

Celotex CG5000

Introduction

Celotex CG5000 is our premium performance PIR solution specifically designed for use within partial fill cavity wall applications. Through ongoing product innovation and breakthrough design, CG5000 represents pioneering progression within the PIR market offering an insulation board with enhanced thermal performance, 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, CG5000 is manufactured from rigid polyisocyanurate (PIR) using blowing agents that have low global warming potential (GWP) and zero ozone depletion potential (zero ODP).

With CG5000, you are specifying an insulation board that:

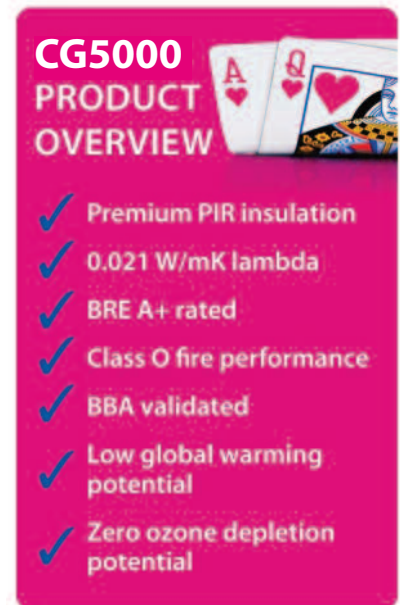
- Has a lower thermal conductivity value (0.021W/mK) compared with other typical PIR insulation boards providing enhanced thermal performance and better U-values.
- Achieves an A+ rating when compared to the BRE Green Guide 2008
- Has Class O fire performance throughout the entire product in accordance with BS 476
- Is available in a range of thicknesses from 40mm-100mm and in a board size of 1200mm x 450mm
- Includes low emissivity textured aluminium foil facings giving improved thermal performance within cavity air-spaces
- Is specifically targeted at partial-fill cavity wall applications

Applications

Celotex CG5000 is specifically for use within **partial fill cavity wall** applications.

Specification Clause

The insulation shall be Celotex CG5000 _____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 CG5000 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 CG5000 is manufactured in accordance with BS EN 13165, quality management system ISO 9001 and environmental management system ISO 14001. Celotex CG5000 achieves an 'A+' rating when compared to the BRE Green Guide 2008. All products must be installed in accordance with instructions issued by Celotex.



CG5000
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



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Celotex CG5000 Technical Data

Product Code	Thickness (mm)	R-value (m ² K/W)	Weight (kg/m ²)
CG5040	40	1.90	1.49
CG5050	50	2.35	1.81
CG5060	60	2.85	2.16
CG5070	70	3.30	2.48
CG5075	75	3.55	2.64
CG5085	85	4.00	2.96
CG5100	100	4.75	3.38

Physical Properties

	Method	CG5000
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 refer to our online [U-value calculator](#) at [celotex.co.uk](#)

Installation Guidelines

Installation of Celotex CG5000 will depend on application type. For full details of the installation of Celotex CG5000, please refer to the 'application' pages of the website at [celotex.co.uk](#) and select **masonry cavity walls**.

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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