

## Celotex FF4000

### Introduction

Celotex FF4000 is a product range aimed specifically at the underfloor heating market where the increased compressive strength of the board provides better dimensional stability and resistance to site traffic during installation whilst the foam structure ensures better pipe clip retention.

FF4000 is manufactured using rigid polyisocyanurate foam and zero ozone depletion potential (ODP) blowing agents with low global warming potential (GWP) and low emissivity aluminium foil facings on both sides.

With Celotex FF4000 you are specifying an insulation board that:

- Ensures minimal downward heat loss into structure
- Is easy to cut and fit into most spaces
- Uses the foam structure to ensure better pipe clip retention
- Provides reliable long term energy savings for buildings
- Has excellent dimensional stability
- Is available in a standard board size of 1200mm x 2400mm

### Applications

Celotex FF4000 is purpose designed for use in internal **underfloor heating** applications.

### Specification Clause

The insulation shall be Celotex FF4000 \_\_\_\_\_mm thick comprising a polyisocyanurate rigid foam insulation core with a thermal conductivity of 0.022 W/mK with low emissivity aluminium foil facings on both sides. Celotex FF4000 is CFC/HCFC free with zero ODP and low GWP and CE marking compliance to BS EN 13165. Celotex FF4000 is manufactured in accordance with quality management system ISO 9001 and environmental management system ISO 14001. All products must be installed in accordance with instructions issued by Celotex.

### Celotex FF4000 Technical Data

Product Code	Thickness (mm)	R-value (m <sup>2</sup> K/W)	Weight (kg/m <sup>2</sup> )
FF4050	50	2.25	1.81
FF4070	70	3.15	2.45
FF4075	75	3.40	2.61
FF4085	85	3.85	2.93
FF4090	90	4.05	3.09
FF4100	100	4.50	3.41
FF4125	125	5.65	4.21

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Celotex FF4000, for underfloor heating applications

### 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)



## Physical Properties

	<b>Method</b>	<b>FF4000</b>
<b>Compressive strength</b>	BS EN 826	≥150kPa
<b>Dimensional stability</b>	BS EN 1604	DS(TH)8
<b>Water vapour resistance</b>	BS EN 12086	>150 MNs/g
<b>Thermal conductivity</b>	BS EN 12667	0.022 W/mK

## Typical U-values

U-values will vary depending on application build-up. To calculate a specific U-value, please refer to our online [U-value calculator](#) at [celotex.co.uk](#)

## Installation Guidelines

Installation guidelines will vary according to application. For full details regarding the use of Celotex FF4000, please refer to the 'application' pages of the website at [celotex.co.uk](#) and select the 'Underfloor Heating' datasheet.

## Further Information

If you wish to contact Celotex, please visit [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](#)

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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