

Message

From: Hayes, Jamie [/o=SGMAIL/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=Hayes, Jamie5c0]
on behalf of Hayes, Jamie [/o=sgmail/ou=exchange administrative group (fydibohf23spdlt)/cn=recipients/cn=hayes, jamie5c0]
Sent: 16/01/2015 12:12:27
To: Berger, Debbie [dberger@celotex.co.uk]; Roome, Jonathan [jroome@celotex.co.uk]
CC: Evans, Paul [pevans@celotex.co.uk]; Reid, Paul [preid@celotex.co.uk]; Wakelin, Ian [iwakelin@celotex.co.uk]; Roper, Jon [jroper@celotex.co.uk]; Warren, Rob [rwarren@celotex.co.uk]; Milward, Richard [rmilward@celotex.co.uk]
Subject: RE: RE: Greenwich Wharf - Kooltherm K15

Thank you for letting me have a look at this it is very interesting.

An interesting point for me was that Kingspan confirmed that they have now passed BS8414-2 and gave some details of the system that passed – specifically a terracotta rainscreen with a cement particle sheathing board. I know this was a piece of intelligence we were looking for...

As a gesture of good faith I have attached a copy of our most recent test to BS 8414-2. In this test we used 80mm thick Kooltherm K15 behind a terracotta rainscreen. This test report shows that the tested system has met the core criteria of BR 135.

Despite Kingspan now having an BS 8414-2 NHBC are still wary of compliance. If you read through the e-mail chain some of the cladding is actually timber, so it does not surprise me that they are questioning the use of a combustible material.

Now this enquiry is with us we should be very careful how we present our product.

Kingspan were happy to say:

It is our opinion that our Kooltherm K15 product would be fit for purpose if installed onto a cement particle board (class 0 with regards to fire propagation tested to BS476 parts 6 & 7).

Although they qualify this later with:

As with all large and complex buildings a fire safety engineering approach is recommended as the only practical way of achieving fire safety. Our test information and its assessment is intended to best inform Building Control Professionals in order that a decision can be made to its appropriateness or as evidence towards compliance via a fire safety engineering approach as allowed by our regulations. Ultimately the success of the specification depends on Building Control acceptance.

Specifically stating the product is fit for purpose in a specific build is a bold step on their part, and you can see that when later pushed it started to unravel a bit on them.

Kind regards,

Jamie Hayes

Technical Services Team Leader

jhayes@celotex.co.uk

Ext: [REDACTED]

Celotex. Reaching new heights



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Please consider the environment before printing this email

From: Berger, Debbie

Sent: 14 January 2015 15:43

To: Roome, Jonathan

Cc: Evans, Paul; Reid, Paul; Wakelin, Ian; Roper, Jon; Hayes, Jamie; Warren, Rob; Milward, Richard

Subject: RE: RE: Greenwich Wharf - Kooltherm K15

Wow

There is so much info in the trail.

It's a shame the test report has become unattached in the replies.

Kingspan Insulation Limited has tested Kooltherm K15 successfully to BS 8414-1 and BS 8414-2. These tests have been commissioned to demonstrate a range of approval and include scope for insulation thickness and cladding finish type.

To cover the largest scope of substrates Kingspan Kooltherm K15 has been tested to BS 8414 - 2 onto a 12mm cement particle board. This is the minimum performance criteria for a sheathing board used behind K15 in order to comply with our testing.

If I'm reading this correctly have they tested in such a way as to widen the field of application making their test report more representative to what's specified?

And are they continuing to test and develop the application?

Jonathan: Section 5.2 of the condensed BRE 4 page test report confirms compliance to BR135 which Technical have sent. I'm not aware of a separate BRE compliance certificate

Kind regards

Debbie Berger

Product Manager

dberger@celotex.co.uk

Ext:

Mob:

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From: Roome, Jonathan

Sent: 14 January 2015 13:26

To: Evans, Paul

Cc: Woodham, Bill; Reid, Paul; Warren, Rob; Wakelin, Ian; Roper, Jon; John, Richard; Berger, Debbie

Subject: FW: RE: Greenwich Wharf - Kooltherm K15

Importance: High

Team,

It seems from the email trail below involving Kingspan and their K15 product that our honeymoon period with RS5000 is over.

We have been sent an email (inadvertently) with an email trail between Durkan (Developer), Kingspan and Squire & Partners (Architect).

Kingspan are purporting to have passed BS8414:2 and most interestingly they used a Cement Particle board of 12mm thick in the process.

I know from another project (Enderby Wharf, Greenwich peninsula) with Barratts where they will be using K15 against CP board which is far cheaper than an A1/A2 Euroclass board.

As far as I can tell from reading though Approved Document B there is nothing that specifically states that a non-combustible sheathing board must be used, although this is probably up to interpretation.

I will be in contact with the architect to discuss RS5000 but it is worth reading through the email trail to see what Kingspan are claiming in the current market place.

Kind regards,

Jonathan

Jonathan Roome

Major Projects and Specification Manager

jroome@celotex.co.uk

Mob: [REDACTED]

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Please consider the environment before printing this email

From: Celotex, Technical
Sent: 13 January 2015 13:33
To: Berger, Debbie
Cc: Roome, Jonathan
Subject: FW: RE: Greenwich Wharf - Kooltherm K15
Importance: High

Debs,

Can we please send the 4 page PDF above

Jeremy Suttle

Technical Services Officer

jsuttle@celotex.co.uk

Ext: [REDACTED]

Celotex. Reaching new heights



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Please consider the environment before printing this email

From: Matthew Colledge [<mailto:MC@squireandpartners.com>]
Sent: 13 January 2015 12:48
To: Celotex, Technical
Cc: Chris Simmons; Sophie Steed
Subject: FW: RE: Greenwich Wharf - Kooltherm K15
Importance: High

Dear Sir/Madam,

Following our conversation regarding building control requirements for Rainscreen insulation BR135 certification please see below:

- Building size: 10 Storeys; 100m long & 20m wide building comprising 184 residential apartments between 1st
- 10th floor. Ground floor Office, Café & Health Club.
- Location: Banning Street, Greenwich
- Use: Mixed, Residential
- U value; Rainscreen/External Wall requirement: 0.20W/M2K
- Construction details: Attached

Please could you provide confirmation and a BS135 compliance certificate for the Celotex RS5000 insulation. This is an urgent requirement for Building control. We look forward to your response.

If you require any further information please do not hesitate to get in touch.

Kind regards,

Matthew Colledge

Associate

Squire and Partners

77 Wicklow Street London WC1X 9JY

T [REDACTED] F [REDACTED]

www.squireandpartners.com

MC@squireandpartners.com

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From: Dave Cummins [<mailto:DCummins@NHBC.co.UK>]

Sent: 13 January 2015 12:15

To: 'Adam Heath'; Matthew Colledge

Subject: RE: RE: Greenwich Wharf - Kooltherm K15

This is just a fire test report. It doesn't confirm that the test met the criteria of BR135. The test house (if they are in agreement that the BR135 criteria have been met) also issue a BR135 Compliance Certificate – this is the certificate we require.

Our opinion is that, if we can't get the above information, I think it's best to make the client aware that they should look at alternative products which are either of limited combustibility or compliant with BR135 in the proposed wall build-up.

Regards

Dave Cummins BSc (Hons) MRICS

Project Surveyor

Technical Services Department

Direct tel: [REDACTED]

Mobile: [REDACTED]

email: dcummins@nhbc.co.uk

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From: Adam Heath [<mailto:adam.heath@kingspan.com>]

Sent: 12 January 2015 16:00

To: Matthew Colledge; Dave Cummins

Subject: RE: RE: Greenwich Wharf - Kooltherm K15

Dear Matthew/Dave,

As a gesture of good faith I have attached a copy of our most recent test to BS 8414-2. In this test we used 80mm thick Kooltherm K15 behind a terracotta rainscreen. This test report shows that the tested system has met the core criteria of BR 135.

In addition to this test report, we are continuing with our testing regime to further expand the scope for insulation thickness and cladding finish.

We must stress that this report is only for use with this project and must not be circulated outside of Squire and Partners or the NHBC. The reason for this is because this report requires some minor adjusting of the text for commercial reasons. Please note any such amendments will not affect the result of the test. The sheathing board used in the test was actually 12mm thick, and this will be reflected in the revision of the report.

Kingspan Insulation Ltd would be appreciative if you could confirm your understanding of our concerns, and ensure that this document is not passed to other contractors, architects or indeed any third parties whatsoever.

We trust that this is acceptable. If you have any further queries, do not hesitate to contact the undersigned.

Kind regards,

Adam Heath

Technical Project Leader

Direct tel: [REDACTED]

From: Matthew Colledge [<mailto:MC@squireandpartners.com>]

Sent: 09 January 2015 14:00

To: 'Dave Cummins'; Adam Heath; 'anthonyrobson@bbseven.com'

Cc: Gary Johnson; Chris Simmons; 'Barry.Hill@durkan.co.uk'; Sophie Steed; 'Pat Phillips (Pat.Phillips@durkan.co.uk)'

Subject: RE: RE: Greenwich Wharf - Kooltherm K15

Adam,

It would be much appreciated if you could please issue the test report?

Regards,

Matthew Colledge

Associate

Squire and Partners

77 Wicklow Street London WC1X 9JY
T [REDACTED] F [REDACTED]

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MC@squireandpartners.com

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From: Dave Cummins [<mailto:DCummins@NHBC.co.UK>]
Sent: 09 January 2015 13:22
To: Matthew Colledge; 'Adam Heath'; 'anthonyrobson@bbseven.com'
Cc: 'Gary Johnson'; Chris Simmons; 'Barry.Hill@durkan.co.uk'; Sophie Steed; 'Pat Phillips' (Pat.Phillips@durkan.co.uk)
Subject: RE: RE: Greenwich Wharf - Kooltherm K15

OK Matthew, as I'm sure you are fully aware the industry is getting very nervous regarding the use of non-tested materials above 18m high and the BCA Technical Guidance Note 18 has been issued to explain the situation. I'm also aware that NHBC are in talks with Kingspan over their current and future testing proposals.

At present, I would have to seek the actual test report for the given rainscreen to ensure suitability.

Regards
Dave Cummins BSc (Hons) MRICS
Project Surveyor
Technical Services Department

Direct tel: [REDACTED]
Mobile [REDACTED]
email: dcummins@nhbc.co.uk
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From: Matthew Colledge [<mailto:MC@squireandpartners.com>]
Sent: 09 January 2015 12:58
To: Dave Cummins; 'Adam Heath'; 'anthonyrobson@bbseven.com'
Cc: 'Gary Johnson'; Chris Simmons; 'Barry.Hill@durkan.co.uk'; Sophie Steed; 'Pat Phillips' (Pat.Phillips@durkan.co.uk)
Subject: RE: RE: Greenwich Wharf - Kooltherm K15

Dave,

Apologies for any confusion. I attached the Envirowall test information in relation to Adams comments on this in the latter part of his email.

I have requested that Adam provides similar testing evidence, as requested in the first paragraph of my email.

I hope this makes sense?

Kind regards,

Matthew Colledge

Associate

Squire and Partners

77 Wicklow Street London WC1X 9JY

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From: Dave Cummins [<mailto:DCummins@NHBC.co.UK>]

Sent: 09 January 2015 12:55

To: Matthew Colledge; 'Adam Heath'; 'anthonyrobson@bbseven.com'

Cc: 'Gary Johnson'; Chris Simmons; 'Barry.Hill@durkan.co.uk'; Sophie Steed; 'Pat Phillips (Pat.Phillips@durkan.co.uk)'

Subject: RE: RE: Greenwich Wharf - Kooltherm K15

The BRE135 test was using an Envirowall insulated render product and not rainscreen so I don't see the relevance of this test to your make up?

Regards

Dave Cummins BSc (Hons) MRICS

Project Surveyor

Technical Services Department

Direct tel: [REDACTED]

Mobile: [REDACTED]

email: dcummins@nhbc.co.uk

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From: Matthew Colledge [<mailto:MC@squireandpartners.com>]

Sent: 09 January 2015 12:45

To: 'Adam Heath'; Dave Cummins; 'anthonyrobson@bbseven.com'

Cc: 'Gary Johnson'; Chris Simmons; 'Barry.Hill@durkan.co.uk'; Sophie Steed; 'Pat Phillips (Pat.Phillips@durkan.co.uk)'

Subject: RE: RE: Greenwich Wharf - Kooltherm K15

All,

Apologies, there was a typo in my previous email, for clarity please see correction in red below.

Regards,

Matthew Colledge

Associate

Squire and Partners

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From: Matthew Colledge

Sent: 09 January 2015 12:15

To: 'Adam Heath'; DCummins@NHBC.co.UK; anthonyrobson@bbseven.com

Cc: Gary Johnson; Chris Simmons; Barry.Hill@durkan.co.uk; Sophie Steed; Pat Phillips (Pat.Phillips@durkan.co.uk)

Subject: RE: Greenwich Wharf - Kooltherm K15

Adam,

Thank you for your response below and confirmation that K15 has been tested BS 8414-1 and BS 8414-2, please could you provide the test data sheets for reference? We note that paragraph 12.5 of AD B states that:

External walls should either meet guidance given in paragraphs 12.6 to 12.9 or meet the performance criteria given in the BRE report Fire Performance of external thermal insulation for walls of multi storey buildings (BR135) for cladding systems using full scale test data from BS 8414-1:2002 or BS 8414-2:2005.

Dave; on the basis of the above please confirm you are happy to accept that **our** external ventilated closed joint rainscreen wall build up is acceptable (as per attached details & previous Block 2 details with a Class 0 sheathing board)?

Please see attached test data for the insulated render cladding.

We look forward to your response.

Kind regards,

Matthew Colledge

Associate

Squire and Partners

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From: Adam Heath [<mailto:adam.heath@kingspan.com>]

Sent: 08 January 2015 10:57

To: Matthew Colledge

Cc: Gary Johnson; Chris Simmons

Subject: RE: Greenwich Wharf - Kooltherm K15

Dear Matthew,

Further to our discussions regarding the certification and testing of Kingspan's high performance rain screen insulation board Kooltherm K15, we can confirm the following.

Section 12.7 of Approved Document B states that "In a building with a storey of 18m or more above ground level any insulation product, filler material (not including gaskets, sealants and similar) etc. used in the external wall construction should be of limited combustibility (see Appendix A)."

The Kooltherm K15 as a material does not fall under the definition of non-combustibility or limited combustibility, however this does not preclude the use of Kooltherm K15 being used for buildings with a habitable storey above 18m in height, as set out in the Building Regulations, in Approved Document B: 2006, Section 12.5. The alternative route to compliance is 'BR 135 - Fire performance of external thermal insulation for walls of multi-storey buildings'. This is an assessment method of BS 8414 part 1 & 2 which are large scale fire tests.

Kingspan Insulation Limited has tested Kooltherm K15 successfully to BS 8414-1 and BS 8414-2. These tests have been commissioned to demonstrate a range of approval and include scope for insulation thickness and cladding finish type.

To cover the largest scope of substrates Kingspan Kooltherm K15 has been tested to BS 8414 - 2 onto a 12mm cement particle board. This is the minimum performance criteria for a sheathing board used behind K15 in order to comply with our testing.

To comply with the BS 8414 testing conducted by Kingspan Insulation Ltd, horizontal cavity barriers need to be installed at centres not exceeding 3.5m.

The proposed EPS render system would also need to meet the criteria outlined in BR 135 as EPS is not a material of limited combustibility either. Many of the leading insulated render system providers offer a phenolic solution with this level of approval.

This information is provided in good faith and in recognition of the restrictive nature of the regulatory demands of this application. Our assessment is intended to best inform Building Control Professionals in order that a decision can be made to its appropriateness or as evidence towards compliance via a fire engineering approach as allowed by Approved Document B. Ultimately the success of the specification depends on Building Control acceptance.

We trust the above is satisfactory going forwards. If you have any further queries do not hesitate to contact the undersigned.

Kind regards,

Adam Heath

Technical Project Leader

Direct tel: [REDACTED]

From: Matthew Colledge [<mailto:MC@squireandpartners.com>]

Sent: 08 January 2015 09:30

To: Adam Heath

Cc: Gary Johnson; Chris Simmons

Subject: RE: Greenwich Wharf - Kooltherm K15

Adam,

Please see attached coloured elevations indicating different cladding systems as requested.

If you require any further information please do not hesitate to get in touch.

Regards,

Matthew Colledge

Associate

Squire and Partners

77 Wicklow Street London WC1X 9JY

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From: Adam Heath [<mailto:adam.heath@kingspan.com>]

Sent: 08 January 2015 09:09

To: Matthew Colledge

Cc: Gary Johnson; Chris Simmons

Subject: RE: Greenwich Wharf - Kooltherm K15

Hi Matthew,

Would it be possible for you to send over the elevations for the construction, highlighting which areas the details refer to?

This will assist us in going into further writing on this project.

Kind regards,

Adam Heath

Technical Project Leader

Direct tel: [REDACTED]

From: Matthew Colledge [<mailto:MC@squireandpartners.com>]

Sent: 07 January 2015 18:11

To: Adam Heath

Cc: Gary Johnson; Chris Simmons

Subject: RE: Greenwich Wharf - Kooltherm K15

Adam,

Further to your previous email please could you help assist in confirming the request from NHBC below:

you will need to obtain written confirmation from Kingspan's technical department that they have reviewed these specific details and confirm they meet the requirements of Approved Document B Volume 2 Paragraph 12.7.

Please see attached details, which indicate the calcium silicate board within the build-up.

We look forward to your response.

Please do not hesitate to get in touch if you have any queries.

Kind regards,

Matthew Colledge

Associate

Squire and Partners

77 Wicklow Street London WC1X 9JY

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From: Adam Heath [<mailto:adam.heath@kingspan.com>]

Sent: 18 August 2014 15:53

To: Matthew Colledge

Cc: Gary Johnson; Chris Simmons

Subject: Greenwich Wharf - Kooltherm K15

Dear Matthew,

Further to our previous discussions with regards to the above mentioned project and the use of Kooltherm K15 within the ventilated rainscreen façade system, in a building with a habitable storey of 18 metres or more above ground level, we can confirm the following.

It is our opinion that our Kooltherm K15 product would be fit for purpose if installed onto a cement particle board (class 0 with regards to fire propagation tested to BS476 parts 6 & 7). While the use of a cement particle board as sheathing is deemed acceptable by Kingspan, some warrantee providers may still require a none combustible substrate. In situations like these a calcium silicate board or similar may have to be adopted. As such the sheathing board specified for your construction (calcium silicate) would be deemed acceptable by Kingspan Insulation Ltd.

In order to comply with our testing, horizontal cavity barriers should be installed at centres not exceeding 3.5m.

As with all large and complex buildings a fire safety engineering approach is recommended as the only practical way of achieving fire safety. Our test information and its assessment is intended to best inform Building Control Professionals in order that a decision can be made to its appropriateness or as evidence towards compliance via a fire safety engineering approach as allowed by our regulations. Ultimately the success of the specification depends on Building Control acceptance.

We trust this is of assistance going forwards. If you have any further queries let us know.

Kind regards,

Adam Heath

Technical Project Leader

Direct tel: [REDACTED]

From: Matthew Colledge [<mailto:MC@squireandpartners.com>]

Sent: 15 August 2014 17:40

To: Adam Heath

Cc: Gary Johnson; Chris Simmons

Subject: RE: Rain screen Installation Kingspan

Adam,

Cladding types are as below:

- Zinc Rainscreen (KME Proteus, <http://www.kmearchitectural.com/>) – 458m2
- Granite Rainscreen (Stone Panels, <http://www.stonescreenlite.com/>) – 422m2
- Timber Rainscreen (not a specific product but European oak battend on a bracket system) – 235m2
- PPC Aluminium rainscreen – 989m2

Fire barriers would a rockwool product – TBC.

Please do not hesitate to get in touch if you require any further information.

Regards,

Matthew Colledge
Associate

Squire and Partners

77 Wicklow Street London WC1X 9JY
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MC@squireandpartners.com

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From: Adam Heath [<mailto:adam.heath@kingspan.com>]
Sent: 13 August 2014 13:44
To: Matthew Colledge
Cc: Gary Johnson
Subject: RE: Rain screen Installation Kingspan

Dear Matthew,

Many thanks for your recent enquiry. Could you please confirm the name of the 3 types of rainscreen cladding being used. In addition could you provide us with the proximity of the fire barriers and type you are using.

Following this we can write to satisfy the NHBC requirements.

If you have any further queries let me know.

Kind regards,

Adam Heath

Technical Project Leader

Direct tel: [REDACTED]

From: Matthew Colledge [<mailto:MC@squireandpartners.com>]
Sent: 12 August 2014 12:21
To: Gary Johnson
Subject: RE: Rain screen Installation Kingspan

Gary,

Please see completed questionnaire attached. Please give me a call regarding the NHBC query when you have a chance.

Regards,

Matthew Colledge

Associate

Squire and Partners

77 Wicklow Street London WC1X 9JY

T [REDACTED] F [REDACTED]

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From: Gary Johnson [<mailto:gary.johnson@kingspan.com>]

Sent: 12 August 2014 11:53

To: Matthew Colledge

Subject: Rain screen Installation Kingspan

Hi Matthew

I am so sorry no one as responded to your earlier e mail on this matter. I have try to ring you this morning but you were in a meeting.

Could I ask if you could fill out our Façade Questionnaire and I will ring you shortly to discuss.

Regards

Gary Johnson

Specifications Manager

Kingspan Insulations Limited

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