

Product descriptions

Celotex T-Break™ TB3000 is a thin, foil faced insulation board with unreinforced core foam (except 35 - 45mm which contain glass fibre reinforcement) and thicknesses ranging from 12 to 45mm. The T-Break™ name stems from the design function of the range; which is to provide simple solutions to overcome localised thermal bridges. Celotex is unique in being able to offer boards as thin as 12mm to the market for this purpose.

Always install Celotex T-Break™ TB3000 in accordance with the instructions supplied by Celotex Limited.

Standard board dimensions

1200mm x 2400mm (with grid markings to assist installation)

Physical properties

Thermal resistance (R) values for Celotex products are declared in accordance with BS EN 13165:2001. These R-values equate to a Thermal Conductivity (λ) value of 0.023 W/mK.

Fire resistance

Reaction to fire = Euroclass F in accordance with BS EN 13823:1997 Part 7 = class 1.
Surface spread of flame in accordance with BS 476:1997 Part 7 = class 1.

Product range		
Product code	Thickness (mm)	R-value (m ² K/W)
TB3012	12	0.50
TB3020	20	0.85
TB3025	25	1.05
TB3030	30	1.30
TB3035	35	1.50
TB3040	40	1.70
TB3045	45	1.95

Celotex Tuff-R™ GA3000 has long been at the heart of the Celotex product range, providing a range of thermal insulation solutions to the builder. The Celotex Tuff-R™ GA3000 product is a foil faced thermal insulation board which has core foam uniquely reinforced with glassfibre. These products still feature the best reaction-to-fire performance (Euroclass D/s2/d0) measured in accordance with new European Standards of any similar product on the market.

Always install Celotex Tuff-R™ GA3000 in accordance with the instructions supplied by Celotex Limited.

Standard board dimensions

1200mm x 2400mm (with grid markings to assist installation)

Physical properties

Thermal resistance (R) values for Celotex products are declared in accordance with BS EN 13165:2001. These R-values equate to a Thermal Conductivity (λ) value of 0.023 W/mK.

Fire resistance

Reaction to fire in accordance with BS EN 13823:2002 = Class D/s2/d0 (except 100mm = Euroclass F).
Surface spread of flame in accordance with BS 476:1997 Part 7 = Class 1.

Product range		
Product code	Thickness (mm)	R-value (m ² K/W)
GA3050	50	2.15
GA3055	55	2.35
GA3060	60	2.60
GA3065	65	2.80
GA3070	70	3.00
GA3075	75	3.25
GA3080	80	3.45
GA3090	90	3.90
GA3100	100	4.30

Celotex Extra-R™ XR3000 is new to the Celotex range and is manufactured on our latest state-of-the-art restrained rise production line featuring our own unique jointless laydown technology. This technology enables us to offer thicker boards with no visible seams in the foam core. This foil faced product will be targeted at 'cut-to-fit' applications for insulation between rafters or joists and will enable users to achieve lower U-values with a single layer of insulation which has previously not been possible and will help designers meet the present and future requirements of Approved Document L (2006) of the Building Regulations.

Always install Celotex Extra-R™ XR3000 in accordance with the instructions supplied by Celotex Limited.

Standard board dimensions

1200mm x 2400mm (with grid markings to assist installation)

Physical properties

Thermal resistance (R) values for Celotex products are declared in accordance with BS EN 13165:2001. These R-values equate to a Thermal Conductivity (λ) value of 0.023 W/mK.

Fire resistance

Reaction to fire = Euroclass F in accordance with BS EN 13823:2002.

Product range		
Product code	Thickness (mm)	R-value (m ² K/W)
XR3110	110	4.75
XR3120	120	5.20
XR3130	130	5.65
XR3140	140	6.05
XR3150	150	6.50
XR3165	165	7.15
XR3200	200	8.65

Celotex Double-R™ LG3 is a high performance insulation board for use in commercial, agricultural and industrial buildings. It is offered with a white painted stucco embossed foil face and approval from the Loss Prevention Certification Board (LPCB).

Celotex Double-R™ LG3 achieves a class leading reaction-to-fire performance of Euroclass B/s2/d0 when measured in accordance with European Standards. As well as excellent dimensional stability, LG3 is lightweight, rapidly installed and provides a semi-decorative finish.

Always install Celotex Double-R™ LG3 in accordance with the instructions supplied by Celotex Limited.

Standard board dimensions

1200mm x 2400mm

Physical properties

Thermal resistance (R) values for Celotex products are declared in accordance with BS EN 12667:2001. These R-values equate to a Thermal Conductivity (λ) value of 0.022 W/mK.

Fire resistance

Reaction to fire in accordance with BS EN 13823:2002 = Class B/s2/d0.
Surface spread of flame in accordance with BS 476:1997 = Class 0.

Product range		
Product code	Thickness (mm)	R-value (m ² K/W)
LG3/25	25	1.10
LG3/30	30	1.35
LG3/40	40	1.80
LG3/50	50	2.25

Product descriptions

Celotex Tuff-R™ CW3000 provides a simple cavity wall insulation solution with a foil faced thermal insulation board which has core foam uniquely reinforced with glassfibre. These products feature a good reaction-to-fire performance (Euroclass D/s2/d0) measured in accordance with new European Standards compared to any similar product on the market.

Always install Celotex Tuff-R™ CW3000 in accordance with the instructions supplied by Celotex Limited.

Standard board dimensions

1200mm x 450mm (with grid markings to assist installation)

Physical properties

Thermal resistance (R) values for Celotex products are declared in accordance with BS EN 13165:2001. These R-values equate to a Thermal Conductivity (λ) value of 0.023 W/mK.

Fire resistance

Reaction to fire in accordance with BS EN 13823:2002 = Class D/s2/d0 (except CW3025/CW3030/CW3035/CW3100 = Euroclass F). Surface spread of flame in accordance with BS 476:1997 Part 7 = Class 1.

Product code	Product range	
	Thickness (mm)	R-value (m ² K/W)
CW3025	25	1.05
CW3030	30	1.30
CW3035	35	1.50
CW3040	40	1.70
CW3045	45	1.95
CW3050	50	2.15
CW3055	55	2.35
CW3060	60	2.60
CW3065	65	2.80
CW3070	70	3.00
CW3075	75	3.25
CW3080	80	3.45
CW3090	90	3.90
CW3100	100	4.30

Celotex Fast-R™ FF3000 is manufactured on our state-of-the-art restrained rise production line featuring our own unique jointless laydown technology. This technology enables us to offer thicker boards with no visible seams in the foam core. This foil faced product is targeted specifically at 'under screed' floor applications - including underfloor heating systems - where the higher density and compressive strength both prove valuable to the installer.

Always install Celotex Fast-R™ FF3000 in accordance with the instructions supplied by Celotex Limited.

Standard board dimensions

1200mm x 600mm and 2400mm (with grid markings to assist installation)

Physical properties

Thermal resistance (R) values for Celotex products are declared in accordance with BS EN 13165:2001. These R-values equate to a Thermal Conductivity (λ) value of 0.023 W/mK.

Fire resistance

Reaction to fire = Euroclass F in accordance with BS EN 13823:2002.

Product code	Product range	
	Thickness (mm)	R-value (m ² K/W)
FF3050	50	2.15
FF3070	70	3.00
FF3075	75	3.25
FF3085	85	3.65
FF3090	90	3.90
FF3100	100	4.30
FF3125	125	5.40
FF3150	150	6.50

Celotex Tempchek™ Deck TD3000 provides a quick and easy way to achieve effective thermally insulated roof decks for building structures such as garage roofs where there will be only occasional trafficking. These products feature a foil faced insulation board, to give the best insulation value possible, bonded to a facing of 5.5mm WBP ply. This allows the user to install the roof structure in one operation since the product provides the deck, insulation and vapour control thereby considerably reducing installation times ahead of weatherproofing.

Always install Celotex Tempchek™ Deck TD3000 in accordance with the instructions supplied by Celotex Limited.

Standard board dimensions

1200mm x 2400mm (with grid markings to assist installation)

Physical properties

Thermal resistance (R) values for Celotex products are declared in accordance with BS EN 13165:2001. These R-values equate to a Thermal Conductivity (λ) value of 0.023 W/mK (foam core).

Fire resistance (insulation only)

Reaction to fire in accordance with BS EN 13823:2002 = Class D/s2/d0 (except TD3106/TD3116/TD3126 = Euroclass F). Surface spread of flame in accordance with BS 476:1997 Part 7 = Class 1.

Product code	Product range	
	Thickness (mm) insulation + ply	R-value (m ² K/W)
TD3076	70 + 6.0	3.05
TD3081	75 + 6.0	3.30
TD3086	80 + 6.0	3.50
TD3096	90 + 6.0	3.95
TD3106	100 + 6.0	4.35
TD3116	110 + 6.0	4.80
TD3126	120 + 6.0	5.25

Celotex Tempchek™ TA3 is a purpose designed insulation board for use with mechanically fixed and ballasted single ply weathering systems. It provides a quick and easy way to achieve effective thermal insulation in flat roofing structures. These boards all feature the unique jointless lay down system to improve the flatness of the product.

Tempchek™ TA3 performs to a compressive strength of 150kPa giving improved resistance to site traffic during installation and comes available in thicknesses ranging from 50 - 150mm.

Always install Celotex Tempchek™ TA3 in accordance with the instructions supplied by Celotex Limited.

Standard board dimensions

1200mm x 2400mm (with grid markings to assist installation)

Physical properties

Thermal resistance (R) values for Celotex products are declared in accordance with BS EN 12667:2001. These R-values equate to a Thermal Conductivity (λ) value of 0.023 W/mK.

Fire resistance

Surface spread of flame in accordance with BS 476:1997 Part 7 = Class 1.

Product code	Product range	
	Thickness (mm)	RD-value (m ² K/W)
TA3/50	50	2.15
TA3/70	70	3.00
TA3/75	75	3.25
TA3/85	85	3.65
TA3/90	90	3.90
TA3/100	100	4.30
TA3/125	125	5.40
TA3/150	150	6.50
TA3/110	110	4.75

Product descriptions

Celotex Energy-Lok™ EL3 is a purpose-designed insulation board for use in built-up flat roofing applications, including hot-applied bituminous and mastic asphalt waterproofing systems and fully adhered single ply membranes.

Energy-Lok™ features a coated glass tissue facer, perforated on one side for use in bitumen-based built up applications whilst the reverse unperforated facer is suitable for fully adhered single-ply applications. Energy-Lok™ is available in two different lengths and in a range of thicknesses allowing you to achieve U-values with minimum thickness.

Always install Celotex Energy-Lok™ EL3 in accordance with the instructions supplied by Celotex Limited

Standard board dimensions

1200mm x 600mm* and 2400mm

Physical properties

Thermal resistance (R) values for Celotex products are declared in accordance with BS EN 12667:2001. These R-values equate to a Thermal Conductivity λ value of:

0.027W/mK for product thickness under 75mm

0.026W/mK for product thickness between 80 - 110mm

0.025W/mK for product thickness of 120mm or over.

Fire resistance

External roof exposure = Ext. FAB in accordance with BS 476-3 1997.

Reaction to fire = Euroclass F in accordance with BS EN 13823:2002.

Product code	Product range	
	Thickness (mm)	RD-value (m ² K/W)
EL3/50	50	1.85
EL3/80	80	3.05
EL3/90	90	3.45
EL3/95	95	3.65
EL3/100	100	3.80
EL3/110	110	4.20
EL3/120	120	4.80
EL3/140	140	5.60
EL3/150	150	6.00

Celotex Insulation Clip

Introduction

The Celotex insulation clip has been designed to enable insulation boards to be installed between timber joists or rafters quickly and without the need for nails, screws or battens. They provide a permanent way of securing the Celotex insulation with as little fuss as possible.

The clip should be used in situations where the insulation is being installed from above or below, for example when fitting between joists in a suspended timber floor.

Using the clip ensures that the insulation will be held firmly in place once installed in the correct manner.

Installation guidelines

- ▶ The joists should be installed in the conventional manner in accordance with the Building Regs.
- ▶ Cut the Celotex insulation boards to the width of the space between the joists or rafters ensuring a straight edge to the board to enable a tight interference fit.
- ▶ Push the insulation clips into the board at 1000mm intervals with the two prongs piercing the exposed foam down the long edge of the board (see fig.1).
- ▶ Start the clips in between the joists and push the board into place (see fig.2). This should be a tight fit to minimise heat loss through gaps between the joist and insulation board.
- ▶ Push the board fully home so that the base of the insulation clip is level with the face of the joist (see fig.3).
- ▶ Where additional insulation or plasterboard is required below the joists, continue as in the Celotex literature for that application (see fig.4).
- ▶ If additional board security is required, for example where there is no lining below the joists or rafters, nail through the base of the clip directly into the joist (see fig.5).



fig.1

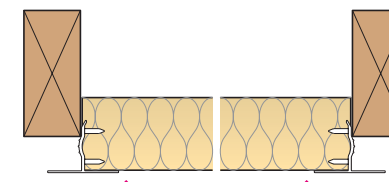


fig.2

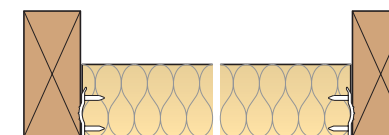


fig.3

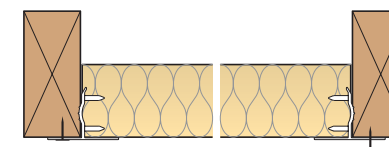


fig.4

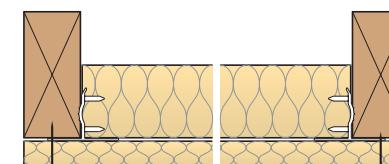


fig.5