

This certificate is valid for Building Regulations & associated technical guidance in force on the date of registration and for the regulations in the countries indicated

## Celotex Ltd - Celotex RS5000 Insulation Board (Rain screen application)

### Description of Product

This is an assessment of a PIR insulation board by Celotex designed for use within rain screen construction. RS5000 is a textured aluminium foil faced PIR board that comes in thicknesses of between 50mm and 150mm and goes through the same manufacturing process as the Celotex FR5000 product, the difference being it has been assessed by the BRE and complies with BR135:2013 for use in rain screen applications above 18 metres in height  
\*see conditions of certificate for more information.



### Key Factors Assessed

- ☐ Mechanical Resistance & Stability - Approved Document A
- ☐ Safety in case of Fire
- ☐ Health, Hygiene and Environmental - Approved Document C
- ☐ Safety in Use - Approved Document A
- ☐ Energy Economy and heat retention - Approved Document L
- ☐ Durability serviceability and identification

### Validity

This certificate was first issued on 21st August 2014 and is valid until 21st August 2015.  
Issue Dated 13<sup>th</sup> August 2014

## Scope of Registration

Celotex has provided test reports undertaken by BRE and BBA to verify the product from both performance in fire and thermal properties. The product is much the same as their FR5000 board but is specifically tested to be used with rainscreen constructions above 18 metres. The board comes in various thicknesses and can be used with a variety of cladding systems (including masonry or rain screen systems) and can be fixed back to a structural steel frame with a sheathing board or direct back to masonry.

Celotex RS5000 has been successfully tested to BS 8414:2 2005, meets the criteria set out in BR135: 2013 and therefore is acceptable for use in buildings with storeys above 18m in height (subject to matching the specification criteria of the BRE fire test report 295255 carried out ) as alternative compliance to AD B.

The product has a 'Class O' spread of flame classification as demonstrated in the test report provided by the BRE.

The BBA have also tested the Celotex FR5000 PIR insulation material showing it achieves a lambda value of 0.021 W/m<sup>2</sup>.

Celotex provide an online 'U' value calculator to determine the required thickness of board for use with varying types of construction.

Celotex foil faced PIR products are impermeable and this needs to be taken account when considering the form of construction.

## Conditions of Certificate

For use in rainscreen wall construction including above 18 metres height.

The required thickness of board for a particular construction must be established with the use of the Celotex online calculator. Celotex RS5000 can be used with a variety of cladding systems (including masonry or rainscreen systems) and can be fixed back to a structural steel frame with a sheathing board or direct back to masonry.

Celotex foil faced PIR products are impermeable and this needs to be taken account when considering the form of construction.

For use on buildings with a floor more than 18m above ground level, Celotex RS5000 has been successfully tested to BS 8414 part 2:2005 and meets the criteria set out in Annexe B of BR 135: 2013. This classification is only valid for the system specification and detailing outlined in section 2 of the BRE fire test report 295255 including the associated details found in section 4 test reports as an alternative compliance to AD B. A full copy of the report should be made available by Celotex Ltd. Celotex RS5000 is suitable for use in all wind exposures provided the fixing specification meets the relevant British standards.



LABC consider that, Celotex RS5000, will meet the functional requirements of the Building Regulations (listed below) if the criteria detailed in this certificate are met;

## The Building Regulations 2010 (as amended) England & Wales

Regulation 7      Materials and workmanship

Note:              The products are acceptable.

AD B              Fire Safety

Note:              Subject to limitations detailed below in Conditions section.

AD C              Site preparation and resistance to contaminants and moisture

Note:              Subject to limitations detailed below in Conditions section.

AD L              Conservation of fuel and power

Note:              The thermal insulation performance of this system should be considered in the context of the contribution made to the overall performance of the wall.



## The Building Regulations 2010 (as amended) England

AD L1A            Conservation of fuel and power

Note:              The thermal insulation performance of this system should be considered in the context of the contribution made to the overall performance of the wall.



## The Building Regulations 2010 (as amended) Wales

AD L1A            Conservation of fuel and power

Note:              The thermal insulation performance of this system should be considered in the context of the contribution made to the overall performance of the wall.



## The Building (Scotland) Regulations 2004 (as amended)

If you would like to discuss a specific use of the product in Scotland it will require an additional assessment under the Scottish Building Regulations and accordingly you should contact the LABSS STAS Administrator at [www.labss.org](http://www.labss.org)

## Non-Regulatory Information



### LABC Warranty

Not applicable

## Supporting Documentation

Celotex 18 metre product quality production extract

SGS ISO 14001:204 Certificate

SGS ISO 9001: Certificate

BBA letter FR5000 CG5000 21 Lambda classification

BBA spreadsheet for lambda data

BRE report 14th July 2014 indicate Class O spread of flame

Typical illustration for rain screen cladding

BRE letter 17th June 2014 RE BS8414 Test

BRE letter 17th November 2011 RE Class O testing

## Contact Information

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