PRODUCT HANDBOOK

Insulation for:

Walls

Floors

Roofs

Soffit





Expect more choice

UNILIN

RENOVATE /INSULATE

When you upgrade your insulation, you can expect to enjoy improved energy efficiency and a more comfortable environment.

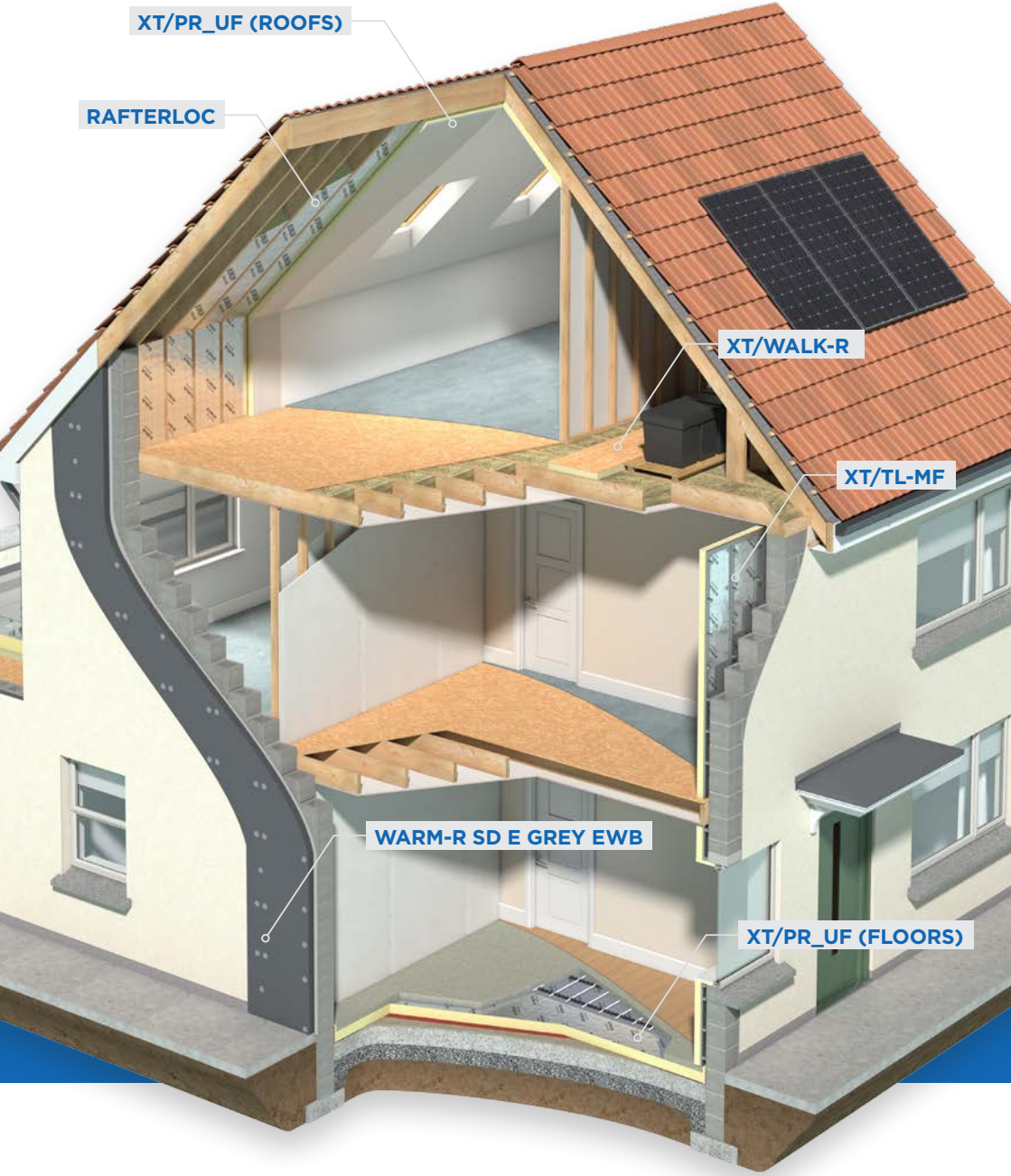
By choosing Unilin Insulation as your renovation partner, you are assured of the best product range and the best technical advice.

We push boundaries to improve people's quality of life by creating **Better Spaces. Better Homes.**



Solutions for:
Walls, Floors & Roofs

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


XT/PR_UF (ROOFS)
RAFTERLOC
XT/WALK-R
XT/TL-MF
WARM-R SD E GREY EWB
XT/PR_UF (FLOORS)

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 sustainability strategy

IGBC
IRISH GREEN BUILDING COUNCIL








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.













OUR PRODUCTS

Products by Application

WALLS

Partial Fill Cavity Walls

- ECO/CW Partial Fill Cavity Walls* 10
- XO/XW Partial Fill Cavity Walls* 12
- XO/XWP Partial Fill Cavity Walls* 13
- XT/CW (T&G) Partial Fill Cavity Walls* 14

Built-in Full Fill Walls

- ECO/CT Full Fill Cavity Walls* 9
- CT/PIR Full Fill Cavity Walls* 11

Drylining Walls

- SR/TBFL-MF 15
- XT/TL Drylining (Dot & Dab) 16
- XT/TL-MF Drylining (Mech Fixed) 17

Framing Walls

- SR/FB Framing Board 18
- XO/FB Framing Board 19
- XT/TF Timber Frame 20

ROOFS

Pitched Roofs

- ECO/MA Pitched Roof 22
- ECO/MA Sarking Warm Roof Construction 23
- XO/PR Pitched Roof 24
- XO/SK Sarking (T&G) 25
- XT/PR_UF Pitched Roof 26
- XT/RLOC Pitched Roof 27

Flat Roofs

- FR/ALU Flat Roof 29
- FR/MG Flat Roof 30
- FR/BGM Flat Roof 31
- XO/XD Flat Roof 32

FLOORS

Solid & Suspended Floors

- ECO/MA Solid & Suspended Floors 34
- XO/UF Floors 35
- XT/PR_UF Floors 36
- XT/Walk-R 37

SOFFITS

- SR/ST Soffit 39
- SR/STP Soffit 40
- XO/STP Soffit 41

Key

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

*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.ie** or contact our Technical team for full details and properties of our products. Pictures of renders are indicative only.

Products by Range

ECO360
BIO-ENHANCED PIR INSULATION

ECO/CT 9
Walls: Full Fill Cavity Walls

ECO/CW 10
Walls: Partial Fill Cavity Walls

ECO/MA (Roofs) 22
Roofs: Pitched Roofs

ECO/MA (Roofs) 23
Roofs: Sarking Warm Roof Construction

ECO/MA (Floors) 34
Floors: Solid & Suspended Floors

SAFE-R
PHENOLIC INSULATION

SR/TBFL-MF 15
Walls: Drylining Walls

SR/FB 18
Walls: Steel & Timber Frame

SR/ST 39
Soffit: Soffit Application

SR/STP 40
Soffit: Soffit Application

CAVITYTHERM
BUILT-IN FULL FILL PIR WALL INSULATION

CT/PIR 11
Walls: Full Fill Built-in Insulation system

XTROLINER
SUPERIOR PERFORMANCE PIR INSULATION*

XO/XW 12
Walls: Partial Fill Cavity Walls

XO/XWP 13
Walls: Partial Fill Cavity Walls

XO/FB 19
Walls: Steel & Timber Frame

XO/PR 24
Roofs: Pitched Roofs

XO/SK (T&G) 25
Roofs: Pitched Roofs

XO/XD 32
Roofs: Built-up Bituminous Felt Systems

XO/UF 35
Floors: Ground Supported & Suspended Floors

XO/STP 41
Soffit: Soffit Application

THIN-R
PIR INSULATION

XT/CW (T&G) 14
Walls: Partial Fill Cavity Walls

XT/TL 16
Walls: Drylining Walls Dot & Dab

XT/TL-MF 17
Walls: Drylining Walls Mechanically Fixed

XT/TF 20
Walls: Timber Framed Walls

XT/PR_UF (Roofs) 26
Roofs: Pitched Roof

XT/RLOC 27
Roofs: Pitched Roof

FR/ALU 29
Roofs: Mechanically Fixed Single Ply Waterproofing Systems

FR/MG 30
Roofs: Single Ply Fully Adhered / Partially Bonded Built-Up Felt Systems

FR/BGM 31
Roofs: Partially Bonded, Torched-on, Built-up Bituminous Felt Systems

XT/PR_UF (Floors) 36
Floors: Ground Supported & Suspended Floors

XT/Walk-R 37
Floors: Attic decking

FOAMGLAS®

FOAMGLAS® 42
Cellular Glass Insulation

XPS
EXTRUDED POLYSTYRENE INSULATION

XPS 44
Extruded Polystyrene Insulation

EPS
EXPANDED POLYSTYRENE INSULATION

Hytherm/Warm-R 45
Expanded Polystyrene Insulation

CLOSE-R
INSULATED CAVITY CLOSER

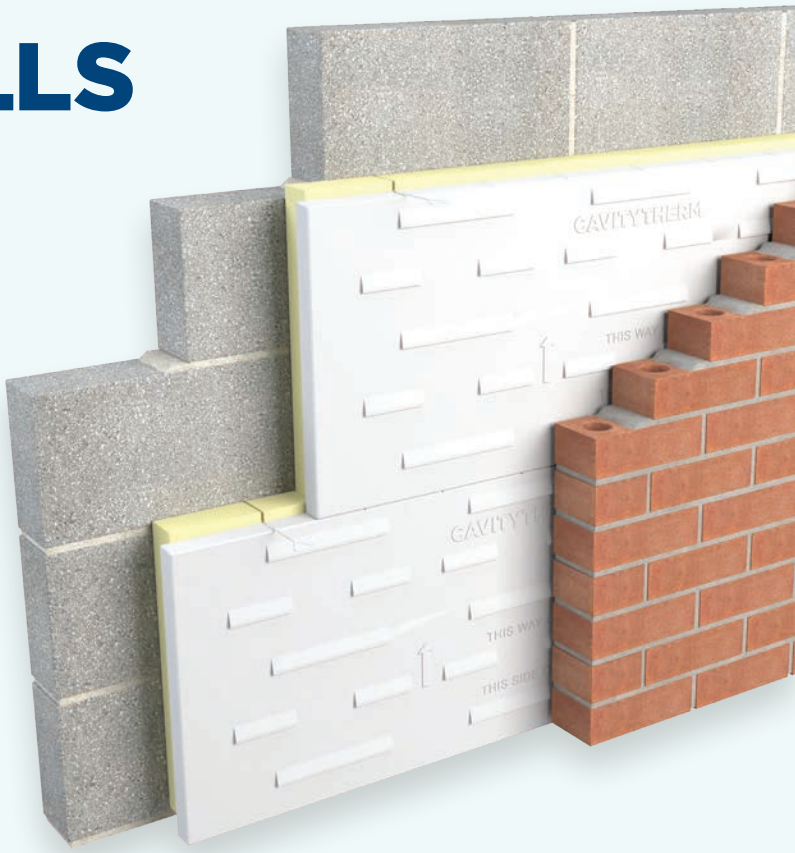
Safe-R Close-R 46
Insulation Accessories

Close-R 47
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.

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.

WALLS



Partial Fill Cavity Walls

- ECO/CW Partial Fill Cavity Walls* 10
- XO/XW Partial Fill Cavity Walls* 12
- XO/XWP Partial Fill Cavity Walls* 13
- XT/CW (T&G) Partial Fill Cavity Walls* 14

Built-in Full Fill Walls

- ECO/CT Full Fill Cavity Walls* 9
- CT/PIR Full Fill Cavity Walls* 11

Drylining Walls

- SR/TBFL-MF 15
- XT/TL Drylining (Dot & Dab) 16
- XT/TL-MF Drylining (Mech Fixed) 17

Framing Walls

- SR/FB Framing Board 18
- XO/FB Framing Board 19
- XT/TF Timber Frame 20

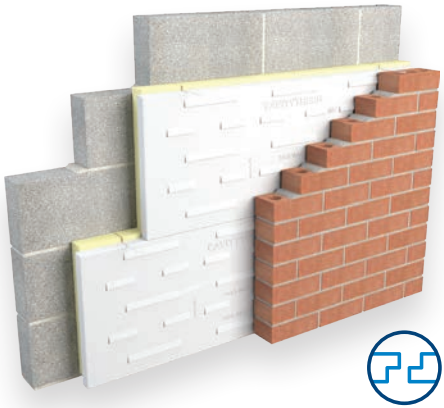
ECO360 BIO-ENHANCED PIR INSULATION
Full Fill Cavity Walls

Lambda value of **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 Lambda of 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

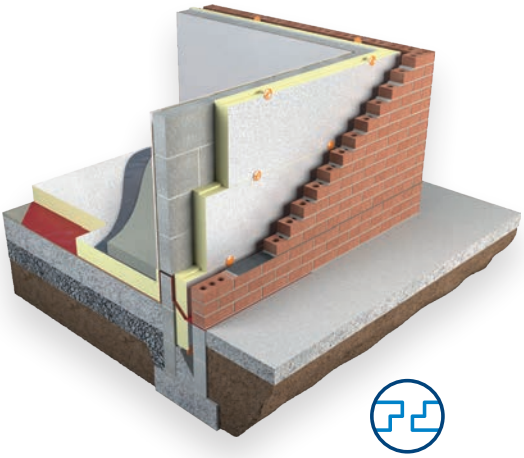
ECO360 BIO-ENHANCED PIR INSULATION
Partial Fill Cavity Walls

Lambda value of **0.020 W/mK**

ECO/CW

Cavity Wall 360 is a bio-enhanced partial fill wall insulation system. The system incorporates textured 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/m^{2}K in a traditional cavity wall. When building with Cavity Wall 360 a residual cavity is maintained, offering effective protection against wind-driven rain.



SHIPLAP JOINTING

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

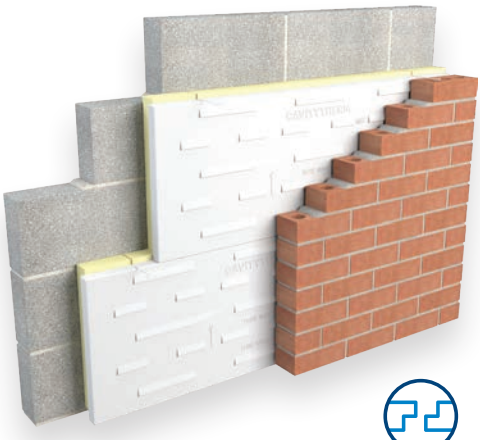
Other thicknesses may be available subject to minimum order quantity and extended lead times.
Please contact your Area Sales Manager for further details

CAVITYTHERM BUILT-IN FULL FILL PIR WALL INSULATION
Full Fill Cavity Walls

Lambda value of **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 0.13 W/m²K with excellent Thermal Bridging detailing in cavities up to 150mm wide.



SHIPLAP JOINTING

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
Excellent 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

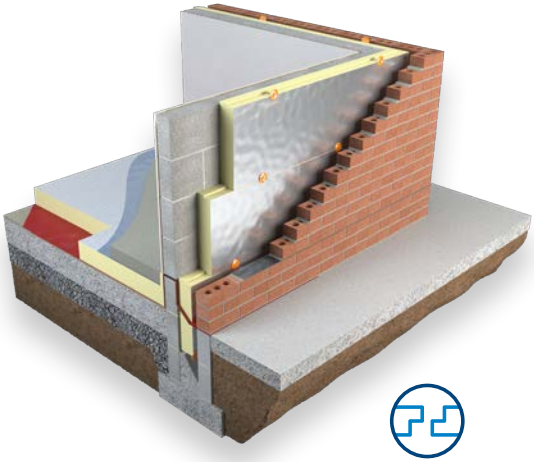
XTROLINER SUPERIOR PERFORMANCE PIR INSULATION*
Partial Fill Cavity Walls

Lambda value of **0.021 W/mK**

XO/XW

XtroWall is an innovative partial fill wall insulation system incorporating textured facings, engineered jointing details, preformed corners and a certified lambda of 0.021 W/mK.

This lower Lambda improves U-Values and meets Passive house levels, proving a suitable choice for Passive and low energy builds. XtroWall can achieve NZEB Standard in a traditional cavity wall. Building with XtroWall, a residual cavity is maintained, offering effective protection against wind driven rain.



SHIPLAP JOINTING

Key Features
Verified EPD available
Euroclass E
Corner panels and cavity closers: Reduced Thermal Bridging
Clear cavity Maintained
Lower lambda value for improved U-Values
Composite foil facings

Specifications	
Thermal Conductivity	0.021 W/mK
Facings	Composite foil facings
Core	Superior Performance PIR Insulation
Board Size	1200mm x 450mm
Board Thickness	80, 90, 100mm
Board Profile	Rebate Edge
Preformed Corner	Yes

*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.

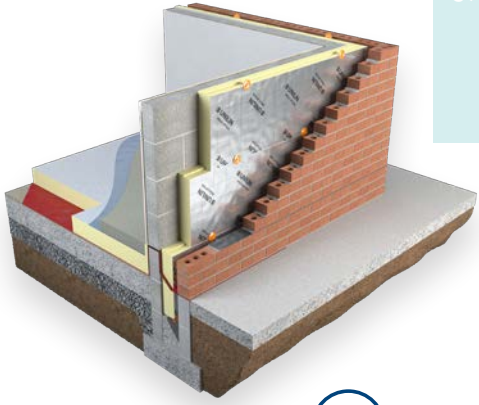
XTROLINER SUPERIOR PERFORMANCE PIR INSULATION*
Partial Fill Cavity Walls

Lambda value of **0.020 W/mK**

XO/XWP

XtroWall Plus is a superior performance insulation with a Lambda value of 0.020 Wm/K and a Euroclass E fire classification. It is faced with aluminium foil and is available with engineered jointing to deliver improved Thermal Bridging detailing.

This lower Lambda improves U-Values and meets NZEB standards, proving a suitable choice for Passive and low energy builds. XtroWall Plus can achieve a passive U-Value of 0.15 W/m²K in a traditional cavity wall. Building with XtroWall Plus, a residual cavity is maintained, offering effective protection against wind driven rain.



SHIPLAP JOINTING

Key Features
Verified EPD available
Achieves 0.15 U-Value in 150mm Cavity
Improved Lambda value 0.020 W/mK
Engineered Jointing
Corner panels and cavity closers: Reduced Thermal Bridging
Clear cavity maintained

Specifications	
Thermal Conductivity	0.020 W/mK
Facings	Composite foil facings
Core	Superior Performance PIR Insulation
Board Size	1200mm x 450mm
Board Thickness	110mm
Board Profile	Rebate Edge
Preformed Corner	Yes

*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.

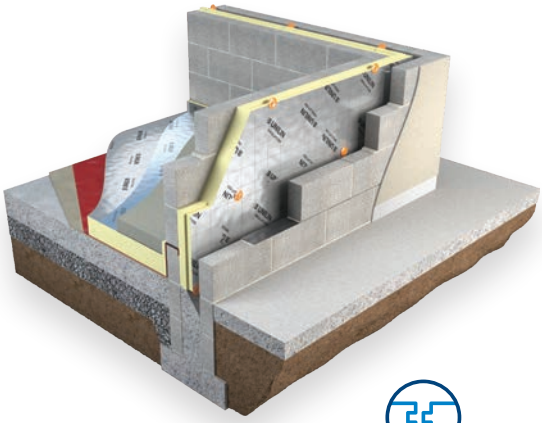
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

THIN-R PIR INSULATION
Partial Fill Cavity Walls

XT/CW (T&G)

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

Cavity Wall (T&G) for use in traditional masonry walls, builds to the highest thermal standards whilst maintaining a residual cavity, offering protection from wind driven rain.



TONGUE & GROOVE JOINTING

Key Features
Verified EPD available
Robust Tongue & Groove Jointing
Corner panels and cavity closers: Reduced Thermal Bridging
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, 80, 90, 100, 110, 120, 125mm
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
Drylining Walls

(Installed with Adhesive Dabs or Mechanically Fixed)

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

SR/TBFL-MF

Safe-R Fireline Thermal Laminate is a composite insulated panel comprising of a rigid Phenolic core and 15mm Fireline plasterboard achieving a Euroclass B s1 d0 reaction to fire classification for internal applications. The superior thermal performance provides improved U-Values with minimal intrusion into valuable living space.

Safe-R Fireline Thermal Laminate achieved a REI 45 fire resistance in a system for ceiling and roof application in accordance with TGD B. This product is designed to provide high levels of thermal insulation and drylining in one operation, with the added assurance of high fire performance combined with improved thermal values.



Key Features
Verified EPD is available for the product insulation
Reaction to Fire (Euroclass) B-s1, d0
High performance to thickness ratio - Space saving
Superior thermal performance of 0.020-0.021 W/mK

Specifications	
Thermal Conductivity	0.020 - 0.021 W/mK
Facings	Composite foil facings/ Fireline plasterboard
Core	Phenolic Insulation
Board Size	2400mm x 1200mm
Board Thickness	50, 60, 70, 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

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
Verified EPD is available for the product insulation
Reaction to Fire (Euroclass) B-s1, d0
Insulation & Drylining in one application
Provides effective 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	2438mm 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
Verified EPD is available for the product insulation
Reaction to Fire (Euroclass) B-s1, d0
Insulation & Drylining in one application
Provides effective 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

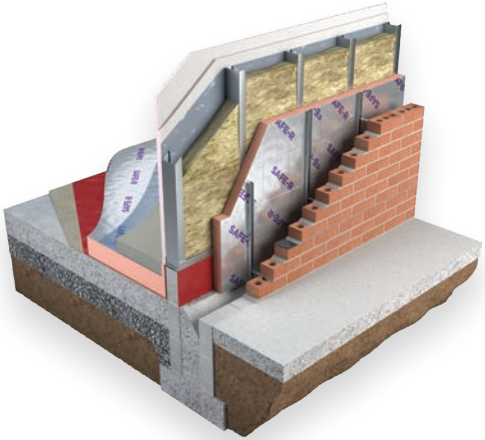
SAFE-R PHENOLIC INSULATION
Steel & Timber Frame

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 15m 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 excellent 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
Suitable for use in steel and timber frame systems up to 15m in height
Lower lambda value for improved U-Values
Reaction to Fire (Euroclass) C-s1, d0
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

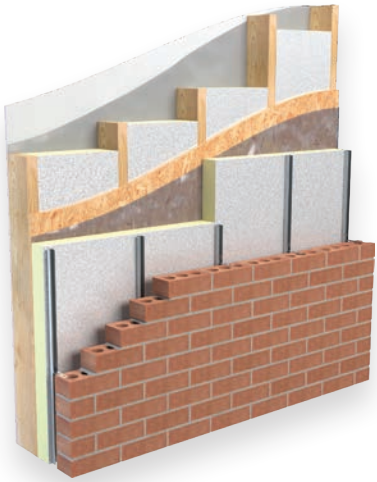
XTROLINER SUPERIOR PERFORMANCE PIR INSULATION*
Steel & Timber Frame

Lambda value of **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 15m 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 systems.
Lower lambda value for improved U-Values
Suitable for new build and renovation up to 15m in height
Reduced Thermal Bridging
Textured foil

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.

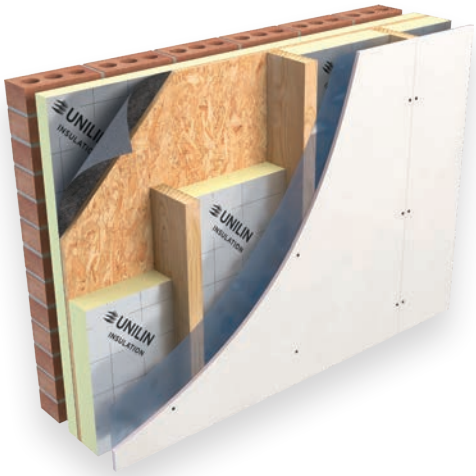
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details.

THIN-R PIR INSULATION
Timber Framed Walls

XT/TF

Timber Frame construction is a fast, systematic method that results in high performing buildings with regard to energy efficiency and in environmental terms.

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 NZEB fabric standards 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 Pitched Roof	22
ECO/MA Sarking Warm Roof Construction	23
XO/PR Pitched Roof	24
XO/SK Sarking (T&G)	25
XT/PR_UF Pitched Roof	26
XT/RLOC Pitched Roof	27

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

*The thermal performance of the 50mm thickness is 0.023 W/mK

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
Sarking Warm Roof Construction

Lambda value of **0.020 W/mK**

ECO/MA

Bio-enhanced, PIR insulation suitable for Sarking Warm Roof construction. ECO360 MA, with a thermal conductivity as low as 0.020 W/mK, in a sarking warm roof application offers an environmentally conscious solution which provides improved detailing, speed of installation and a uniform plane to accommodate more efficient detailing.

This bio-enhanced insulation combines high compressive strength with low thermal conductivity, providing an effective solution for roof insulation.



Key Features
Bio-enhanced PIR insulation
Halogen free
Enhanced performance 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

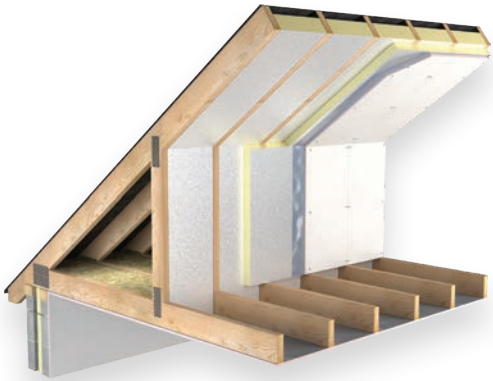
XTROLINER SUPERIOR PERFORMANCE PIR INSULATION*
Pitched Roofs

Lambda value of **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.

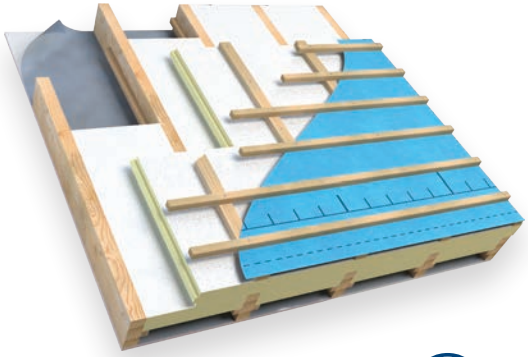
XTROLINER SUPERIOR PERFORMANCE PIR INSULATION*
Sarking Warm Roof Construction

Lambda value of **0.021 W/mK**

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

Key Features
Verified EPD available
Reaction to Fire (Euroclass) C-s2, d0
Tongue & groove jointing
Reduced risk of condensation
Avoids intrusion into living area
Improved 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

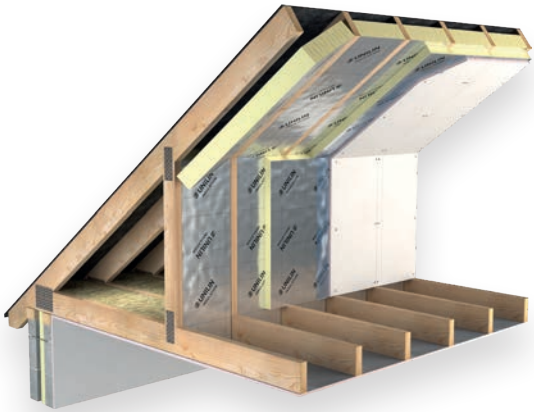
Other thicknesses may be available subject to minimum order quantity and extended lead times.
Please contact your Area Sales Manager for further details

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, high performance insulation 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 suitable solution to insulating sloped rafters to the most efficient standards with minimal wastage and reduced fitting time.

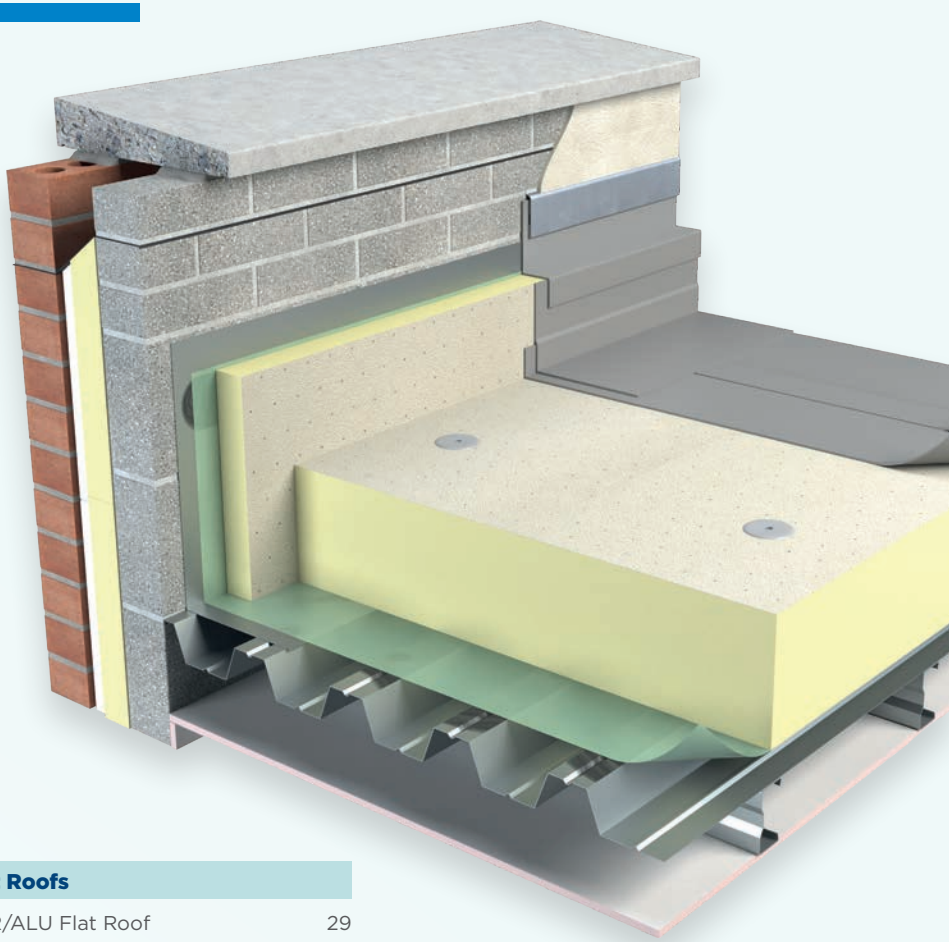


Key Features
Variable width feature
Minimal intrusion into living area
Composite foil facings
Extra thermal performance

Specifications	
Thermal Conductivity	0.023 W/mK
Facings	Composite foil facings
Core	PIR Insulation
Board Size	1200mm x 370mm
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

FLAT ROOFS



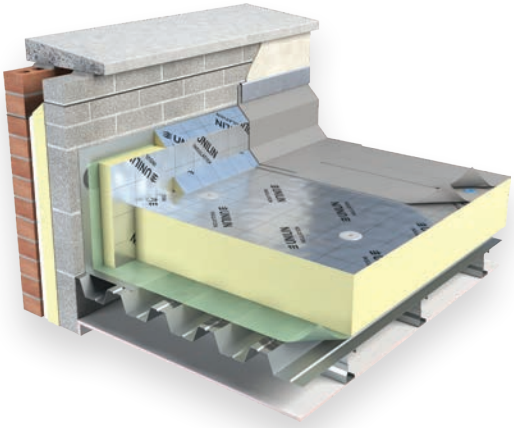
Flat Roofs

FR/ALU Flat Roof	29
FR/MG Flat Roof	30
FR/BGM Flat Roof	31
XO/XD Flat Roof	32

THIN-R PIR INSULATION
Mechanically Fixed Single Ply Waterproofing Systems

FR/ALU

Flat Roof ALU is a high performance 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
High Thermal Performance
Compatible with mechanically fixed single ply systems and loose laid ballasted systems
Vapour resistant foil facers

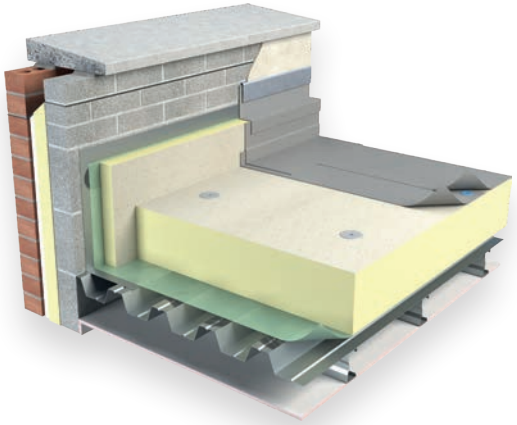
Specifications	
Thermal Conductivity	0.022 W/mK
Compressive Strength	CS (10\Y) 150
Facings	Vapour-Resistant aluminium foil facings
Core	PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	25, 30, 40, 50, 60, 70, 75, 80, 90, 100, 110, 120, 125, 130, 140, 150mm
Board Profile	Square Edge

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 waterproofing systems (mechanically fixed or fully adhered) and partially bonded built-up felt.



Key Features
Verified EPD available
High Thermal Performance
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
High Thermal Performance
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 (10\Y) 150
Facings	Mineral Glass/Bitumen 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

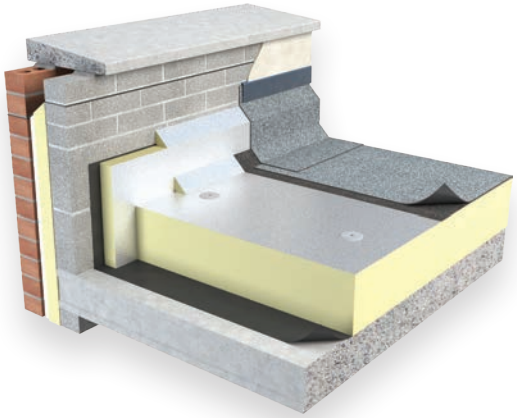
XTROLINER SUPERIOR PERFORMANCE PIR INSULATION*

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

Lambda value of **0.021 W/mK**

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.



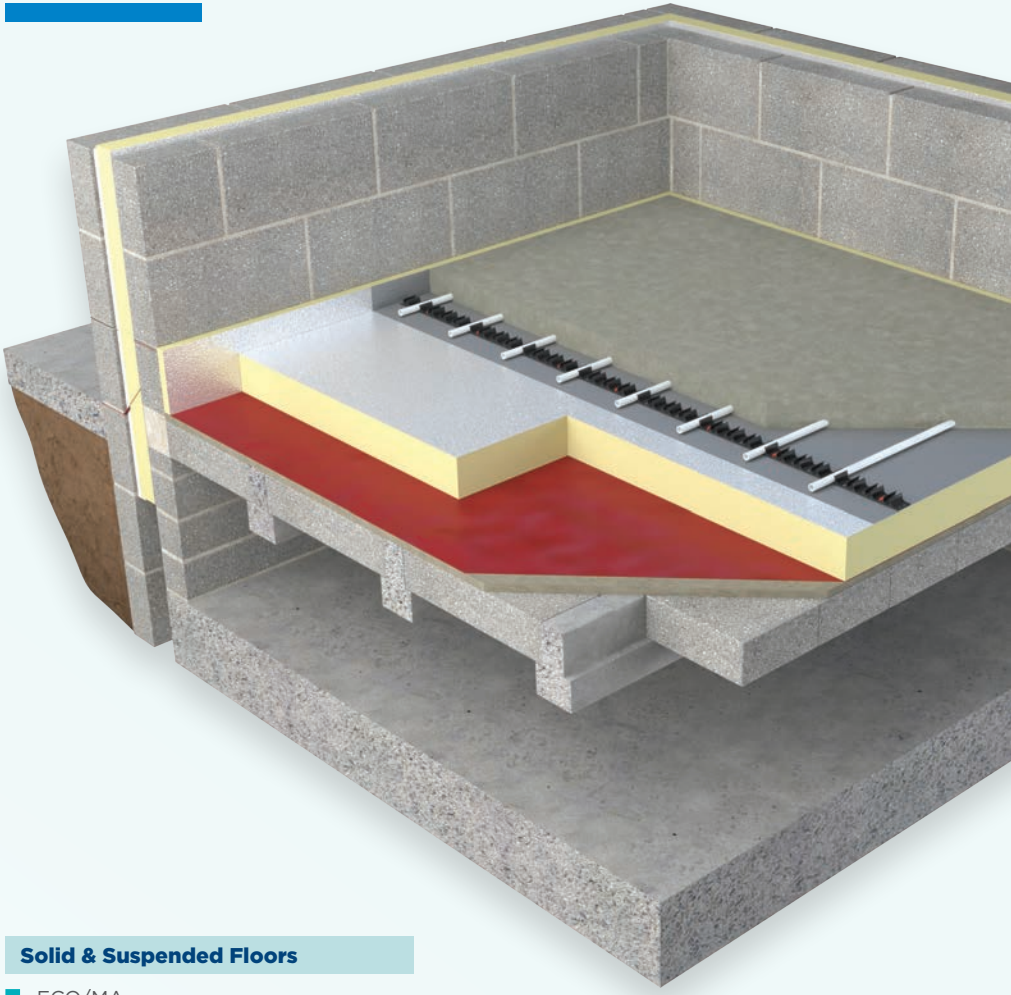
Key Features
Verified EPD available
Reaction to Fire (Euroclass) C-s2, d0
Superior Performance PIR Insulation
Compatible with most bituminous based roofing systems containing self adhered underlays with heat activated cap sheets

Specifications	
Thermal Conductivity	0.021 W/mK
Compressive Strength	CS (10\Y) 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

ECO/MA Solid & Suspended Floors	34
XO/UF Floors	35
XT/PR_UF Floors	36
XT/Walk-R	37

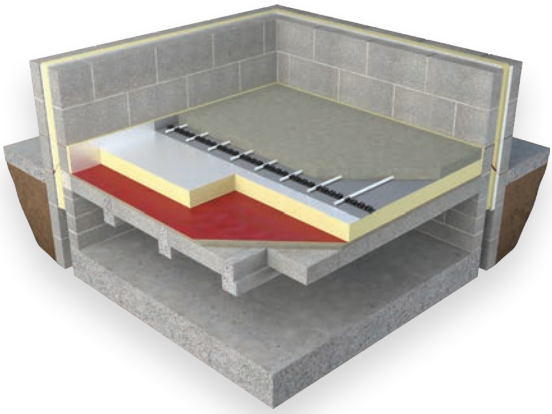
ECO360 BIO-ENHANCED PIR INSULATION
Solid & Suspended Floors

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

ECO/MA

Bio-enhanced, PIR insulation suitable for solid and suspended floors. ECO360 MA for floors offers improved PIR 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 combines high compressive strength with low thermal conductivity, providing an effective 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	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

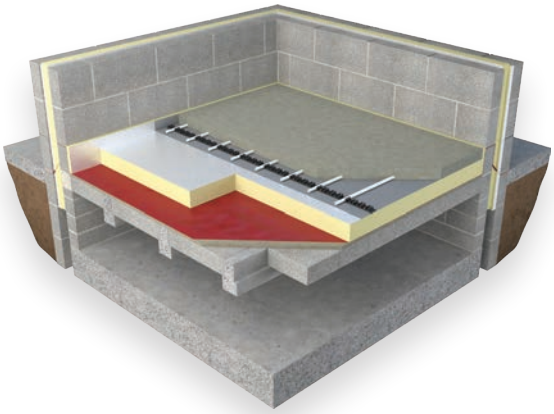
XTROLINER SUPERIOR PERFORMANCE PIR INSULATION*
Solid & Suspended Floors

Lambda value of **0.021 W/mK**

XO/UF

XtroLiner Underfloor superior performance PIR offers improved 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 combines high compressive strength with low thermal conductivity, providing an effective solution for floor insulation.



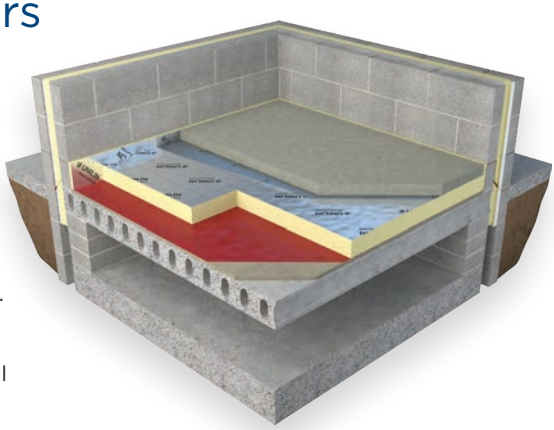
Key Features
Verified EPD available
Reaction to Fire (Euroclass) C-s2, d0
High compressive strength
Suitable for underfloor heating
Perimeter strips for robust detailing
Reduced insulation thickness
Textured foil

Specifications	
Thermal Conductivity	0.021 W/mK
Compressive Strength	CS (10\Y) 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 an effective 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

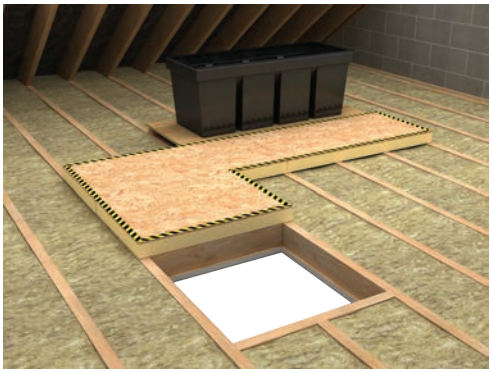
Specifications	
Thermal Conductivity	0.022 W/mK
Compressive Strength	CS (10\Y) 140
Facings	Composite foil facings
Core	PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	25, 30, 40, 50, 60, 70, 90, 100, 110, 125, 140, 150mm
Board Profile	Square Edge

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 Attic Decking

XT/WALK-R

Thin-R Attic Decking Walk-R is a composite of 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.

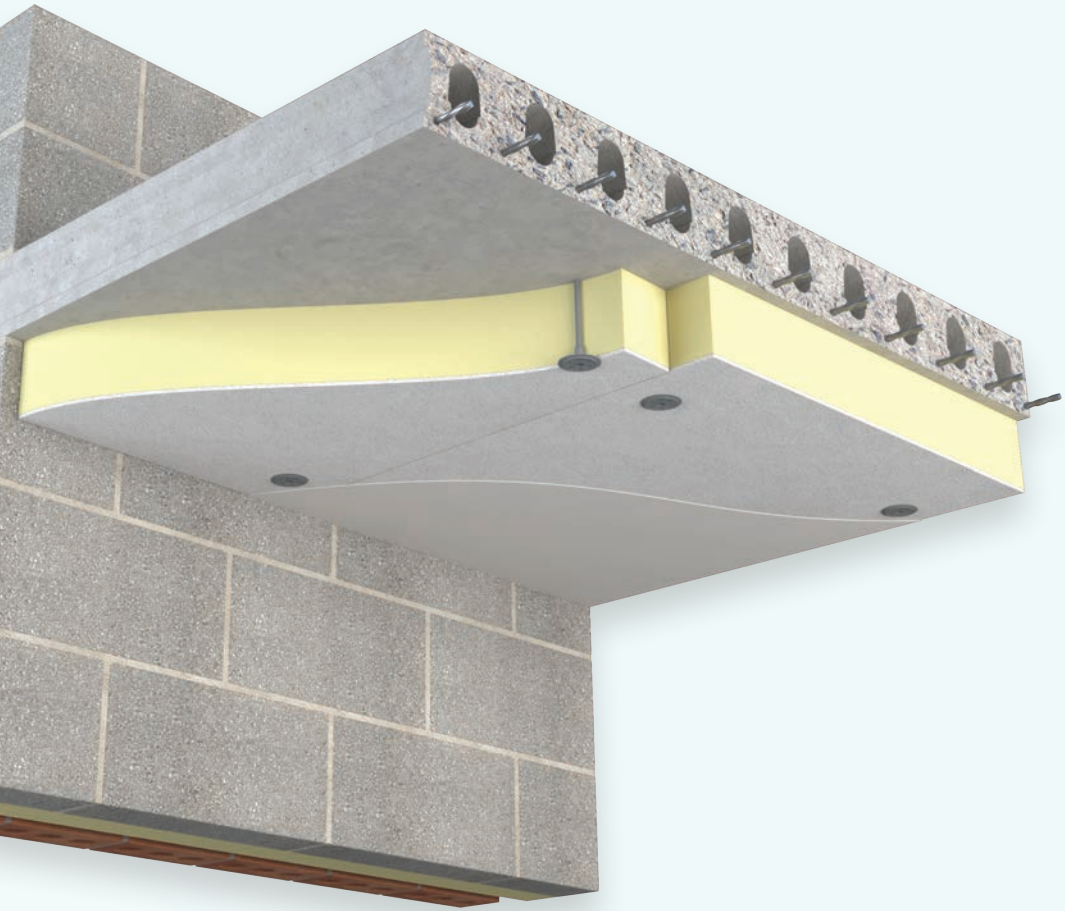


Key Features
Verified EPD is available for the product insulation
Safe access to attic space
High thermal performance
Complies with health and safety guidelines

Specifications	
Thermal Conductivity	0.022 W/mK
Compressive Strength	CS (10\Y) 150
Facings	Composite 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

SOFFITS



- SR/ST Soffit 39
- SR/STP Soffit 40
- XO/STP Soffit 41

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

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 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
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

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*
Soffit Application

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

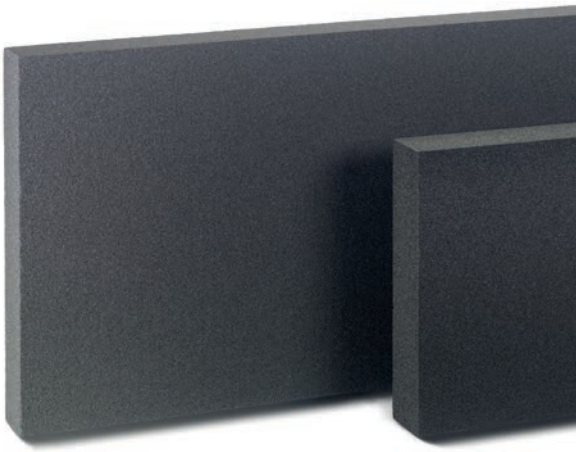
Specifications	
Thermal Conductivity	0.021 W/mK
Facings	Textured foil facings/6mm building panel
Core	Superior Performance PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	56, 66, 81, 86, 106, 126mm
Board Profile	Square Edge

*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.

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

FOAMGLAS®

FOAMGLAS T3+



FOAMGLAS® insulation is manufactured from specially graded recycled glass** and natural raw materials which are available in abundant supply (sand, dolomite, lime...). The insulation is totally inorganic, contains no ozone depleting propellants, flame resistant additives or binders. Without VOC or other volatile substances.

Extensive Range of Applications:

- Floors
- Façades
- Retaining walls (Below ground level)
- Internal lining
- Soffits
- Flat roofs

Key Features
Non combustible
Impervious to water vapour
Waterproof
Dimensionally stable
Acid/Chemical resistant
High Compressive Strength

Specifications	
Thermal Conductivity	0.036 W/mK
Compressive strength	500 KPa
Core	Cellular Glass Insulation
Board Size	600x450mm/1200x600mm
Board Thickness	50-200mm
Board Profile	Square Edge

** recycled glass consists of highly selected postconsumer glass and highly selected production scrap/co-products

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

FOAMGLAS®

FOAMGLAS PERINSUL HL

The Passive Solution for thermal breaks including ground floor perimeter, EWI and thresholds.

Extensive Range of Applications:



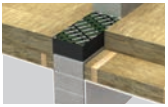
EWI Plinth



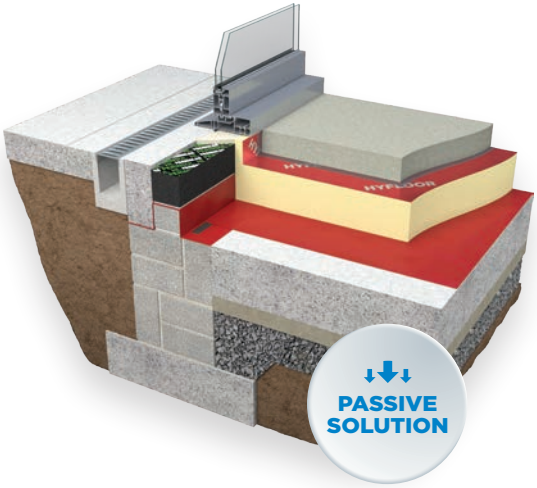
Flat Roof Parapet



Eaves



Party Wall - Ceiling



Key Features
Euroclass A1 Non-Combustible
100% impermeable to moisture penetration
Achieve Passive Performance
Gas and radon impermeable
Suitable for all walls - Masonry, Steel & Timber Framed
Solves threshold bridging with lifetime performance

Specifications	
Thermal Conductivity	0.058 W/mK
Core	Cellular Glass Insulation
Board Size	100x450mm/140x450mm/215x450mm
Board Thickness	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

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)

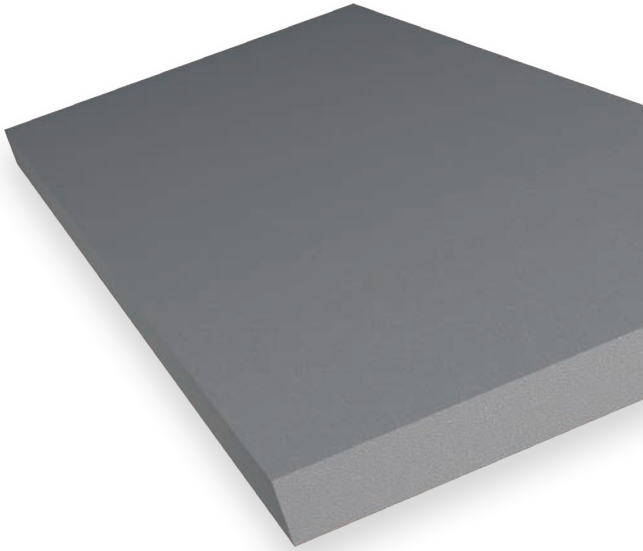
Specifications	
Thermal Conductivity	0.033 - 0.036 (W/mK)*
Board Size	1250 x 600mm
Board Thickness	30, 40, 50, 60, 80, 100, 120mm
Board Profile	Rebated Edge

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

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 HD E Grey Warm-R SD E Grey External Wall
	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	

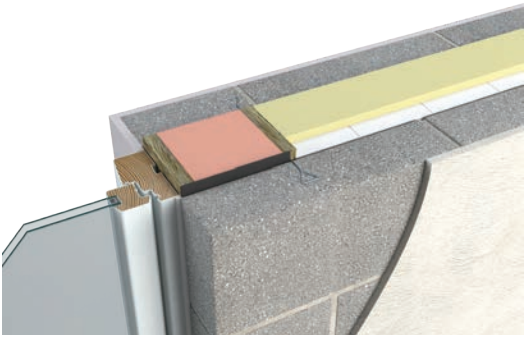
SAFE-R CAVITY CLOSERS

SAFE-R CLOSE-R

A high performance EN fire-rated cavity closer providing compliance with structural and thermal regulations in Ireland. 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 TGD Part A that additional wall ties must be placed at gable end openings and either side of expansion joints.

These extra structural ties do interrupt the continuity of the insulation layer and increase Thermal Bridging issues at very vulnerable areas, with mould growth normally most evident at reveals.

Safe-R Close-R achieves an excellent fire rating and allows for the correct placement of wall ties to meet TGD Part A structural requirements. The superior insulation performance attains Passive & NZEB standards for Thermal Bridging.



Key Features
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

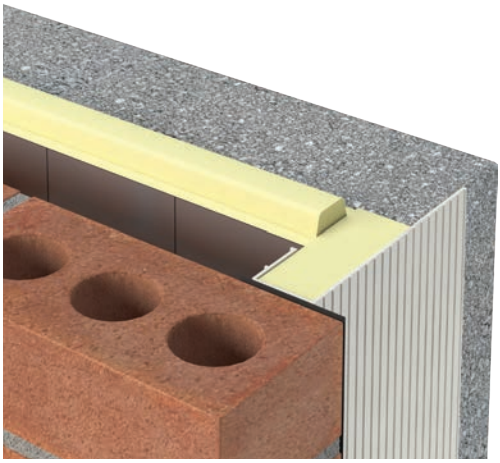
Other thicknesses may be available subject to minimum order quantity and extended lead times.
Please contact your Area Sales Manager for further details
*Please contact our Technical Team for further information

CLOSE-R INSULATED CAVITY CLOSER

CLOSE-R

Unilin Close-R fully insulated cavity closers are a solution for builders and specifiers for the closing of 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
Suits 100 - 150mm cavities
Meets new Part L requirements
Available from Builders Merchants

Specifications
For further assistance please contact the Unilin Technical team

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.







Expect more Knowledge

Unilin Insulation is one of Ireland's largest manufacturers and suppliers of insulation. We have a 40 plus year history of working in partnership with construction professionals to close the gap between design and as-built performance.

Higher standards of fabric performance call for greater adherence to best practice detailing. To achieve this and to 'close the gap' between design and build, we provide a dedicated Technical Team, all qualified to the highest standards of competency in U-Value calculation and condensation risk analysis.

FREE
One-to-one advice

Here to support you

- BRE listed Thermal Bridging Detailing
- BRE/NSAI Trained Modelling
- Warranted Calculations available
- Immediate technical response
- DEAP Qualified
- Insulation systems to deliver real onsite performance

Get in touch

T: +353 (0) 46 906 6050 **E:** tech.ui@unilin.com **unilininsulation.ie**

Achieving NZEB Compliance for Typical New Dwellings

Detached: Scheme Development

EPC	CPC	RER
Target: 0.300	0.35	20%
Actual: 0.255	0.209	50%



Result: A2 Rating

Floor U-Value	0.11	150mm XO/UF
Cavity U-Value	0.16	125mm CavityTherm
Ceiling U-Value	0.12	300mm fibre plus thermal lining
Windows U-Value	1.40	Double glazed
Door U-Value	1.00	Insulated door
Thermal Bridging Factor	0.03	Calculated details
Air Permeability	5	0.25 ACH
Natural Ventilation	Yes	
Heating System	392/217%	Heat Pump: Space/ Water Efficiency
Heating Controls	Yes	Full Time & Temp Controls
Cylinder	200L	Factory Insulated 100mm
Secondary Heating	Yes	Log Burning Stove
Delay Start Stat	No	
Light Fittings	100%	Low Energy Lights
Renewable Technology	Yes	From Heat Pump

Semi-Detached: Scheme Development

EPC	CPC	RER
Target: 0.300	0.35	20%
Actual: 0.293	0.268	26%



Result: A2 Rating

Floor U-Value	0.11	150mm XO/UF
Cavity U-Value	0.16	125mm CavityTherm
Ceiling U-Value	0.12	300mm fibre plus thermal lining
Windows U-Value	1.40	Double glazed
Door U-Value	1.00	Insulated door
Thermal Bridging Factor	0.04	Calculated details
Air Permeability	5	0.25 ACH
Natural Ventilation	Yes	
Heating System	91.2%	Gas Condensing Boiler
Heating Controls	Yes	Full Time & Temp Controls
Cylinder	200L	Factory Insulated 100mm
Secondary Heating	None	
Delay Start Stat	None	
Light Fittings	100%	Low Energy Lights
Renewable Technology	Yes	3 x 270w PV Panels (4.89m²)

Apartment: Scheme Development (Mid Floor Apartment)

EPC	CPC	RER
Target: 0.300	0.35	20%
Actual: 0.294	0.286	39%



Result: A2 Rating

Floor U-Value	None	
Cavity U-Value	0.16	125mm CavityTherm
Ceiling U-Value	None	
Windows U-Value	1.40	Double Glazed
Door U-Value	1.00	Insulated Door
Thermal Bridging Factor	0.02	Calculated Details
Air Permeability	5	0.25 ACH
Natural Ventilation	Yes	
Heating System	390/210%	Heat Pump: Space/ Water Efficiency
Heating Controls	Yes	Full Time & Temp Controls
Cylinder	180L	Factory Insulated 100mm
Secondary Heating	None	
Delay Start Stat	None	
Light Fittings	100%	Low Energy Lights
Renewable Technology	Yes	From Heat Pump

Detached: Self Build

EPC	CPC	RER
Target: 0.300	0.35	20%
Actual: 0.280	0.226	45%



Result: A2 Rating

Floor U-Value	0.11	150mm XO/UF
Cavity U-Value	0.13	150mm CavityTherm
Ceiling U-Value	0.12	300mm Fibre Plus Thermal Lining
Windows U-Value	1.40	Double Glazed
Door U-Value	1.00	Insulated Door
Thermal Bridging Factor	0.02	Calculated Details
Air Permeability	5	0.25 ACH
Natural Ventilation	Yes	
Heating System	268/233%	Heat Pump: Space/ Water Efficiency
Heating Controls	Yes	Full Time & Temp Controls
Cylinder	300L	Factory Insulated 100mm
Secondary Heating	Yes	Log Burning Stove
Delay Start Stat	None	
Light Fittings	100%	Low Energy Lights

Remote Support & Callback Request

At Unilin Insulation, we value your time and offer flexibility in how you connect with us. Our Callback Request form, available on our website, allows you to choose your preferred method of communication, whether by email or phone. Once submitted, our team will respond promptly during their working hours.

Our expanded Technical Help Desk provides unrivalled technical 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.

We are the first company in Ireland to beassessed 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

4. BBA and NSAI certification of the Unilin Insulation insulation boards

5. SAP and DEAP energy assessment

Talk to the Technical Team
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HIGH

THERMAL PERFORMANCE

LOW

EMBODIED CARBON

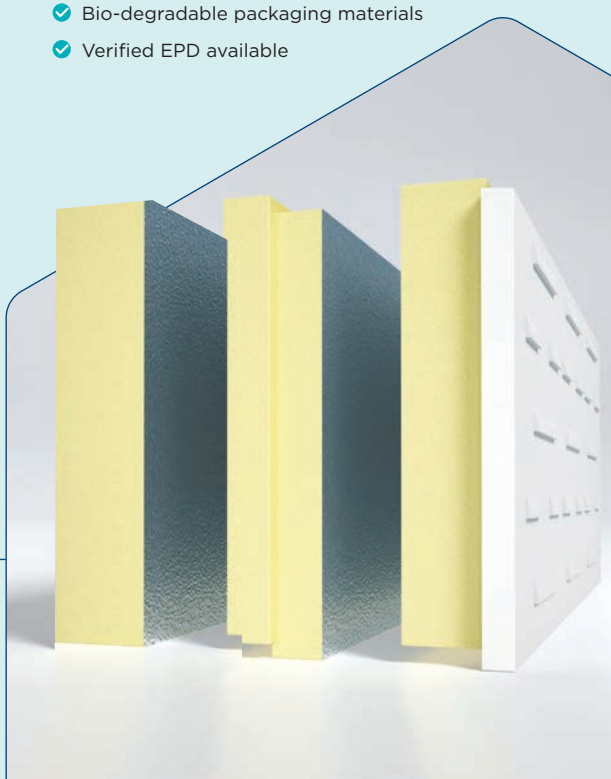
ECO360

BIO-ENHANCED PIR INSULATION

AVAILABLE FOR WALLS, FLOORS & ROOFS

The ECO360 strategy is a commitment by Unilin Insulation to continually review and improve the sustainable credentials of our product offering and services, to reduce the environmental impact of the projects we work on in terms of operational energy and embodied carbon.

- Bio-enhanced formulation
- Part of a design solution to meet 2030 Climate Challenge targets
- Halogen free formulation
- Improved thermal performance as low as 0.020 W/mK
- Bio-degradable packaging materials
- Verified EPD available



Search for ECO360 on:
unilininsulation.co.uk

UNILIN

Notes

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