

## Celotex TA4000

### Introduction

Celotex TA4000 provides a quick and easy method of achieving effective thermal insulation in single-ply flat roofing applications.

Manufactured with low emissivity foil facings and specifically for use in mechanically fixed and ballasted single-ply systems, TA4000 boards have a higher compressive strength which gives improved resistance to site traffic during installation.

With Celotex TA4000, you are specifying insulation board that:

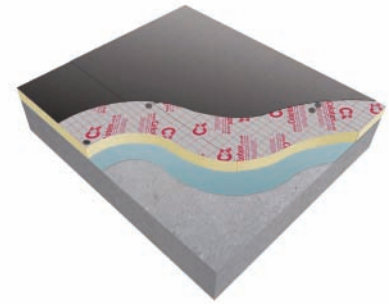
- Is designed for use in single-ply membrane applications where the board can be secured to the deck via mechanical fixings, thermally broken fixings or with ballast
- Achieves U-values with minimum thickness
- Is strong and durable
- Is rot proof
- Is dimensionally stable and unaffected by temperature cycles
- Is easy to cut
- Comes in a range of thicknesses and in a standard board size of 1200mm x 2400mm
- Is ideal for fast construction schedules

### Applications

- **Under mechanically fixed single-ply**
  - PVC membranes
  - EPDM membranes

### Specification Clause

The insulation shall be Celotex TA4000 \_\_\_\_\_mm thick comprising a polyisocyanurate rigid foam insulation core with a thermal conductivity of 0.022 W/mK and low emissivity aluminium foil facings on both sides. Celotex TA4000 is CFC/HCFC free with zero ODP and low GWP and CE marking compliance to BS EN 13165. Celotex TA4000 is manufactured in accordance with quality management system ISO 9001 and environmental management system ISO 14001. All products must be installed in accordance with instructions issued by Celotex.



Celotex TA4000 over concrete deck

### 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](http://celotex.co.uk)



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## Celotex TA4000 Technical Data

Product Code	Thickness (mm)	R-value (m <sup>2</sup> K/W)	Weight (kg/m <sup>2</sup> )
TA4085	85	3.85	2.93
TA4090	90	4.05	3.09
TA4100	100	4.50	3.41
TA4115	115	5.20	3.89
TA4125	125	5.65	4.21
TA4135	135	6.10	4.53

## Physical Properties

	Method	TA4000
<b>Compressive strength</b>	BS EN 826	≥150kPa
<b>Dimensional stability</b>	BS EN 1604	DS(TH)8
<b>Water vapour resistance</b>	BS EN 12086: Method B	>150 MNs/g
<b>Thermal conductivity</b>	BS EN 12667	0.022 W/mK

## 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](http://celotex.co.uk)

## Installation Guidelines

Installation guidelines will vary according to application. For full details regarding the use of Celotex TA4000, please refer to the 'application' pages of the website at [celotex.co.uk](http://celotex.co.uk)

## Further Information

If you wish to contact Celotex, please visit [celotex.co.uk](http://celotex.co.uk) and click on the 'contact us' page.

For information regarding [storage, installation and handling](#) of Celotex products, or for [Health and Safety](#) advice, please refer to the 'literature' pages of the website at [celotex.co.uk](http://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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