

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

Boulder Developments Superfoil SF60

Description of Product

This is an assessment of Superfoil SF60, a multifoil type insulation product with a reflective vapour control layer for use in roofs and walls.

It can be used as an insulation layer in timber framed and masonry walls and as an underlayer in pitched roofs and flat roofs. In both cases battens are incorporated to maintain an unventilated air gap on both sides of the product. Supplementary insulation layers are usually incorporated to meet U Value targets in the building regulations.



Key Factors Assessed

- ☐ Mechanical Resistance & Stability
- ☐ Safety in case of Fire
- ☐ Energy Economy and heat retention
- ☐ Durability serviceability and identification
- ☐ Condensation Risk

Validity

This certificate was first issued on 27th March 2019 and is valid until 27th August 2020

Issue Dated 20th May 2020

Scope of Registration

SF60 is made up of 11 layers comprising 2 x Polypropylene reinforced heavy outer laminated foil layers, 4 x aluminium coated reflective foil PET layers and 5 x polyester wadding layers (80g/sqm.). It is supplied at a nominal thickness of 50mm in a roll width of 1.5 metres and of length 10 metres.

The material has a core thermal resistance value (uncompressed and not including air gaps) of $1.63 \text{ m}^2\cdot\text{K}\cdot\text{W}^{-1}$.

This Registered Detail covers factors associated with Building Regulations compliance. This is in relation to its use in the construction and alteration of dwellings in conjunction with plasterboard linings.

Insulation Product Type	1	
Test Method	BS EN ISO 6946:2017	
Thermal conductivity (λ)		W/m/k
Emissivity	.05	
Water vapour resistance	1200 MN.s.g -1	MNs/gm
Fire performance	Class E	
Product Thickness	100	mm
Core RD value (thermal resistance)	3.58	M ² K/W
Core RD value with 2 air spaces	4.48	M ² K/W
Air space thickness	13	mm
Direction of heat flow when tested	Vertical	
Width	1.5	m
Weight	1480	g/m ²
Roll length	8	m

Conditions of Certificate

The product acts as a vapour control layer having a typical water vapour resistance of 1200 MN.s.g-1 in accordance with BS EN 1931 : 2000. In considering condensation risk in pitched roofs and accordance with BS 5250: 2011 the product may be installed without a ventilated air gap over the supplementary insulation layer where a LR type underlay is incorporated in accordance with the conditions of use stipulated by an accredited independent testing body. In other cases a vented air gap is necessary to deal with interstitial condensation risk.

SuperFoil SF60 has a reaction to fire classification of class E, in accordance with BS EN 13501-1 : 2007. Elements containing the product must incorporate cavity barriers at edges, around openings and at junctions with fire-resisting elements in accordance with the relevant provisions of the Building Regulations. Consideration must be given to part J requirements when installing the products in close proximity to some flue pipes and/or heat-producing appliances.

Care must be taken in the overall design and construction of junctions with other elements and openings to minimise thermal bridges and air infiltration

In all cases the product should be used strictly in accordance with the manufacturer's guidance and the third party technical assessment certificates listed above.

The product requires other insulation products to meet required U values.

For Scotland purposes:

Section 6 Energy: Appropriate thermal analysis will be provided in each instance to demonstrate continued compliance with Mandatory Standards 6.1 and 6.2.

The product shall be manufactured and installed strictly in accordance with the manufacturer's instructions, in accordance with the certificate holder's instructions and fully in accordance with the accredited certification and supporting test reports.

The specifications and materials referred to have been assessed and approved in accordance with the Building (Scotland) Regulations 2004 and in accordance with the supporting guidance in the Domestic and Non-Domestic Technical Handbooks which came into force with effect from 1 July 2017.

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 not be changed without first gaining approval so to do. Failure to do so will invalidate the registered detail.

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. It supports the site-specific building warrant submission required in every case.



LABC and LABSS consider that, Boulder Developments Superfoil SF60 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.
AD C2(c)	Resistance to Moisture
Note:	The product is acceptable.
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 or wall.



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 or wall.
Regulation 26A	Fabric energy efficiency rates for new dwellings
Note:	The product can contribute to satisfying this Regulation however, compensating fabric/services measures will be required.



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 or wall.
Regulation 26A	Primary energy consumption rates for new buildings
Note:	The product can contribute to satisfying this Regulation however, compensating fabric/services measures will be required.
Regulation 26B	Fabric performance values for new dwellings
Note:	The product can contribute to satisfying this Regulation however, compensating fabric/services measures will be required.



The Building (Scotland) Regulations 2004 (as amended)

Technical Handbooks - 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	Building insulation envelope
Standard 6.2	
Note:	The product will achieve the required U-value provided they are installed and constructed in accordance with the manufacturer's details.

Non-Regulatory Information



LABC Warranty

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

Supporting Documentation

BBA Agrément Certificate 18/5575 Product Sheets 1 (walls) and 2 (roofs) Dated 26th September 2018

Fraunhofer Test Report Ref: P14-272e.2/2015 Dated 29th June 2016

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