From: Chris C. Mort
Sent: 19 November 2014 14:30
To: 'Amaury QUEUILLE'
Cc: Steve Swales; Andrew Kay
Subject: RE: [CAREA FACADE - BS8414-2 - Technical Drawing]

Amaury,

I have carefully reviewed your drawings and can offer the following corrective actions that will assist in a successful test.

- Please review attached before reading comments below, and this detail is based on a number of successful tests.
- The steel SFS framing needs to be spanning between the horizontal steel RHS of the test frame and not fixed in front of the RHS.
- The back face or what would be the internal wall, two layers of fire resistant plasterboard
- Steel SFS framing insulated as detailed for a fire rated wall construction, please refer sfs manufacturer.
- The SFS is then cladding in continuous but jointed cement particle board of a suitable thickness for FR.
- Siderise RV barriers installed as detailed in your drawing
- Siderise RH25G installed in between the RV barriers
- Kingspan K15 then insulated the full construction.

Please note the addition of a third main horizontal cavity barrier 2500mm above the second floor level, I have witnessed this at a recent test and it was permitted by Phil Clarke the BRE Lab manager, as in reality there would be such a cavity barrier on project where the next floor level would be, this would support a successful test better than larger spacing of cavity barriers.

As previously mentioned your system uses a Class 'M2' external façade board, from my experience a Class 'M2' or equivalent Class 'C' European façade board will not pass this test, and even with a selected Class 'A1' board the type and thickness are also critical to a successful test, and that regardless of cavity barriers and thermal insulation if the external board fails then these components are redundant.

I will base our samples on the revised details and arrange from them to be delivered to BRE, what date do you require them to be delivered? Also what date would you like training on the installation of these barriers?

Please feel free to give me a call to discuss the above information in detail.

Kind regards
Chris Mort
Technical Officer Fire
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Connect to us:

From: Amaury QUEUILLE [mailto:aqueuille@carea.fr]
Sent: 18 November 2014 16:49
To: Chris C. Mort; Ivor Meredith; Dave Duplock; Dave Mellis
Cc: Antoine CARRE; Thomas DELEPINE; Stéphane BERT; Vincent VUILLAUMIE
Subject: [CAREA FACADE - BS8414-2 - Technical Drawing]

Hi Gentlemen,

Please find in attachment the technical drawing of the design for the BS8414-2.
Please carefully take a look on, and tell me if anything is wrong.
The fire barriers are deeper, the METSEC frame with two plasterboard have been added. The distance between fire barriers has been increased.
I've also bought the BS8414-2.

I'm looking forward to hearing you soon.

Thank you for your comments.

Kind regards

Mr. QUEUILLE Amaury

Engineering Standards and Regulations

[redacted]

CAREA FAÇADE – Member of CWCT - ZA Bel Air 49520 COMBRÉE FRANCE

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