

# LOW-E

## REFLECTIVE INSULATION

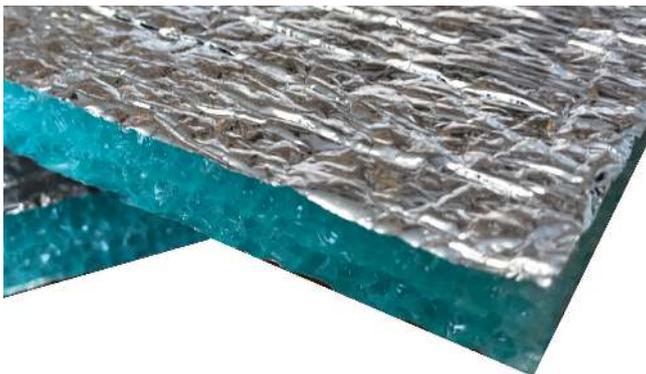


Ultra-E™ Insulation is the thickest version of our reflective insulation. Made using our unique recycled closed cell foam Core™ (White or Green) and pure aluminium facing but it is produced 11mm thick.

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



Ultra-E™ will provide a considerable thermal break and the added thickness greatly reduces noise transmission, while our pure aluminium facings still reflect up to 97% of radiant heat. Ultra-E™ is utilised in the manufacturing industry in the production of Cars, Boats, Motorhomes, Military Vehicles, Fridges, Freezer, Doors and much more

Ultra-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	11 mm
Roll Width	1250mm
Weight	225 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)	2.07 m <sup>2</sup> K/W	BS EN 6946
R-value - Floor (1 Airspace)	1.27 m <sup>2</sup> K/W	BS EN 6946
R-value - Wall (2 Airspaces)	1.80 m <sup>2</sup> K/W	BS EN 6946
R-value - Wall (1 Airspace)	1.14 m <sup>2</sup> K/W	BS EN 6946
R-value - Pitched Roof (2 Airspaces)	1.56 m <sup>2</sup> K/W	BS EN 6946
R-value - Pitched Roof (1 Airspace)	1.01 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