

**From:** Tony Millichap <tony.millichap@kingspan exchange.com>  
**Sent:** Friday, May 1, 2015 3:15 PM  
**To:** Adrian Pargeter <adrian.pargeter@kingspan.com>  
**Subject:** FW: Kingspan Kooltherm K15, use in facades above 18m.  
**Attach:** Use of combustible materials in buildings over 18m - Guidance to builders.pdf

---

As discussed.

Regards

Tony Millichap  
Head of Technical  
Mobile [REDACTED]

---

**From:** Ian Davis (Operations Director) [mailto:IDavis@nhbc.co.uk]  
**Sent:** 31 March 2015 11:40  
**To:** Tony Millichap  
**Cc:** Ivor Meredith; Richard Burnley; Alistair Hodder; Steve Evans; Jo Caple; John Lewis; Dave White; Graham Perrior  
**Subject:** RE: Kingspan Kooltherm K15, use in facades above 18m.

Tony,  
Further to our recent discussions, please find attached a copy of the guidance NHBC has issued to builders who have submitted projects to us that involve buildings over 18m.  
Regards  
Ian

---

**From:** Tony Millichap [mailto:tony.millichap@kingspan.com]  
**Sent:** 13 March 2015 18:17  
**To:** Ian Davis (Operations Director)  
**Cc:** Ivor Meredith; Richard Burnley; Alistair Hodder; Steve Evans; Jo Caple; John Lewis; Dave White; Graham Perrior  
**Subject:** RE: Kingspan Kooltherm K15, use in facades above 18m.

Hello Ian,

As promised under action point 1 please find attached an updated schedule of testing. We do hope the schedule shown may be further accelerated, ongoing discussions with BRE suggest this may be possible and we will keep you informed.

Under point 5 we have instigated a 'global specification' to be created based upon existing test data as that used for the Elephant Park assessment to cover masonry or concrete outer leafs (anticipate earliest receipt beginning of May).

Action point 6 has progressed in that we feel some resolution has been made around clarity of BS8414 test duration via the working group, we will renew pursuing this with BRE.

We trust the foregoing and enclosed is of assistance. Please do not hesitate to contact me with any queries.

Regards

Tony Millichap

---

**From:** Ian Davis (Operations Director) [<mailto:IDavis@nhbc.co.uk>]  
**Sent:** 05 March 2015 17:02  
**To:** Tony Millichap  
**Cc:** Ivor Meredith; Richard Burnley; Alistair Hodder; Steve Evans; Jo Caple; John Lewis; Dave White; Graham Perrior  
**Subject:** RE: Kingspan Kooltherm K15, use in facades above 18m.

Tony,  
Many thanks for meeting us today. There was some useful progress made. Attached is a short note recording the agreed actions. Let me know if you any amendments.  
Regards  
Ian

---

**From:** Tony Millichap [<mailto:tony.millichap@kingspan.com>]  
**Sent:** 27 February 2015 08:21  
**To:** Graham Perrior  
**Cc:** Ian Davis (Operations Director); Ivor Meredith; Richard Burnley; Alistair Hodder; Steve Evans; Jo Caple  
**Subject:** RE: Kingspan Kooltherm K15, use in facades above 18m.

Dear Graham,

Firstly we would like to confirm our preference for a meeting next Thursday 6<sup>th</sup> March, at your location in Milton Keynes at a time to suit yourselves to be confirmed. In attendance for Kingspan Insulation would be Mr Richard Burnley Managing Director, Mr Ivor Meredith Technical Projects Manager and myself.

Below I have provided further narrative to explain how the evidence listed was originated chronologically, an additional column in the list further explains the relevance with respect to the various routes to compliance we have encountered. Further I have attached a programme of ongoing and future testing, the rationale for which is also discussed below.

The original test result to **BS8414 Pt1 (Kooltherm K15 60mm, cement particle board)** was completed in 2005 and marked our commitment to support Kooltherm K15 as fit for the intended purpose, subsequently the result was incorporated within independent approvals (BBA and LABC) as aids to demonstrate compliance.

Further testing was commissioned to address queries raised via consultants on specific projects and resulted in a test to **BS8414 Pt2 (Kooltherm K15 85mm, high pressure laminate)** which represents a common combustible cladding format.

From this point on we have supported many varied approaches to compliance through various project teams resulting in the evidence referenced. Test result **BS8414 Pt2 (Kooltherm K15 80mm, terracotta cladding)** again aims to represents a broader section of the market.

Our forward test programme is predicated on trying to capture the widest spectrum of variables encountered through our experience. The primary factors being level of fire performance (combustibility) of a given cladding format and secondly thickness variation in Kooltherm K15. Other potential variables such as sheathing boards and secondary grids / methods of attachment and fire barriers have remained constant where possible and form part of our specification advice.



Within the attached spreadsheet we have summarised the split of cladding formats encountered. This alongside analysis of Kooltherm K15 thicknesses specified has helped to shape the test programme.

Our ongoing involvement with ARUP among other consultants has included project specific assessments (First Street) but also looking into solutions around demonstrating wider relevance of testing evidence and sense checking the principles behind our forward test programme. We are committed alongside ARUP to supporting a PHD thesis resulting in a mathematical solution to anticipating performance given the various established data points.

Considering a wider context we are also involved in the consultation process around reviewing the standards involved. Colleagues within our wider business are also generating performance data against European standards such as DIN4102, SP105 and LePIR all of which will help inform future solutions and assist with influencing the development of a European standard which has begun.

I trust the foregoing is of some assistance ahead of our meeting and look forward to seeing you on the 6<sup>th</sup> March. Please do not hesitate to contact me with any queries.

Regards

Tony Millichap  
Head of Technical  
Mobile [REDACTED]

---

**From:** Graham Perrior [<mailto:GPerrior@NHBC.co.UK>]

**Sent:** 24 February 2015 16:50

**To:** Tony Millichap

**Cc:** Ian Davis (Operations Director); Ivor Meredith; Richard Burnley; Alistair Hodder; Steve Evans

**Subject:** RE: Kingspan Kooltherm K15, use in facades above 18m.

Dear Tony

Thank you for your e-mail dated 17<sup>th</sup> February 2015 and for the link to the Kingspan drop box which contains a considerable number of substantial documents.

I expect you are aware that, following Ian Davis' letter of 5<sup>th</sup> February 2015 to you and his letter of the same date to Gene Murtagh, we received a letter from Kingspan's solicitors concerning the information we intend to publish for builders. We have provided a draft of our communication to builders to Kingspan's solicitors. We have allowed time for a reply later this week before we publish it.

As stated in our response to Kingspan's solicitors we are keen to continue our discussions, with NHBC's objective being to understanding what evidence there is that can be published to support our mutual builder customers who chose to use K15 in situations outside of the scope of BBA certificate 08/4582. That evidence should demonstrate compliance with the Building Regulations and NHBC Standards, ideally in accordance with the guidance set out in BCA Guidance note 18 'Use of combustible cladding materials on residential buildings'.

The documents in the dropbox appear to be duplicates of documents you have already provided, and some are incomplete, which doesn't really help us to move forward.

Considering the amount of information provided, it would really help if Kingspan could:

- Provide a clear technical justification to explain the precise relevance of each document and how it helps demonstrate compliance with the Building Regulations and NHBC Standards, in particular in accordance with BCA Guidance note 18.
- Where documents or research work are incomplete, tell us when the work is likely to be

completed and when Kingspan will be able to share it with us.

- Describe to us the full programme of work proposed or underway, including the work being carried out by Arup, and the timescales so that we have a full picture of what is being proposed and can constructively contribute to the programme.

As you know, to help move forward we are willing to meet with you to discuss this. But to make any meeting effective, we would need your detailed response to the above points a few days before we meet.

Therefore I look forward to receiving further information as soon as possible and it would be helpful if you could let me know when I can expect to receive it. If you can get back to me by the end of this week, then we have availability to meet on Tuesday 3<sup>rd</sup> March or Thursday 5<sup>th</sup> March.

I will give you a call at 12.00 midday tomorrow to check whether you have any queries on the above .

Best Regards

Graham Perrior

Standards & Technical Manager

Direct tel: [REDACTED] Direct fax: [REDACTED]

Mobile: [REDACTED] | email: [gperrior@nhbc.co.uk](mailto:gperrior@nhbc.co.uk)

NHBC | NHBC House | Davy Avenue | Knowlhill | Milton Keynes | MK5 8FP

[www.nhbc.co.uk](http://www.nhbc.co.uk) | Tel: [REDACTED] | Fax [REDACTED]

Please consider the environment before printing this e-mail

---

**From:** Tony Millichap [<mailto:tony.millichap@kingspan.com>]

**Sent:** 17 February 2015 10:20

**To:** Graham Perrior

**Cc:** Ian Davis (Operations Director); Ivor Meredith; Richard Burnley

**Subject:** Kingspan Kooltherm K15, use in facades above 18m.

Dear Graham,

Further to our ongoing correspondence and as promised via our telephone conversation Friday 13<sup>th</sup> February, I have enclosed a consolidated summary of supporting evidence with respect to the use of Kooltherm K15 above 18m. Documents referenced can be accessed here – [Click here to view NHBC](#).

As discussed we would welcome the earliest opportunity to meet and progress solutions to ongoing concerns. Please do not hesitate to contact me in the event of any queries.

Regards

Tony Millichap

Head of Technical

Mobile [REDACTED]

**Kingspan Insulation Limited**

Pembridge, Leominster, Herefordshire, HR6 9LA, UK

tel: [REDACTED]

fax: [REDACTED]

[www.kingspaninsulation.co.uk](http://www.kingspaninsulation.co.uk)





---

Kingspan Insulation is a limited company registered in England and Wales. Registered Number: 01882722. Registered Office: Pembridge, Leominster, Herefordshire, England. HR6 9LA. VAT GB428602456.

This e-mail (including any attachments) is confidential and intended solely for the use of the addressee. If you have received this e-mail in error please notify the sender immediately, delete the e-mail from your system and destroy all hard copies. Any unauthorised dissemination, distribution or copying is prohibited. Although we have taken steps to ensure that this e-mail (and any attached files) are free from virus, it is your responsibility to carry out your own virus checks before opening any attachment. We cannot accept any liability for loss or damage sustained as a result of software viruses. E-mails and communications sent by or to persons in our firm may be viewed and monitored by persons other than the named addressee.

---

This email is confidential and is intended for the addressee only. If you are not the addressee, please delete the email and do not use it in any way. Please note that any views or opinions presented in this email are solely those of the author and do not necessarily represent those of the company. NHBC reserves the right to monitor all email communications. The recipient should check this email and any attachments for the presence of viruses. The company accepts no liability for any damage caused by any virus transmitted by this email. NHBC, the National House-Building Council, is limited by guarantee in England, No 320784. Registered address: NHBC House, Davy Avenue, Knowlhill, Milton Keynes MK5 8FP. NHBC is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and Prudential Regulation Authority. NHBC Building Control Services Ltd, registered by guarantee in England with Company No. 01952969. Registered address: NHBC House, Davy Avenue, Knowlhill, Milton Keynes MK5 8FP. NHBC Services Ltd registered by guarantee in England, No 03067703. Registered address: NHBC House, Davy Avenue, Knowlhill, Milton Keynes MK5 8FP. If you make a claim under a Buildmark policy your personal details will be stored and processed in accordance with the Data Protection Act. Your personal details may be passed to others involved with your claim such as the original builder, or a consultant or remedial works contractor that we may employ in connection with your claim(s) and matter ancillary to your claim(s). Other than disclosure provided for in this statement, we will not pass any data about you to any other party without your permission unless we are required to do so by law.

This email is confidential and is intended for the addressee only. If you are not the addressee, please delete the email and do not use it in any way. Please note that any views or opinions presented in this email are solely those of the author and do not necessarily represent those of the company. NHBC reserves the right to monitor all email communications. The recipient should check this email and any attachments for the presence of viruses. The company accepts no liability for any damage caused by any virus transmitted by this email. NHBC, the National House-Building Council, is limited by guarantee in England, No 320784. Registered address: NHBC House, Davy Avenue, Knowlhill, Milton Keynes MK5 8FP. NHBC is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and Prudential Regulation Authority. NHBC Building Control Services Ltd, registered by guarantee in England with Company No. 01952969. Registered address: NHBC House, Davy Avenue, Knowlhill, Milton Keynes MK5 8FP. NHBC Services Ltd registered by guarantee in England,

No 03067703. Registered address: NHBC House, Davy Avenue, Knowlhill, Milton Keynes MK5 8FP. If you make a claim under a Buildmark policy your personal details will be stored and processed in accordance with the Data Protection Act. Your personal details may be passed to others involved with your claim such as the original builder, or a consultant or remedial works contractor that we may employ in connection with your claim(s) and matter ancillary to your claim(s). Other than disclosure provided for in this statement, we will not pass any data about you to any other party without your permission unless we are required to do so by law.

This email is confidential and is intended for the addressee only. If you are not the addressee, please delete the email and do not use it in any way. Please note that any views or opinions presented in this email are solely those of the author and do not necessarily represent those of the company. NHBC reserves the right to monitor all email communications. The recipient should check this email and any attachments for the presence of viruses. The company accepts no liability for any damage caused by any virus transmitted by this email. NHBC, the National House-Building Council, is limited by guarantee in England, No 320784. Registered address: NHBC House, Davy Avenue, Knowlhill, Milton Keynes MK5 8FP. NHBC is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and Prudential Regulation Authority. NHBC Building Control Services Ltd, registered by guarantee in England with Company No. 01952969. Registered address: NHBC House, Davy Avenue, Knowlhill, Milton Keynes MK5 8FP. NHBC Services Ltd registered by guarantee in England, No 03067703. Registered address: NHBC House, Davy Avenue, Knowlhill, Milton Keynes MK5 8FP. If you make a claim under a Buildmark policy your personal details will be stored and processed in accordance with the Data Protection Act. Your personal details may be passed to others involved with your claim such as the original builder, or a consultant or remedial works contractor that we may employ in connection with your claim(s) and matter ancillary to your claim(s). Other than disclosure provided for in this statement, we will not pass any data about you to any other party without your permission unless we are required to do so by law.