

PRODUCT HANDBOOK

Insulation for:

Walls

Floors

Roofs

Soffit



RENOVATE / INSULATE



Improve your home's performance and value from top to bottom with Unilin Insulation's range of trusted insulation products.

As part of the global group of Unilin companies, we are now able to deliver even more by combining our efforts across the world for even greater environmental impact under Unilin's ONEHOME strategy.

One Home targets real change and is backed by investment to make our sustainability pledges a reality. It will help us deliver environmental improvements to our products, our operations and in how we do business.

As a company, we are committed to science based targets (SBTs) and we will work with industry and communities to learn and share knowledge. We will adapt to deliver a more sustainable future for our families and the communities in which we work and live.



Solutions for:
Walls, Floors & Roofs

For more information on our Renovation range, please visit:
unilininsulation.co.uk/betterhomes



XT/PR_UF (ROOFS)

RAFTERLOC

XT/WALK-R

XT/TL

XT/HYF

Our Guide to reaching $0.18 \text{ W/m}^2\text{K}$ in Cavity Walls

Our solutions to Regulations
Part L Volume 1 Dwellings
Conservation of fuel & power
in existing dwellings



Our solutions to reaching a U-Value of 0.18 W/m²K

Full Fill Option

Required Cavity width

110mm
Cavity

Using **CavityTherm**

125mm
Cavity

Using **CavityTherm** to achieve Passive U-Values

CAVITYTHERM
U-Value =
0.15 to 0.18 W/m²K



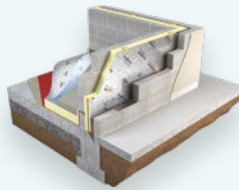
Partial Fill Options

Required Cavity width

140mm
Cavity

Using **Cavity Wall Plus (T&G)**

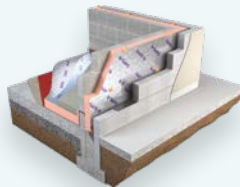
CAVITY WALL PLUS (T&G)
U-Value = 0.17 to 0.18 W/m²K



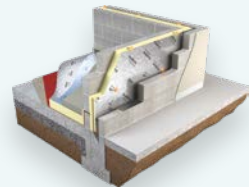
150mm
Cavity

Using **Safe-R Cavity Wall** or **Thin-R Cavity Wall**

SAFE-R CAVITY WALL
U-Value = 0.15 to 0.16 W/m²K



THIN-R CAVITY WALL (T&G)
U-Value = 0.16 to 0.17 W/m²K



OUR PRODUCTS

Products by Application

WALLS

Built-in Full Fill Walls

ECO/CT Full Fill Cavity Walls**	10
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Partial Fill Cavity Walls

ECO/CW Partial Fill Cavity Walls**	11
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CCPI approved product	

Drylining Walls

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Framing Walls

SR/FB Framing Board	20
XO/FB Framing Board	21
XT/TF Timber Frame	22

Key

ECO360	XTROLINER
SAFE-R	THIN-R
CAVITYTHERM	THIN-R PLUS

†CCPI approved product



ROOFS

Pitched Roofs

ECO/MA (Roofs) Pitched Roof	24
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CCPI approved product	
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Flat Roofs

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FLOORS

Solid & Suspended Floors

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Hyfloor (XT/HYF)	39
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CCPI approved product	
XT/WALK-R	42
SR/UF	43

SOFFITS

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**Unilin Insulation products are available with engineered jointing for improved continuity and Thermal Bridging detailing.



The information in this brochure is limited. Please visit unilininsulation.co.uk or contact our Technical team for full details (including properties, certifications and installation guidelines). Pictures of renders are indicative only.

Our insulation products have been manufactured as solutions for specific building projects. Whether you are constructing a roof, installing a floor, or looking at low carbon wall types, there is always a practical, cost effective Unilin Insulation solution to suit your project.

Products by Range

ECO360

BIO-ENHANCED
PIR INSULATION

ECO/CT 10

Walls:
Full Fill Cavity Walls

ECO/CW 11

Walls:
Partial Fill Cavity Walls

ECO/MA (Roofs) 24

Roofs:
Pitched Roofs

ECO/MA (Roofs) 25

Roofs:
Sarking Warm
Roof Construction

ECO/MA (Floors) 38

Floors:
Solid & Suspended Floors

XTROLINER

SUPERIOR PERFORMANCE
PIR INSULATION*

XO/FB 21

Walls:
Steel & Timber Frame

XO/PR 26

Roofs:
Pitched Roofs

XO/SK (T&G) 27

Roofs:
Pitched Roofs

XO/XD 36

Roofs:
Built-up Bituminous
Felt Systems

XO/UF 40

Floors:
Solid & Suspended Floors

XO/STP 47

Soffit:
Soffit Application

CAVITYTHERM

BUILT-IN FULL FILL
PIR WALL INSULATION

CT/PIR 12

Walls:
Full Fill Built-in
Insulation system

SAFE-R

PHENOLIC
INSULATION

SR/CW 14

Walls:
Partial Fill Cavity Walls

SR/FB 20

Walls:
Steel & Timber Frame

SR/PR 29

Roofs:
Pitched Roofs

SR/TB 16

Walls:
Drylining Walls

SR/TB-MF 17

Walls:
Drylining Walls

SR/UF 43

Floors:
Solid & Suspended Floors

SR/ST 45

Soffit:
Soffit Application

SR/STP 46

Soffit:
Soffit Application

THIN-R

PIR
INSULATION

XT/CW (T&G) 15

Walls:
Partial Fill Cavity Walls

XT/TF 22

Walls:
Timber Framed Walls

XT/TL 18

Walls:
Drylining Walls
Dot & Dab

XT/TL-MF 19

Walls:
Drylining Walls
Mechanically Fixed

XT/PR_UF (Roofs) 28

Roofs:
Pitched Roof

XT/RLOC 30

Roofs:
Pitched Roof Board

FR/ALU 32

Roofs:
Mechanically Fixed
Single Ply Waterproofing
Systems

FR/MG 33

Roofs:
Single Ply Fully Adhered
/ Partially Bonded Built-
Up Felt Systems

FR/BGM 34

Roofs:
Partially Bonded,
Torch-on, Built-up
Bituminous Felt Systems

FR/TP 35

Roofs:
Thermal Ply High
Performance PIR &
Plywood Composite
for Flat Roofs

XT/PR_UF (Floors) 41

Floors:
Ground Supported
& Suspended Floors

XT/WALK-R 42

Floors:
Loft decking

THIN-R PLUS

ENHANCED
PIR INSULATION

XT/CWP (T&G) 13

Walls:
Partial Fill Cavity Walls

Hyfloor (XT/HYF) 39

Floors:
Ground Supported
& Suspended Floors

XPS

EXTRUDED POLYSTYRENE
INSULATION

XPS 48

Extruded Polystyrene
Insulation

EPS

EXPANDED POLYSTYRENE
INSULATION

Hytherm/Warm-R 49

Expanded Polystyrene
Insulation

CLOSE-R

INSULATED
CAVITY CLOSER

Safe-R Close-R 50

Insulation Accessories

Close-R 51

Insulation Accessories

*The reference to superior performance relates to the product or ranges thermal conductivity or fire performance or a combination of both, when compared to our Thin-R range.

A Guide To Running U-Values

This quick guide gives you the details on the information you need when contacting our Technical Team to get your site specific U-Value calculation.

Requirements

Note: Target U-Values and drawings are preferred for running all calculations.

Project reference, Location & Contractor/Sub-contractor

Required to assist with tracking projects, pricing and providing condensation risk analysis assessment when required.

Ground Floor Type

(Ground bearing or block and beam), build up and exposed perimeter & gross internal ground floor area (P/A or alternatively the ground floor drawing).

Flat Roof

(Type of flat roof & build up)

Warm (*above deck*)
Hybrid (*above & below*)
Cold (*all below & ventilated*)

Pitched Roof

(Type of pitched roof, rafter depth, centres and build up)

Warm (*all above the rafter*)
Hybrid (*above & between the rafter*)
Cold (*between & below the rafter*)

Exposed Floor

Build up

External Wall

Build up, block type if masonry (thermal conductivity) and height.

Soffit

Build up

Any Specific Details such as Reaction to Fire and/or Compressive Strength

Three Step U-Value Calculation Process:



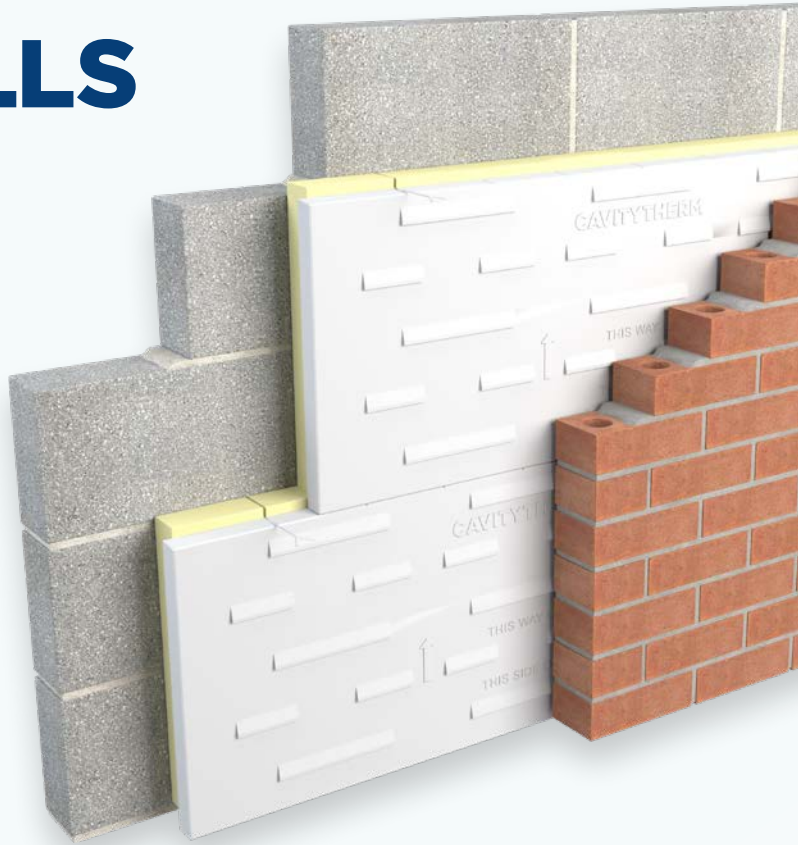
For running U-Values and further technical advice contact Unilin Insulation's technical team by phone or by email:

t: 0371 222 1055

e: tech.ui@unilin.com

unilininsulation.co.uk

WALLS



Built-in Full Fill Walls

■ ECO/CT Full Fill Cavity Walls	10
■ CT/PIR Full Fill Cavity Walls	12

Partial Fill Cavity Walls

■ ECO/CW Partial Fill Cavity Walls	11
■ XT/CWP (T&G) Partial Fill Cavity Walls	13
■ SR/CW Partial Fill Cavity Walls	14
■ XT/CW (T&G) Partial Fill Cavity Walls	15

Drylining Walls

■ SR/TB Drylining (Dot & Dab)	16
■ SR/TB-MF Drylining (Mech Fixed)	17
■ XT/TL Drylining (Dot & Dab)	18
■ XT/TL-MF Drylining (Mech Fixed)	19

Framing Walls

■ SR/FB Framing Board	20
■ XO/FB Framing Board	21
■ XT/TF Timber Frame	22

ECO360 BIO-ENHANCED PIR INSULATION

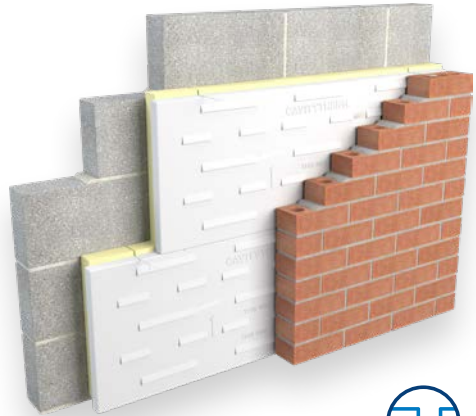
Full Fill Cavity Walls

Lambda
value as low as
0.020 W/mK

ECO/CT

An engineered system providing added resilience against increases in wind-driven rain resulting from climate change.

CavityTherm 360 is a bio-enhanced composite board of enhanced PIR with a thermal conductivity as low as 0.020 W/mK for full fill cavity wall applications.



SHIPLAP
JOINTING

Key Features

- Bio-enhanced PIR insulation
- Halogen free
- Enhanced performance 0.020 W/mK
- Bio-degradable packaging - Reduced packaging materials
- Moisture directed to outer surface
- Fully engineered jointing
- Fully recyclable HIPs facer provides wind-driven rain protection
- Wide range of system compatible accessories that build to a system

Specifications

Thermal Conductivity	0.020 W/mK
Facings	Composite Foil/Engineered Hips
Core	Bio-enhanced PIR Insulation
Board Size	1200mm x 450mm
Board Thickness	110, 125, 150mm
Board Profile	Rebate Edge
Preformed Corner	Yes

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

ECO360 BIO-ENHANCED PIR INSULATION

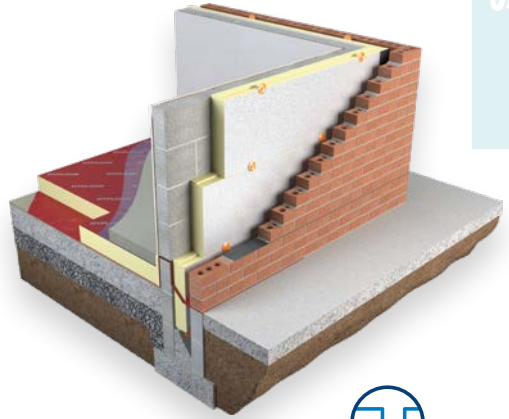
Partial Fill Cavity Walls

Lambda
value as low as
0.020 W/mK

ECO/CW

Cavity Wall 360 is a bio-enhanced partial fill wall insulation system. The system incorporates facings, engineered jointing details, preformed corners and has a Lambda of 0.020 W/mK.

Cavity Wall 360 is an environmentally sound choice for Passive and low energy builds. It can achieve a Passive U-Value of 0.15 W/m²K in a traditional cavity wall. When building with Cavity Wall 360 a residual cavity is maintained, offering excellent protection against wind-driven rain.



Key Features

- Bio-enhanced PIR insulation
- Halogen free
- Enhanced performance 0.020 W/mK
- Bio-degradable packaging
- Clear cavity maintained
- Lower Lambda value for improved U-Values

Specifications

Thermal Conductivity	0.020 W/mK
Facings	Textured foil facings
Core	Bio-enhanced PIR Insulation
Board Size	1200mm x 450mm
Board Thickness	100, 110mm
Board Profile	Rebate Edge
Preformed Corner	Yes

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

CAVITYTHERM

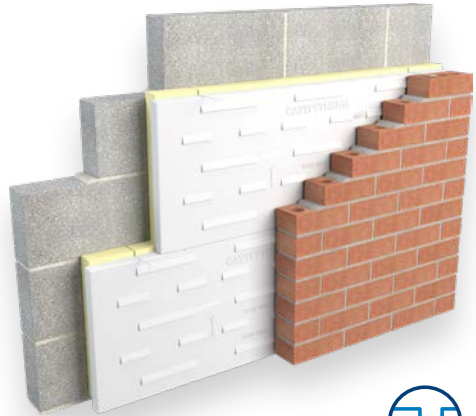
BUILT-IN FULL FILL
PIR WALL INSULATION

Full Fill Cavity Walls

Lambda value
0.021 W/mK

CT/PIR

CavityTherm is an innovative built-in insulation for traditional walls that achieves Passive level U-Values as low as 0.12 W/m²K with improved Thermal Bridging detailing in cavities up to 150mm wide.



Key Features

- Verified EPD available
- Engineered HIPs facer provides wind driven rain protection
- Moisture redirected to outer surface
- Prepositioned slots for sloping wall ties - no creep
- Fully engineered jointing - no reliance on taping*
- Full range of accessory pieces build continuous system
- Improved Thermal Bridging Values

*Where the boards are butt jointed tape is required

Specifications

Thermal Conductivity	0.021 W/mK
Facings	Composite Foil/Engineered Hips
Core	PIR Insulation
Board Size	1200mm x 450mm
Board Thickness	100, 110, 125, 150mm
Board Profile	Rebate Edge
Preformed Corner	Yes

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

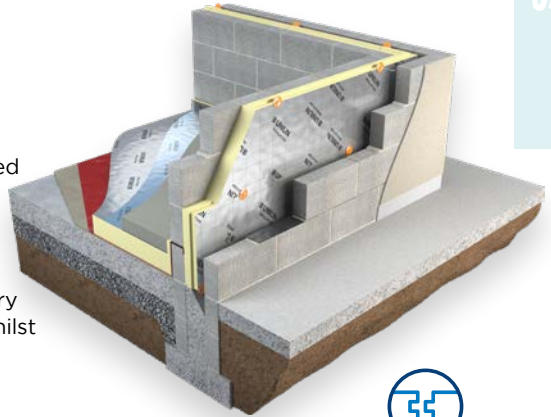
THIN-R PLUS^{PIR INSULATION}

Partial Fill Cavity Walls

XT/CWP (T&G)

Partial Fill Cavity Wall Plus (T&G) builds to a system thanks to its engineered tongue and grooved joints and pre-formed corners, ensuring insulation continuity and minimising of thermal bridging.

Cavity Wall Plus (T&G) is a suitable solution when building traditional masonry walls to the highest thermal standards whilst maintaining a residual cavity, offering protection from wind driven rain. The lower Lambda of 0.021 W/mK improves U-Values and meets Future Homes Standard, proving a suitable choice for passive and low energy builds.



Key Features

- Verified EPD available
- Lambda value of 0.021 W/mK
- Tongue & groove jointing
- Preformed corner panels & cavity closers: Reduced Thermal Bridging
- Suitable to be used in conjunction with cavity closers reducing Thermal Bridging
- Clear cavity maintained
- No exposure restrictions

Specifications

Thermal Conductivity	0.021 W/mK
Facings	Composite foil facings
Core	Enhanced PIR Insulation
Board Size	1200mm x 450mm
Board Thickness	50, 60, 70, 75, 80, 100mm
Board Profile	Tongue & Groove
Preformed Corner	Yes

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

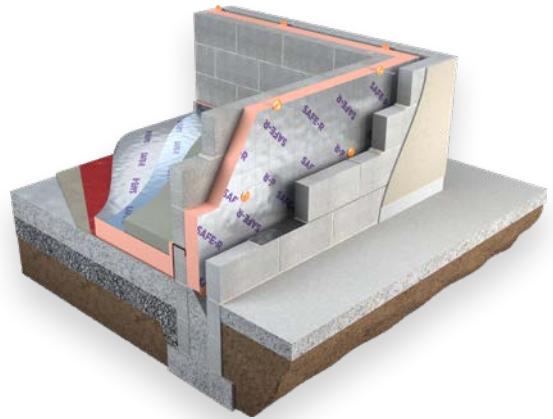
SAFE-R PHENOLIC
INSULATION

Partial Fill Cavity Walls

Lambda
value as low as
0.020 W/mK

SR/CW

Safe-R Partial Fill Cavity Wall Insulation for traditional masonry walls, achieves excellent U-Values whilst maintaining a residual cavity, offering protection from wind driven rain.



Key Features

- Verified EPD available
- Reaction to Fire (Euroclass) D-s1, d0
- Clear Cavity Maintained
- Protection from Wind Driven Rain
- Lower Lambda value for improved U-Values

Specifications

Thermal Conductivity	0.020 - 0.021 W/mK
Facings	Composite foil facings
Core	Phenolic Insulation
Board Size	1200mm x 450mm
Board Thickness	50, 60, 75, 80, 100mm
Board Profile	Square Edge

Other thicknesses may be available subject to minimum order quantity and extended lead times.
Please contact your Area Sales Manager for further details.
Thermal conductivity may vary with thickness.

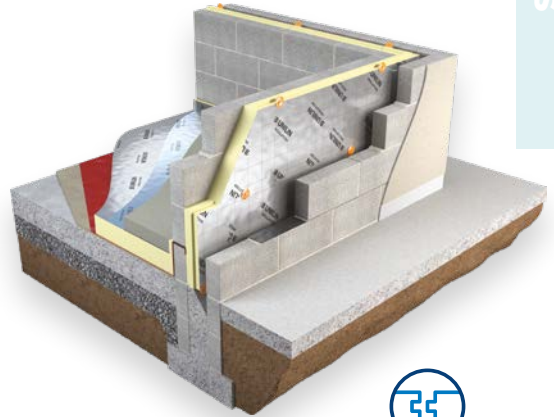
THIN-R^{PIR} INSULATION

Partial Fill Cavity Walls

XT/CW (T&G)

Thin-R Partial Fill Cavity Wall (T&G) builds to a system thanks to its engineered tongue and grooved joints and pre-formed corners, ensuring insulation continuity and minimisation of Thermal Bridging.

XT/CW is also available as a straight edge board.



Key Features

- Tongue & Groove Jointing
- Corner Panels & Cavity Closers: Reduced Thermal Bridging
- Verified EPD available
- Clear cavity maintained
- No exposure restrictions
- Composite foil facings

Specifications

Thermal Conductivity	0.022 W/mK
Facings	Composite foil facings
Core	PIR Insulation
Board Size	1200mm x 450mm
Board Thickness	60, 70, 75, 80, 90, 100, 110, 120, 125mm
Board Profile	Tongue & Groove

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

SAFE-R PHENOLIC
INSULATION

Drylining Walls Fixed with Adhesive Dabs

Lambda
value as low as
0.020 W/mK

SR/TB

Safe-R Thermal Board (Dot & Dab) is a composite insulated panel of phenolic insulation core with a glass tissue facing bonded to 12.5mm tapered edge plasterboard for internal applications, fixed with proprietary adhesive bonding.

The product should be installed with the joints sealed and taped in accordance with drylining best practice.



Key Features

- A verified EPD is available for the product insulation
- Reaction to Fire (Euroclass) B-s1, d0
- Responsive insulation system
- High levels of insulation and drylining in one fix
- Suitable for new build and renovation

Specifications

Thermal Conductivity	0.020 - 0.023 (W/mK) (Phenolic only)
Facings	Glass Tissue/Plasterboard
Core	Phenolic Insulation
Board Size	2400mm x 1200mm
Board Thickness	37.5, 50.5, 62.5, 72.5, 82.5mm (Thickness includes 12.5mm plasterboard)
Board Profile	Square Edge
Plasterboard	Tapered Edge

Other thicknesses may be available subject to minimum order quantity and extended lead times.
Please contact your Area Sales Manager for further details.
Thermal conductivity may vary with thickness.

SAFE-R PHENOLIC INSULATION

Drylining Walls – Mechanically Fixed

Lambda
value as low as
0.020 W/mK

SR/TB-MF

Safe-R Thermal Board (Mechanically Fixed) is a composite insulated panel of phenolic insulation core with a composite foil facing bonded to 12.5mm tapered edge plasterboard for internal walls, sloped roofs and ceilings. SR/TB-MF is only suitable for mechanically fixed applications.

The product should be installed with the joints sealed and taped in accordance with drylining best practice.



Key Features

- A verified EPD is available for the product insulation
- Reaction to Fire (Euroclass) B-s1, d0
- Insulation and drylining in one application
- Reduced insulation thickness
- Suitable for a variety of wall types
- Solution in refurbishment and new build

Specifications

Thermal Conductivity	0.020 - 0.023 (W/mK) (Phenolic only)
Facings	Composite Foil/Plasterboard
Core	Phenolic Insulation
Board Size	2400mm x 1200mm
Board Thickness	37.5, 52.5, 62.5, 72.5, 82.5mm (Thickness includes 12.5mm plasterboard)
Board Profile	Square Edge
Plasterboard	Tapered Edge

Other thicknesses may be available subject to minimum order quantity and extended lead times.
Please contact your Area Sales Manager for further details.
Thermal conductivity may vary with thickness.

THIN-R PIR INSULATION

Drylining Walls Fixed with Adhesive Dabs

XT/TL

Thin-R Thermal Liner (Dot & Dab) is a composite insulated panel of Unilin PIR insulation core with a composite kraft facing bonded to 12.5mm tapered edge plasterboard for internal applications, fixed with proprietary adhesive bonding.

**Key Features**

- A verified EPD is available for the product insulation
- Reaction to Fire (Euroclass) B-s1, d0
- Insulation & drylining in one application
- Provides vapour control layer
- Reduced insulation thickness
- Suitable for a variety of wall types
- Solution in refurbishment and new build

Specifications

Thermal Conductivity	0.022 W/mK
Facings	Composite Kraft/Plasterboard
Core	PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	37.5, 50.5, 62.5, 72.5, 82.5 and 92.5mm (Thickness includes 12.5mm plasterboard)
Board Profile	Square Edge
Plasterboard	Tapered Edge

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

THIN-R^{PIR INSULATION}

Drylining Walls – Mechanically Fixed

XT/TL-MF

Thin-R Thermal Liner (Mechanically Fixed) is a composite insulated panel of Unilin PIR insulation core with a composite foil facing bonded to 12.5mm tapered edge plasterboard for internal walls, sloped roofs and ceilings. This product is only suitable for mechanically fixed applications.



Key Features

- A verified EPD is available for the product insulation
- Reaction to Fire (Euroclass) B-s1, d0
- Insulation & drylining in one application
- Provides vapour control layer
- Reduced insulation thickness
- Suitable for a variety of wall types
- Solution in refurbishment and new build

Specifications

Thermal Conductivity	0.022 W/mK
Facings	Composite Foil/Plasterboard
Core	PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	37.5, 42.5, 52.5, 62.5, 72.5, 82.5, 92.5, 102.5, 112.5mm (Thickness includes 12.5mm plasterboard)
Board Profile	Square Edge
Plasterboard	Tapered Edge

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

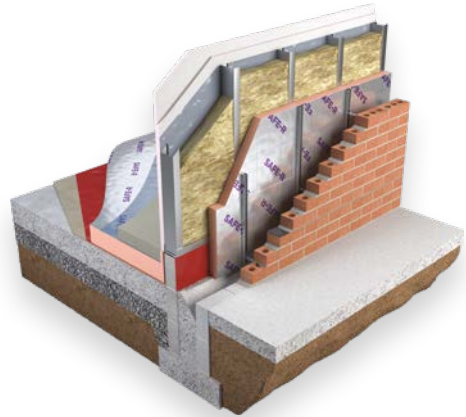
SAFE-R PHENOLIC
INSULATION

Steel & Timber Frame

Lambda
value as low as
0.020 W/mK

SR/FB

Safe-R Framing Board is designed for use with steel or timber frame applications up to 11m in height. With a Euroclass C Fire Classification the framing board can be used between studs or as an insulated sheathing board. Using Safe-R Framing Board provides improved U-Values and improved Thermal Bridging detailing.



The use of combustible insulation is restricted on high buildings and buildings of a certain use. Regulations will differ regionally. Seek the guidance of the project architect or engineer before proceeding.

Key Features

Verified EPD available

Reaction to Fire (Euroclass) C-s1, d0

Suitable for use in steel and timber frame systems up to 11m in height

Lower Lambda value for improved U-Values

Reduced Thermal Bridging

*Combustible materials have height restrictions. Please contact our Technical Team for more information.

Specifications

Thermal Conductivity	0.020 - 0.021 W/mK
Facings	Composite foil facings
Core	Phenolic Insulation
Board Size	2400mm x 1200mm
Board Thickness	50, 60, 75, 80, 100, 120, 140mm
Board Profile	Square Edge

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details. Thermal conductivity may vary with thickness.

XTROLINER

SUPERIOR PERFORMANCE
PIR INSULATION*

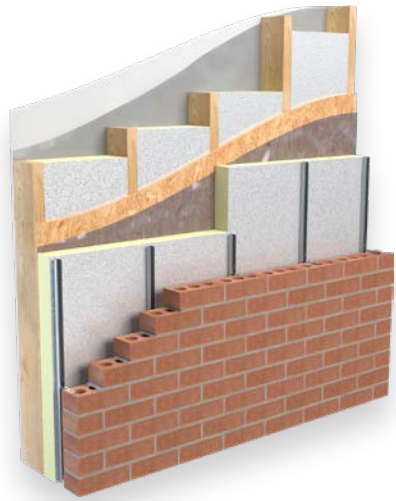
Steel & Timber Frame

Lambda
value as low as
0.021 W/mK

XO/FB

XtroLiner Framing Board is designed for use in a wide range of construction including steel or timber frame applications up to 11m in height. The framing board can be used between studs or as an insulated sheathing board. Using XtroLiner Framing Board in this application will reduce the Thermal Bridging of the steel or timber studs.

The use of combustible insulation is restricted on high buildings and buildings of a certain use. Regulations will differ regionally. Seek the guidance of the project architect or engineer before proceeding.



Key Features

- Verified EPD available
- Reaction to Fire (Euroclass) C-s2, d0
- Suitable for use in steel and timber frame system
- Lower Lambda value for improved U-Values
- Suitable for new build and renovation up to 11m in height
- Reduced Thermal Bridging
- Textured foil facings

*Combustible materials have height restrictions. Please contact our Technical Team for more information.

Specifications

Thermal Conductivity	0.021 W/mK
Facings	Textured foil facings
Core	Superior Performance PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	50, 60, 75, 80, 100, 120, 140mm
Board Profile	Square Edge

*The reference to superior performance relates to the product or ranges thermal conductivity or fire performance or a combination of both, when compared to our Thin-R range. Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

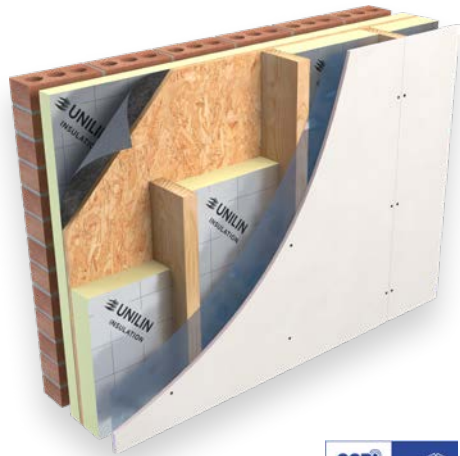
THIN-R PIR INSULATION

Timber Framed Walls

XT/TF

Timber Frame is a systematic method of construction.

Unilin's Timber Frame Systems bring timber framed wall insulation performance to new levels, surpassing the default values asked for in current building regulations. Using this product in timber framed walls helps achieve Future Homes Standard and Passive House Standards.

**Key Features**

- Verified EPD available
- Rapid build system
- Approved for use with fibre in stud
- Suitable for new build and renovation
- Reduced insulation thickness
- Composite foil facings

Specifications

Thermal Conductivity	0.022 W/mK
Facings	Composite foil facings
Core	PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	25, 30, 40, 50, 60, 70, 75, 80, 90, 100, 110, 125, 150mm
Board Profile	Square Edge

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

PITCHED ROOFS



Pitched Roofs

■ ECO/MA (Roofs) Pitched Roof	24
■ ECO/MA (Roofs) Sarking Warm Roof Construction	25
■ XO/PR Pitched Roof	26
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■ XT/RLOC Pitched Roof Board	30

ECO360 BIO-ENHANCED PIR INSULATION

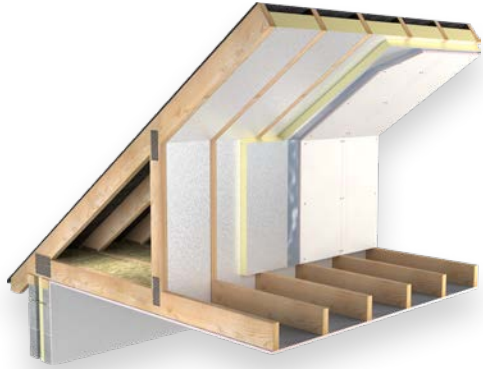
Pitched Roofs

Lambda value as low as **0.020 W/mK**

ECO/MA

Bio-enhanced, PIR insulation suitable for pitched roofs (ventilated, hybrid or warm). ECO360 MA for roofs offers improved insulation performance with a thermal conductivity as low as 0.020 W/mK.

Using pioneering environmentally conscious technology, ECO360 MA in roof applications will reduce heat loss while also delivering improved Thermal Bridging details.



Key Features

- Bio-enhanced PIR insulation
- Halogen free
- Enhanced performance as low as 0.020 W/mK
- Bio-degradable packaging - Reduced packaging materials
- High compressive strength

Specifications

Thermal Conductivity	As low as 0.020 W/mK
Facings	Textured foil facings
Core	Bio-enhanced PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	50, 100, 125, 150mm
Board Profile	Square Edge

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

ECO360 BIO-ENHANCED PIR INSULATION

Lambda value as low as **0.020 W/mK**

Sarking Warm Roof Construction

ECO/MA

Bio-enhanced, PIR insulation suitable for sarking. ECO360 MA for sarking offers excellent insulation performance with a thermal conductivity of 0.020 W/mK.

This bio-enhanced insulation will significantly improve the U-Value of new and existing roofs. It combines high compressive strength with low thermal conductivity, providing an effective solution for roofs insulation.



ROOFS

Key Features

- Bio-enhanced PIR insulation
- Halogen free
- Enhanced performance as low as 0.020 W/mK
- Bio-degradable packaging - Reduced packaging materials
- High compressive strength
- Suitable for pitched roofs

Specifications

Thermal Conductivity	0.020 W/mK
Facings	Textured foil facings
Core	Bio-enhanced PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	100, 125, 150mm
Board Profile	Square Edge

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

XTROLINER SUPERIOR PERFORMANCE PIR INSULATION*

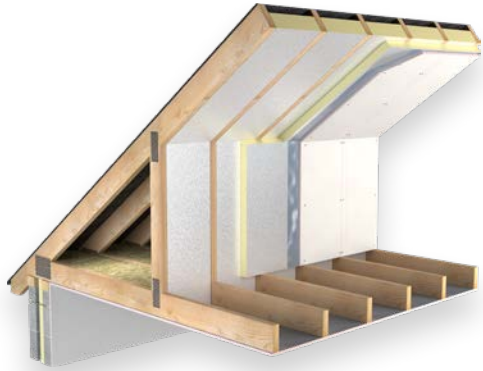
Pitched Roofs

Lambda value as low as **0.021 W/mK**

XO/PR

XtroLiner Pitched Roof on sloped roofs (ventilated, hybrid or warm) provides the most efficient U-Values with minimal intrusion into valuable living space.

The roof construction is a critical element in the building fabric and is an area at high risk of heat loss. Using XtroLiner Pitched Roof will reduce heat loss while also delivering improved Thermal Bridging details.



Key Features

- Verified EPD available
- Reaction to Fire (Euroclass) C-s2, d0
- Reduces intrusion into living area
- Reduced risk of condensation
- Textured foil facings
- Reduced Thermal Bridging

Specifications

Thermal Conductivity	0.021 W/mK
Facings	Textured foil facings
Core	Superior Performance PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	25, 40, 50, 60, 70, 75, 80, 100, 120mm
Board Profile	Square Edge

*The reference to superior performance relates to the product or ranges thermal conductivity or fire performance or a combination of both, when compared to our Thin-R range. Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

XTROLINER

SUPERIOR PERFORMANCE
PIR INSULATION*

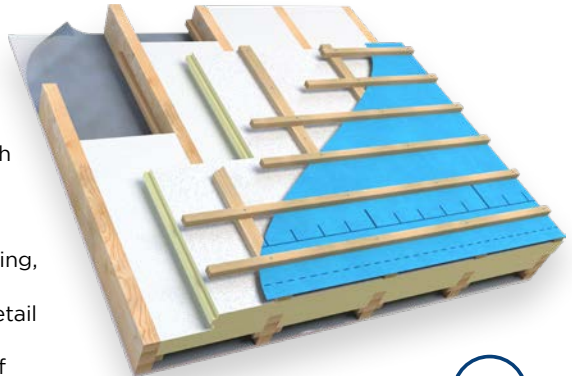
Lambda
value as low as
0.021 W/mK

Sarking Warm Roof Construction

XO/SK (T&G)

XtroLiner Sarking (T&G) is an engineered tongue and grooved external roof insulation system with textured facings which meets the passive U-Value of 0.15 W/m²K.

Using this product improves detailing, speeds up the installation process and provides a uniform plane to detail more effectively. Creating a warm roof reduces the normal amount of junctions prone to Thermal Bridging greatly improving the thermal performance of the roof.



TONGUE
& GROOVE
JOINTING

ROOFS

Key Features

- Verified EPD available
- Reaction to Fire (Euroclass) C-s2, d0
- Robust tongue & groove jointing
- Reduced risk of condensation
- Avoids intrusion into living area
- Excellent U-Value in roofs
- Reduced Thermal Bridging

Specifications

Thermal Conductivity	0.021 W/mK
Facings	Textured foil facings
Core	Superior Performance PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	50, 75, 100, 125mm
Board Profile	Tongue & Groove

*The reference to superior performance relates to the product or ranges thermal conductivity or fire performance or a combination of both, when compared to our Thin-R range. Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

THIN-R PIR INSULATION

Pitched Roofs

XT/PR_UF (ROOFS)

Thin-R Pitched Roof on sloped roofs (ventilated, hybrid or warm) provides the most efficient U-Values with minimal intrusion into valuable living space.

The roof construction is a critical element in the building fabric and is an area at high risk of heat loss. Using this product will reduce heat loss while also delivering improved Thermal Bridging details.



Key Features

- Verified EPD available
- Avoids intrusion into living area
- Reduced risk of condensation
- Composite foil facings
- Reduced Thermal Bridging

Specifications

Thermal Conductivity	0.022 W/mK
Compressive Strength	CS (10\Y) 140
Facings	Composite foil facings
Core	PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	25, 30, 40, 50, 60, 70, 75, 80, 90, 100, 125, 150mm
Board Profile	Square Edge

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

SAFE-R PHENOLIC INSULATION

Insulation for Pitched Roofs

Lambda value as low as **0.020 W/mK**

SR/PR

Safe-R Pitched Roof on sloped roofs (ventilated, hybrid or warm) provides the most efficient U-Values with minimal intrusion into valuable living space.

The roof construction is a critical element in the building fabric and is an area at high risk of heat loss. Using SR/PR will reduce heat loss while also delivering improved thermal bridging details.



ROOFS

Key Features

- Verified EPD available
- Reaction to Fire (Euroclass) C-s1, d0
- Avoids intrusion into living Area
- Reduced risk of condensation
- Reduced Thermal Bridging

Specifications

Thermal Conductivity	0.020 - 0.021 W/mK
Facings	Composite foil facings
Core	Phenolic Insulation
Board Size	2400mm x 1200mm
Board Thickness	50, 60, 75, 80, 100mm
Board Profile	Square Edge

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details. Thermal conductivity may vary with thickness.

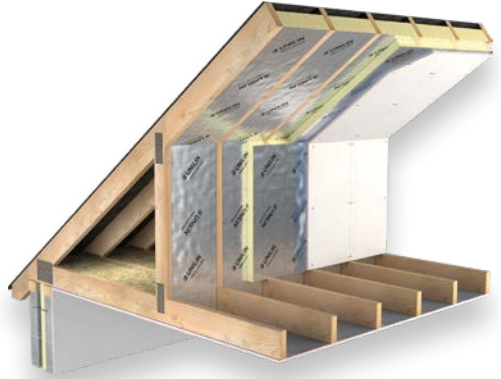
RAFTERLOC

Pitched Roof Board

XT/RLOC

Unilin Rafterloc Pitched Roof Insulation has a unique width variation feature offering a 20-30mm adjustment margin to ensure a tight fitting, locked between rafters.

Used in conjunction with a layer of Unilin XT/TL or XT/PR_UF below the rafters, the Rafterloc system provides a cost effective solution to insulating sloped rafters to the most efficient standards with minimal wastage and reduced fitting time.



Key Features

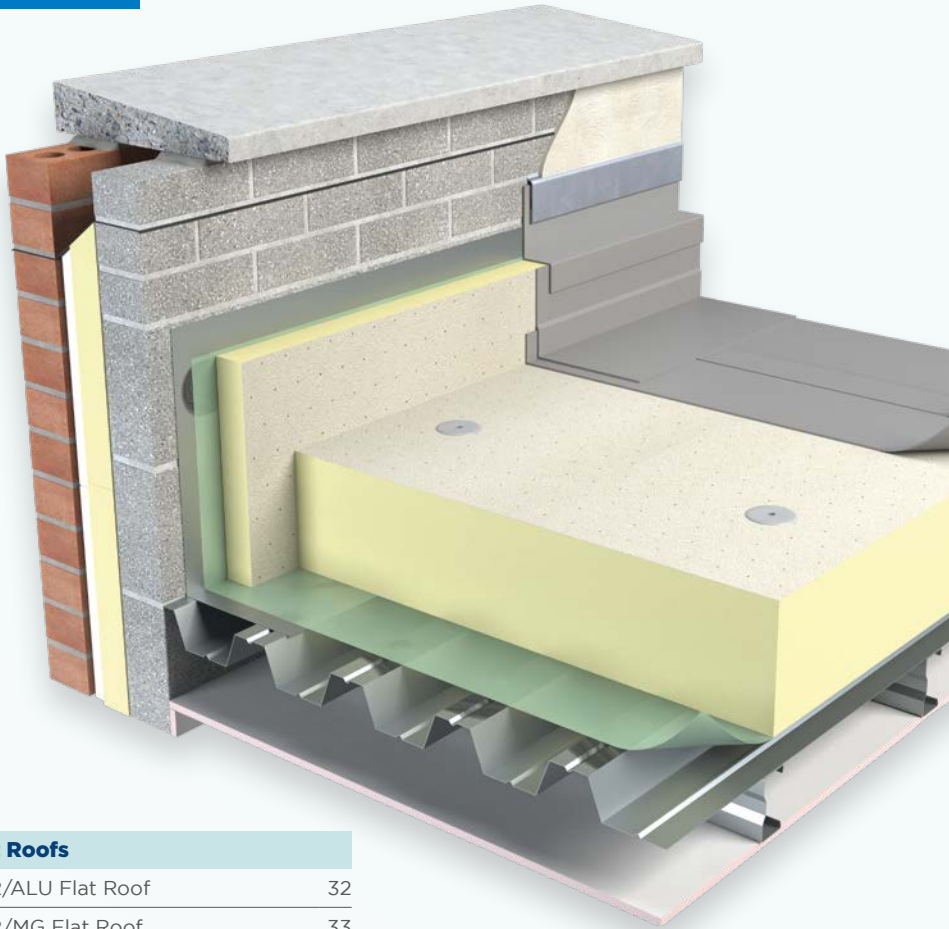
- Variable width feature
- Minimal intrusion into living area
- Composite foil facings
- Extra thermal performance

Specifications

Thermal Conductivity	0.023 W/mK
Compressive Strength	CS (10\Y) 120
Facings	Composite foil facings
Core	PIR Insulation
Board Size	1200mm x 370mm
Board Thickness	100, 125, 150mm
Board Profile	Straight Edge

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

FLAT ROOFS



Flat Roofs

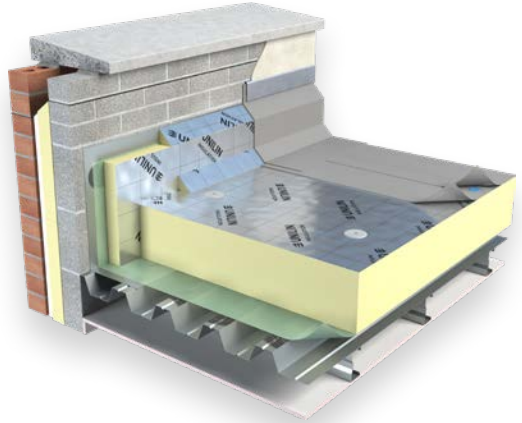
■ FR/ALU Flat Roof	32
■ FR/MG Flat Roof	33
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■ FR/TP Thermal Ply	35
■ XO/XD Flat Roof	36

THIN-R PIR INSULATION

Mechanically Fixed Single Ply Waterproofing Systems

FR/ALU

Flat Roof ALU is a Polyisocyanurate flat roof insulation with vapour tight aluminium foil facings suitable for use with single ply membranes. Flat Roof ALU is part of the comprehensive range of Unilin's flat roof boards providing total solutions for flat roof projects.



Key Features

- Verified EPD available
- Compatible with mechanically fixed single ply systems.
- Loose laid ballasted systems
- Vapour resistant foil facers

Specifications

Thermal Conductivity	0.022 W/mK
Compressive Strength	CS (10Y) 150
Facings	Vapour resistant foil facers
Core	PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	25, 30, 40, 50, 60, 70, 75, 80, 90, 100, 110, 120, 125, 130, 140, 150mm
Board Profile	Square Edge

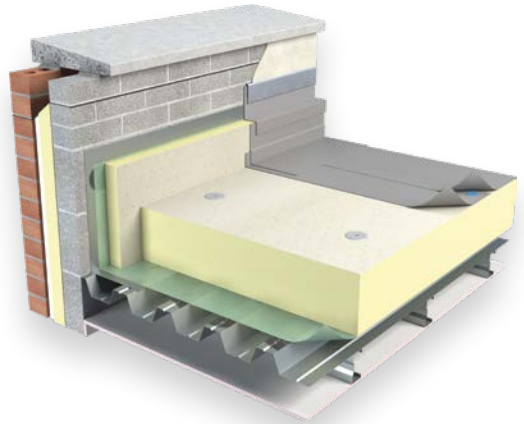
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

THIN-R PIR INSULATION

Single Ply Fully Adhered/ Partially Bonded Built-Up Felt Systems

FR/MG

Flat Roof MG is a Polyisocyanurate flat roof insulation with mineral coated glass facers suitable for use below single ply fully adhered or partially bonded built-up felt systems.



ROOFS

Key Features

Verified EPD available

Compatible with adhesively bonded single ply roofing membranes laid on mechanically fixed or adhered boards

Specifications

Thermal Conductivity	0.024 - 0.027 W/mK
Compressive Strength	CS (10\Y) 150
Facings	Mineral Glass
Core	PIR Insulation
Board Size	1200mm x 1200mm
Board Thickness	25, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150mm
Board Profile	Square Edge

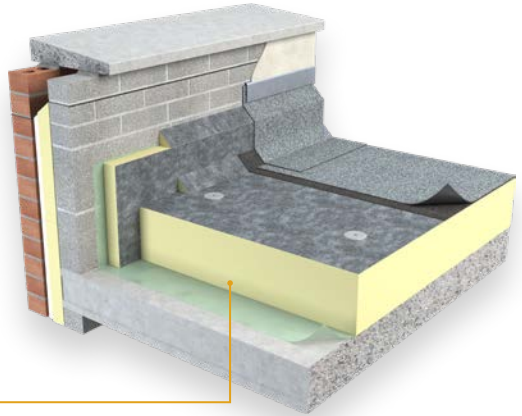
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

THIN-R PIR INSULATION

Partially Bonded, Torched-on, Built-up Bituminous Felt Systems

FR/BGM

Flat Roof BGM is faced with a polypropylene fleece finished bitumen/glass working surface and a mineral glass facing to the under side. Flat Roof BGM is part of Unilin's comprehensive range of flat roof boards providing total solutions for flat roof projects.



Mineral glass facing to the under side of BGM board.



Key Features

Verified EPD available

Compatible with most bituminous based roofing systems

Fleece finished bitumen/glass fibre facings

Specifications

Thermal Conductivity	0.024 - 0.027 W/mK
Compressive Strength	CS (10Y) 150
Facings	Bitumen Glass/Mineral Glass
Core	PIR Insulation
Board Size	1200mm x 1200mm
Board Thickness	25, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150mm
Board Profile	Square Edge

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

THIN-R PIR INSULATION

Thermal Ply High Performance PIR & Plywood Composite for Flat Roofs

FR/TP

Unilin Thermal Ply is a composite insulated panel of Unilin Polyisocyanurate core with a composite foil facer, bonded to 6mm WBP grade plywood. Thermal Ply is designed to provide high levels of thermal insulation and decking in one operation for new and refurbishment flat roof applications.



Key Features

- A verified EPD is available for the product insulation
- Insulation & decking in one fix
- For new & refurbishment roofs
- Rapid weather proofing

Specifications

Thermal Conductivity	0.022 W/mK
Compressive Strength	CS (10Y) 150
Facings	Composite foil facing/6mm WBP Grade Plywood
Core	PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	56, 76, 86, 96, 106, 116mm
Board Profile	Square Edge

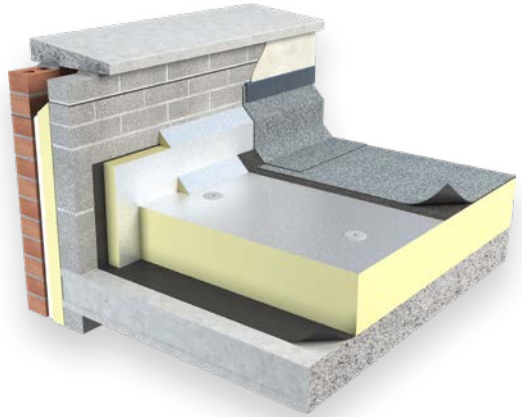
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

XTROLINER SUPERIOR PERFORMANCE
PIR INSULATION*

Partially Bonded, Self Adhered,
Built-up Bituminous Felt Systems

XO/XD

XtroDeck is faced with an embossed aluminium facing on both sides. XtroDeck is part of Unilin's comprehensive range of flat roof boards providing total solutions for flat roof projects.



Key Features

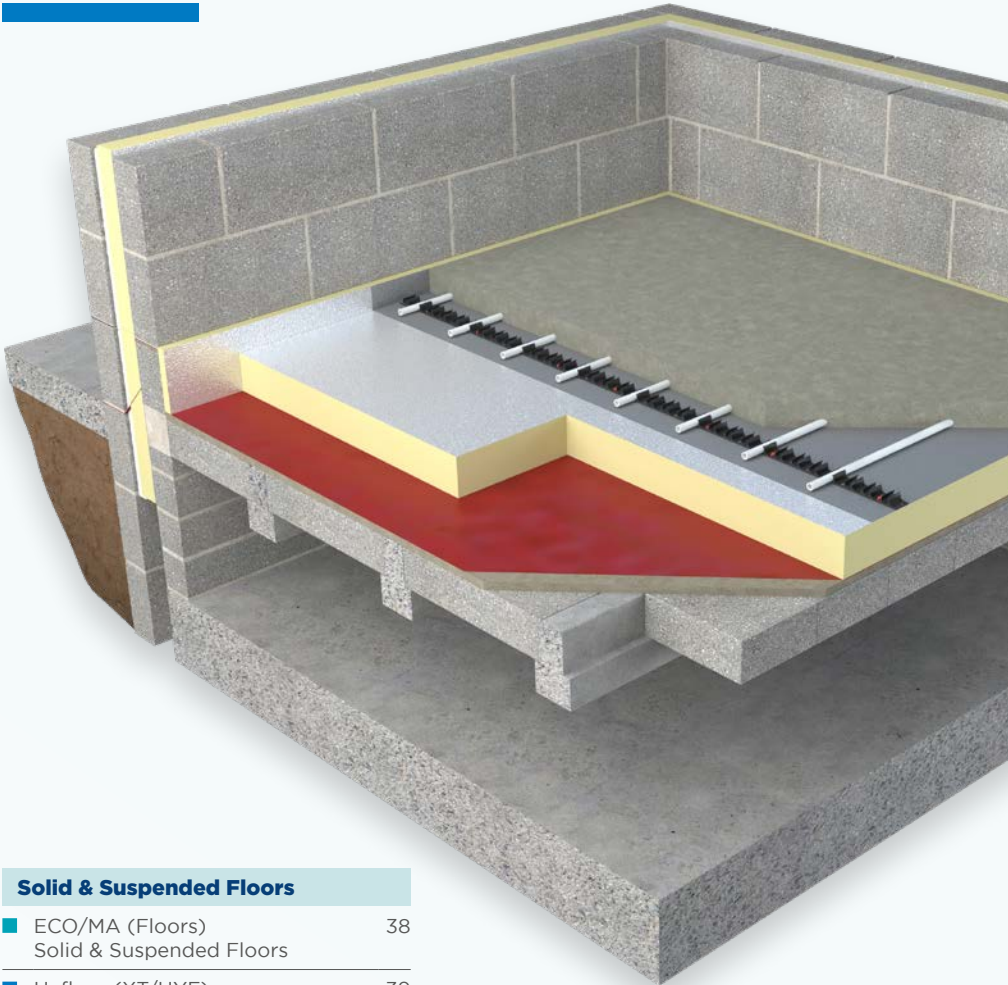
- Verified EPD available
- Reaction to Fire (Euroclass) C-s2, d0
- Superior Performance PIR Insulation
- Compatible with most bituminous based roofing systems containing self adhered underlays with heat activated cap sheets

Specifications

Thermal Conductivity	0.021 W/mK
Compressive Strength	CS (10Y) 150
Facings	Textured foil facings
Core	PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	25, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150mm
Board Profile	Square Edge

*The reference to superior performance relates to the product or ranges thermal conductivity or fire performance or a combination of both, when compared to our Thin-R range. Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

FLOORS



Solid & Suspended Floors

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ECO360 BIO-ENHANCED PIR INSULATION

Solid & Suspended Floors

Lambda value as low as **0.020 W/mK**

ECO/MA

Bio-enhanced, superior performance PIR insulation suitable for solid and suspended floors. ECO360 MA for floors offers excellent insulation performance with a thermal conductivity of 0.020 W/mK.



This bio-enhanced insulation will significantly improve the U-Value of new and existing floors. It is lightweight, easy to install and combines high compressive strength with low thermal conductivity, providing a high performance solution for floor insulation.

Key Features

- Bio-enhanced PIR insulation
- Halogen free
- Enhanced performance as low as 0.020 W/mK
- Bio-degradable packaging
- High compressive strength
- Suitable for underfloor heating

Specifications

Thermal Conductivity	0.020 W/mK
Compressive Strength	CS (10\Y) 150
Facings	Textured foil facings
Core	Bio-enhanced PIR Insulation
Board Size Compressive strength added	2400mm x 1200mm
Board Thickness	100, 125, 150mm
Board Profile	Square Edge

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

THIN-R PLUS ENHANCED PIR INSULATION

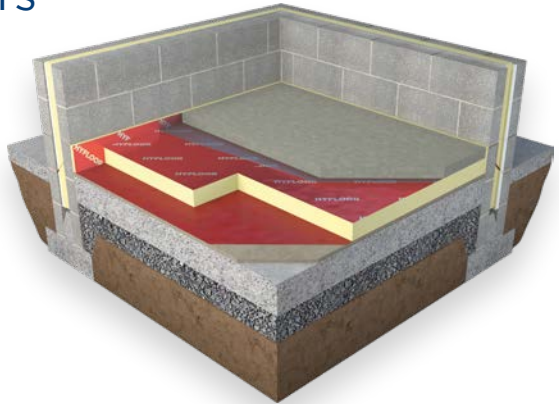
Lambda value
0.021 W/mK

Ground Supported & Suspended Floors

HYFLOOR (XT/HYF)

The floor in any building is an area of considerable downward heat loss when not properly insulated. Unilin has developed Hyfloor insulation as the answer to achieve lower U-Values - in a practical manner.

Hyfloor has a superior thickness to performance ratio, allowing the lower targets required under Building Regulations to be achieved with minimum thickness.



Key Features

- Verified EPD available
- 0.021 W/mK Lambda value
- High compressive strength
- Suitable for underfloor heating
- Perimeter strips for improved detailing
- Reduced insulation thickness

Specifications

Thermal Conductivity	0.021 W/mK
Compressive Strength	CS (10\Y) 140
Facings	Composite foil facing
Core	Enhanced PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	75, 100, 125, 150mm
Board Profile	Square Edge

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

XTROLINER SUPERIOR PERFORMANCE PIR INSULATION*

Solid & Suspended Floors

Lambda value as low as **0.021 W/mK**

XO/UF

XtroLiner Underfloor superior performance PIR offers excellent insulation performance with a thermal conductivity of 0.021 W/mK. The floor in any building is an area of considerable downward heat loss when not properly insulated.

XtroLiner Underfloor will significantly improve the U-Value of new and existing floors. It is lightweight, easy to install and combines high compressive strength with low thermal conductivity, providing a high performance solution for floor insulation.



Key Features

- Verified EPD available
- Reaction to Fire (Euroclass) C-s2, d0
- High compressive strength
- Suitable for underfloor heating
- Perimeter strips for robust detailing
- Reduced insulation thickness
- Textured foil facings

Specifications

Thermal Conductivity	0.021 W/mK
Compressive Strength	CS (10Y) 150
Facings	Textured foil facings
Core	Superior Performance PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	50, 60, 75, 80, 100, 120, 150mm
Board Profile	Square Edge

*The reference to superior performance relates to the product or ranges thermal conductivity or fire performance or a combination of both, when compared to our Thin-R range. Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

THIN-R PIR INSULATION

Ground Supported & Suspended Floors

XT/PR_UF (FLOORS)

The floor in any building is an area of considerable downward heat loss when not properly insulated. Thin-R Underfloor will significantly improve the U-Value of new and existing floors.

Thin-R Underfloor combines high compressive strength with low thermal conductivity, providing a solution for floor insulation.



Key Features

- Verified EPD available
- High compressive strength
- Suitable for underfloor heating
- Perimeter strips for robust detailing
- Reduced insulation thickness
- Composite foil facings

Specifications

Thermal Conductivity	0.022 W/mK
Compressive Strength	CS (10Y) 140
Facings	Composite foil facings
Core	PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	25, 30, 40, 50, 60, 70, 90, 100, 110, 125, 140, 150mm
Board Profile	Square Edge

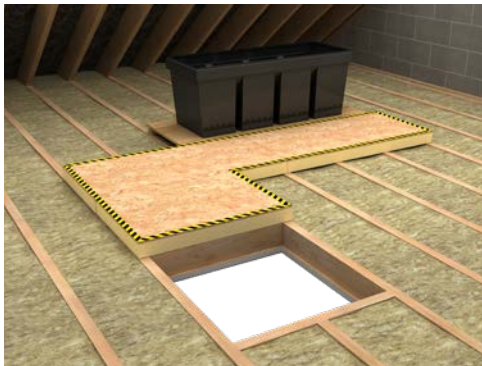
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

THIN-R PIR INSULATION

Insulated Loft Decking

XT/WALK-R

Thin-R Loft Decking Walk-R is a composite of high performance PIR insulation with tough OSB board that provides safe access into insulated roof spaces. Walk-R maintains very high insulation values and complies with health and safety guidelines.

**Key Features**

A verified EPD is available for the product insulation

Safe access to attic space

High thermal performance

Complies with health and safety guidelines

Easy to install

Lightweight

Specifications

Thermal Conductivity	0.022 W/mK
Compressive Strength	CS (10\Y) 150
Facings	Foil facings/OSB Board
Core	PIR Insulation
Board Size	1200mm x 600mm
Board Thickness	86mm (75mm PIR + 11mm OSB Board)
Board Profile	Square Edge

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

SAFE-R PHENOLIC INSULATION

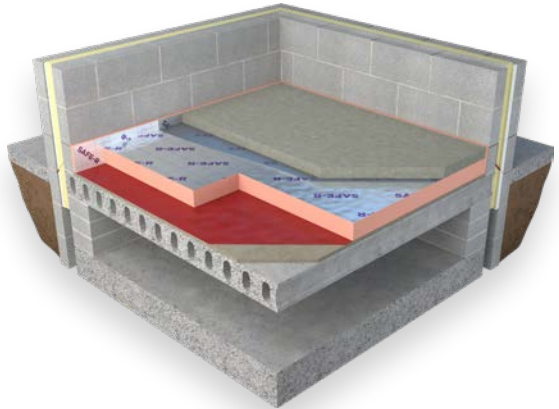
Solid & Suspended Floors

Lambda
value as low as
0.020 W/mK

SR/UF

Safe-R Underfloor is a superior performance rigid phenolic insulation with composite facings both sides and has a thermal conductivity as low as 0.020 W/mK, delivering excellent U-Values in floors.

The floor in any building is an area of considerable downward heat loss when not properly insulated. Safe-R Underfloor will significantly improve the U-Value of new and existing floors.



Key Features

- Verified EPD available
- Reaction to Fire (Euroclass) D-s1, d0
- Suitable for underfloor heating
- Perimeter strips for robust detailing
- Reduced insulation thickness
- Lower Lambda values for improved U-Values

Specifications

Thermal Conductivity	0.020 - 0.021 W/mK
Compressive Strength	CS (10\Y) 100
Facings	Composite foil facings
Core	Phenolic Insulation
Board Size	2400mm x 1200mm
Board Thickness	50, 60, 75, 80, 100, 120mm
Board Profile	Square Edge

Other thicknesses may be available subject to minimum order quantity and extended lead times.
Please contact your Area Sales Manager for further details.
Thermal conductivity may vary with thickness.

SOFFITS



■ SR/ST Soffit	45
■ SR/STP Soffit	46
■ XO/STP Soffit	47

SAFE-R PHENOLIC INSULATION

Soffit Application

Lambda value as low as **0.020 W/mK**

SR/ST

Safe-R Soffit provides effective thermal and fire performance solutions in structural ceiling applications in commercial and residential buildings. This high performance phenolic insulation board is faced with composite foil facings.

Safe-R Soffit Board is supplied as a performance, rather than a decorative product. Refer to Safe-R Soffit Plus, a high performance laminate that offers low maintenance and security protection with a surface that will accept a decorative finish.



Key Features

- Verified EPD available
- Reaction to Fire (Euroclass) C-s1, d0
- Foil faced finish
- Reduced Thermal Bridging
- Lower Lambda value for improved U-Values

Specifications

Thermal Conductivity	0.020 - 0.021 W/mK
Facings	Composite foil facings
Core	Phenolic Insulation
Board Size	2400mm x 1200mm
Board Thickness	50, 60, 75, 80, 100, 120mm
Board Profile	Square Edge

Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details. Thermal conductivity may vary with thickness.

SAFE-R PHENOLIC INSULATION

Soffit Application

Lambda value as low as **0.020 W/mK**

SR/STP

Safe-R Soffit Plus provides effective thermal and fire performance solutions in structural ceiling applications in commercial and residential buildings.

The high performance phenolic insulation board, with composite foil facings, is adhesively bonded to a 6mm building panel which offers a secure finish for ease of maintenance to which a decorative finish may be applied.



Key Features

- A verified EPD is available for the product insulation
- Reaction to Fire (Euroclass) B-s1, d0
- Impact resistant 6mm building panel
- Accepts decorative finish
- Reduced Thermal Bridging
- Lower Lambda value for improved U-Values

Specifications

Thermal Conductivity	0.020 - 0.021 W/mK
Facings	Composite foil/6mm building panel
Core	Phenolic Insulation
Board Size	2400mm x 1200mm
Board Thickness*	56, 66, 81, 86, 106, 126mm
Board Profile	Square Edge

*6mm building panel included in thickness.
 Other thicknesses may be available subject to minimum order quantity and extended lead times.
 Please contact your Area Sales Manager for further details.
 Thermal conductivity may vary with thickness.

XTROLINER SUPERIOR PERFORMANCE PIR INSULATION*

Soffit Application

Lambda value as low as **0.021 W/mK**

XO/STP

XtroLiner Soffit Plus provides effective thermal and fire performance solutions in structural ceiling applications in commercial and residential buildings.

The high performance modified PIR insulation board, with low emissivity textured aluminium foil facings, is adhesively bonded to a 6mm building panel which offers a secure finish for ease of maintenance to which a decorative finish may be applied.



Key Features

- A verified EPD is available for the product insulation
- Reaction to Fire (Euroclass) B-s1,d0
- High impact resistant 6mm building panel
- Accepts a decorative finish
- Reduced Thermal Bridging
- Lower Lambda value for improved U-Values

Specifications

Thermal Conductivity	0.021 W/mK
Facings	Textured foil facings/6mm building panel
Core	Superior Performance PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness†	56, 66, 81, 86, 106, 126mm
Board Profile	Square Edge

*The reference to superior performance relates to the product or ranges thermal conductivity or fire performance or a combination of both, when compared to our Thin-R range.
 †6mm building panel included in thickness.
 Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

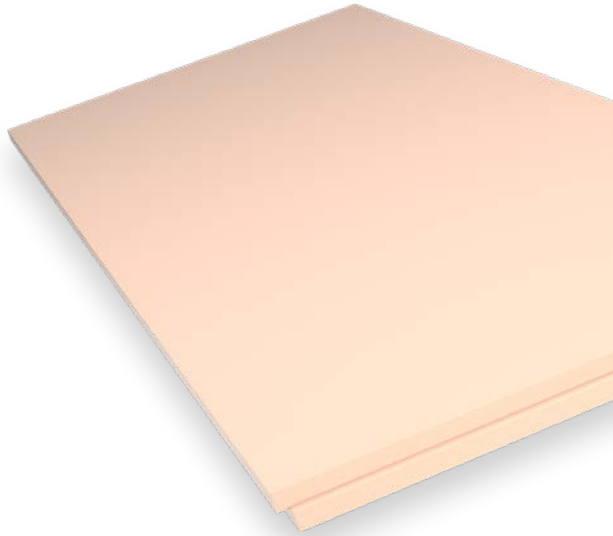
XPS

EXTRUDED POLYSTYRENE
INSULATION

XPS

XPS is a high performance rigid extruded polystyrene insulation board providing a durable thermal solution to technically demanding applications where high compressive loading is a requirement.

This product is ideally suited for use in commercial, industrial and cold storage areas where vehicular traffic and loading is an issue.



Key Features

Ideally suited for use in highly loaded and trafficked floors, basement walls and inverted roofs

Available as XPS 300 (300 kPa), XPS 500 (500 kPa) and XPS 700 (700 kPa)

Specifications

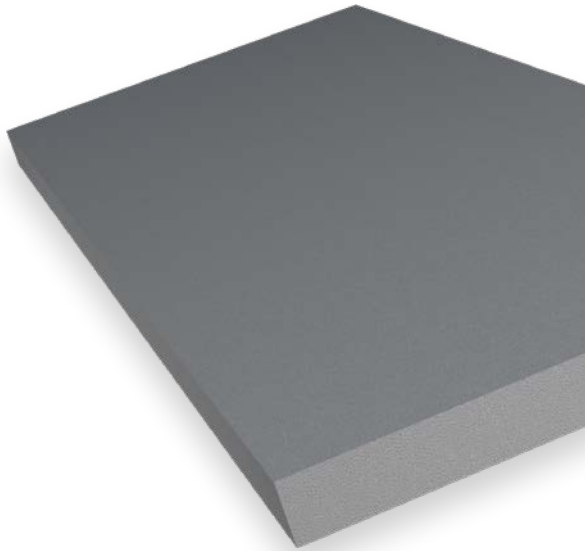
Thermal Conductivity	0.033 - 0.035 (W/mK)*
Board Size	1250 x 600mm
Board Thickness	30, 40, 50, 60, 80, 100, 120mm
Board Profile	Rebated Edge

*Thermal conductivity is dependent on product thickness.
XPS 300 available in 140mm and 160mm subject to quantity and lead time.

EPS EXPANDED POLYSTYRENE INSULATION

EPS

The Unilin Hytherm & Warm-R Insulation boards consist of rigid polystyrene boards cut from moulded blocks of white EPS Hytherm or with grey graphite enhanced EPS Warm-R.



Key Features

Verified EPD available

Extensive range of thicknesses

Available in 70 kPa or 100 kPa

Verified EPDs available

Thermal Conductivity	0.031 W/mK	Warm-R SD E Grey Warm-R Premium HD E Grey Warm-R SD E Grey EWB
	0.035 W/mK	Hytherm HD White & Hytherm HD E White
	0.038 W/mK	Hytherm SD White
Core	Expanded Polystyrene	
Board Size	2400mm x 1200mm 1800mm x 1200mm	
Board Thickness	Various	
Board Profile	Straight Edge	

*Thermal conductivity is dependent on product thickness.

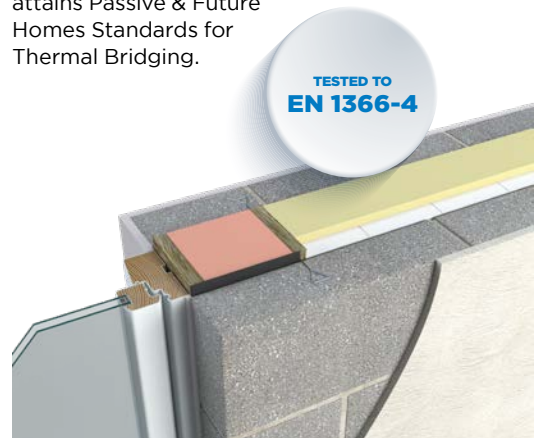
SAFE-R CAVITY CLOSERS

SAFE-R CLOSE-R

A high performance EN fire-rated cavity closer providing compliance with structural and thermal regulations. Structural failures in cavity walls are largely due to the incorrect placement of wall ties within the cavity. Openings at windows and doors require additional wall ties to be placed at a maximum 225mm into the cavity at every course of block. It is also a requirement under Approved Document A (England and Wales) that additional wall ties must be placed at gable end openings and either side of expansion joints.

These extra structural ties interrupt the continuity of the insulation layer and increase Thermal Bridging issues at very vulnerable areas, with mould growth most evident at reveals. Safe-R Close-R achieves an excellent

fire rating and allows for the correct placement of wall ties to meet Approved Document A (England and Wales) structural requirements. The superior insulation performance attains Passive & Future Homes Standards for Thermal Bridging.



Key Features

- A verified EPD is available for the product insulation
- Achieved in excess of 4 hour fire rating in a 150mm cavity when tested to EN1366-4
- Provides template for wall ties placement
- Ensures continuity of insulation
- Suitable for door, window, eaves and openings
- Suitable for use at expansion joints

Specifications

Facings	Plastic encapsulated stonewool
Core	Phenolic Insulation
Board Size	1200mm x 200mm
Suitable for Cavity Widths	100, 125, 150mm*
Board Profile	Square Edge

*Please contact our technical team for further information.
Other thicknesses may be available subject to minimum order quantity and extended lead times.

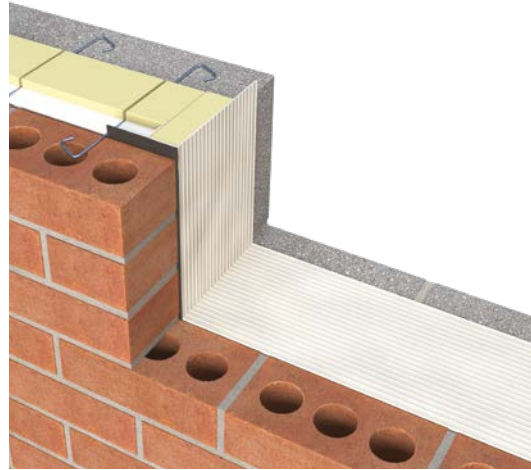
CLOSE-R

INSULATED
CAVITY CLOSER

CLOSE-R

Unilin Close-R fully insulated cavity closers are a cost effective solution for closing cavities around window and door openings, preventing cold bridging, damp penetration, air infiltration and condensation.

The Close-R range is used to close cavities and is suited to all types of windows and doors and is available in sizes to fit cavity widths from 100mm - 150mm, with checked detail to suit brick or drylined specifications and flanged detail to suit block outer facings. (Flanged detailing requires precise construction tolerances.)



Key Features

- Saves time and cost effective
- Suits 100 - 150mm cavities
- Available from Builders Merchants
- Reduces thermal bridging around openings

Specifications

For further assistance please contact the Unilin Technical team

Sustainability Pledge

Our environmental impact is the predominant consideration in all operational and commercial decisions for the benefit of our business, staff, shareholders, customers, communities and families.

ONEHOME

Part of Unilin Europe's wider ONEHOME strategy



Four Focus Areas



Product

Improving product sustainability, as evidenced by our published Environmental Product Declarations (EPDs). Working with our industry partners, we aim to drive a more environmentally aware industry.



People

Our greatest asset. Unilin's success is driven by a dedicated team. It is their vision that will deliver a more sustainable Unilin operation.



Place

Promoting the adoption of more sustainable practices in the places and communities in which we work and live.



Partnership

Working with our partners throughout the business to make more environmentally sensitive choices.



Designing to Zero

We are committed to developing and promoting sustainable low energy design in construction.

Meeting Passive or Future Homes Standard requires us all to think and deliver differently. We continually improve and adapt to the challenge, gaining in-depth knowledge and sharing those technical aspects with industry.

The Climate Emergency necessitates an accelerated drive for reducing our own impact and the impact of the projects we work on in terms of operational energy and embodied carbon. Unilin Insulation welcomes the growing industry momentum for performances beyond Building Regulations such as the Climate Challenge 2030 and by groups such as Low Energy Transformation Initiative (LETI).

ECO360

The ECO360 Range sees pioneering environmental improvements in the manufacturing, delivery and use of PIR insulation.

- ✓ Bio-enhanced formulation
- ✓ Part of a design solution to achieve Climate Challenge 2030 & LETI Targets
- ✓ Reduced packaging materials
- ✓ Halogen free formulation
- ✓ Improved thermal performance of 0.020 W/mK
- ✓ Bio-degradable packaging materials



A 3D cutaway diagram of a wall assembly. From left to right, it shows a grey textured exterior surface, a yellow insulation layer, a grey textured interior surface, another yellow insulation layer, and a white interior wall with a grid of rectangular recessed panels. A teal line connects the 'Bio Inside' label to the second yellow insulation layer.

0.020
W/mK

Bio
Inside

Support for Builders

where and when
you need it.

We continue to offer personal support through one-to-one consultations to ensure we are always available to assist builders, specifiers and stockists.

We also offer CPD Training and online instruction to achieve best practice on your projects.

**If we can assist in any way,
please contact Unilin Insulation
Technical Support.**

Sales: 0371 222 1033

Technical: 0371 222 1055

unilininsulation.co.uk



Handling, Cutting & Storage

Unilin insulation should be stored off the ground, on a clean, flat surface and must be stored under cover. The polythene wrapping is not considered adequate protection for outside exposure. Care should be taken to protect the insulation in storage and during the build process.

The insulation boards can be readily cut using a sharp knife or fine toothed saw. Ensure tight fitting of the insulation boards to achieve continuity of insulation as asked for within the ACDs. Appropriate PPE should be worn when handling insulation. Please refer to Health & Safety data sheets on our website.

The boards are wrapped in polythene packs and each pack is labelled with details of grade/type, size and number of pieces per pack.

Durability

Unilin Insulation products are stable, rot proof, provide no food value to vermin and will remain effective for the lifetime of the building, depending on specification and installation. Care should be taken to avoid contact with acids, petrol, alkalis and mineral oil. When contact is made, clean materials in a safe manner before installation.



Remote Support & Immediate Callback

We provide an immediate callback facility available when you need it. Our expanded Technical Help Desk provides unrivalled immediate support.

Every one of our technical team is trained to the highest industry standards of competency in U-Value calculation and condensation risk analysis with members assessed and certified under the BBA/TIMSA competency scheme.

We are the first company in Ireland to be assessed and certified under the NSAI thermal modelling competency scheme.

Our team and products are certified in Ireland and the UK through the following certifications bodies:

1. **BRE** Thermal bridging modelling competency certification
2. **NSAI** Thermal modelling competency scheme
3. **TIMSA-BBA** competency scheme for U-Value calculation and condensation risk analysis
4. **BBA and NSAI** certification of the Unilin Insulation insulation boards
5. **SAP and DEAP** energy assessment



Internal Technical Team



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Product Management & Development Engineer



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Our Dedicated UK Sales Team

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