

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

## Eco-Torch Flat roof insulation

### Description of Product

This is an assessment of Eco-Torch flat roof insulation which is a fibre free rigid polyisocyanurate (PIR) insulation core faced with coated glass tissue on one side and bitumenised glass tissue with polypropylene fleece on the other face. The product is used for new –build and upgrading the thermal performance of existing roofs. The PIR fibre free insulation core is designed to withstand the application of hot bitumen and asphalt to the surface at up to 239 degrees C.



### Key Factors Assessed

- Safety in case of Fire
- Health, Hygiene and Environmental
- Safety in Use
- Protection against noise
- Durability serviceability and identification

### Validity

This certificate was first issued on 14<sup>th</sup> March 2016 and is valid until 14<sup>th</sup> March 2020.

Issue Dated 20<sup>th</sup> March 2017



## Scope of Registration

This is an assessment of Eco-Torch flat roof insulation for use on new build and upgrading of existing roofs as a means of improving thermal performance, reduction of CO2 emissions & achieving Building Regulation compliance. The product is designed for use with torch on and roll and pour felt systems, mastic asphalt and fully adhered single ply systems. The product is stable, rot proof and durable and will remain effective as an insulation system at least as long as the waterproof covering but is dependent on the method of application, the supporting structure and conditions of use. The product is produced in range of thicknesses between 30-150mm. Where thicknesses greater than 150 mm are required to achieve Building Regulation compliance this can be achieved by using two layer of insulation with joints staggered.

## Conditions of Certificate

Care should be taken to ensure that the thickness of insulation specified satisfies the requirements of the relevant requirements of the Building Regulations in relation to heat loss and interstitial condensation (further information in relation to this can be obtained from the manufacturers).

Dependent on the chosen type of weatherproofing product use Eco-Torch is suitable for limited access for maintenance. Protective walkways should be provided where regular pedestrian access will be required.

The fire rating of any roof containing this product will depend heavily on the type of deck and the nature of the roof covering.

The designation of the roof covering must satisfy the relevant requirements of the Building Regulations (typically a roof finished with 3 layers of built up felt & chippings will achieve an FAA rating when tested to BS476-3:2004 but advise should be from the manufacturers for particular applications.

The manufacturer shall exercise permanent internal control over production to ensure consistently high production standards in the form of systematic monitoring in the form of written policies including records of results achieved.

For Scottish purposes:

The specifications and materials referred to have been assessed in accordance with the Building (Scotland) Regulations 2004 and in accordance with the supporting guidance in the Domestic Technical Handbooks which came into force with effect from 1 October 2015.

Where reference is made on a plan or specification document to any Code of Practice, British or European Standard or manufacturer's instruction it shall be construed as a reference to such publication in the form in which it is in force at the date of this Registered Detail.

The materials specified shall be for purposes of this Registered Detail and should not be changed without first gaining approval so to do from Local Authority Building Standards Scotland [LABSS]. Failure to do so will invalidate the Registered Detail.

The Registered Detail shall be valid for a period of 12 months from the date of issue or until otherwise invalidated by formal notice by LABSS. The Registered Detail may be re-validated after 12 months following a request and payment of an annual renewal fee from the Registered Detail Holder.

This Registered Detail should not be regarded as a formal approval under the building warrant process prescribed by the Building (Scotland) Act 2003 enacted from 1 May 2005

This Registered Detail shall contribute to compliance with relevant Mandatory Standards specified under the Building (Scotland) Regulations 2004 as amended when read with the scope, conditions and regulations sections to this Registered Detail.

LABC and LABSS consider that, Eco-Torch 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 product is acceptable subject to compliance with technical specification.
AD B	Fire Safety
Note:	Dependant on type of deck and waterproofing membrane.
AD C	Site preparation and resistance to contaminants and moisture
Note:	The weather resistance of this product is reliant upon the type of weatherproof covering used but the product is not itself absorbent (product should however be stored in the wrapping used during transportation)
AD J3	Proximity of Combustible materials
Note:	Subject to compliance with requirement in relation to proximity of combustible materials.
AD L1A	Conservation of fuel & power - New Dwellings
Note:	The thermal insulation performance should be evaluated in relation to the overall performance of the roof structure.
AD L1B	Conservation of fuel & power - Existing Dwellings
Note:	The thermal insulation performance should be evaluated in relation to the overall performance of the roof structure.
AD L2A	Conservation of fuel & power - New Buildings other than Dwellings
Note:	The thermal insulation performance should be evaluated in relation to the overall performance of the roof structure.
AD L2B	Conservation of fuel & power - Existing Dwellings other than Dwellings
Note:	The thermal insulation performance should be evaluated in relation to the overall performance of the roof structure.



## The Building Regulations 2010 (as amended) England

AD B	Fire Safety
Comment:	Dependant on type of deck and waterproofing membrane.
Regulation: L1A	Conservation of fuel and power.
Comment:	The thermal insulation performance should be evaluated in relation to the overall performance of the roof structure.



## The Building Regulations 2010 (as amended) Wales

AD B	Fire Safety
Comment:	Dependant on type of deck and waterproofing membrane.
Regulation: L1A	Conservation of fuel and power.
Comment:	The thermal insulation performance should be evaluated in relation to the overall performance of the roof structure.



## The Building (Scotland) Regulations 2004 (as amended)

Technical Handbooks Domestic and Non-Domestic

Regulation 8                      Durability, workmanship and fitness of materials  
0.8.5:                                Ways of establishing the fitness of materials

Regulation 9                      Building Standards applicable to construction  
Note:                                 Construction shall be carried out so that the work complies with the applicable requirements of schedule 5.

Mandatory  
Standard 6.1(b)                    Carbon Dioxide Emissions  
Note:                                 The thermal insulation performance of this product should be considered in the context of the contribution made to the overall performance of the building.

Mandatory  
Standard 6.2                        Building Insulation Envelope  
Note:                                 The thermal insulation performance of this product should be considered in the context of the contribution made to the overall performance of the building.

## Non-Regulatory Information



### LABC Warranty

The use of the Eco-Torch has not been assessed to meet the requirements of the LABC Warranty Technical Manual. If you would like to discuss a specific use please make an enquiry to [technical.services@labcwarranty.co.uk](mailto:technical.services@labcwarranty.co.uk)

## Supporting Documentation

Building Investigation & Testing services Report B/P 7103/RPF/15

University of Salford Report on thermal conductivity dated 5/11/15

Eco-Torch Insulation –manufacturer’s literature

BS4841-4:2006. Specification for laminated insulation boards (roofboards) with auto-adhesively or separately bonded facings for use as roofboard thermal insulation under non-bituminous single –ply roof membranes.

## Contact Information

EcoTherm® Insulation (UK) Ltd  
Harvey Road  
Burnt Mills Industrial Estate  
Basildon  
Essex  
SS13 1QJ  
Tel: 01268 597213  
Email: [technical@ecotherm.co.uk](mailto:technical@ecotherm.co.uk)  
Web: [www.ecotherm.co.uk](http://www.ecotherm.co.uk)