

Celotex TB3000

Introduction

Celotex TB3000 is a multi-purpose insulation board developed to provide simple solutions for overcoming localised thermal bridges.

With low emissivity foil facings, TB3000 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 TB3000 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
- 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 with cavity air spaces
- Provides reliable long-term energy savings for buildings

Applications

Celotex TB3000 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 TB3000 _____mm thick comprising a polyisocyanurate rigid foam insulation core with low emissivity composite foil facings on both sides. TB3000 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 TB3000 Technical Data

Product Code	Thickness (mm)	R-value (m ² K/W)	Weight (kg/m ²)
TB3012	12	0.50	0.52
TB3020	20	0.85	0.74
TB3025	25	1.05	0.88
TB3030	30	1.30	1.02
TB3035	35	1.50	1.17
TB3040	40	1.70	1.31
TB3045	45	1.95	1.45



Celotex TB3000 as an internal vapour control layer, preventing thermal bridging

Celotex and Sustainability

Celotex' environmental profile has been independently assessed by the BRE.

The results of this assessment show that Celotex has the lowest environmental impact of any PIR manufacturer.

For a copy of the certificate and for further information on Celotex' position including their new sustainability statement, please visit the sustainability pages of the website at celotex.co.uk



Physical Properties

	Method	TB3000
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	0.023 W/mK
Reaction to fire	BS EN 13501	Euroclass F
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 TB3000 will depend on application type. For full details of the installation of Celotex TB3000, 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 our Technical Advisory Service 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 - March 2008

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Celotex GA3000

Introduction

Celotex GA3000 is a general purpose insulation board for floors, walls and roofs. It has long been at the heart of the Celotex product range providing the user with a range of thermal insulation solutions.

With low emissivity foil facings, GA3000 is manufactured from rigid polyisocyanurate (PIR) uniquely reinforced with glass fibre (except GA3100) using a blend of blowing agents that have zero ozone depletion potential (zero ODP) and low global warming potential (GWP).

With Celotex GA3000 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 50-100mm.
- Features the best reaction to fire performance when measured in accordance with new European standards
- Is easy to cut and shape
- Includes low emissivity foil facings giving improved thermal insulation with cavity air spaces
- Provides reliable long-term energy savings for buildings

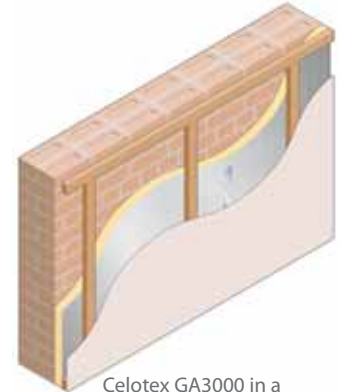
Applications

Celotex GA3000 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 GA3000 _____mm thick comprising a polyisocyanurate rigid foam insulation core with low emissivity composite foil facings on both sides. GA3000 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 GA3000 in a masonry wall application

Celotex and Sustainability

Celotex' environmental profile has been independently assessed by the BRE.

The results of this assessment show that Celotex has the lowest environmental impact of any PIR manufacturer.

For a copy of the certificate and for further information on Celotex' position including their new sustainability statement, please visit the sustainability pages of the website at celotex.co.uk



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Celotex GA3000 Technical Data

Product Code	Thickness (mm)	R-value (m ² K/W)	Weight (kg/m ²)
GA3050	50	2.15	1.59
GA3055	55	2.35	1.73
GA3060	60	2.60	1.93
GA3065	65	2.80	2.07
GA3070	70	3.00	2.22
GA3075	75	3.25	2.36
GA3080	80	3.45	2.50
GA3090	90	3.90	2.79
GA3100	100	4.30	3.29

Physical Properties

	Method	GA3000
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	0.023 W/mK
Reaction to fire	BS EN 13501	Euroclass D Except 100mm = Euroclass F
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 refer to our online U-value calculator at celotex.co.uk

Installation Guidelines

Installation of Celotex GA3000 will depend on application type. For full details of the installation of Celotex GA3000, please refer to the 'application' pages of the website at celotex.co.uk and select the application of interest.

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Celotex XR3000

Introduction

Celotex XR3000 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. XR3000 is also appropriate for use in floors and walls. Our 200mm thick product positions Celotex as the manufacturer of both the thickest and thinnest PIR insulation available.

With low emissivity foil facings, XR3000 is manufactured from rigid polyisocyanurate (PIR) uniquely using a blend of blowing agents that have zero ozone depletion potential (zero ODP) and low global warming potential (GWP).

With Celotex XR3000 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 110-200mm
- Provides the thickest PIR insulation currently available within the market
- Achieves U-values with minimum thickness
- Meets the current and future requirements of the Building Regulations (Part L) and The Code for Sustainable Homes
- Is easy to cut and shape
- Includes low emissivity foil facings giving improved thermal insulation with cavity air spaces
- Provides reliable long-term energy savings for buildings

Applications

Celotex XR3000 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 XR3000 _____mm thick comprising a polyisocyanurate rigid foam insulation core with low emissivity aluminium foil facings on both sides. XR3000 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 with BS EN ISO 9001:2001 by Celotex Limited. All products must be installed in accordance with instructions issued by Celotex Limited.



Celotex XR3000 between rafters

Celotex and Sustainability

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Celotex XR3000 Technical Data

Product Code	Thickness (mm)	R-value (m ² K/W)	Weight (kg/m ²)
XR3110	110	4.75	3.60
XR3120	120	5.20	3.90
XR3130	130	5.65	4.21
XR3140	140	6.05	4.51
XR3150	150	6.50	4.82
XR3165	165	7.15	5.52
XR3200	200	8.65	6.65

Physical Properties

	Method	XR3000
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	0.023 W/mK
Reaction to fire	BS EN 13501	Euroclass F

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 XR3000 will depend on application type. For full details of the installation of Celotex XR3000, please refer to the 'application' pages of the website at celotex.co.uk and select the application of interest.

Further information

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