

Insulation
Great Britain

Seventeenth Issue | 10/2025

Thermawall® TW50

Partial fill cavity wall insulation



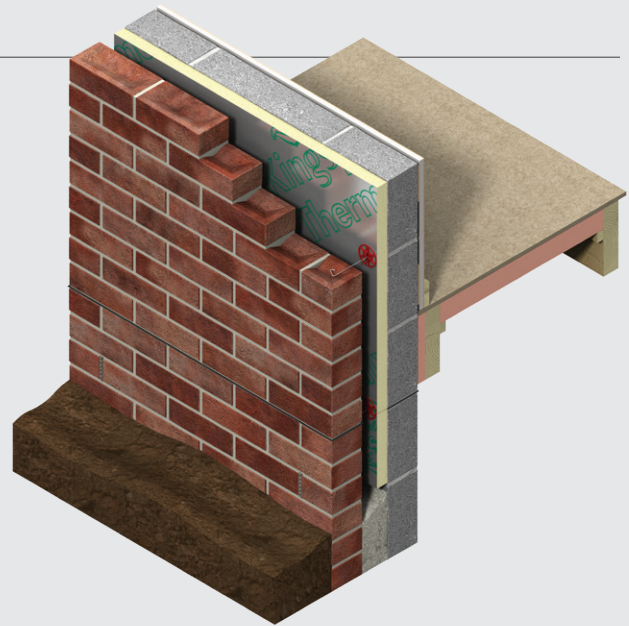

Kingspan®

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Introduction

- High performance rigid thermoset polyisocyanurate (PIR) insulation - thermal conductivity 0.022 W/mK
- Clear cavity is maintained - resists moisture penetration
- Low emissivity foil facings significantly increase the thermal resistance of the cavity
- Unaffected by air infiltration
- Easy to handle and install compared to some other commonly used insulants



Useful links

Website

[Kingspan Thermawall® TW50 webpage](#)

Certification

[Kingspan Thermawall® TW50 BBA Certificate \(thicknesses of 25 - 120 mm\)](#)

Declaration of Performance (DoP)

[Kingspan Thermawall® TW50 Declaration of Performance \(UKDoP\)](#)

Safety information

[Kingspan Thermawall® TW50 product safety information](#)

Product details

The facings

Kingspan Thermawall® TW50 is faced on both sides with a low emissivity composite foil, autohesively bonded to the insulation core during manufacture. This reflective, low emissivity surface improves the thermal resistance of any unventilated cavity adjacent to the board.

The core

The core of Kingspan Thermawall® TW50 is a fibre-free rigid thermoset polyisocyanurate (PIR) insulant.



Standards and approvals

Kingspan Thermawall® TW50 is in accordance with the requirements of BS EN 13165: 2012 + A2: 2016 (Thermal insulation products for buildings. Factory made rigid polyurethane foam (PU) products. Specification).

Kingspan Thermawall® TW50 is also manufactured under a management system certified to ISO 9001: 2015 (Quality Management System), ISO 14001: 2015 (Environmental Management System), ISO 45001: 2018 (Occupational Health and Safety Management System), ISO 50001: 2018 (Energy Management System) and ISO 37301: 2021 (Compliance Management System).

The current manufactured range (in thicknesses of 40 - 100 mm) produced at Kingspan Insulation's Pembridge (Herefordshire) and Selby (North Yorkshire) manufacturing facilities is covered by BBA Certificate 14/5133.



Standard dimensions

Kingspan Thermawall® TW50 is available in the following standard size(s):

Nominal Dimension		Availability
Length	(mm)	1200
Width	(mm)	450
Insulant Thickness	(mm)	Refer to local distributor or Kingspan Insulation price list for current stock and non-stock sizes.

Compressive stress

The declared compressive stress of Kingspan Thermawall® TW50 is 120 kPa at 10% compression, when tested to BS EN 826 (Thermal insulating products for building applications. Determination of compression behaviour).

Water vapour resistivity

When tested in accordance with BS EN 12086 (Thermal insulating products for building applications. Determination of water vapour transmission properties), Thermawall® TW50 produced at Kingspan Insulation's Pembridge (Herefordshire) and Selby (North Yorkshire) manufacturing facilities achieves a resistance greater than 50 MNs/g for the insulation core and greater than 100 MNs/g for the composite foil-facing.

Durability

If correctly installed, Kingspan Thermawall® TW50 can last the lifetime of the building. Its durability depends on the supporting structure and the conditions of its use.

Resistance to solvents, fungi & rodents

The insulation core is resistant to short-term contact with petrol and with most dilute acids, alkalis and mineral oils. However, it is recommended that any spills be cleaned off fully before the boards are installed. Ensure that safe methods of cleaning are used, as recommended by suppliers of the spilt liquid. The insulation core is not resistant to some solvent-based adhesive systems, particularly those containing methyl ethyl ketone. Adhesives containing such solvents should not be used in association with this product. Damaged boards or boards that have been in contact with harsh solvents or acids should not be used.

The insulation core and facings used in the manufacture of Kingspan Thermawall® TW50 resist attack by mould and microbial growth and do not provide any food value to vermin.

Product details

Fire performance

There are restrictions placed upon this product which vary dependant on building type, height, construction and location in Great Britain. For more information regarding the routes to compliance for meeting the fire safety requirements of the Building Regulations / Standards in Great Britain, refer to the relevant Technical Bulletins and links to Government websites at www.kingspaninsulation.co.uk/fireregulations.

Under System 4 AVCP, Kingspan Thermawall® TW50 has a Euroclass rating of F.

Further details on the fire performance of Kingspan Insulation products may be obtained from the Kingspan Insulation Technical Service Department (see rear cover).

Thermal properties

The λ -values and R-values detailed below are quoted in accordance with BS EN 13165: 2012 + A2: 2016 (Thermal insulation products for buildings. Factory made rigid polyurethane foam (PU) products. Specification).

Thermal conductivity

The boards achieve a thermal conductivity (λ -value) of 0.022 W/mK.

Thermal resistance

Thermal resistance (R-value) varies with thickness and is calculated by dividing the thickness of the board (expressed in metres) by its thermal conductivity. The resulting number is rounded down to the nearest 0.05 (m²K/W).

Insulant thickness (mm)	Thermal resistance (m ² K/W)
40	1.80
50	2.25
60	2.70
70	3.15
75	3.40
100	4.50

NB Refer to local distributor or Kingspan Insulation price list for current stock and non-stock sizes.

Typical constructions and U-values

Assumptions

The U-values in the tables that follow have been calculated using the method detailed in BS EN ISO 6946: 2017 (Building components and building elements. Thermal resistance and thermal transmittance. Calculation methods), and using the conventions set out in BR 443 (Conventions for U-value calculations). They are valid for the constructions shown in the details immediately each table.

Unless stated otherwise the internal wall finish is taken to be a 3 mm skim coated 12.5 mm plasterboard on dabs.

These U-values are valid for constructions with both a 40 mm and 50 mm clear residual cavity between the outer surface of the insulation and the inner face of the outer masonry leaf.

NB When calculating U-values to BS EN ISO 6946: 2017 the type of wall tie used may change the thickness of insulation required. For cavity widths ≤ 125 mm, calculations assume a stainless steel flexible tie with 2.5 ties per m^2 and a cross-sectional area of 12.50 mm^2 . For cavity widths > 125 mm, calculations assume a stainless steel flexible tie with 2.5 ties per m^2 and a cross-sectional area of 23.40 mm^2 . For cavity widths > 175 mm, calculations assume a stainless steel flexible tie with 2.5 ties per m^2 and a cross-sectional area of 80.00 mm^2 .

NB For the purposes of these calculations the standard of workmanship has been assumed good, and therefore the correction factor for air gaps has been ignored.

NB The figures quoted are for guidance only. A detailed U-value calculation and a condensation risk analysis should be completed for each project.

NB If your construction is different from those specified, and / or to gain a comprehensive U-value calculation along with a condensation risk analysis of your project, please consult the Kingspan Insulation Technical Service Department for assistance (see rear cover).

NB There are potential restrictions placed upon this product which vary dependant on building type, height, construction and location in Great Britain. For guidance regarding the routes to compliance for meeting the fire safety requirements of the Building Regulations / Standards in Great Britain, refer to the relevant links to Government websites at www.kingspaninsulation.co.uk/fireregulations.

U-value table key

Further information on the applicable notional and area weighted average limiting U-values is available in the relevant geographical documentation:

- Approved Documents L to the Building Regulations for England;
- Approved Documents L to the Building Regulations for Wales;
- Technical Handbooks Section 6 to the Building Standards for Scotland; and
- Technical Booklets F1 & F2 to the Building Regulations for Northern Ireland.

10 mm polymer rendered 100 mm dense block outer leaf* / 100 mm block inner leaf

Internal finish - fair faced blockwork

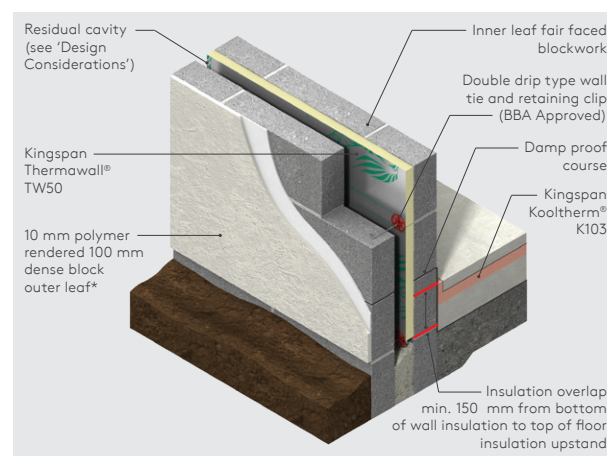


Figure 1

U-values ($\text{W/m}^2\text{K}$) for various thicknesses of Kingspan Thermawall® TW50				
Insulant thickness (mm)	Inner leaf fair faced blockwork density and λ -value (W/mK)			
	Dense (1.13)	Medium (0.51)	Lightweight (0.15)**	Aerated (0.11)**
40	0.35	0.34	0.29	0.28
50	0.30	0.29	0.26	0.25
60	0.26	0.25	0.23	0.22
70	0.23	0.23	0.21	0.20
75	0.22	0.22	0.20	0.19
80	0.21	0.21	0.19	0.19
100	0.18	0.17	0.16	0.16

* Calculations assume dense block outer leaf of λ -value (1.13 W/mK).

** A 6.6% thermal bridging factor has been assumed for the effect of mortar joints.

NB Some values may have been omitted from the table because they do not meet the most common minimum requirements.

NB Refer to local distributor or Kingspan Insulation price list for current stock and non-stock sizes.

Typical constructions and U-values

Internal finish - 3 mm skim coated 12.5 mm plasterboard

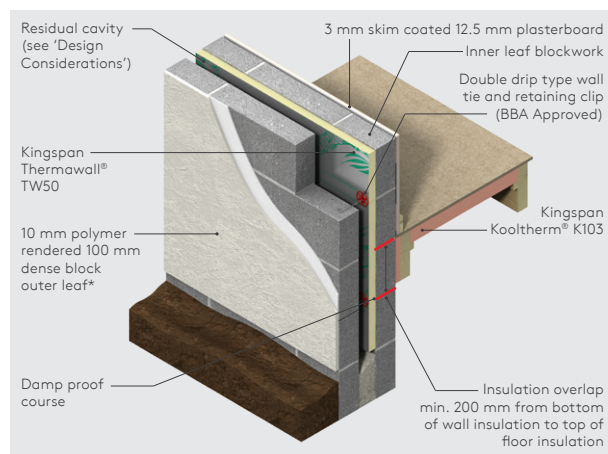


Figure 2

U-values (W/m ² K) for various thicknesses of Kingspan Thermawall® TW50				
Insulant thickness (mm)	Inner leaf blockwork density and λ-value (W/mK)			
	Dense (1.13)	Medium (0.51)	Lightweight (0.15)**	Aerated (0.11)**
40	0.33	0.32	0.28	0.27
50	0.28	0.27	0.25	0.24
60	0.25	0.24	0.22	0.21
70	0.22	0.22	0.20	0.19
75	0.21	0.21	0.19	0.19
80	0.20	0.20	0.18	0.18
100	0.17	0.17	0.16	0.15

* Calculations assume dense block outer leaf of λ-value (1.13 W/mK).

** A 6.6% thermal bridging factor has been assumed for the effect of mortar joints.

NB Some values may have been omitted from the table because they do not meet the most common minimum requirements.

NB Refer to local distributor or Kingspan Insulation price list for current stock and non-stock sizes.

Internal finish - Kingspan Kooltherm® K118 Insulated Plasterboard

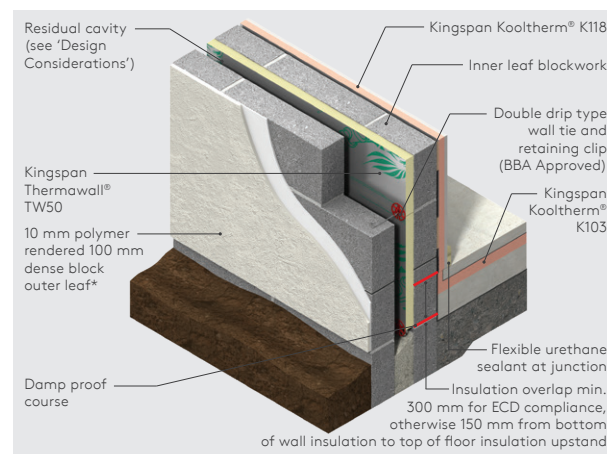


Figure 3

U-values (W/m ² K) for various thicknesses of Kingspan Kooltherm® K118** and thicknesses of Kingspan Thermawall® TW50				
Thickness of Kingspan Thermawall® TW50 (mm)	Inner leaf blockwork density and λ-value (W/mK)			
	Dense (1.13)	Medium (0.51)	Lightweight (0.15)***	Aerated (0.11)***
37.5 mm Kingspan Kooltherm® K118**				
40	0.22	0.22	0.20	0.19
50	0.20	0.20	0.18	0.18
60	0.18	0.18	0.17	0.16
70	0.17	0.17	0.16	0.16
75	0.16	0.16	0.15	0.15
80	0.16	0.15	0.15	0.14
57.5 mm Kingspan Kooltherm® K118**				
50	0.17	0.16	0.15	0.21
60	0.15	0.15	0.14	0.14

* Calculations assume dense block outer leaf of λ-value (1.13 W/mK).

** Product thickness = insulant thickness + 12.5 mm plasterboard.

*** A 6.6% thermal bridging factor has been assumed for the effect of mortar joints.

NB Refer to local distributor or Kingspan Insulation price list for current stock and non-stock sizes.

Typical constructions and U-values

102.5 mm brick outer leaf / 100 mm block inner leaf

Internal finish - fair faced blockwork

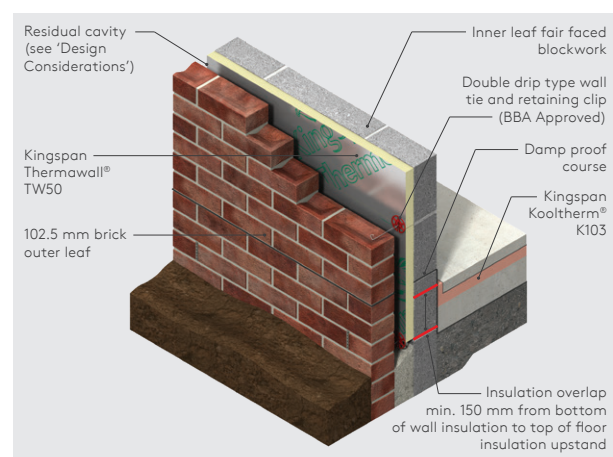


Figure 4

U-values (W/m ² K) for various thicknesses of Kingspan Thermawall® TW50				
Insulant thickness (mm)	Inner leaf fair faced blockwork density and λ-value (W/mK)			
	Dense (1.13)	Medium (0.51)	Lightweight (0.15)*	Aerated (0.11)*
40	0.35	0.34	0.30	0.28
50	0.30	0.29	0.26	0.25
60	0.26	0.26	0.23	0.23
70	0.24	0.23	0.21	0.20
75	0.22	0.22	0.20	0.20
80	0.21	0.21	0.19	0.19
100	0.18	0.18	0.16	0.16

* A 6.6% thermal bridging factor has been assumed for the effect of mortar joints.

NB Some values may have been omitted from the table because they do not meet the most common minimum requirements.

NB Refer to local distributor or Kingspan Insulation price list for current stock and non-stock sizes.

Internal finish - 3 mm skim coated 12.5 mm plasterboard

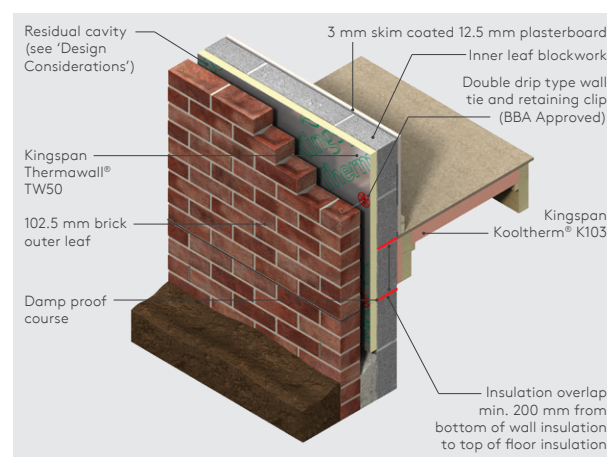


Figure 5

U-values (W/m ² K) for various thicknesses of Kingspan Thermawall® TW50				
Insulant thickness (mm)	Inner leaf blockwork density and λ-value (W/mK)			
	Dense (1.13)	Medium (0.51)	Lightweight (0.15)*	Aerated (0.11)*
40	0.33	0.32	0.28	0.27
50	0.28	0.27	0.25	0.24
60	0.25	0.24	0.22	0.22
70	0.22	0.22	0.20	0.20
75	0.21	0.21	0.19	0.19
80	0.20	0.20	0.19	0.18
100	0.17	0.17	0.16	0.15

* A 6.6% thermal bridging factor has been assumed for the effect of mortar joints.

NB Some values may have been omitted from the table because they do not meet the most common minimum requirements.

NB Refer to local distributor or Kingspan Insulation price list for current stock and non-stock sizes.

Typical constructions and U-values

Internal finish - Kingspan Kooltherm® K118

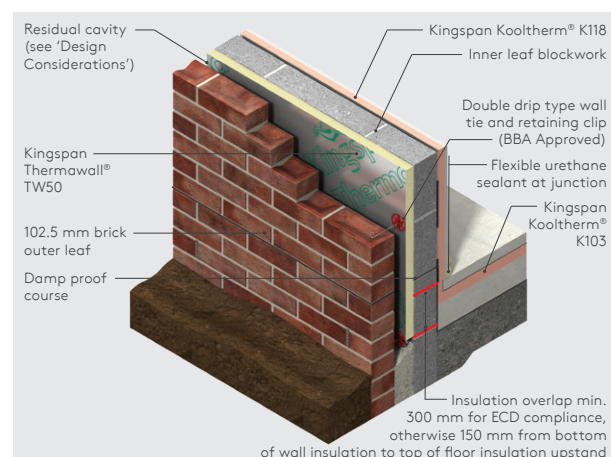


Figure 6

U-values (W/m ² K) for various thicknesses of Kingspan Kooltherm® K118* and thicknesses of Kingspan Thermawall® TW50				
Thickness of Kingspan Thermawall® TW50 (mm)	Inner leaf blockwork density and λ-value (W/mK)			
	Dense (1.13)	Medium (0.51)	Lightweight (0.15)**	Aerated (0.11)**
37.5 mm Kingspan Kooltherm® K118*				
40	0.22	0.22	0.20	0.19
50	0.20	0.20	0.18	0.18
60	0.19	0.18	0.17	0.16
70	0.17	0.17	0.16	0.15
75	0.16	0.16	0.15	0.15
80	0.16	0.16	0.15	0.14
57.5 mm Kingspan Kooltherm® K118*				
50	0.17	0.16	0.15	0.15
60	0.15	0.15	0.14	0.14

* Product thickness = insulant thickness + 12.5 mm plasterboard.

** A 6.6% thermal bridging factor has been assumed for the effect of mortar joints.

NB Refer to local distributor or Kingspan Insulation price list for current stock and non-stock sizes.

Heat loss and linear thermal bridging

Basic principles

Linear thermal bridging describes the additional heat losses or gains that occur at junctions between elements e.g. where a cavity wall meets the ground or intermediate floor, or at junctions around openings in the building fabric where the thermal insulation layer is discontinuous e.g. sills, jambs and lintels.

Interruptions within the insulation layer by materials with poorer insulating properties can result in a thermal bridge, which in turn can lead to problems of internal surface condensation and mould growth, especially if there is a drop in surface temperature.

The heat flow at these junctions and opening locations, over and above that through the adjoining plane elements, is the linear thermal transmittance of the thermal bridge: measured in W/mK; referred to as a 'psi-value'; and expressed as a 'ψ-value'.

The lower the ψ-value, the better the performance. ψ-values are taken into account in the calculation methodologies e.g. the Standard Assessment Procedure (SAP) that are used to assess the operational CO₂ emissions and, where applicable, the fabric energy efficiency of buildings, primary energy or delivered energy rates.

ψ-values can comprise either, or a combination of, calculated and assumed values.

Approved details can uplift performance to provide a clear starting point towards achieving compliance, but can be limited in scope and applicability. The greatest opportunity for mitigating the impact of linear thermal bridges can come from following accurately 'modelled' details that take into account the following design considerations.

Typical constructions and U-values

Reducing linear thermal bridging

Detailing at junctions to minimise the effects of thermal bridging and the associated risk of condensation or mould growth is important and there are some simple design considerations that can be adopted to help mitigate the risks and to reduce heat losses.

- Care is required to ensure continuation of insulation wherever possible for best thermal performance. Where this is not possible, insulation layers should be overlapped and ideally, insulation material introduced between. In a standard cavity wall-to-ground floor junction the main linear thermal bridge is the inner leaf of masonry. This linear thermal bridge can be reduced by increasing the distance that the heat has to travel through the inner leaf of masonry. This can be achieved by means of overlapping the partial fill cavity wall insulation and the floor insulation.
- The key factor is the distance between the bottom of the cavity wall insulation and the top of the floor insulation (including any perimeter insulation upstand). In order to minimise cold bridging at the edge of ground floors, the distance between the top surface of the floor insulation or perimeter insulation upstand, and the bottom of the wall insulation must be a minimum of 150 mm for a concrete floor (see Figures 1 & 4) and 200 mm for a suspended timber floor (see Figures 2 & 5). The further appropriate wall insulation extends past the floor insulation, the better the thermal performance of the junction between the wall and the floor.
- Perimeter upstand insulation is extremely important for minimising heat losses from the junction with external walls. This helps to increase the path of heat flow and therefore helps reduce losses through the junction. Omitting this, or using a poorer performance insulation for this purpose, can increase these losses.
- Using better thermal performance 'lightweight' aggregate blockwork on the inner leaf in adjacency to the junction with the floor can also assist with assuring lower heat losses from the junction.
- An internal lining of insulation on the warm side of the construction such as Kingspan Kooltherm® K118, can also help to reduce heat losses.
- Prevention of thermal bridging should be considered when designing sills, jambs and lintels.
- Heat-loss from junctions around window or door openings can be further reduced by insulating the reveal. The key factor is the thermal resistance (R-value) of the insulation layer. Reveals should be designed to accommodate a minimal thickness of Kingspan Kooltherm® K118.
- For junctions between the external walls and roof constructions, continuity and overlap of insulation layers is the key to minimising heat losses from the junctions. Refer to Kingspan Thermapitch® TP10 literature for further design considerations.

For further advice on details to reduce linear thermal bridging please contact the Kingspan Insulation Technical Service Department (see rear cover for details).

Design considerations

Environmental impact & responsible sourcing

Environmental Product Declaration

An Environmental Product Declaration (EPD), certified by BRE Global to the BRE Environmental Profiles 2013 Product Category Rules for Type III environmental product declaration of construction products to BS EN 15804: 2012 + A1: 2013 (Sustainability of construction works. Environmental product declarations. Core rules for the product category of construction products), has been created for Kingspan Thermawall® TW55 produced at Kingspan Insulation's Pembridge (Herefordshire) and Selby (North Yorkshire) manufacturing facilities.

Responsible sourcing

Kingspan Thermawall® TW50 produced at Kingspan Insulation's Pembridge (Herefordshire) and Selby (North Yorkshire) manufacturing facilities is certified to BES 6001 (Framework Standard for the Responsible Sourcing of Construction Products) 'Good'.



To download the EPD or certification please visit our [website](#).

Sustainability & responsibility

Kingspan Insulation has a long-term commitment to sustainability and responsibility: as a manufacturer and supplier of insulation products; as an employer; as a substantial landholder; and as a key member of its neighbouring communities.

A report covering the sustainability and responsibility of Kingspan Insulation Ltd's operations at its Pembridge (Herefordshire) and Selby (North Yorkshire) manufacturing facilities is available upon request from literature@kingspaninsulation.co.uk.

Specification clause

Kingspan Thermawall® TW50 should be described in specifications as:

The cavity wall insulation shall be Kingspan Thermawall® TW50 ____ mm thick: comprising rigid thermoset polyisocyanurate insulation core faced on both sides with a low emissivity composite foil facing. The product shall be manufactured in accordance with the requirements of BS EN 13165: 2012 + A2: 2016; under a management system certified to ISO 9001: 2015, ISO 14001: 2015, ISO 45001: 2018, ISO 50001: 2018 and ISO 37301: 2021 by Kingspan Insulation Limited; and installed in accordance with the instructions issued by them.

Product classifications

Uniclass UK

Pr_25_71_63_66 Polyisocyanurate (PIR) foam boards
Pr_25_31_28_65 Polyisocyanurate (PIR) foam insulation
Pr_80_77_76_65 Polyisocyanurate (PIR) insulation

CAWS

F30/155 (Standard and Intermediate)
F30/12 (Minor Works)

Further details available at source.thenbs.com.

Building Information Modelling (BIM)

BIM objects for Kingspan Thermawall® TW50 can be downloaded at www.kingspaninsulation.co.uk/tw50.

Design standards

BS EN 845-1: 2013 + A1: 2016 (Specification for ancillary components of masonry. Wall ties, tension straps, hangers and brackets), BS EN 1996-1-1: 2005 + A1: 2012 (Eurocode 6. Design of masonry structures. General rules for reinforced and unreinforced masonry structures), BS EN 1996-2: 2006 (Eurocode 6. Design of masonry structures. Design considerations, selection of materials and execution of masonry), BS EN 1996-3: 2006 (Eurocode 6. Design of masonry structures. Simplified calculation methods for unreinforced masonry structures) and PD 6697: 2019 (Recommendations for the design of masonry structures to BS EN 1996-1-1 and BS EN 1996-2) should be consulted regarding the construction of insulated cavity walls.

Design considerations

Residual cavity width

The residual cavity width should be 50 mm. This may be reduced to 25 mm in isolated areas due to individual construction features. Please refer to BBA Certificate 14/5133 for further information.

The NHBC normally requires a 50 mm residual cavity width in areas of severe exposure to wind driven rain (exposure zone 3) and a minimum 75 mm residual cavity width in areas of very severe exposure to wind driven rain (exposure zone 4), where nominal standards of tolerance and workmanship are accepted.

Wall ties

Wall ties should have a retaining clip for securing the insulant to the masonry plane and be of a double drip type. Ideally they should be BBA / NSAI approved and conform to BS EN 845-1: 2013 + A1: 2016 (Specification for ancillary components of masonry. Wall ties, tension straps, hangers and brackets), BS EN 1996-1-1: 2005 + A1: 2012 (Eurocode 6. Design of masonry structures. General rules for reinforced and unreinforced masonry structures), BS EN 1996-2: 2006 (Eurocode 6. Design of masonry structures. Design considerations, selection of materials and execution of masonry), BS EN 1996-3: 2006 (Eurocode 6. Design of masonry structures. Simplified calculation methods for unreinforced masonry structures) and PD 6697: 2010 (Recommendations for the design of masonry structures to BS EN 1996-1-1 and BS EN 1996-2).

Lightning protection

Building designers should give consideration to the requirements of BS EN 62305-1: 2011 (Protection against lightning).

Sitework

- Kingspan Thermawall® TW50 features a foil on both sides and therefore can be installed with either side facing outwards.
- There are potential restrictions placed upon this product which vary dependant on building type, height, construction and location in Great Britain. For guidance regarding the routes to compliance for meeting the fire safety requirements of the Building Regulations / Standards in Great Britain, refer to the relevant links to Government websites at www.kingspaninsulation.co.uk/fireregulations.

Fixing details

- Kingspan Thermawall® TW50 is normally held in position by the wall ties used to tie the two skins of masonry together.
- Wall ties should include a retaining disc / clip and be of the double drip type, installed drip downward.
- For a solid concrete ground floor the first row of wall ties are installed in the inner leaf at 600 mm horizontal centres a minimum of one course of blockwork below the damp proof course or 150 mm below the top surface of the ground floor perimeter insulation upstand (see 'Heat Loss and Linear Thermal Bridging' above), whichever is the lower.
- For a suspended timber floor the first row of wall ties are installed in the inner leaf at 600 mm horizontal centres a minimum of 200 mm below the top surface of the ground floor perimeter insulation upstand (see 'Heat Loss and Linear Thermal Bridging' above).
- Continue constructing the inner leaf up to the next wall tie course (450 mm above the first - usually 2 block courses).
- The next course of wall ties is positioned at the usual 900 mm horizontal centres in the UK.
- The next course of blockwork is installed to secure the ties.
- The first row of insulation boards should now be installed between the two rows of wall ties, ensuring each insulation board is retained tight against the inner leaf and joints are lightly butted.
- Each board should be secured at a minimum of three points. Additional ties may also be required to satisfy the structural requirements of BS EN 845-1: 2013 + A1: 2016, BS EN 1996-1-1: 2005 + A1: 2012, BS EN 1996-2: 2006, BS EN 1996-3: 2006, PD 6697: 2019 and / or to ensure adequate retention of boards or cut pieces.
- The outer leaf is then built up to the level of the top of the boards and the process is repeated.
- When insulating a gable, insulation boards should be continued 250 mm beyond the height of the top storey ceiling and a cavity tray installed above the insulation.

Excess mortar

- After raising each section of inner leaf, before installation of the insulation board, excess mortar should be removed and mortar droppings cleaned from exposed edges of the installed insulation boards.
- Use of a cavity batten or cavity board is recommended to protect board edges and maintain a clear cavity (see Figures 7 & 8 or refer to BBA Certificate 14/5133).

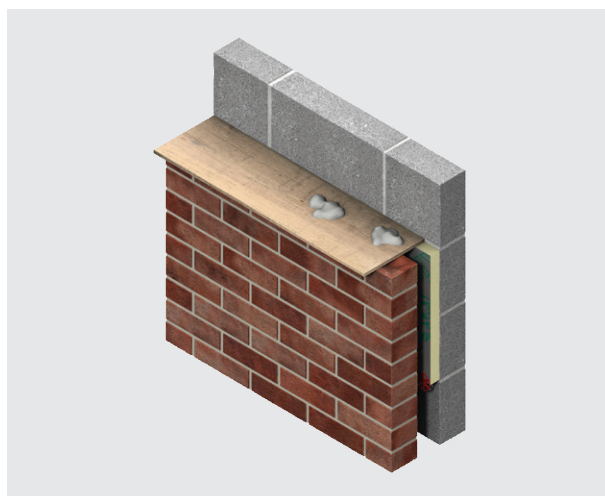


Figure 7 - Use of a cavity board to protect the cavity and insulation board top edge

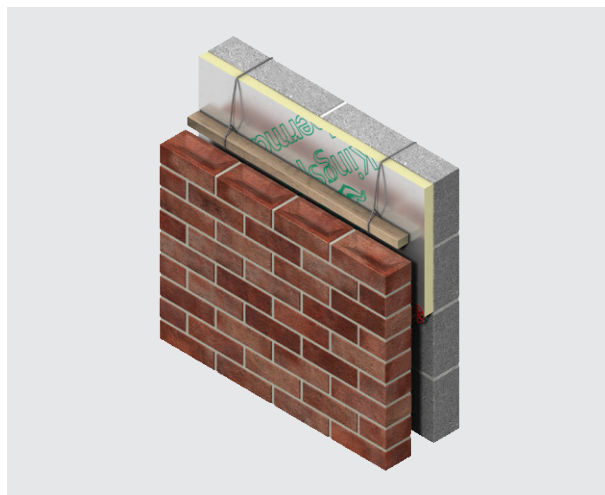


Figure 8 - Use of a cavity batten to protect the cavity

Sitework

General

Cutting

- Cutting should be carried out either by using a fine toothed saw, or by scoring with a sharp knife, snapping the board over a straight edge and then cutting the facing on the other side.
- Ensure accurate trimming to achieve close butting joints and continuity of insulation.

Daily working practice

- At the completion of each day's work, or whenever work is interrupted for extended periods of time, board edges and joints should be protected from inclement weather.

Availability

- Kingspan Thermawall® TW50 is available through specialist insulation distributors and selected builders' merchants throughout the UK.

Packaging and storage

- The polyethylene packaging of Kingspan Insulation products, which is recyclable, should not be considered adequate for outdoor protection.
- Ideally, boards should be stored inside a building. If, however, outside storage cannot be avoided, then the boards should be stacked clear of the ground and covered with an opaque polythene sheet or weatherproof tarpaulin. Boards that have been allowed to get wet should not be used.

Health and safety

- Kingspan Insulation products are chemically inert and safe to use.
- A Safety Information Data Sheet for this product is available from the Kingspan Insulation website www.kingspaninsulation.co.uk/safety.

Please note that the reflective surfaces on this product are designed to enhance its thermal performance. As such, they will reflect light as well as heat, including ultraviolet light. Therefore, if this product is being installed during very bright or sunny weather, it is advisable to wear UV protective sunglasses or goggles, and if the skin is exposed for a significant period of time, to protect the bare skin with a UV block sun cream.

The reflective facings used on this product can be slippery when wet. Therefore, it is recommended that any excess material should be contained to avoid a slip hazard.

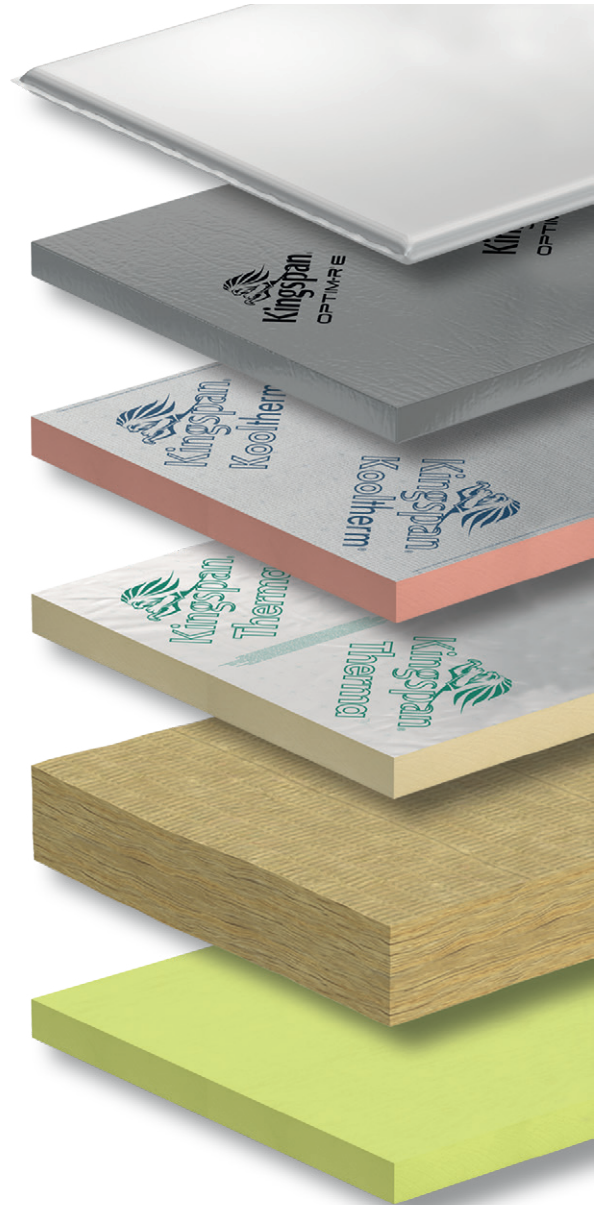
Warning - do not stand on or otherwise support your weight on this product unless it is fully supported by a load bearing surface.

About Kingspan Insulation

Products & solutions

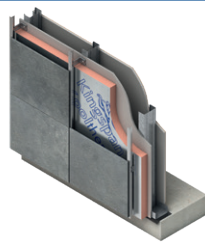
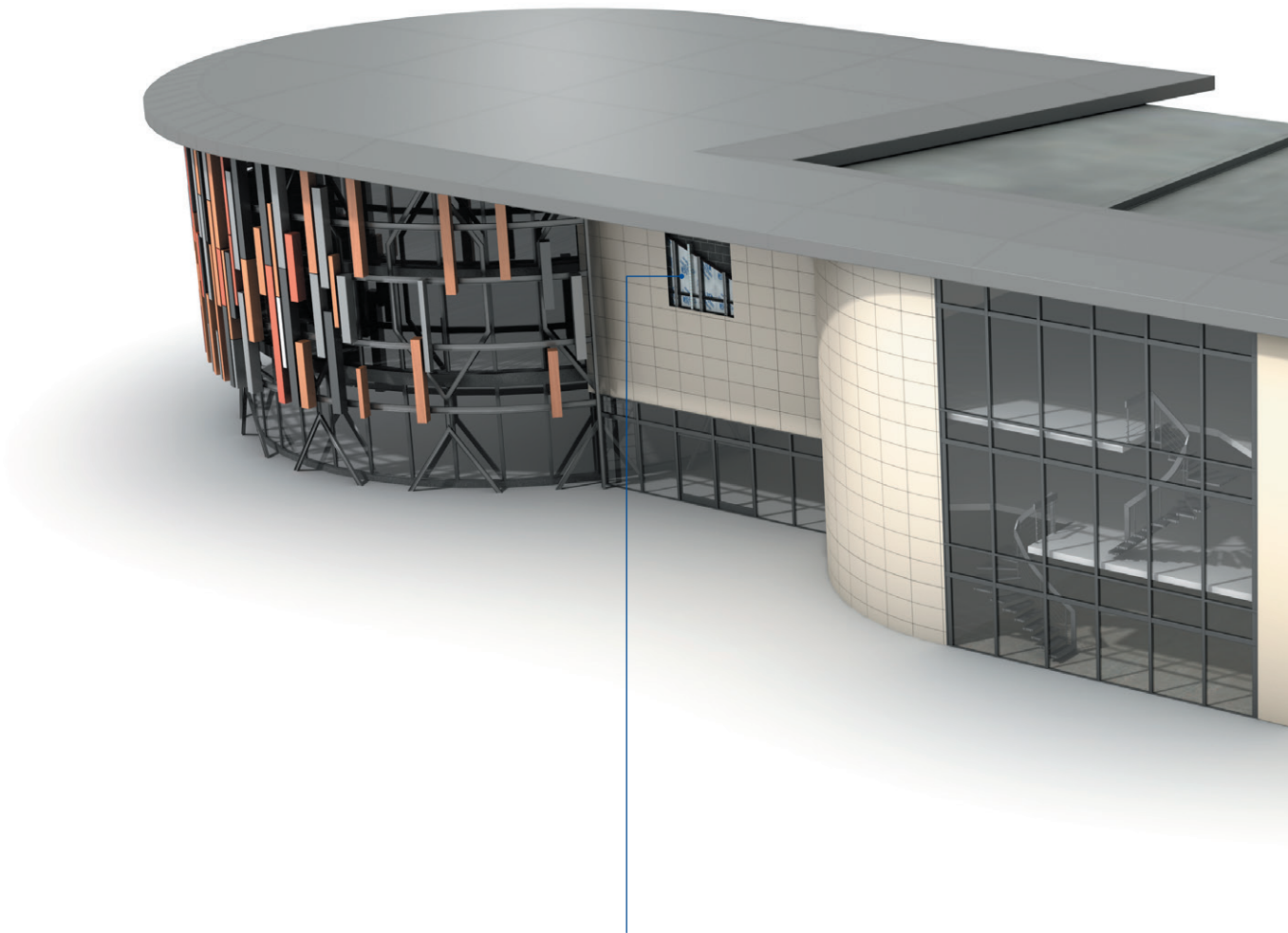
Rigid insulation products for building fabric applications, including roofs, walls and floors.

- Kingspan AlphaCore® – microporous silica-based insulation.
- Kingspan OPTIM-R® – vacuum insulation panel (VIP) systems.
- Kingspan Kooltherm® – phenolic insulation.
- Kingspan Therma™ – PIR insulation.
- K-Roc® – rock mineral fibre insulation.
- Kingspan GreenGuard® – extruded polystyrene insulation (XPS).
- Kingspan TEK® – structural insulated panels (SIPs).
- Cavity closers – PVC-U extrusions with an insulation core.
- Membranes – for pitched roofs and walls.



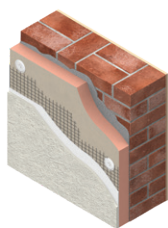
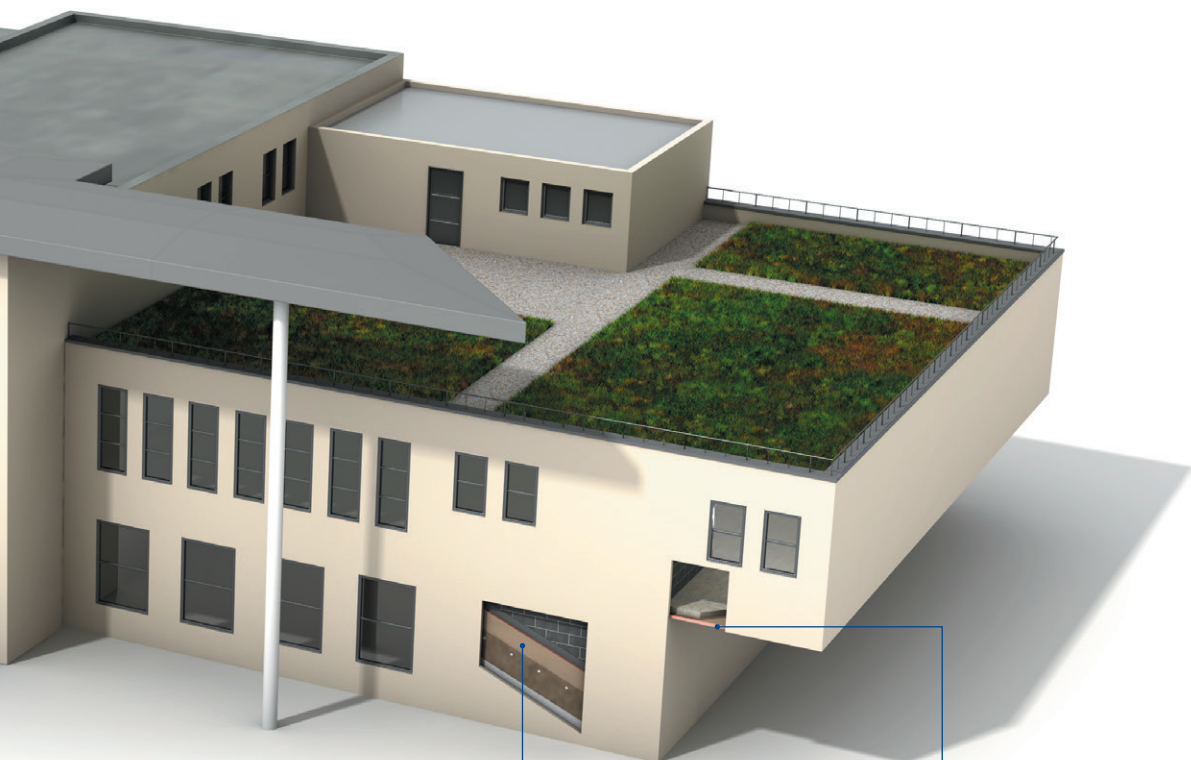
About Kingspan Insulation

Solutions available for roofs, walls and floors of commercial buildings, from schools to retail.



Insulation for use behind rainscreen or masonry façade systems

About Kingspan Insulation



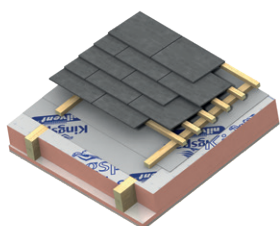
External insulation for
masonry walls



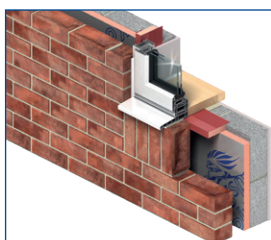
Insulation for structural
ceilings (soffits)

About Kingspan Insulation

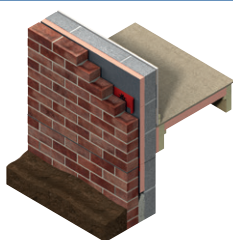
From new housing developments to refurbishing your home, we offer a number of different solutions for roof, wall and floor applications.



Insulation for tiled or slated pitched warm roof spaces



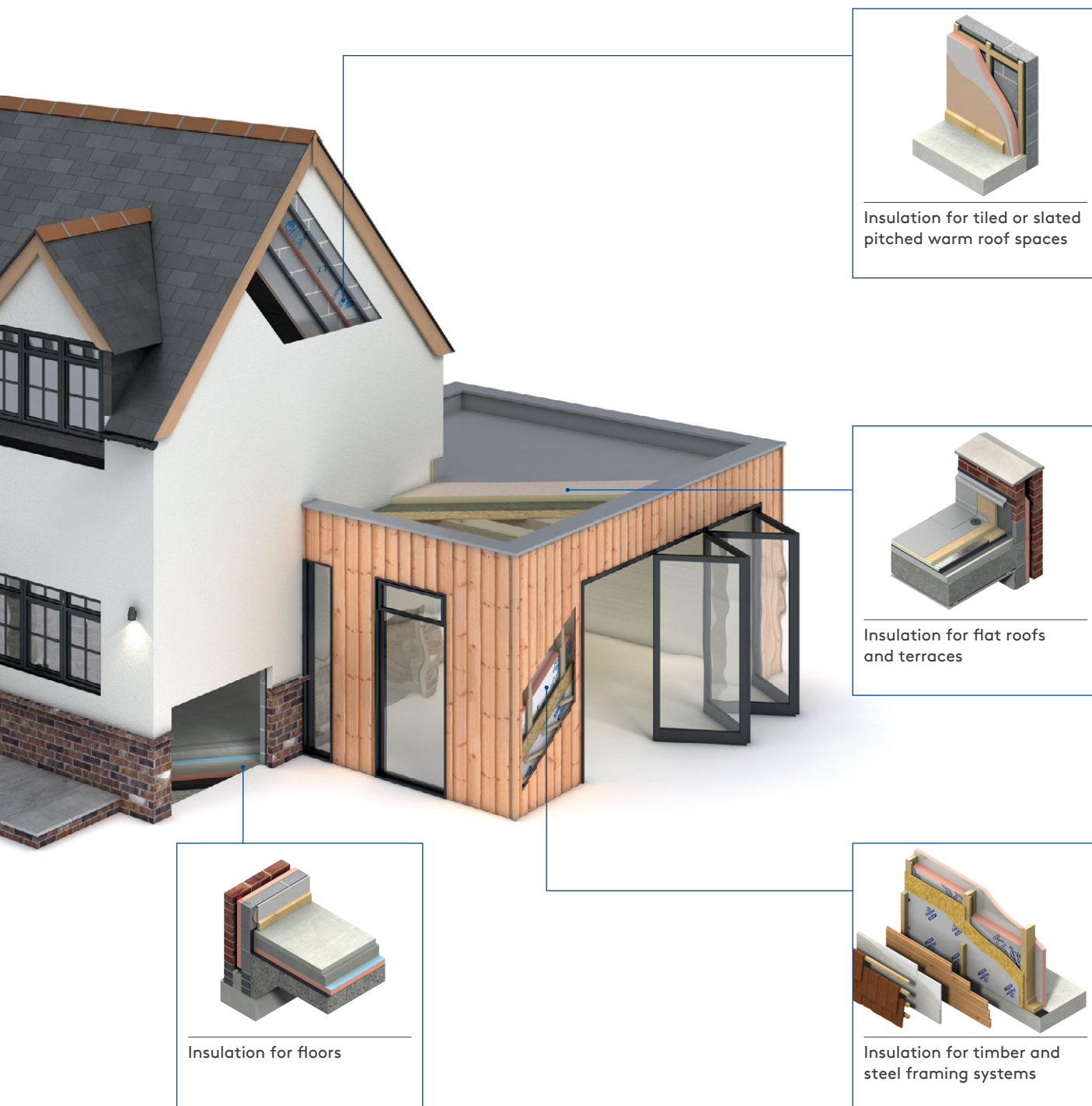
Insulated extrusions for closing wall cavities at openings



Full and partial fill cavity wall insulation



About Kingspan Insulation



About Kingspan Insulation

Company details

Kingspan Insulation Ltd is part of the Kingspan Group plc., one of Europe's leading construction product manufacturers. The Kingspan Group was formed in the late 1960s and is a publicly quoted group of companies headquartered in Kingscourt, County Cavan, Ireland.



Kingspan Insulation Ltd is a leading manufacturer of rigid insulation products and insulated systems for building fabric and building services applications.

Our GB head office is located in Pembridge, in the heart of rural Herefordshire. Our northern hub is near Selby in North Yorkshire. We also have a site in Castleblayney, Ireland. All three sites are accredited to the independent compliance standard ISO 37301: 2021.



Services

Our support services provide fast and accurate advice no matter what your role is. Visit our website to access the following services.

- U-value calculations – free, quick and easy U-value calculations with our U-value Calculator.
- Help and advice on your projects, including stockists, how to guides, regulatory guidance and e-learning.
- Dedicated Specification and Sales teams to support projects.
- Building Information Modelling (BIM) – download BIM objects for our products.
- Tapered roofing service – Kingspan Insulation's tapered roofing systems come with a supporting design service to ensure the most cost-effective solution for a roof is identified.



- CPDs – Kingspan Insulation offers a number of free CPD seminars for architects and specifiers covering a wide range of industry topics. CPDs can be booked or a range of courses can be found online.
- Product awareness training – build your team's knowledge with on-site training and support with one of our experienced product technicians who cover the full range of Kingspan products and applications, from flooring to roofing and everything in-between with both internal and external wall insulations.





Planet Passionate is our group wide global sustainability programme.

Our Planet Passionate programme aims to have a positive impact on three big global challenges: climate change, circularity and protection of our natural world.



Scan for our latest progress report to learn more about our targets, partnerships and global commitments, or click [here](#).



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www.kingspaninsulation.co.uk/contact



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