

Celotex XR4000

Introduction

Celotex XR4000 is targeted at 'cut-to-fit' applications between rafters or joists and enables users to achieve lower U-values with a single layer of insulation than has previously been possible. XR4000 is also appropriate for use in floors and walls. Our 200mm thick product positions Celotex as the manufacturer of the broadest range of product thicknesses from 12mm-200mm.

With low emissivity foil facings, XR4000 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).

With Celotex XR4000 you are specifying an insulation board that:

- Is suitable for use in a number of applications including roof, wall and floor systems
- Comes in thicknesses ranging from 110mm-200mm
- Provides the thickest PIR insulation available from stock within the market
- Achieves U-values with minimum thickness
- Helps meet the current and future requirements of the Building Regulations (Part L), BREEAM and The Code for Sustainable Homes
- 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
- Is available in a standard board size of 1200mm x 2400mm

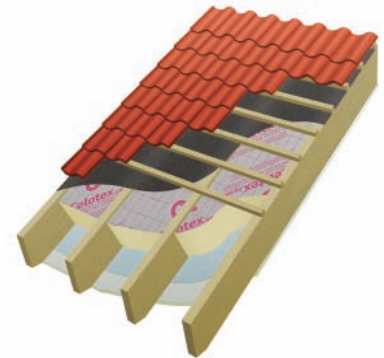
Applications

Celotex XR4000 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 XR4000 ____mm thick comprising a polyisocyanurate rigid foam insulation core with a thermal conductivity of 0.022 W/mK with low emissivity aluminium foil facings on both sides. Celotex XR4000 is CFC/HCFC free with zero ODP and low GWP and CE marking compliance to BS EN 13165. Celotex XR4000 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 XR4000 between rafters

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 XR4000 Technical Data

Product Code	Thickness (mm)	R-value (m ² K/W)	Weight (kg/m ³)
XR4110	110	5.00	3.58
XR4120	120	5.45	3.88
XR4130	130	5.90	4.19
XR4140	140	6.35	4.49
XR4150	150	6.80	4.79
XR4165	165	7.50	5.43
XR4200	200	9.05	6.53

Physical Properties

	Method	XR4000
Compressive strength	BS EN 826	≥140kPa
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

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 XR4000 will depend on application type. For full details of the installation of Celotex XR4000, 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 & 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