

## Celotex EL3000

### Introduction

Celotex EL3000 provides a quick and easy method of achieving effective thermal insulation in flat roofing structures.

With coated glass tissue facings, EL3000 is manufactured from rigid polyisocyanurate (PIR) using a blend of blowing agents that have zero ozone depletion potential (zero ODP) and a low global warming potential (GWP).

With Celotex EL3000, you are specifying insulation board that:

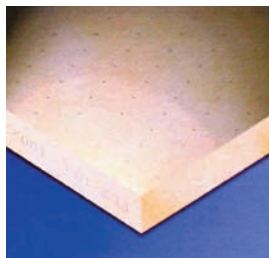
- Is designed for use in a variety of flat roof systems
- Achieves U-values with minimum thickness
- Is strong and durable
- Is rot proof
- Is dimensionally stable and unaffected by temperature cycles
- Is easy to cut and shape
- Comes in a range of thicknesses from 50mm-150mm
- Is available in 1200mm x 600mm board size (120mm also available in 1200mm x 2400mm board size)

### Applications

The facers are suitable for bonding in the following flat roofing applications:

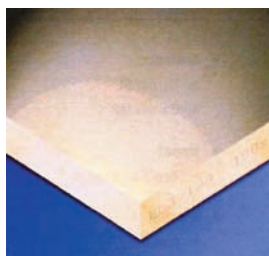
#### Perforated facer

- Mastic asphalt
- Bituminous built-up roofing systems



#### Unperforated facer

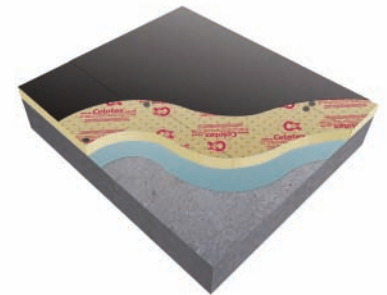
- Single-ply, fully adhered flat roof systems
- Single-ply, mechanically fixed flat roof systems
- Self-adhesive membranes



### Specification Clause

The insulation shall be Celotex EL3000 \_\_\_\_\_mm thick comprising a polyisocyanurate rigid foam insulation core with a thermal conductivity of 0.025 - 0.027 W/mK with mineral coated glass tissue facings on both sides. Celotex EL3000 is CFC/HCFC free with zero ODP and low GWP and CE marking compliance to BS EN 13165. Celotex EL3000 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.

**We know insulation inside and out**



Celotex EL3000 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)



## Celotex EL3000 Technical Data

Product Code	Thickness (mm)	R-value (m <sup>2</sup> K/W)	Weight (kg/m <sup>2</sup> )
EL3050	50	1.85	2.04
EL3100	100	3.80	3.64
EL3120	120	4.80	4.28
EL3130	130	5.20	4.60
EL3140	140	5.60	4.92
EL3150	150	6.00	5.24

## Physical Properties

	Method	EL3000
<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	>20 MNs/g
<b>Thermal conductivity</b>	BS EN 12667	0.027 W/mK <80mm 0.026 W/mK 80mm - 119mm 0.025W/mK ≥120mm
<b>External fire exposure roof test</b>	BS 476-3	Ext. FAB

## 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

For full details of the installation of Celotex EL3000, 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 and 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.

**Celotex Limited**  
Lady Lane Industrial Estate,  
Hadleigh, Ipswich  
Suffolk IP7 6BA

**T:** 0901 996 0100\*  
**W:** [celotex.co.uk](#)

Registered Office:  
Lady Lane Industrial Estate  
Hadleigh, Ipswich, Suffolk IP7 6BA  
Registered in England No 2183896