

Celotex PL4000

Introduction

Celotex PL4000 is a high performance thermal insulation board where the PIR insulation is bonded to tapered edge plasterboard.

PL4000 is manufactured from rigid polyisocyanurate (PIR) using a blowing agent that has zero ozone depletion potential (zero ODP) and low global warming potential (GWP).

With Celotex PL4000 you are specifying an insulation board that:

- Can be easily used to upgrade to current building regulation standards in pitched roof, flat roof and wall applications
- Ideal option for internal solid wall insulation
- Is suitable for both direct bonding ('dot and dab') and mechanically fixed installation techniques
- 15mm option provides ideal solution for window and door reveals
- Is certified under BBA certificate number 12/4926
- Ofgem approved
- Offers the installer maximum flexibility and installation speed due to the tapered edge plasterboard
- Offers the user the ability to install both the insulation and plasterboard in one operation, thus reducing installation times
- Future proofs the energy performance of new and existing buildings

Applications

Celotex PL4000 is purpose designed for providing thermal insulation and plasterboard as one product. PL4000 can be specified for use in a variety of applications including:

- Solid masonry walls
- The "underneath" layer of insulation in between and under rafter and joist applications
- Timber frame lining applications

Specification Clause

The insulation shall be Celotex PL4000 _____mm thick comprising a polyisocyanurate rigid foam insulation core with a thermal conductivity of 0.022 W/mK with aluminium foil/kraft paper facings on both sides bonded to a layer of tapered edge plasterboard. Celotex PL4000 is CFC/HCFC free with zero ODP and low GWP. Celotex PL4000 is manufactured in accordance with BS EN 13165, quality management system ISO 9001 and environmental management system ISO 14001. All products must be installed in accordance with instructions issued by Celotex.



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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



Celotex PL4000 Technical Data

Product Code	Thickness (mm)	Combined	
		R-value (m ² K/W)	Weight (kg/m ²)
PL4015	15 + 9.5	0.70	6.62
PL4025	25 + 12.5	1.20	9.06
PL4040	40 + 12.5	1.85	9.52
PL4045	45 + 12.5	2.10	9.67
PL4050	50 + 12.5	2.30	9.86
PL4055	55 + 12.5	2.55	10.01
PL4060	60 + 12.5	2.75	10.15
PL4065	65 + 12.5	3.00	10.30

Physical Properties (*insulation only)

	Method	PL4000
Compressive strength*	BS EN 826	≥120kPa
Dimensional stability*	BS EN 1604	DS(TH)8
Thermal conductivity*	BS EN 12667	0.022 W/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 refer to our online U-value calculator at celotex.co.uk.

Installation Guidelines

Installation of Celotex PL4000 will depend on application type. For full details on the installation of Celotex PL4000, 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.

Care and preventative measures should be taken when lifting and installing Celotex PL4000 due to the weight of the plasterboard. For Health & Safety advice or information regarding storage, installation and handling of Celotex products, 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 - September 2012.

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