Certificate No: EWW329

This certificate is valid for Building Regulations & associated technical guidance in force on the date of registration and for the regulations in the countries indicated

Low-E UK Ltd - Low–E EZY Seal

Description of Product

Low-E EZY Seal is a reflective insulation consisting of a 5.5mm thick foam core, aluminium faced both sides.

Key Factors Assessed

- Mechanical Resistance & Stability
- Safety in case of Fire
- Health, Hygiene and Environmental
- Safety in Use
- Energy Economy and heat retention

Validity

This certificate was first issued on 21st March 2014 and is valid until 4th August 2020

Issue Dated 20th May 2020

LABC | 66 South Lambeth Rd | London | SW8 1RL
T: 0207 0916865 | DD: 07850 307601 | F: 0207 0916879 | www.labc.uk.com/registereddetails

Scope of Registration

Low-E EZY Seal is a reflective insulation consisting of a 5.5mm thick foam core, aluminium faced both sides and also acts as a vapour barrier.
The product should be used in a prescribed manner and location as indicated by the manufacturer and installed according to their instructions and manuals.
The product should be used in conjunction with other insulation materials to achieve the required thermal properties.
It is critical that a minimum 12mm air-space is retained on either side of the product.

Insulation Product Type	1	
Test Method	BS EN 12667 : 2001	
Thermal conductivity (λ)	0.0366	W/m/k
Emissivity	0.05	
Water vapour resistance	>2000	MNs/gm
Fire performance	Class 1	BS 476-6
Fire performance	Class A	ASTM E84
Fire performance	Class E default	BS EN 13501-1
Product Thickness	5.5	mm
Core RD value (thermal resistance)	0.150	M2K/W
Core RD value with 2 air space (Down)	2.97	M2K/W
Core RD value with 2 air space (Up)	1.28	M2K/W
Core RD value with 2 air space (Horiz)	1.43	M2K/W
Air space thickness	>20	mm
Width	1.25	m
Weight	150	g/m2
Roll length	4/8/12/16/32	m

Conditions of Certificate

Installation to be in strict accordance with manufacturers guides and recommendations and supported by relevant U-value calculations incorporating material thermal properties as declared.
The U-value of the elements will depend on the thickness of additional insulation used, the extent and arrangement of timber bridging and the insulation value of other components/ layers details of which can be found in manufacturer's literature.
It is critical that a minimum 12mm air-space is maintained either side of the product.
The insulation must not be carried over junctions between roofs and walls required to provide a minimum period of fire resistance. The continuity of fire resistance must be maintained, for example as described in Approved Document B.
The products should be used in a prescribed manner and location as indicated by the manufacturer and installed according to their instructions and manuals.
The product should be used in conjunction with other insulation materials.

Regulations

LABC consider that, Low-E EZY Seal, will meet the functional requirements of the Building Regulations (listed below) if the criteria detailed in this certificate are met;

The Building Regulations 2010 (as amended) England & Wales

Regulation 7	Materials and workmanship
Note:	The products are acceptable.
AD B	Fire Safety
Note:	Subject to limitations detailed in Conditions section.
AD C	Site preparation and resistance to contaminants and moisture
Note:	Subject to limitations detailed in Conditions section.
AD L1B	Conservation of fuel and power
Note:	The thermal insulation performance of this system should be considered in the context of the contribution made to the overall performance of the roof structure.

The Building Regulations 2010 (as amended) England

AD L1A	Conservation of fuel and power
Note:	The thermal insulation performance of this system should be considered in the context of the contribution made to the overall performance of the roof structure.

The Building Regulations 2010 (as amended) Wales

AD L1A	Conservation of fuel and power
Note:	The thermal insulation performance of this system should be considered in the context of the contribution made to the overall performance of the roof structure.

The Building (Scotland) Regulations 2004 (as amended)

If you would like to discuss a specific use of the product in Scotland it will require an additional assessment under the Scottish Building Regulations and accordingly you should contact the LABSS STAS Administrator at www.labss.org

Non-Regulatory Information

LABC Warranty

This product confirms to the Functional Requirements of the LABC Warranty Technical Manual.

Supporting Documentation

Low E Trade Literature and Technical Manual, product details, practical application, standard details and technical information.
BBA Test Report No. 5642 Low-E aluminium foil insulation (Emissivity, air permeability, nail tear, mass per unit area, thickness, composition, tensile properties, water vapour permeability) – 17 October 2008
University of Salford Hot Box Test Technical Report Ref No. TT12/123 - 1 March 2012
NPL Hot Box Test Report Ref No: PP31/Eo6110067-Thermal Transmittance of a Structure Insulated With Low-E Insulation Using Three Different Heat Flow Directions – 1 February 2007
University of Salford Core Resistance Test Report Ref No. TT12/105 – 13 January 2012
NPL Core Resistance Test Report Ref No.PP21/E06110206/3 – 8 January 2007
University of Salford Core Resistance Test Report Ref No. TT13/170 – 11 June 2013
University of Salford Core Resistance Test Report Ref No. TT13/236 – 4 November 2013
R & D Services Test Emissivity Test Report No. RD11505 – R1 – 13 October 2011
PRI-CMT Emissivity Test Report No: CLAM-001-02-01 – 29 March 2012
PRI-CMT Emissivity Test Report No: CLAM-005-02-01- 15 August 2013
Exova Warrington Fire Test Report Document Reference 304033 – 21 February 2011
4ward Testing Ltd Certificate of Test for Water Vapour Transmission Cert No. C2657 – 25 February 2011
R & D Services Test Report for Fungi Resistance July 2001
R& D Services Corrosivity Test Report September 2001
BBA Agreement Certificate 11/4819 Product Sheet 1, 2 and 3 (Low-E Foil Insulation for pitched roofs, dry linings and floors).
U value calculations to BS EN ISO 6946
Condensation Risk Analysis according to BS EN ISO 13788

Contact Information

Low-E UK Limited
Unit 48 Weaver Industrial Estate
Blackburne Street
Liverpool
L19 8JA
Tel: 0151 494 9994
Email: info@low-e.co.uk
Web: www.low-e.co.uk