## ASSESSMENT SPECIFICATION

Ref:

M1/34562

Date:

10 December 2003

GENERAL

Product name 1.1

Kooltherm K15 Rainscreen Board

Product type

Phenolic insulation board.

1.3 Use The product is for use as an insulation behind rainscreen cladding systems on masonry

walls.

The product is used to reduce the thermal transmittance of new or existing walls of dwellings or buildings of similar occupancy, type and condition.

Marketing company

Kingspan Insulation Ltd

Pembridge Leominster

Herefordshire HR6 9LA

Manufacturing locations

As for Item 1.4

TECHNICAL SPECIFICATION

Product range

A phenolic insulation board

Length (mm)

2400

Width (mm)

1200

Thickness (mm)

20 to 120

Edge detail

square edge or tongue-and-groove

Thermal conductivity

0.022 - 0.024 W/mK



Ancillary items

To be confirmed.

2.3 Manufacture and production control Details to be confirmed.

Delivery to site,

protection and storage

Boards are delivered in labelled polythene packs and should be stored clear of the ground and protected from direct sunlight and precipitation. A date of manufacture and

instruction leaflet is included in the pack.

STATUTORY REGULATIONS

The Building Regulations 2000 (England and Wales) 3.1

Requirement

LI

Conservation of fuel and power in dwellings

Requirement Regulation

L2 7

Conservation of fuel and power in buildings other than dwellings

Materials and workmanship

Page 1 of 2 pages



			AC1/3456.i		
3.2	The Building Stands	ards (Scotland)	Regulations 1990 (as amended)		
٠	Regulation	10	Fitness of materials and workmanship		
	Technical Standard		Selection and use of materials, fittings, and components, and workmanship		
	Regulation	18	Resistance to condensation		
	Technical Standard		Interstitial condensation		
	recinical Standard	G4.1 G4.2	Surface condensation		
	Damilation	22	Conservation of fuel and power		
	Regulation Technical Standard		Standards for buildings in purpose group 1		
	rechnical Standard	J8.1	Standards for buildings other than dwellings		
		30.1	Cidital de los castastes casta and an entrege		
3.3	Building Regulation	ıs (Northern Ire			
	Regulation	B2	Fitness of materials and workmanship		
		C5	Condensation		
		F2	Conservation of fuel and power – Building fabric		
3.4	Construction (Design	n and Managen	nent) Regulations 1994 (as amended)		
J.7					
3,5	Construction (Design and Management) Regulations (Northern Ireland) 1995 (as amended)				
			DESIGN DATA		
			4 400		
4.1	Safety		Mechanical resistance and stability:		
			- bonding/mechanical fixing		
			Safety in case of fire: - reaction to fire		
			- reaction to tire		
4.2	Habitability		Hygiene, Health and the environment:		
7.2	Hackacinty		- resistance to water vapour transmission		
			- risk of surface or interstitial condensation		
			Energy economy and heat retention:		
			- thermal conductivity of insulation		
			- U value calculations		
4.3	Durability		Effect of solvents, pollution, chemicals etc		
4,5	Daratimes		Compatibility with materials in contact		
	Desire Begging	anta.	exterior insulation for masonry walls		
4.4	Design Requiren	iems	behaviour in fire		
			moisture penetration		
			proximity of hearths, heat production appliances etc		
			detailing for resisting moisture from the ground		
			vapour resistance		
			U values, detailing etc		
4.5	Installation requirer	nente	Boards are bonded/mechanically fixed to outside surface of external walls.		
4,5	mstanation required	noma	Full details to be confirmed.		
4.6	Maintenance		No factors for assessment		
4.7	Repairs		No factors for assessment		
	•		TO COMPLETE A PROPERTY.		
			INSTALLATION		

Details to be confirmed

Tradesman, carpenter, bricklayer.

5.2 Installers

Procedures

5.1

08/4582	Issue 1	27 October 2008
08/4582	Amended Issue 1	6 April 2010
08/4582	Issue 2	17 December 2013
14/5134	Issue 1	08 October 2015
14/5134	Amended Issue 1	16 November 2015

## 30. I don't remember.

- 14. As far as you were aware, when did Kingspan first contact the BBA in relation to the potential certification by the BBA of K15?
  - 31. I don't remember but have been shown an email dated 23 October 2003 which would appear to indicate the first contact [CH1/x].
- What was the BBA's understanding as to the use to which K15 would be put within an external cladding system? If different, what was your own understanding?
  - 32. In respect of the BBA's understanding I do not know. However, I have seen copies of the Contract and Assessment Specification [CH1/x] which state 'phenolic insulation board for use with rainscreen cladding systems' and 'for use as an insulation behind rainscreen cladding systems on masonry walls' respectively
- 16. What sections of the Building Regulations and/or the guidance in Approved Document B do you consider would apply to K15?
  - 33. I have no current involvement with Approved Document B and therefore am not in a position to answer this question.
- 17. In relation to large-scale testing to BS 8414 of external cladding systems, and covering the entire period of your employment at the BBA, what was your own

understanding as to how any unsuccessful tests would be recorded, either by the BRE and/or by the test sponsor?

- 34. I would not have had knowledge as to how other third-party organisations recorded this information.
- 18. What was the BBA's policy in relation to requesting records as to unsuccessful tests from Certificate holders or potential Certificate holders? Please also explain the reasoning behind any relevant policy.
  - 35. I don't recall any such policy, but it is down to the Certificate holder / applicant to provide such information to the BBA.
- 19. What inquiries were made of the BRE at any stage as to testing to BS 8414 carried out on systems incorporating K15?
  - 36. I do not know and I have seen no written correspondence on this.
- 20. Please set out your own understanding of the meaning of "Class 0". How did you understand this classification in relation to K15? In what way is this classification relevant to K15, if at all?
  - 37. I remember it as a designation for surface spread of flame in Approved Document B, but I have no current involvement with Approved Document B. I don't remember the direct relevance to K15.
- 21. What did you understand the phrase "low risk" to mean?
  - 38. I don't remember.
- 22. What was your own understanding of the meaning of the phrase "limited combustibility"?
  - 39. I recall it was related to a definition in Approved Document B.
- 23. In 2008, what relationship did you understand classifications pursuant to testing to BS 476-6 and/or BS 476-7 to bear to whether or not a product could be categorised as a product "of limited combustibility"?

40. I don't remember.

For all of the matters covered at q 15-23 above, if your understanding has changed at any time, please explain when and how any such change in understanding came about.

## Certificate 08/4582 Issue 1

- 24. The Inquiry is in receipt of a letter from the BBA dated 18 April 2019, a copy of which is attached for your reference. The letter informs the Inquiry that in order to demonstrate a product's classification to Class 0, "test reports to BS 476-6 and BS 476-7 are required and no such reports are contained on any of the K15 file folders".
  - a. What do you understand to be meant by this?
  - 41. That no reports were found on the available files for K15.
    - b. Do you agree with this statement?
  - 42. I can only rely on the file contents because I can't recall any further details.
    - c. Was Kingspan asked by the BBA whether K15 had been tested to BS 476-6 and BS 476-7? If not, why not?
  - 43.I don't remember; however, I have seen letters dated 7 September 2004 and 2 December 2004 [CH1/x] and the contents are self-explanatory where reaction to fire testing was requested.
    - d. If so, when? What was the response?
  - 44. I don't know.
    - e. At the time of the issue of 08/4582 Issue 1, did the BBA understand K15 never to have been tested to BS 476-6 or BS 476-7?