

# LOW-E

## REFLECTIVE INSULATION



Low-E® Reflective Insulation acts not only as a superior air infiltration barrier, reducing draughts and uncontrolled 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 is 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



Low-E® PERF is the ORIGINAL breathable reflective foil insulation. With a Moisture Vapour Transmission Rate (MVTR) of less than 0.25 MN s/g, Low-E PERF is Certified for use in roofs, walls and floors where breathability is required. Low-E® PERF is recommended for use on the external sides of a building envelope or in a loft space over existing insulation.

### Low-E® PERF - L4PFPT

Thickness	5.5mm
Roll Width	1250mm
Weight	150g / m <sup>2</sup>
MVTR	0.11 MN s/g

## Technical Information - EN 16012

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)	1.92 m <sup>2</sup> K/W	BS EN 6946
R-value - Floor (1 Airspace)	1.12 m <sup>2</sup> K/W	BS EN 6946
R-value - Wall (2 Airspaces)	1.65 m <sup>2</sup> K/W	BS EN 6946
R-value - Wall (1 Airspace)	0.99 m <sup>2</sup> K/W	BS EN 6946
R-value - Pitched Roof (2 Airspaces)	1.41 m <sup>2</sup> K/W	BS EN 6946
R-value - Pitched Roof (1 Airspace)	0.85 m <sup>2</sup> K/W	BS EN 6946
Fire Performance	Class 1/ Class A	BS 476/ ASTM E84
MVTR	>2000 MN s/g	BS 3177
Air Permeability	Zero - m <sup>3</sup> hr <sup>-1</sup> m <sup>-2</sup> @ 600 Pa	BS

## Additional Testing

Corrosively	Pass
Delamination	Pass
Nail Tear	Pass
Tensile Strength	Pass
Crush & Puncture Resistance	72 PSI / 96 PSI
Sound Transmission Class	STC = 40
Fungi Mould Resistance	No Growth
Carbon Footprint per m	359g` CO2e
GWP	Zero
Beach Puncture	39.9 lbs
Nail Tear	25-29 (N)
Tensile Strength	44.88 - 59.68 (N)

