sup>2</sup> K/W	BS EN 6946
R-value - Wall (2 Airspaces)	1.58 m <sup>2</sup> K/W	BS EN 6946
R-value - Wall (1 Airspace)	0.92 m <sup>2</sup> K/W	BS EN 6946
R-value - Pitched Roof (2 Airspaces)	1.34 m <sup>2</sup> K/W	BS EN 6946
R-value - Pitched Roof (1 Airspace)	0.79 m <sup>2</sup> K/W	BS EN 6946

Thermal  
Insulation,  
Air Infiltration and  
Vapour Barrier  
All-in-one



## Additional Testing

Corrosively	Pass
Delamination	Pass
Nail Tear	Pass
Fungi Mould Resistance	No Growth
GWP	Zero