



Celotex GS5000

Plasterboard Thermal Laminate Insulation Board

Celotex
Insulation Specialists

Introduction

Celotex GS5000 is a plasterboard thermal laminate comprising of premium PIR insulation bonded to 9.5mm tapered edge plasterboard. Designed specifically for mechanically fixed dry-lining systems, GS5000 can be used in internal solid wall upgrades or to provide a second layer of insulation including timber frame constructions and between and under pitched and flat roof applications.

Featuring a super low lambda performance of 0.021 W/mK with IQ emissivity, Celotex GS5000 enhances thermal performance in cavity air spaces when mechanically fixed to timber batten and metal lining systems. GS5000 is manufactured from rigid polyisocyanurate (PIR) using a blowing agent that has low global warming potential and zero ozone depletion potential.

With Celotex GS5000 you are specifying an insulation board that:

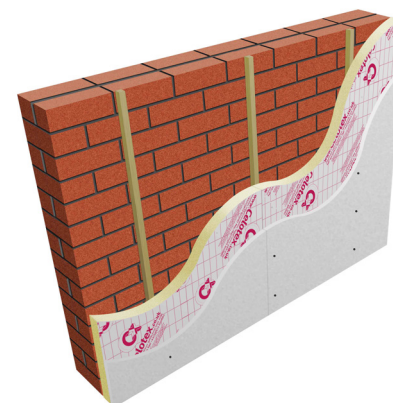
- Offers the highest performing PIR plasterboard thermal laminate
- Certified under BBA certificate number 12/4926 and is Ofgem approved
- Features Celotex IQ, providing super low emissivity values when installed onto timber batten or metal lining systems
- Available and accredited for a wide range of installation techniques providing speed and flexibility to the installer, offering time and cost savings
- Uses 50% less insulation than some other certified systems helping optimise internal living space
- Can achieve up to 30% better U-values using comparable build ups, assisting in delivering enhanced carbon savings
- Allows common target U-values to be met with the thinnest possible solution
- Offers up to 15% thinner solutions than typical PIR

Applications

Celotex GS5000 is purpose designed for providing better U-values and thinner solutions in solid wall upgrades and other dry-lining applications including timber frame constructions and the underneath layer of between and under build-ups in pitched and flat roofs.

Specification Clause

The insulation shall be Celotex GS5000 _____mm thick comprising a polyisocyanurate rigid foam insulation core with a thermal conductivity of 0.021W/mK with aluminium foil on both sides bonded to a layer of 9.5mm tapered edge plasterboard. Celotex GS5000 is CFC/HCFC free with zero ODP and low GWP and CE marking compliance to BS EN 13950. Celotex GS5000 is manufactured in accordance with quality management system ISO 9001 and environmental management system ISO 14001. All



Celotex GS5000 in a internal solid 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.

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 GS5000 Technical Data

Product Code	Thickness (mm)	R-value (m ² K/W)	Weight (kg/m ²)
GS5025	25 + 9.5	1.20	7.20
GS5040	40 + 9.5	1.95	7.68
GS5050	50 + 9.5	2.40	8.00
GS5060	60 + 9.5	2.90	8.35

Physical Properties (*insulation only)

	Method	GS5000
Compressive strength*	BS EN 826	≥120kPa
Dimensional stability*	BS EN 1604	DS(TH)8
Thermal conductivity*	BS EN 12667	0.021W/mK
Fire resistance	BS EN 13501-1	Euroclass B-s1,d0

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

Installation Guidelines

Installation of Celotex GS5000 will depend on the application and installation type.

Further Information

If you wish to contact Celotex, please visit celotex.co.uk and click on the 'contact us' page.

Care and preventative measures should be taken when lifting and installing Celotex GS5000 due to the weight of the plasterboard. 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.

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