

Celotex GA4000

Introduction

Celotex GA4000 is a general purpose insulation board for floors, walls and roofs. It has long been at the heart of the Celotex product range providing the user with a range of thermal insulation solutions.

With low emissivity foil facings, GA4000 is manufactured from rigid polyisocyanurate (PIR) using a blend of blowing agents that have zero ozone depletion potential (zero ODP) and low global warming potential (GWP).

With Celotex GA4000 you are specifying an insulation board that:

- Is suitable for use in a number of applications including roof, wall and floor systems
- Comes in thicknesses ranging from 50mm-100mm
- Is easy to cut and shape
- Includes low emissivity foil facings giving improved thermal insulation performance within cavity air spaces
- Provides reliable long-term energy savings for buildings
- Is available in a standard board size of 1200mm x 2400mm

Applications

Celotex GA4000 can be specified for use in a variety of applications including:

- **Pitched Roofs**
- **Flat Roofs**
- **Solid Masonry Walls**
- **Timber Framed & Steel Framed systems**
- **Floors**

Specification Clause

The insulation shall be Celotex GA4000 _____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 GA4000 is CFC/HCFC free with zero ODP and low GWP and CE marking compliance to BS EN 13165. Celotex GA4000 is manufactured in accordance with quality management system ISO 9001 and environmental management system ISO 14001. Celotex GA4000 achieves an 'A+' rating when compared to the BRE Green Guide 2008. All products must be installed in accordance with instructions issued by Celotex.



Celotex GA4000 in a masonry wall application

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 GA4000 Technical Data

Product Code	Thickness (mm)	R-value (m ² K/W)	Weight (kg/m ²)
GA4050	50	2.25	1.55
GA4055	55	2.50	1.68
GA4060	60	2.70	1.90
GA4065	65	2.95	2.05
GA4070	70	3.15	2.19
GA4075	75	3.40	2.34
GA4080	80	3.60	2.48
GA4085	85	3.85	2.62
GA4090	90	4.05	2.76
GA4095	95	4.30	2.90
GA4100	100	4.50	3.27

Physical Properties

	Method	GA4000
Compressive strength	BS EN 826	≥140kPa
Dimensional stability	BS EN 1604	DS(TH)8
Water vapour resistance	BS EN 12086: Method B	>150 MNs/g
Thermal conductivity	BS EN 12667	0.022 W/mK
Surface spread of flame	BS 476-7	Class 1 (50mm - 90mm only)

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 GA4000 will depend on application type. For full details of the installation of Celotex GA4000, please refer to the 'application' pages of the website at [celotex.co.uk](#) and select the application of interest.

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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