

Certificate No: EWWS165

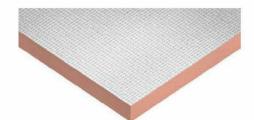


This certificate is valid for Building Regulations & associated technical guidance in force on the date of registration and for the regulations in the countries indicated

Kingspan Kooltherm K15 Rainscreen Board

Description of Product

Kooltherm K15 Rainscreen Board is a rigid phenolic insulation board incorporating foil composite facings. It is intended for use as a thermal insulation layer to be applied to the external face of new and existing masonry or metal framed walls as part of a rainscreen cladding system. K15 has been tested to comply with BR135:2013 for use in rain screen applications above 18 metres in height however see scope and conditions of certificate for more information.











Key Factors Assessed

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

Validity

This certificate was first issued on 28th August 2013 and is valid until 30th March 2019 Issue Dated 24th March 2016

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I www.labc.uk.com/registereddetails

Scope of Registration

This Certificate relates to Kooltherm K15 Rainscreen Insulation Board, a rigid phenolic board with foil composite facings, for use as external thermal insulation on new and existing steel frame or masonry walls. The board is used in domestic and non-domestic buildings in conjunction with masonry or ventilated rainscreen cladding systems. **An appropriate** classification report and/or supplementary report MUST evidence suitability of the proposed makeup.

It is important that the use of this product over 18m in height is agreed with Warranty providers prior to installation to ensure that its performance has been considered as part of the overall risk assessment of the finished building.

This is because Approved Document B makes no reference to the need to protect people from falling debris from a fire higher up the building, it is considered that, except in circumstances which are specific to the building, the 'Mechanical Performance' criterion of BR 135 is unlikely to feature as part of the Building Control approval process. However, it should be given due consideration by the specifier under any other applicable legislation, insurance or warranty requirements.

The thermal conductivity of the board improves with thickness. At 24mm or less, the thermal conductivity is 0.023 W/m.K, at 25 – 44mm it is 0.021 W/m.K and 45mm or greater it is 0.020 W/m.K.

Conditions of Certificate

The design shown and the material specified shall not be changed without reference to the local authority responsible for certifying the system.

Where reference is made on plan to any Code of Practice, British Standard or manufacturers 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 certificate.

A series of cavity barriers must be detailed on a project-specific basis to prevent fire spread around compartment floors or walls and to observe undivided cavity limits as set out in Table 13 of Approved Document B (Fire safety) – Volume 2 - Buildings other than dwelling houses (2006 Edition incorporating the 2013 and 2013 amendments) The performance of the barriers and the method of fixing must ensure that they will remain in place and maintain fire resistance for at least 30 minutes, or match the period set for the compartment wall/floor which they abut (whichever is the greater).

This certificate should not be construed as a formal approval under the building regulations.

K15 has been successfully tested to BS 8414-1:2002 and BS 8414-2:2005, meeting the criteria set out in BR135: 2013 and therefore is acceptable for use in buildings with storeys above 18m in height (subject to matching the explicit criteria identified in the tested specifications held on the K15 Product Specification & Classification Report Index updated in conjunction with this Certificate. There should also be an overall risk assessment of the finished building in relation to B4 – see scope above) as alternative compliance to AD B.

For Scotland purposes:

That 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 Technical Handbooks which came into force with effect from 1 October 2013.

That 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.

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That 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
That this Registered Detail shall contribute to compliance with relevant Mandatory Standards specified under the Building (Scotland) Regulations 2004 as amended when read with the Limitations of Use Section to this Registered Detail.

Regulations



LABC and LABSS consider that, Kingspan Koolthem K15 Rainscreen Board, 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: Independent test data has shown Kooltherm K15 to be suitable for the purpose for

which it is approved. When installed in accordance with the manufacturers recommendations, no short term maintenance is required and the board can be expected to have a lifespan equal to that of the structure to which it is incorporated.

AD A Structure

Note: K15 is capable of carrying its own self-weight when fixed in accordance with the

manufacturers recommendations, but otherwise cannot be considered to contribute towards the structural stability of the building in any way. Detailing should ensure that any wind or other loadings are transferred to the structural frame/wall as

appropriate.

AD B Fire Safety

Note: Thermosetting insulants (phenolic) do not meet the limited combustibility

requirements of AD B2 Table A7 and so should not be accepted as meeting AD B2 paragraph 12.7. However, if they are included as part of a cladding system tested to BR135 & BS8414 for use above 18m, the complete assembly may ultimately prove to be acceptable. Where the substrate is a metal-framed wall system rather than masonry or concrete, a sheathing board such as a cement bonded particle board or in some instances a more robust lining such as, but not limited to a non-combustible sheathing board may be required and will be fixed to the external face of the metal frame wall (Magnesium Oxide/calcium silicate/Cement particle boards or similar performing can all potentially be used but suitability must be determined on a

project specific basis)

AD C Site Preparation and Resistance to Ground Moisture

Note: With a clear cavity of 50mm maintained between the rainscreen cladding system,

moisture will not be conveyed to the substrata irrespective of the height of the building. Provided the thermal transmittance 'U' value of the wall does not exceed 0.7 Wm2K at any point (in line with guidance from Approved Documents relating to Requirement L1), and that all junctions and interfaces are detailed to avoid thermal bridging* then Kooltherm K15 would be expected to adequately limit both interstitial

and surface condensation in walls.

AD L1 &L2 Conservation of fuel and power

Note: For the purposes of calculating u-values in order to demonstrate performance under

this requirement, Kooltherm K15 can be taken to have thermal conductivity values as

set out in the table within the limitations section of this certificate.



The Building Regulations 2010 (as amended) England

None presently



The Building Regulations 2010 (as amended) Wales

None presently



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 3.15 Condensation

Note: When used in conjunction with an appropriate vapour control layer the product will

be unrestricted under this Standard, with reference to clauses 3.15.1, 3.15.4 and 3.15.5 of the Domestic and Non Domestic Handbooks. See sections 7.2 and 7.3 of the BBA

Certificate.

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

envelope.

Non-Regulatory Information



LABC Warranty

The use of the Kingspan Koolthem K15 Rainscreen Board is acceptable to warranty insurance schemes administered by MD Insurance Services Ltd including LABC Warranty subject to the cladding system being installed to meet the requirements of LABC technical manual.

Supporting Documentation
Ninth Issue 2011 Kingspan publication "Kooltherm K15 Rainscreen Board" 08/4582; 17 th December 2013 British Board of Agrément Certificate K15 Product Specification & Classification Report Index

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