

Celotex TB4000

Introduction

Celotex TB4000 is a multi-purpose insulation board developed to provide simple solutions for overcoming localised thermal bridges.

With low emissivity foil facings, TB4000 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). Our 12mm product positions Celotex as the manufacturer of the broadest range of product thicknesses, from 12mm-200mm.

With Celotex TB4000 you are specifying an insulation board that:

- Is specifically designed to eliminate thermal bridges
- Comes in thicknesses ranging from 12-45mm, making it the thinnest PIR insulation available, in a standard board size of 1200mm x 2400mm
- Is suitable for use in a number of applications including roof, wall and floor systems
- 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

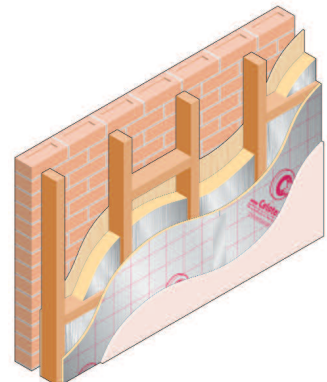
Applications

Celotex TB4000 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 TB4000 _____mm thick comprising a polyisocyanurate rigid foam insulation core, with a thermal conductivity of 0.022W/mK and low emissivity aluminium foil facings on both sides. TB4000 is A+ rated when compared to the BRE Green Guide 2008 and is CFC/HCFC free with zero ODP and low GWP. CE marking compliance to BS EN 13165:2001 and manufactured in accordance with quality management systems BS EN ISO 9001:2000 by Celotex Limited. All products must be installed in accordance with instructions issued by Celotex Limited.



Celotex TB4000 as an internal vapour control layer, preventing thermal bridging

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 TB4000 Technical Data

Product Code	Thickness (mm)	R-value (m ² K/W)	Weight (kg/m ²)
TB4012	12	0.50	0.50
TB4020	20	0.90	0.72
TB4025	25	1.10	0.85
TB4030	30	1.35	0.98
TB4035	35	1.55	1.11
TB4040	40	1.80	1.26
TB4045	45	2.00	1.40

Physical Properties

	Method	TB4000
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	0.022 W/mK
Surface spread of flame	BS 476-7	Class 1

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 TB4000 will depend on application type. For full details of the installation of Celotex TB4000, please refer to the 'applications' section 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 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 and pricing are correct at date of publication - June 2010.

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