

Message

From: Warren, Rob [/o=SGMAIL/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=Warren, Robc5f]
on behalf of Warren, Rob [/o=sgmail/ou=exchange administrative group (fydibohf23spdlT)/cn=recipients/cn=warren, robc5f]
Sent: 15/08/2014 13:31:44
To: Roome, Jonathan [jroome@celotex.co.uk]
CC: Berger, Debbie [dberger@celotex.co.uk]; Hayes, Jamie [jhayes@celotex.co.uk]
Subject: RE: CPD Follow-up Questions

Jonathan

Here are the answers to your questions:

- In a fire what gas/s are given off?

In general, I would not get drawn too far into the whole question of fire. Our product is used and tested in accordance with the Building Regulations and is suitable for use in a number of applications where fire needs to be considered.. Celotex products have repeatedly proven to show unique performance characteristics in a continuing programme of large scale "Reaction to Fire" tests such as timber frame constructions and cladding situations above 18m .

I attach a (lengthy) report on the fire characteristics of PUR products from ISOPA. On page 12 it states:

"As all organic materials, polyurethane foam is combustible. When exposed to heat or ignition sources, polyurethane rigid foams start to decompose at temperatures of $T \geq 250^{\circ}\text{C}$. There is no melting in general and burning droplets are not formed during the whole fire. There is no smouldering behaviour as seen e.g. for cork or for some high density mineral insulation materials."

There are other tables that show that PUR is less toxic than wood for example. (tables 14 and 15 on page 21). If you really want to revise the topic it's a great read. Honest.

- Passivehaus Case Study
 - What were the construction costs?
 - Do we have any details on the costs compared with the life of the building. (A little dubious of the savings versus cost argument as glazing needs to be replaced every 15 – 20 years)

I checked with Marketing and we do not have any more details on this. I have asked that we try to find out such facts on future case studies.

- Do we have a product for Acoustic Flanking? (I expect not but I thought I would ask anyway).

No

- Part L Changes – What is the impact on existing structures when extending an existing building? Upgrade of insulation / boiler in existing building?

There is no requirement in England or Scotland to upgrade the existing building when carrying out extension works. This requirement is called 'Consequential Improvements'. It

was proposed in the last 3 Part L changes and chunked out each time. It would of course in our view make sense to look at ways to reduce CO2 from existing buildings when having extension work carried out and to maximise the fabric performance in the extension itself so as to keep fuel bills to a minimum. The new version of Wales Part L does have a requirement for Consequential Improvements – basic measures such as loft insulation, CW insulation and draught proofing should be done when increasing habitable space.

- Bedford University Case Study – What exactly were the BREEAM points achieved by using Celotex to achieve the BREEAM Excellent rating?

No further information on this – once again, one to ask in future case studies.

- SIPS Panels – Do we / are we looking at developing a product with a SIPS manufacturer such as <http://www.uksips.org/profiles/?type=1>
 - Most SIPS panels are manufactured with either XPS or EPS foam which is not a thermally efficient as Celotex.

Celotex is a high performance insulation and of course we are always looking at other areas where that performance could be utilised. We are not at liberty to divulge any steps we may be taking in that direction.

- Plasterboard Laminate – They thought that to maintain the Vapour Barrier the foil tape should be used on the foil rather than the Laminate face (Not practice). What would your answer be to the resistance of moisture using this product and why?

The insulation used in our plasterboard laminate products has an inbuilt foil layer acting as a VCL in a similar way to that of foil backed plasterboards. The long established method used in the drylining industry to maintain a VCL layer at the joints is to use the scrim tape and jointing compound as described in our guidelines. This method is suitable where standard levels of humidity are expected. In areas of high humidity, such as bathrooms, swimming pools, further advice should be sought to ensure the correct selection of materials designed to be used in high humidity zones are chosen.

- BRE A+ Rating – What was the accreditation process? Do we have any more information on the process & scoring?

It's a lengthy process taking into account many factors of product from cradle to grave. Paul has covered much of this information in the sustainability induction (attached). If you need more detail please let me know

- BG Thermoline Product (With Phenolic) – Are we looking at a JV?

Thank you for the question however we are unable to comment on JV's for confidentiality reasons.

- Liquid Roofing Systems – Do we have a list of which systems we are recognised with? Polyroof specify Kingspan Thermaroom TR26FM in the datasheet (attached).
 - Also with our Wood Laminate products, does we use an approved grade of plywood to satisfy some Liquid Roofing Systems (Or is our laminate not suitable for these applications, due to the thickness of the wood).

Suppliers of liquid applied systems will have their own criteria for compliance of insulation boards with their systems. We do not have a list and it is better to ask the system supplier

which insulation products are suitable as they are the ones who will be offering any system guarantee or performance standard.

We do not have a product laminated to specific grade of plywood that is approved for use with liquid applied systems. Of course, such plywood could be purchased separately and used in conjunction with Celotex products if required.

- Carbon Offsetting. How much do we know about the EU looking into this as a way of reducing our commitment to PART L in future to meet our 2016 0 Carbon commitment?

The whole area of Carbon Offsetting towards the construction of Zero Carbon Homes in 2015 is being addressed by something called Allowable Solutions. Proposals for the allowable Allowable Solutions are out for consultation at the moment. We believe that the best approach is to ensure that a fabric first approach is taken to ensure that carbon reduction from the fabric of the building is maximised, thereby reducing the need to offset so much carbon later on in the calculation.

- CAD Software & BIM Objects. They are using a software package by Bentley Systems called AECOSim Microstation. Although I have found Bentley on the dropdown menu, is this the correct data?

Yes it is the correct data for use with this software (answered by our BIM Guru, Mr Roper)

- U Value Calculator – Future release
 - When creating build-up please can you limit the solution to only relevant products rather than the whole portfolio.
 - Add Cross Laminated Timber to the options within the Build-up options.

Thank you for your feedback. We are always looking to make the calculator as relevant as possible and we will feed back your comments to the team.

I hope you find this useful and thanks for the questions. It really does help to understand the questions that are asked as it makes us aware of the issues that interest our customers. If they interest our customers they should fascinate us.

Have a good weekend,

Rob

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Please consider the environment before printing this email

From: Roome, Jonathan
Sent: 24 July 2014 15:17
To: Celotex, Technical; Warren, Rob
Cc: Berger, Debbie
Subject: CPD Follow-up Questions
Importance: High

Hi Rob & Team,

I have another barrage of CPD questions for you that I would like your response. Apologies for the list but I have only just been able to collate all of the questions!

ORMS

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Kind regards,
Jonathan

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