

Walls

WALLS

30% of the heat lost in an uninsulated building is lost through un-insulated external walls. External walls can be insulated in a number of different ways depending on the type of wall.

APPLICATIONS:

1

CAVITY WALLS

Cavity Wall Insulation is a highly effective and efficient way to significantly reduce the amount of energy needed to heat a building. It is installed as part of the build process, usually after the inner leaf is built and before the building of the external brick outer leaf.

2

TIMBER FRAME WALLS

Timber Frame walls differ from masonry cavity walls in that the internal blockwork leaf is replaced by a timber frame structure with the Timber Frame Insulation installed in between the timber frame studs.

3

SOLID WALLS

Solid walls are insulated from the outside using a rigid insulation board beneath a protective outer layer of render or cladding, or on the inside using a framework to hold the semi rigid insulation in place prior to the fixing of a plasterboard finish. Alternatively a thermal laminate board can be dot and dabbed to the inside of the wall or mechanically fixed to narrow timber battens on the wall. Internal wall insulation is favoured whenever the exterior appearance of the building cannot be altered due to aesthetic appeal or planning constraints.

4

INTERNAL PARTITION WALLS

Internal Partition Wall Insulation is more normally installed for Acoustic insulation purposes rather than Thermal insulation. Sound insulation, otherwise known as sound reduction, is the prevention of sound being transmitted from one part of a building to another. This can be achieved by erecting a lightweight partition wall.

Part E of the Building Regulations for England and Wales in 2003 introduced a new requirement for the sound insulation of internal walls within houses and flats. This is usually achieved by insulating between the timber or metal framework prior to fixing the plasterboard finish.

GLASS MINERAL WOOL

Glass mineral wool is made from sand and recycled glass, limestone and soda ash. These are the same ingredients that are used to make familiar glass objects such as window panes or glass bottles. The glass is spun to form millions of fine fibres. A resin is used to bind the fibres together to form a mat of material. The density of the product determines whether the insulation is a lightweight quilt supplied in rolls, a flexible slab or a rigid slab, and its thermal insulation value. Non combustible and achieves the highest A+ Euroclass rating.

ROCK MINERAL WOOL

Rock mineral wool is made mainly from volcanic rock, typically basalt and/or dolomite. An increasing proportion is now recycled material from slag, a waste product from blast furnaces. The materials are melted and then spun into fine fibres. A resin is used to bind the fibres together to form a mat of insulation. Non combustible and achieves the highest A+ Euroclass rating.

PIR

PIR provides premium thermal performance and is more effective than most other traditional insulation types. PIR is made by blending together materials to form a rigid foam insulation product. The heat generated during the reaction enable gases to evaporate and become trapped within cells delivering premium thermal performance characteristics. Offering superior thermal performance to most products commonly available, PIR is available in an extensive range of thicknesses.

EXTRUDED POLYSTYRENE (XPS)

Extruded polystyrene (XPS) is made by mixing polystyrene pellets with various ingredients to liquify them. A blowing agent is then injected into the mixture, to form gas bubbles. Next, the foaming liquid is forced through a shaping die. When cooled, it produces a closed-cell foam that is rigid and moisture resistant.

RIGID POLYURETHANE (PUR)

Polyurethane (PUR) insulations are manufactured by chemical reaction between polyalcohols and isocyanates. The mixed components give off heat when they react and form a rigid thermosetting polymer. The heat given off evaporates a volatile liquid blowing agent contained in the mixture which produces a network of small bubbles in the material. The gas from the blowing agent remains in the cells and serves to improve the thermal performance of the material.

PHENOLIC FOAM

Phenolic foams have a high strength / density relationship as they are lightweight but strong, supplied as rigid foam boards and have the highest density of rigid board products. It has the advantages of being a very thin board.

MULTI-LAYERED FOILS

These consist of multiple sheets of aluminised polyester separated by thin sheets of polyethylene foam. They are lightweight and flexible membranes, to be effective the outer faces must face an unventilated cavity in the construction.

FIRE RATED CAVITY CLOSERS

Rockwool cavity closer systems have been developed to minimise thermal bridging at door and window reveals in cavity wall constructions. Rockwool Ltd can now offer a solution for both first-fix built-in (**Rockclose**) and second fix (**RockReveal**) applications.

Both systems are fire rated and exceed the minimum requirements of Thermal robust Details.

Rockclose®

Rockclose provides the user with a fire rated cavity closer for masonry walls with a returning inside leaf.

Advantages:

- Integral DPC
- Built in as construction proceeds (First Fix)
- One-hour fire integrity
- One width covers most applications
- Easy to handle
- Self supporting

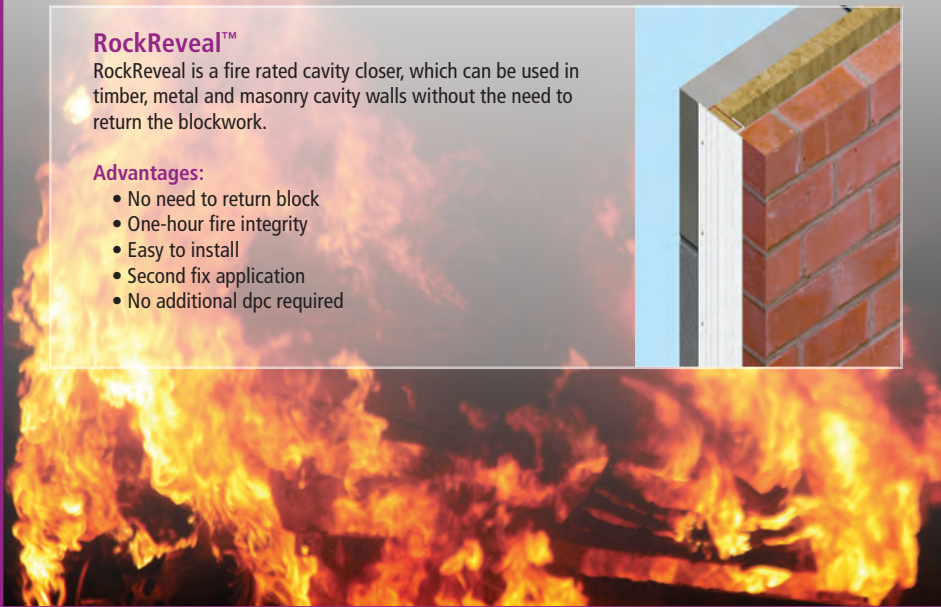


RockReveal™

RockReveal is a fire rated cavity closer, which can be used in timber, metal and masonry cavity walls without the need to return the blockwork.

Advantages:

- No need to return block
- One-hour fire integrity
- Easy to install
- Second fix application
- No additional dpc required





APPLICATION:

CAVITY	<input checked="" type="checkbox"/>
INT. PARTITIONS	<input type="checkbox"/>
TIMBER FRAME	<input type="checkbox"/>
SOLID	<input type="checkbox"/>

MATERIAL:

ROCK MINERAL WOOL

TCB CAVITY BARRIER

ROCKWOOL®

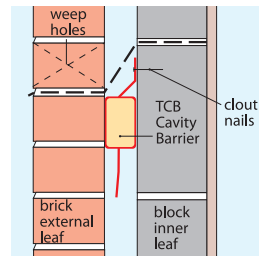
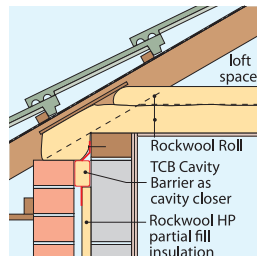
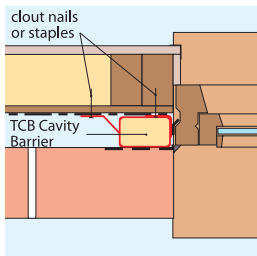
As part of the comprehensive FirePro range of fire protection products, standard TCB Cavity Barrier comprises a strip of Rockwool inserted into a translucent red polyethylene sleeve incorporating two flanges designed for fixing. The sleeve eliminates the need for weather protection during installation and is overprinted with fixing instructions for ease of use. (Non-standard sizes have a single flange only).

Rockwool TCB is used to provide a 1/2 hour cavity barrier as defined in table A1 of appendix A to Approved Document B of the Building Regulations 1991 (2000 Edition.) Rockwool TCB is used to provide a 1/2 hour cavity barrier as defined in table A1 of appendix A to Approved Document B of the Building Regulations 1991 (2000 Edition.)

Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
H90008	RW TCB BARRIER	110	110	1200	91-100			20.00
H96247	RW TCB BARRIER	85	85	1200	66-75			25.00
H96249	RW TCB BARRIER	65	65	1200	50-55			40.00
H33899	RW TCB BARRIER	75	75	1200	56-65			25.00
H33901	RW TCB BARRIER	90	90	1200	76-80			25.00
H33902	RW TCB BARRIER	100	100	1200	81-90			20.00
H33913	RW TCB BARRIER	120	120	1200	101-110			20.00

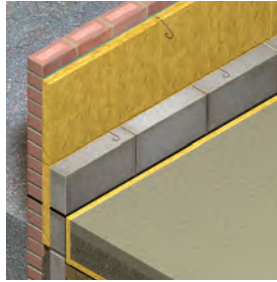
The advantages of TCB Cavity Barrier are:

- Meets Building Regulations requirements
- Simple to install and fix
- Water repellent
- Maintenance free
- Backed by Fire Test information



CAVITY

ROCKWOOL®



APPLICATION:

- CAVITY
- INT. PARTITIONS
- TIMBER FRAME
- SOLID

MATERIAL:

ROCK MINERAL WOOL

Rockwool Cavity provides a completely reliable and cost effective method of insulating new masonry cavity walls. The lightweight insulation batts considerably reduce heat loss without permitting water transmission from the outer to the inner leaf. The risk of condensation is also reduced and intermittent heating systems will be more effective.

Rockwool Cavity is extremely easy to install; cutting is simple (preferably with a long bladed knife and straight edge). The construction of the batts, and flexibility along their length and width, allows tight knitted joints to be obtained easily on site.

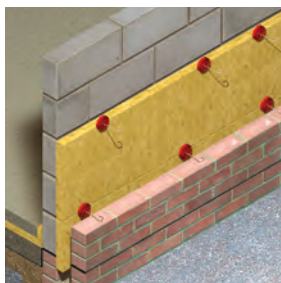
If a batt requires cutting, it's width should always be 5mm greater than the width to be insulated e.g. wall tie centres, ensuring a tight/closely butted installation.

Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
N08947	RW CAVITY	75	455	1200	9	2.03	Rockwool Cavity has a thermal conductivity (K value) of 0.037W/mK.	4.91
N08948	RW CAVITY	90	455	1200	6	2.43		3.28
H30017	RW CAVITY	50	455	1200	12	1.35		6.55
H30019	RW CAVITY	65	455	1200	10	1.76		5.46
H30021	RW CAVITY	80	455	1200	8	2.16		4.37
H30023	RW CAVITY	90	455	1200	8	2.43		3.28
H30025	RW CAVITY	100	455	1200	6	2.70		3.28

The advantages of Cavity are:

- Agrément certified for all exposure zones
- Act as a cavity barrier
- Water repellent
- Excellent thermal and fire insulation
- Superior fit against blockwork





APPLICATION:

- CAVITY
- INT. PARTITIONS
- TIMBER FRAME
- SOLID

MATERIAL:

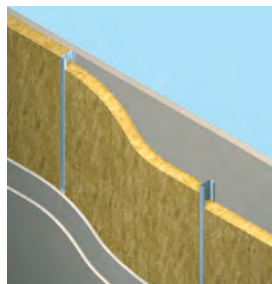
ROCK MINERAL WOOL

PARTIAL FILL

ROCKWOOL®

Rockwool HP Partial Fill Cavity Slabs comprise a robust outer surface (designed to withstand on-site rigours) engineered to a resilient inner face (designed to absorb irregularities of the inner leaf). The robust surface maintains a more clearly defined cavity whilst the resilient inner surface eliminates 'stand off' from the inner leaf, maximising thermal performance. Due to the nature of the material, the slabs will knit together when tightly butt jointed. Extraneous heat loss caused by gaps is eliminated, ensuring a thermally efficient system. Rockwool HP Partial Fill Cavity Slabs are produced in a standard size of 1200 x 455mm to suit a vertical wall-tie spacing of 450mm, and in standard thicknesses of 40, 50, 60, 70, 80, 90 and 100mm.

Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
H19554	RW HP PARTIAL FILL	50	455	1200	8	1.47	0.034	4.37
N23714	RW HP PARTIAL FILL	60	455	1200	10	1.76	0.034	5.46



APPLICATION:

- CAVITY
- INT. PARTITIONS
- TIMBER FRAME
- SOLID

MATERIAL:

ROCK MINERAL WOOL

ACOUSTIC SLAB

ROCKWOOL®

Rockwool Acoustic Slab is a high quality resin bonded semi-rigid slab, designed to combine optimum acoustic and fire performance with easy fitting into metal partitions.

Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
N31648	RW ACOUSTIC SLAB	25	590	1200	16			11.32
N31649	RW ACOUSTIC SLAB	47	590	1200	12			8.50
N31650	RW ACOUSTIC SLAB	67	590	1200	9			6.37

FLEXI

ROCKWOOL®



APPLICATION:

- CAVITY
- INT. PARTITIONS
- TIMBER FRAME
- SOLID

MATERIAL:

ROCK MINERAL WOOL

A part of the Rockwool SoundPro range, Rockwool 'Flexi' is a unique insulation product with a patented flexible edge along one side. This unique Flexi edge is produced using patented technology to ensure a perfect fit is maintained between the product and its supporting framework. This ensures the insulation's integrity. Flexi is designed for a host of applications where perfect fitting insulation is essential; in walls, partitions, floors and roofs. The 'Flexi' edge allows the product to be tightly fitted between timber and metal frames, without the need for cutting or waste.

Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
N33816	RW FLEXI	70	600	1200	8	1.84	Thermal Performance Rockwool Flexi™ has a thermal conductivity of 0.038 W/mK when tested to EN13162. At 140 mm thickness, Rockwool Flexi™ has a thermal conductivity of 0.035W/mK.	5.76
N34604	RW FLEXI	120	600	1200	5	3.16		4.32
N39770	RW FLEXI	140	400	1200	4	4.00		2.88
N39908	RW FLEXI	50	400	1200	12	1.32		5.76
N39909	RW FLEXI	100	400	1200	6	2.63		2.88
N08944	RW FLEXI	60	400	1200	10	1.58		4.80
N08945	RW FLEXI	60	600	1200	12	1.58		8.64
N08946	RW FLEXI	60	400	1200	12	1.58		5.76
H63988	RW FLEXI	140	600	1200	4	4.00		2.88
H64415	RW FLEXI	90	600	1200	6	2.37		4.32
H64594	RW FLEXI	100	600	1200	6	2.63		4.32
H64595	RW FLEXI	75	600	1200	8	1.97		5.76
H64597	RW FLEXI	50	600	1200	12	1.32		8.64



The advantages of Flexi are:

- Patented 'Flexi' edge offers accurate fit to all widths
- Will not slump if studs shrink
- Multi-application, fits all typical metal and timber frame spacing
- No waste
- Excellent thermal, acoustic and fire properties
- Easy to handle and install without gaps

ROCKWOOL®

FLEXI INSULATION

One product, many applications

The easy to install,
perfect fit insulation for

**partitions, walls,
floors and roofs**

in framed construction.



Pull back the flexible edge
and let it spring into place.

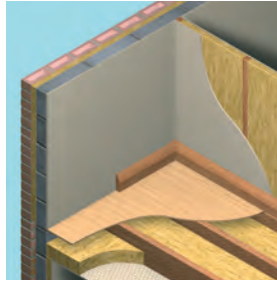
Unique Benefits

- Saves time and money
- Maintains a perfectly tight fit for thermal integrity and will not slump if studs shrink.
- Accurate fit to all widths with no cutting, fixings or waste.
- Thermal, fire, acoustic & sustainable insulation



SEMI-RIGID & FLEXIBLE SLABS

ROCKWOOL®



APPLICATION:

- CAVITY
- INT. PARTITIONS
- TIMBER FRAME
- SOLID

MATERIAL:

ROCK MINERAL WOOL

Rockwool Rigid, Semi-rigid and Flexible Slabs are high quality resin bonded Rockwool Slabs that can be used for thermal, acoustic and fire insulation. They are manufactured in a variety of thicknesses and densities to suit most requirements. They are suitable for many applications including thermal insulation for floors, walls, roofs and boiler rooms.

Ventilation plant in all types of buildings, offshore platforms and ships, acoustic ceilings and partition panels. Excellent thermal, acoustic and fire insulation.

Rockwool Slabs conform to BS EN 13162: 2001. Thermal insulation products for buildings – factory made mineral wool (MW) products – specification, and satisfy the requirements of BS 5422 'Method for specifying thermal insulating materials for pipes, tanks, vessels ductwork and equipment....'

Fire Rockwool RW slabs are certified by Lloyd's Register of Shipping as non-combustible materials for use on:

- Fixed offshore installations
- MED classed ships – DTLR MCA Approval Rockwool RW slabs are rated non-combustible in accordance with ISO 1182 and IMO A. 799. Water resistance Rockwool RW slabs are highly water repellent.

Where it is necessary to maintain water repellency subsequent to heating at elevated temperatures, the use of WRG grade slabs is recommended. Acoustics Rockwool stone wool works in two distinct ways to reduce noise, either by impeding the transmission of sound through an element of the structure or by absorption of sound at the surface. Noise absorption is expressed as a factor between 0 and 1.0. The more sound that a surface absorbs, the higher its absorption coefficient.

Thermal Conductivity (Industrial applications)

Mean Temperature °c	λ Values (W/mk)				
	RWA45	RW3	RW4	RW5	RW6
50	0.040	0.039	0.038	0.037	0.037
100	0.050	0.047	0.045	0.044	0.044
150	0.063	0.058	0.055	0.054	0.051
150		0.070	0.066	0.064	0.06
200			0.079	0.075	0.07
250				0.088	0.081
300				0.104	0.093
350				0.122	0.106
400					

Tested in accordance with BS 874:1973. Cold face temperature 40°C



SEMI-RIGID & FLEXIBLE SLABS

Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
N08914	RW RW3 SLAB	25	600	1200	16	0.64	0.039	11.52
N08915	RW RW3 SLAB	30	600	1200	15	0.77	0.039	10.80
N08916	RW RW3 SLAB	40	600	1200	10	1.03	0.039	7.20
N08917	RW RW3 SLAB	50	600	1200	8	1.28	0.039	5.76
N08918	RW RW3 SLAB	60	600	1200	6	1.54	0.039	4.32
N08919	RW RW3 SLAB	75	600	1200	6	1.92	0.039	4.32
N08920	RW RW3 SLAB	100	600	1200	4	2.63	0.039	2.88
N08921	RW RW4 SLAB	50	600	1200	6	1.32	0.038	4.32
N08922	RW RW4 SLAB	75	600	1200	4	1.97	0.038	2.88
N08923	RW RW4 SLAB	100	600	1200	3	2.63	0.038	2.16
N08924	RW RW5 SLAB	25	600	1200	8	0.68	0.037	5.76
N08925	RW RW5 SLAB	30	600	1200	8	0.81	0.037	5.76
N08926	RW RW5 SLAB	40	600	1200	6	1.08	0.037	4.32
N08927	RW RW5 SLAB	50	600	1200	4	1.35	0.037	2.88
N08928	RW RW5 SLAB	60	600	1200	4	1.62	0.037	2.88
N08929	RW RW5 SLAB	75	600	1200	3	2.03	0.037	2.16
N08930	RW RW5 SLAB	100	600	1200	2	2.70	0.037	1.44
N08931	RW RW6 SLAB	30	600	1200	6	0.81	0.037	4.32
H46939	RW RW6 SLAB	40	600	1200	4	1.08	0.037	2.40
N08932	RW RW6 SLAB	50	600	1200	3	1.35	0.037	2.16
N08933	RW RW6 SLAB	75	600	1200	2	2.03	0.037	1.40
N08934	RW RW6 SLAB	100	600	1200	2	2.70	0.037	1.44
N08935	RW RWA45 SLAB	30	600	1200	12	0.75	0.04	8.64
N08941	RW RWA45 SLAB	40	600	1200	12	1.00	0.04	8.64
N08942	RW RWA45 SLAB	50	600	1200	9	1.25	0.04	6.48
N08943	RW RWA45 SLAB	60	600	1200	8	1.50	0.04	5.76
N08939	RW RWA45 SLAB	75	600	1200	6	1.88	0.04	4.32
N08940	RW RWA45 SLAB	100	600	1200	4	2.50	0.04	2.88

The advantages of Semi-Rigid & Flexible Slabs are:

- Water repellent
- Resists high temperatures
- Easy to handle and install
- Cost effective
- No maintenance
- Black or white tissue and aluminium foil
- Facings available

EARTHWOOL DRITHERM CAVITY SLABS

KNAUFINSULATION



APPLICATION:

- CAVITY
- INT. PARTITIONS
- TIMBER FRAME
- SOLID

MATERIAL:

GLASS MINERAL WOOL

Earthwool DriTherm Cavity Slabs are semi-rigid or rigid slabs of non-combustible, glass mineral wool with a water-repellent additive. They are 455mm wide to suit standard vertical wall tie spacings, ensuring a closed joint with adjacent slabs.

DriTherm Cavity Slabs are for the thermal insulation of masonry cavity external walls, either partially filling or fully filling the cavity. They are approved for use in buildings up to 12m high in any exposure zone and for use in multi-storey applications up to 25m in height. DriTherm Cavity Slabs are non-combustible inorganic glass wool, defined as mineral wool in BS 3533: 1981 and are manufactured in accordance with BSI Quality Assurance Standard BS EN ISO 9001: 2000.

They are odourless, rot proof, non-hygroscopic, do not sustain vermin and will not encourage the growth of fungi, mould or bacteria. DriTherm Cavity Slabs allow water vapour to pass freely through the slab.

Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
N42030	EARTHWOOL DRITHERM 32 ULTIMATE CAVITY SLAB	65	455	1200	10	2.00	0.032	5.46
N37647	EARTHWOOL DRITHERM 32 ULTIMATE CAVITY SLAB	75	455	1200	8	2.30	0.032	4.37
N05328	EARTHWOOL DRITHERM 32 ULTIMATE CAVITY SLAB	85	455	1200	8	2.65	0.032	4.37
N05329	EARTHWOOL DRITHERM 32 ULTIMATE CAVITY SLAB	100	455	1200	6	3.10	0.032	3.28
N37641	EARTHWOOL DRITHERM 37 STANDARD CAVITY SLAB	50	455	1200	16	1.40	0.037	8.74
N37642	EARTHWOOL DRITHERM 37 STANDARD CAVITY SLAB	65	455	1200	16	1.75	0.037	8.74
N36418	EARTHWOOL DRITHERM 37 STANDARD CAVITY SLAB	75	455	1200	16	2.00	0.037	8.74
N37643	EARTHWOOL DRITHERM 37 STANDARD CAVITY SLAB	85	455	1200	16	2.25	0.037	8.74
N36416	EARTHWOOL DRITHERM 37 STANDARD CAVITY SLAB	100	455	1200	12	2.70	0.037	6.55
N42029	EARTHWOOL DRITHERM 37 STANDARD CAVITY SLAB	125	455	1200	10	3.35	0.037	5.46



APPLICATION:

- CAVITY
- INT. PARTITIONS
- TIMBER FRAME
- SOLID

MATERIAL:

GLASS MINERAL WOOL

EARTHWOOL CAVITY BARRIER

KNAUF INSULATION

Earthwool Cavity Barriers are manufactured from a continuous length of non-combustible glass mineral wool which is compressed within a resilient polythene sleeve incorporating two flanges designed for ease of fixing. This polythene sleeve is colour-coded to suit a variety of cavity widths from 50mm to 100mm and eliminates the need for weather protection during installation. The barriers are 1200mm long and can be used in both vertical and horizontal applications, and are available in two standard depths (100mm and 300mm). 100mm barriers are used for normal fire stopping and noise reduction applications. 300mm barriers are used where higher performance levels are specified and at party wall / external wall cavity junctions.

Earthwool Cavity Barriers are engineered to prevent the spread of smoke and fire through walls, floors and cavities in timber frame, metal frame and masonry buildings. They are also suitable for reducing flanking noise transmission in these concealed cavities.

The use of the correct size of Cavity Barrier is essential. Earthwool Cavity Barriers are designed to compress to a tight fit in cavities and in the event of fire breaking into the cavity, Cavity Barriers do not rely on the polythene flanges to hold them in place, but on their compression between the inner leaf and external brickwork or blockwork. It is, therefore, essential to specify the Cavity Barrier by reference to the actual constructed cavity width. In vertical applications, both flanges of the Cavity Barrier should be fixed to the inner leaf.

Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
N05330	EARTHWOOL CAVITY BARRIER	50-65	100	1200	50		Thermal values are not applicable to fire protection products	
N05333	EARTHWOOL CAVITY BARRIER	50-65	300	1200	13			
N05331	EARTHWOOL CAVITY BARRIER	66-80	100	1200	40			
N05334	EARTHWOOL CAVITY BARRIER	66-80	300	1200	10			
N05332	EARTHWOOL CAVITY BARRIER	81-100	100	1200	40			
N05335	EARTHWOOL CAVITY BARRIER	81-100	300	1200	10			



Earthwool products utilise ECOSE® Technology, which is a revolutionary, new, formaldehyde-free binder technology, based on rapidly renewable materials instead of petro-based chemicals. It reduces embodied energy and delivers superior environmental sustainability.

The technology has been developed for Knauf Insulation's glass and rock mineral wool products, enhancing their environmental credentials without affecting the thermal, acoustic or fire performance. Insulation products made with ECOSE® Technology contain no dye or artificial colours – the colour is completely natural.

POLYFOAM CAVITYBOARD

KNAUFINSULATION



APPLICATION:

CAVITY	<input checked="" type="checkbox"/>
INT. PARTITIONS	<input type="checkbox"/>
TIMBER FRAME	<input type="checkbox"/>
SOLID	<input type="checkbox"/>

MATERIAL:

XPS - EXTRUDED POLYSTYRENE

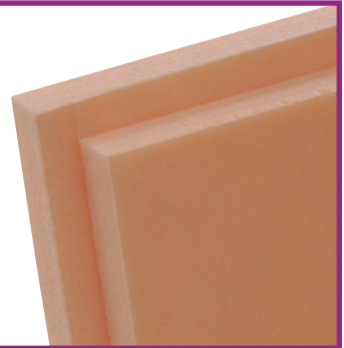
Polyfoam Cavityboard is a high performance, 100% ozone friendly, extruded polystyrene, rigid board insulation. It is lightweight, yet has excellent rigidity and long term effectiveness, even when exposed to moisture. Polyfoam Cavityboard is supplied with interlocking rebated edges that help to create a complete insulated envelope with fewer gaps and also help to restrict moisture ingress across the finished construction. Polyfoam Cavityboard is used for the insulation of partial fill cavity walls or external wall insulation as part of a cladding/render finish.

Polyfoam Cavityboard is manufactured in accordance with BS EN 13164: 2008 and BSI Quality Assurance Standard BS EN ISO 9001: 2008. The continuous service temperature limits of Polyfoam Cavityboard are -50 to +75° C. Polyfoam Cavityboard is free from CFCs, HCFCs and any other material with ozone depletion potential in its manufacture and content and represents no known threat to the environment. Polyfoam Cavityboard is non bio-degradable. Polyfoam Cavityboard is 100% recyclable.

Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
H17999	POLYFOAM CAVITYBOARD	30	450	1200	14	1.00	0.029	7.56
N31660	POLYFOAM CAVITYBOARD	35	450	1200	12	1.20	0.029	6.48
H19583	POLYFOAM CAVITYBOARD	40	450	1200	10	1.35	0.029	5.40
H19584	POLYFOAM CAVITYBOARD	50	450	1200	10	1.70	0.029	5.40
N31661	POLYFOAM CAVITYBOARD	75	450	1200	6	2.55	0.029	3.24

The advantages of Polyfoam Cavityboard are:

- Excellent thermal performance
- Highly resistant to water absorption
- Able to resist repeated freeze/thaw cycles
- Lightweight and easy to install
- Tough and durable, not easily damaged





APPLICATION:

- CAVITY
- INT. PARTITIONS
- TIMBER FRAME
- SOLID

MATERIAL:

ROCK MINERAL WOOL

EARTHWOOL DRITHERM ROCK CAVITY SLAB



Earthwool DriTherm Cavity Slab is a medium density rock mineral wool slab offering levels of thermal performance that allow compliance with existing Building Regulations and anticipate future Building Regulations with most types of blocks.

Earthwool DriTherm Cavity Slabs are for the thermal insulation of masonry cavity external walls, either partially filling or fully filling the cavity. They are approved for use in buildings up to 12m high in any exposure zone and for use in multi-storey applications up to 25m in height.

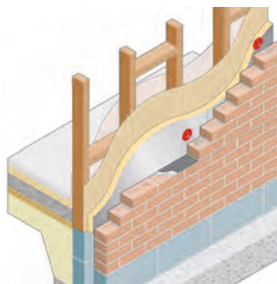
Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
N33528	EARTHWOOL DRITHERM ROCK CAVITY SLAB	65	455	1200	8	1.75	0.037	4.37
N33527	EARTHWOOL DRITHERM ROCK CAVITY SLAB	75	455	1200	7	2.00	0.037	3.82
N33526	EARTHWOOL DRITHERM ROCK CAVITY SLAB	85	455	1200	6	2.25	0.037	3.28
N33525	EARTHWOOL DRITHERM ROCK CAVITY SLAB	100	455	1200	5	2.70	0.037	2.73

The advantages of Earthwool Dritherm Rock Cavity Slab are:

- Excellent thermal and fire insulation
- British Board of Agrément Certificate for all exposure zones
- Water repellent
- Acts as a cavity barrier



GA4000



APPLICATION:

- CAVITY
- INT. PARTITIONS
- TIMBER FRAME
- SOLID

MATERIAL:

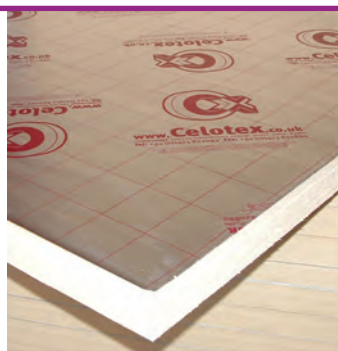
PIR

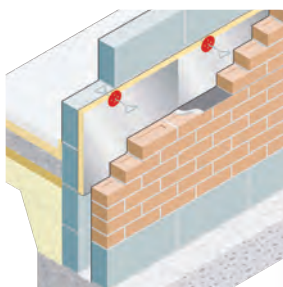
Celotex GA4000 has long been at the heart of the Celotex product range, providing a range of thermal insulation solutions to the builder. GA4000 is a general purpose insulation board suitable for floor, wall and roof applications.

Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
N67989	CELOTEX GA4050	50	1200	2400	8	2.25	0.022	23.04
N67990	CELOTEX GA4055	55	1200	2400	7	2.50	0.022	20.16
N67991	CELOTEX GA4060	60	1200	2400	7	2.70	0.022	20.16
N67992	CELOTEX GA4065	65	1200	2400	6	2.95	0.022	17.28
N67993	CELOTEX GA4070	70	1200	2400	6	3.15	0.022	17.28
N67994	CELOTEX GA4075	75	1200	2400	6	3.40	0.022	17.28
N67995	CELOTEX GA4080	80	1200	2400	6	3.60	0.022	17.28
N68100	CELOTEX GA4085	85	1200	2400	5	3.85	0.022	14.40
N67996	CELOTEX GA4090	90	1200	2400	5	4.05	0.022	14.40
N68101	CELOTEX GA4095	95	1200	2400	5	4.30	0.022	14.40
N67997	CELOTEX GA4100	100	1200	2400	12	4.50	0.022	34.56

The advantages of GA4000 are:

- 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
- Improved thermal performance of 0.022W/mK helping achieve better U-values and thinner solutions
- Helps meet the requirements of Part L 2010





APPLICATION:

- CAVITY
- INT. PARTITIONS
- TIMBER FRAME
- SOLID

MATERIAL:

PIR

CG4000



CG4000 is a premium performance PIR solution specifically designed for partial-fill cavity wall applications. CG4000 offers enhanced thermal performance compared to typical PIR as well as Class O fire performance throughout the entire product.

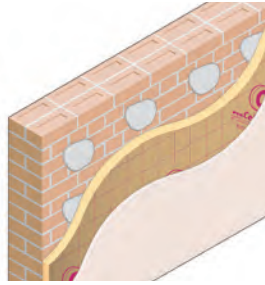
Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
N40755	CELOTEX CG4000	40	1200	450	12	1.80	0.022	6.48
N40757	CELOTEX CG4000	50	1200	450	10	2.25	0.022	5.40
N40758	CELOTEX CG4000	60	1200	450	8	2.70	0.022	4.32
N40760	CELOTEX CG4000	75	1200	450	6	3.40	0.022	3.24
N68102	CELOTEX CG4000	85	1200	450	5	3.85	0.022	2.70
N32992	CELOTEX CG4000	90	1200	450	5	4.05	0.022	2.70
N32993	CELOTEX CG4000	100	1200	450	5	4.50	0.022	2.70

The advantages of CG4000 are:

- Has a consistent thermal conductivity value of 0.022W/mK
- Has the best fire performance of any PIR insulation board, with Class O performance throughout the entire product
- Is specifically targeted at cavity wall applications
- Comes in a standard board size of 1200mm x 450mm
- Features low emissivity textured aluminium foil facings for improved thermal performance within cavity air spaces
- Approved under BBA certificates 95/3197 and 94/3080.
- Celotex products approved for use in timber-frame applications under BBA certificate 09/4667



PL4000



APPLICATION:

- CAVITY
- INT. PARTITIONS
- TIMBER FRAME
- SOLID

MATERIAL:

PIR

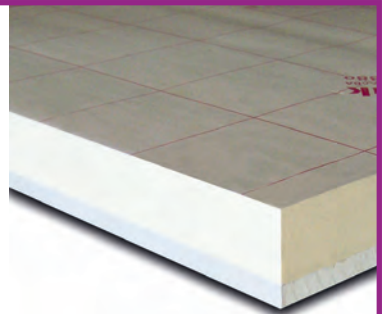
Celotex PL4000 offers PIR insulation bonded to a layer of 12.5mm tapered edge plasterboard. PL4000 is suitable for direct bonding and mechanically fixed dry lining applications in both new build and refurbishment projects.

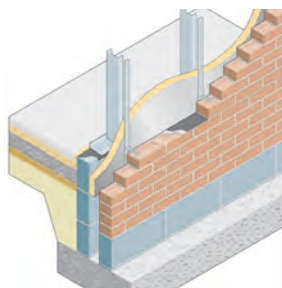
Cat.no	Description	Thickness* mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
N68004	CELOTEX PL4025	25	1200	2400	26	1.20	0.022	74.88
N68005	CELOTEX PL4040	40	1200	2400	22	1.85	0.022	63.36
N68103	CELOTEX PL4045	45	1200	2400	20	2.10	0.022	57.60
N68104	CELOTEX PL4050	50	1200	2400	18	2.35	0.022	51.84
N68006	CELOTEX PL4055	55	1200	2400	16	2.55	0.022	46.08
N68105	CELOTEX PL4060	60	1200	2400	15	2.80	0.022	43.20
N68007	CELOTEX PL4065	65	1200	2400	14	3.00	0.022	40.32

*Thickness excludes 12.5mm plasterboard

The advantages of PL4000 are:

- Offers the user the ability to install both the insulation and the plasterboard in one operation, thus reducing installation time
- Is suitable for both direct bonding ('dot and dab') and mechanically fixed installation techniques
- Offers the installer maximum flexibility and installation speed due to the tapered edge plasterboard
- Provides reliable long-term energy savings
- Is suitable for both new build and refurbishment projects
- Can be easily used to upgrade to current building regulation standards





APPLICATION:

- CAVITY
- INT. PARTITIONS
- TIMBER FRAME
- SOLID

MATERIAL:

PIR

TB4000

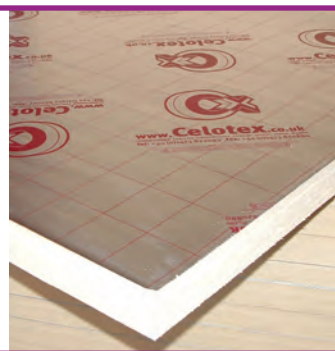


Celotex TB4000 is a thin foil-faced insulation board especially developed to provide simple solutions to overcome thermal bridging. It highlights our industry leading position as a manufacturer of thin boards enabling the maximisation of internal space. Celotex is unique in being able to offer boards as thin as 12mm to the market for this purpose. TB4000 can be used in floors, walls and roofs as well as a multi-purpose insulation board.

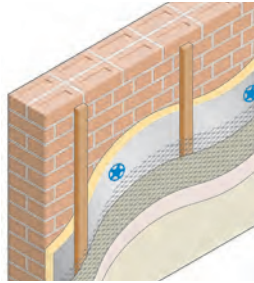
Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
N68012	CELOTEX TB4012	12	1200	2400	28	0.50	0.022	80.64
N68013	CELOTEX TB4020	20	1200	2400	20	0.90	0.022	57.60
N68014	CELOTEX TB4025	25	1200	2400	16	1.10	0.022	46.08
N68015	CELOTEX TB4030	30	1200	2400	14	1.35	0.022	40.32
N68016	CELOTEX TB4035	35	1200	2400	12	1.55	0.022	34.56
N68017	CELOTEX TB4040	40	1200	2400	10	1.80	0.022	28.80
N68018	CELOTEX TB4045	45	1200	2400	9	2.00	0.022	25.92

The advantages of TB4000 are:

- Is specifically designed to eliminate thermal bridges
- 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



XR4000



APPLICATION:

- CAVITY
- INT. PARTITIONS
- TIMBER FRAME
- SOLID

MATERIAL:

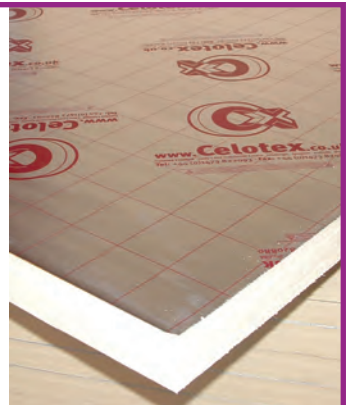
PIR

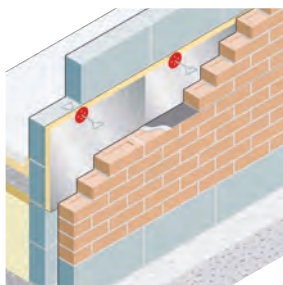
Celotex XR4000 enables users to achieve lower U-values with a single layer of insulation than has previously been possible. This will help designers meet present and future legislation including the Building Regulations, BREEAM and the Code for Sustainable Homes. XR4000 is appropriate for use in floor, wall and roof applications.

Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
N67998	CELOTEX XR4110	110	1200	2400	11	5.00	0.022	31.68
N67999	CELOTEX XR4120	120	1200	2400	10	5.45	0.022	28.80
N68000	CELOTEX XR4130	130	1200	2400	9	5.90	0.022	25.92
N68001	CELOTEX XR4140	140	1200	2400	8	6.35	0.022	23.04
N68002	CELOTEX XR4150	150	1200	2400	8	6.80	0.022	23.04
N68003	CELOTEX XR4165	165	1200	2400	7	7.50	0.022	20.16
N05315	CELOTEX XR4200	200	1200	2400	6	9.05	0.022	17.28

The advantages of XR4000 are:

- Is suitable for use in a number of applications including roof, wall and floor systems
- 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





APPLICATION:

- CAVITY
- INT. PARTITIONS
- TIMBER FRAME
- SOLID

MATERIAL:

PIR

CW4000

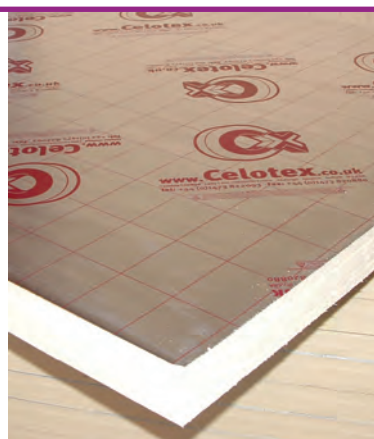


CW4000 is aimed specifically at partial fill cavity wall applications.

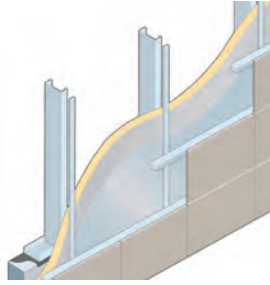
Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
N68030	CELOTEX CW4025	25	1200	450	20	1.10	0.022	10.80
N68031	CELOTEX CW4040	40	1200	450	12	1.80	0.022	6.48
N68032	CELOTEX CW4045	45	1200	450	11	2.00	0.022	5.94
N68033	CELOTEX CW4050	50	1200	450	10	2.25	0.022	5.40
N05319	CELOTEX CW4055	55	1200	450	9	2.50	0.022	TBC
N68034	CELOTEX CW4060	60	1200	450	8	2.70	0.022	4.32
N68035	CELOTEX CW4065	65	1200	450	7	2.95	0.022	3.78
N68036	CELOTEX CW4070	70	1200	450	7	3.15	0.022	3.78
N68037	CELOTEX CW4075	75	1200	450	6	3.40	0.022	3.24
N68038	CELOTEX CW4080	80	1200	450	6	3.60	0.022	3.24
N68041	CELOTEX CW4085	85	1200	450	5	3.85	0.022	2.70
N68039	CELOTEX CW4090	90	1200	450	5	4.05	0.022	2.70
N68040	CELOTEX CW4100	100	1200	450	5	4.50	0.022	2.70

The advantages of CW4000 are:

- Is easy to fit between wall ties using cavity tie clips for retention
- Comes in conveniently sized boards for installation between cavity wall ties
- Includes low emissivity foil facings giving improved thermal insulation with cavity air spaces
- Has excellent dimensional stability
- Provides reliable long term energy savings for buildings



FR4000



APPLICATION:

- CAVITY
- INT. PARTITIONS
- TIMBER FRAME
- SOLID

MATERIAL:

PIR

Celotex FR4000 is a premium performance PIR solution. Through ongoing product development and breakthrough design, FR4000 offers enhanced thermal performance compared to typical PIR as well as Class O fire performance throughout the entire product. FR4000 is specifically targeted at pitched roof, wall and floor applications.

Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
N41689	CELOTEX FR4025	25	1200	2400	16	1.10	0.022	46.08
N41694	CELOTEX FR4050	50	1200	2400	8	2.25	0.022	23.04
N41695	CELOTEX FR4060	60	1200	2400	7	2.70	0.022	20.16
N41696	CELOTEX FR4070	70	1200	2400	6	3.15	0.022	17.28
N41697	CELOTEX FR4075	75	1200	2400	6	3.40	0.022	17.28
N41698	CELOTEX FR4080	80	1200	2400	6	3.60	0.022	17.28
N41699	CELOTEX FR4090	90	1200	2400	5	4.05	0.022	14.40
N41700	CELOTEX FR4100	100	1200	2400	12	4.50	0.022	34.56
N41701	CELOTEX FR4110	110	1200	2400	11	5.00	0.022	31.68
N41702	CELOTEX FR4120	120	1200	2400	10	5.45	0.022	28.80
N41703	CELOTEX FR4130	130	1200	2400	9	5.90	0.022	25.92
N41704	CELOTEX FR4140	140	1200	2400	8	6.35	0.022	23.04
N41705	CELOTEX FR4150	150	1200	2400	8	6.80	0.022	23.04

TRISO SUPER 10



APPLICATION:

- CAVITY
- INT. PARTITIONS
- TIMBER FRAME
- SOLID

MATERIAL:

MULTIFOILS

Triso Super 10 is a thin thermo-reflective insulation which is a stand alone insulation product, its is effective both in summer and winter and is flexible, quick and easy to install.

Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
N39015	ACTIS TRISO SUPER 10	30	1600	12500	20			
N39014	TRI-ISO SUPER 10	30	1600	6250	10			
N39180	ACTIS ISODHESIF TAPE (25m)		100	25000				



APPLICATION:

- CAVITY
- INT. PARTITIONS
- TIMBER FRAME
- SOLID

MATERIAL:

PHENOLIC

K8



A rigid phenolic partial-fill cavity wall insulation recommended for traditional cavity wall construction methods.

Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
N40668	KINGSPAN K'THERM K8 CAVITY	25	450	1200	20		0.02	10.8
N40671	KINGSPAN K'THERM K8 CAVITY	40	450	1200	12		0.02	6.48
N40673	KINGSPAN K'THERM K8 CAVITY	50	450	1200	10		0.02	5.4
N40674	KINGSPAN K'THERM K8 CAVITY	60	450	1200	8		0.02	4.32
N40675	KINGSPAN K'THERM K8 CAVITY	75	450	1200	6		0.02	3.24
N08227	KINGSPAN K'THERM K8 CAVITY	50	450	1200	10		0.02	5.4
N08228	KINGSPAN K'THERM K8 CAVITY	60	450	1200	8		0.02	4.32



APPLICATION:

- CAVITY
- INT. PARTITIONS
- TIMBER FRAME
- SOLID

MATERIAL:

PUR

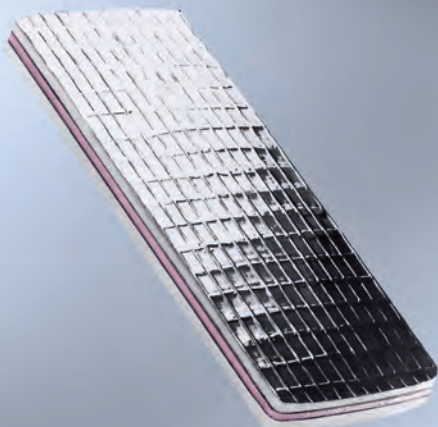
TW50



A rigid urethane board for use in partial fill masonry cavity walls recommended for traditional cavity wall construction methods.

Cat.no	Description	Thickness mm	Width mm	Length mm	Qty per pack	R-Value	Thermal Conductivity W/mk	M ² per pack
N40680	KINGSPAN TW50 THERMAWALL	25	450	1200	25		0.02	10.8
N40685	KINGSPAN TW50 THERMAWALL	50	450	1200	10		0.02	5.4
N40687	KINGSPAN TW50 THERMAWALL	60	450	1200	8		0.02	4.32
N40689	KINGSPAN TW50 THERMAWALL	70	450	1200	6		0.02	3.24
N40690	KINGSPAN TW50 THERMAWALL	75	450	1200	6		0.02	3.24

The latest insulation is also smaller, thinner and more efficient



ACTIS THIN MULTIFOIL INSULATION

ACTIS, the benchmark for thin multifoil insulation, is driving technological progress through the development of exclusive technology for roofs, lofts, walls and floors. ACTIS insulation is a thin multi-layered complex (30 mm maximum), composed of reflective films interspersed with separators, which provides excellent thermal comfort both in summer and in winter. ACTIS measures the thermal performance of its insulation using a method based on tests under real conditions of use. TRISO-SUPER 10 has been tested by BM TRADA Certification Ltd, a member of the European Organisation for Technical Approvals (EOTA).

Easy to install, this unique technology provides extra living space and durable insulation performance.



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For more information visit www.insulation-actis.com

ACTIS

TOMORROW'S INSULATION TODAY