

LOW-E

REFLECTIVE INSULATION



Low-E® Reflective Insulation acts 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 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® TAB is our standard Low-E material, pre cut for your convenience to fit neatly between rafters, joists and studs. Low-E® TAB is manufactured in 400mm and 600mm wide rolls. (3x 400mm Rolls per pack) or (2x 600mm Rolls per pack). Low-E® TAB should be put in place and then stapled through the TAB to hold it in place.

Low-E® L4EFEC

Thickness	5.5mm
Roll Width	300mm, 400mm, 600mm
Weight	150g / m ²
MVTR	>2000 MN s/g
Air Permeability	Zero - m3 hr-1 m-2 @ 600 Pa

All edges and joints must be taped and sealed in order to maintain air infiltration and vapour barrier

Technical Information - EN 16012

Product Type	Type 2	EN 16012
Core Conductivity	0.0366 W m ² K	BS EN 12264
Emissivity	0.05	EN 16012
R-value - Floor (2 Airspaces)	1.92 m ² K/W	BS EN 6946
R-value - Floor (1 Airspace)	1.12 m ² K/W	BS EN 6946
R-value - Wall (2 Airspaces)	1.65 m ² K/W	BS EN 6946
R-value - Wall (1 Airspace)	0.99 m ² K/W	BS EN 6946
R-value - Pitched Roof (2 Airspaces)	1.41 m ² K/W	BS EN 6946
R-value - Pitched Roof (1 Airspace)	0.85 m ² 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 ³ hr ⁻¹ m ⁻² @ 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` CO ₂ e
GWP	Zero
Beach Puncture	39.9 lbs
Nail Tear	25-29 (N)
Tensile Strength	44.88 - 59.68 (N)

