



## Celotex FR5000

Premium Multi-Purpose Insulation Board

**Celotex**  
Insulation Specialists

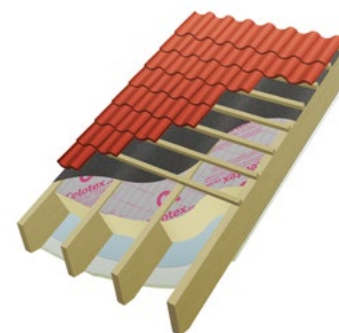
### Introduction

Celotex FR5000 is our premium performance PIR solution. Through ongoing product innovation and breakthrough design, FR5000 represents pioneering progression within the PIR market offering an insulation board with enhanced thermal performance as well as an A+ rating when compared to the BRE Green Guide, Class O fire performance and super low emissivity values with Celotex IQ.

With super low emissivity textured aluminium foil facings, FR5000 is manufactured from rigid polyisocyanurate (PIR) using a blowing agent that has low global warming potential (GWP) and zero ozone depletion potential (ODP) .

With Celotex FR5000 you are specifying an insulation board that:

- Has a lower thermal conductivity value (0.021W/mK) compared with other typical PIR insulation boards providing enhanced thermal performance
- Has super low emissivity with Celotex IQ, delivering some of the highest rigid board insulation solutions
- Achieves an A+ rating when compared to the BRE Green Guide
- Has Class O fire performance throughout the entire product in accordance with BS 476
- Is available in a broad range of thicknesses from 25mm-150mm
- Is suitable for a range of applications



Celotex FR5000 between rafters

### Applications

Celotex FR5000 can be specified for use in a variety of applications including:

- Pitched roofs
- Walls
- Floors

### Specification Clause

The insulation shall be Celotex FR5000 \_\_\_\_\_mm thick, comprising a polyisocyanurate rigid foam insulation core featuring Celotex IQ providing super low emissivity, textured aluminium foil facings on both sides and Class O fire performance throughout the product in accordance with BS 476. FR5000 is A+ rated when compared to the BRE Green Guide and is CFC/HCFC free with low GWP and zero ODP and CE marking compliance to BS EN 13165. FR5000 is manufactured in accordance with quality management systems ISO 9001 and environmental management system ISO 14001. All products must be installed in accordance with instructions issued by Celotex Limited.

### Sustainable Insulation

Celotex PIR insulation has been independently assessed by BRE Global and has been accredited with an A+ rating when compared to the BRE Green Guide.

The results also show that Celotex offers a lower environmental impact than other typical PIR manufacturers.

For further information about Celotex' sustainable insulation solutions, visit the sustainability pages of the website at [celotex.co.uk](http://celotex.co.uk)



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### Celotex FR5000 Technical Data

Product Code	Thickness (mm)	R-value (m <sup>2</sup> K/W)	Weight (kg/m <sup>2</sup> )
FR5025	25	1.15	1.01
FR5040	40	1.90	1.49
FR5050	50	2.35	1.81
FR5060	60	2.85	2.16
FR5070	70	3.30	2.48
FR5075	75	3.55	2.64
FR5080	80	3.80	2.80
FR5090	90	4.25	3.12
FR5100	100	4.75	3.38
FR5120	120	5.70	4.02
FR5150	150	7.10	4.98

### Physical Properties

	Method	FR5000
Compressive strength	BS EN 826	≥120kPa
Dimensional stability	BS EN 1604	DS(TH)8
Water vapour resistance	BS EN 12086: Method B	>150 MNs/g
Thermal conductivity	BS EN 12667	0.021 W/mK
Fire propagation	BS 476: Part 6	Pass
Surface spread of flame	BS 476: Part 7	Class 1

### Typical U-values

U-values will vary depending on application. To calculate a specific U-value, please visit our online U-value calculator at [celotex.co.uk](http://celotex.co.uk)

### Installation Guidelines

Installation of Celotex FR5000 will depend on application type. For full details of the installation of Celotex FR5000, please refer to the 'applications' pages of the website at [celotex.co.uk](http://celotex.co.uk) and select the application of interest.

### Further Information

If you wish to contact Celotex, please visit [celotex.co.uk](http://celotex.co.uk) and click on the 'contact us' page.

Health and Safety information can be found by visiting the 'Resources' pages of the website at [celotex.co.uk](http://celotex.co.uk).

Celotex has a policy of continuous product development and reserves the right to alter product designs or specifications without prior notice.

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