

## Celotex FR5000

### 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 2008 and Class O fire performance throughout the entire product.

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

With 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 and better U-values
- Achieves an A+ rating when compared to the BRE Green Guide 2008
- 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 and in a board size of 1200mm x 2400mm
- Includes low emissivity textured aluminium foil facings giving improved thermal performance within cavity air-spaces
- Is suitable for a range of applications

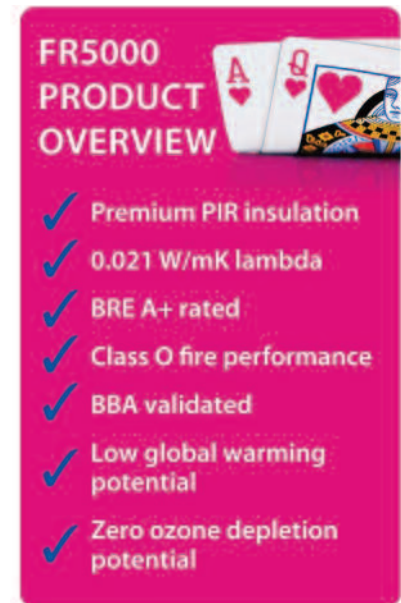
### Applications

Celotex FR5000 can be specified 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 with a thermal conductivity of 0.021 W/mK with low emissivity aluminium foil facings on both sides. Celotex FR5000 offers Class O fire performance throughout the entire product in accordance with BS 476 Parts 6 & 7 and is CFC/HCFC free with zero ODP and low GWP. Celotex FR5000 is manufactured in accordance with BS EN 13165, quality management system ISO 9001 and environmental management system ISO 14001. Celotex FR5000 achieves an 'A+' rating when compared to the BRE Green Guide 2008. All products must be installed in accordance with instructions issued by Celotex..



**FR5000  
PRODUCT  
OVERVIEW**

- ✓ Premium PIR insulation
- ✓ 0.021 W/mK lambda
- ✓ BRE A+ rated
- ✓ Class O fire performance
- ✓ BBA validated
- ✓ Low global warming potential
- ✓ Zero ozone depletion potential

### 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 2008.

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

## Typical U-values

U-values will vary depending on application. To calculate a specific U-value, please refer to 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 'application' 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.

For information regarding [storage, installation and handling](#) of Celotex products, or for [Health & Safety](#) advice, please refer to the 'literature' 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.

\*Calls to the Celotex Technical Centre are charged at 30p per minute from a BT landline and lines are open Monday - Friday from 8.00am - 5.15pm. Details are correct at date of publication - July 2011.

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