PRODUCT HANDBOOK

Insulation for:

Walls

Floors

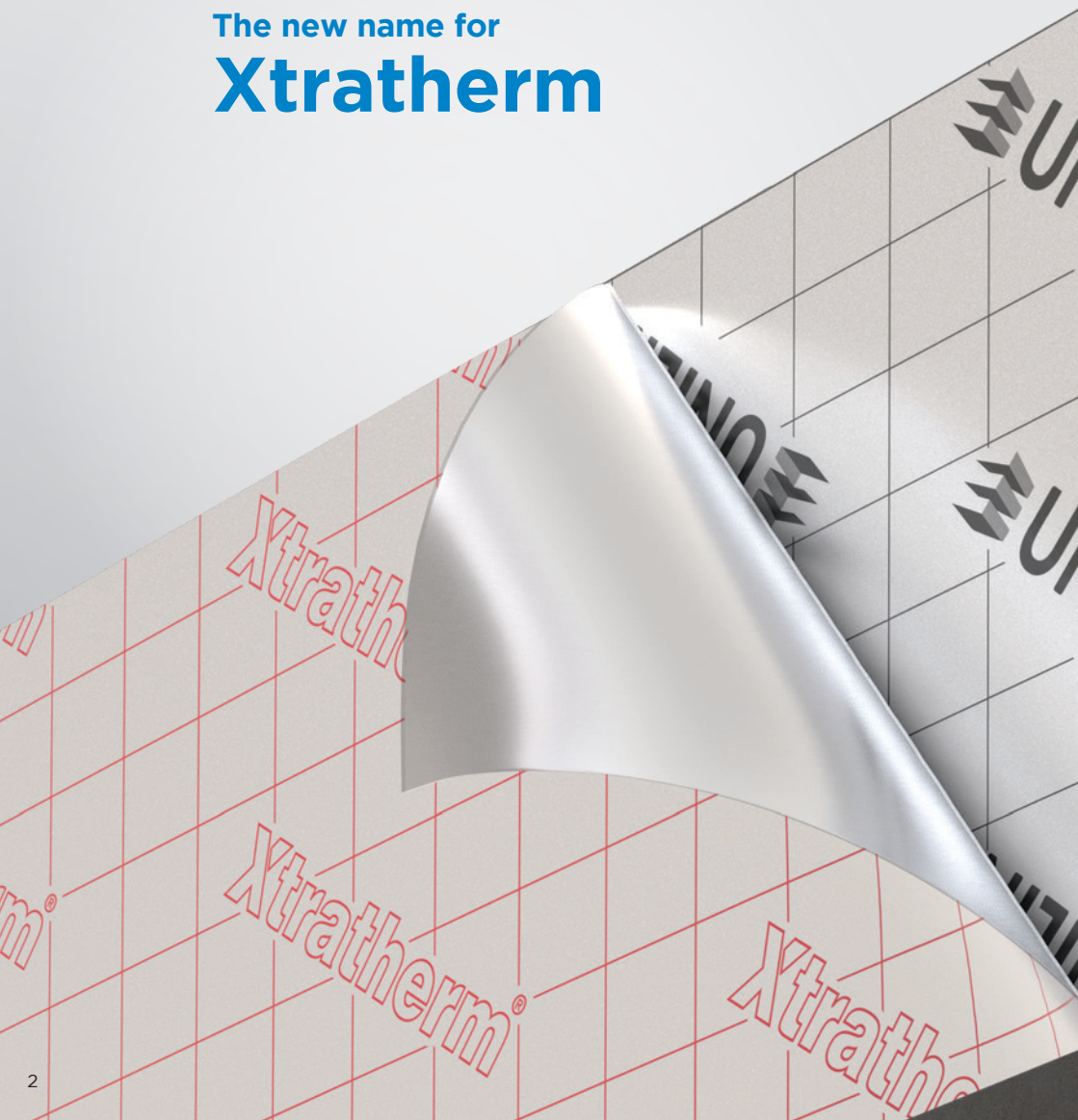
Roofs

Soffit

UNILIN INSULATION

UNILIN
INSULATION

The new name for
Xtratherm



For over three decades Xtratherm has been proudly serving the Irish construction industry. From 2023 we will continue to do so under our new name ‘Unilin Insulation’.

Eight years in the making, this change marks our evolution to one of Europe’s largest PIR insulation manufacturers and to a global supplier of building products to the construction industry.

As part of the Unilin Group we are able to deliver impactful results to a more sustainability minded construction sector, where environmental considerations are an urgent priority.

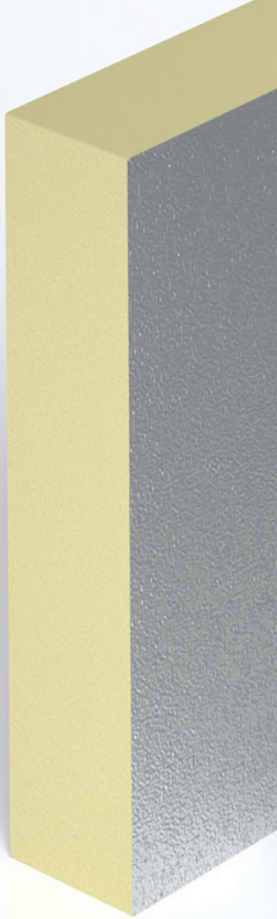
As Unilin Insulation we are now joining over eight thousand of our colleagues across 105 locations in a cohesive effort to deliver more on effective specification, sustainability and compliance.

Your Unilin Insulation team will be the same familiar and dedicated individuals who have been working with you over many years.

Join us on this exciting journey.

Find out more on **unilininsulation.ie**

Designing to Zero



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

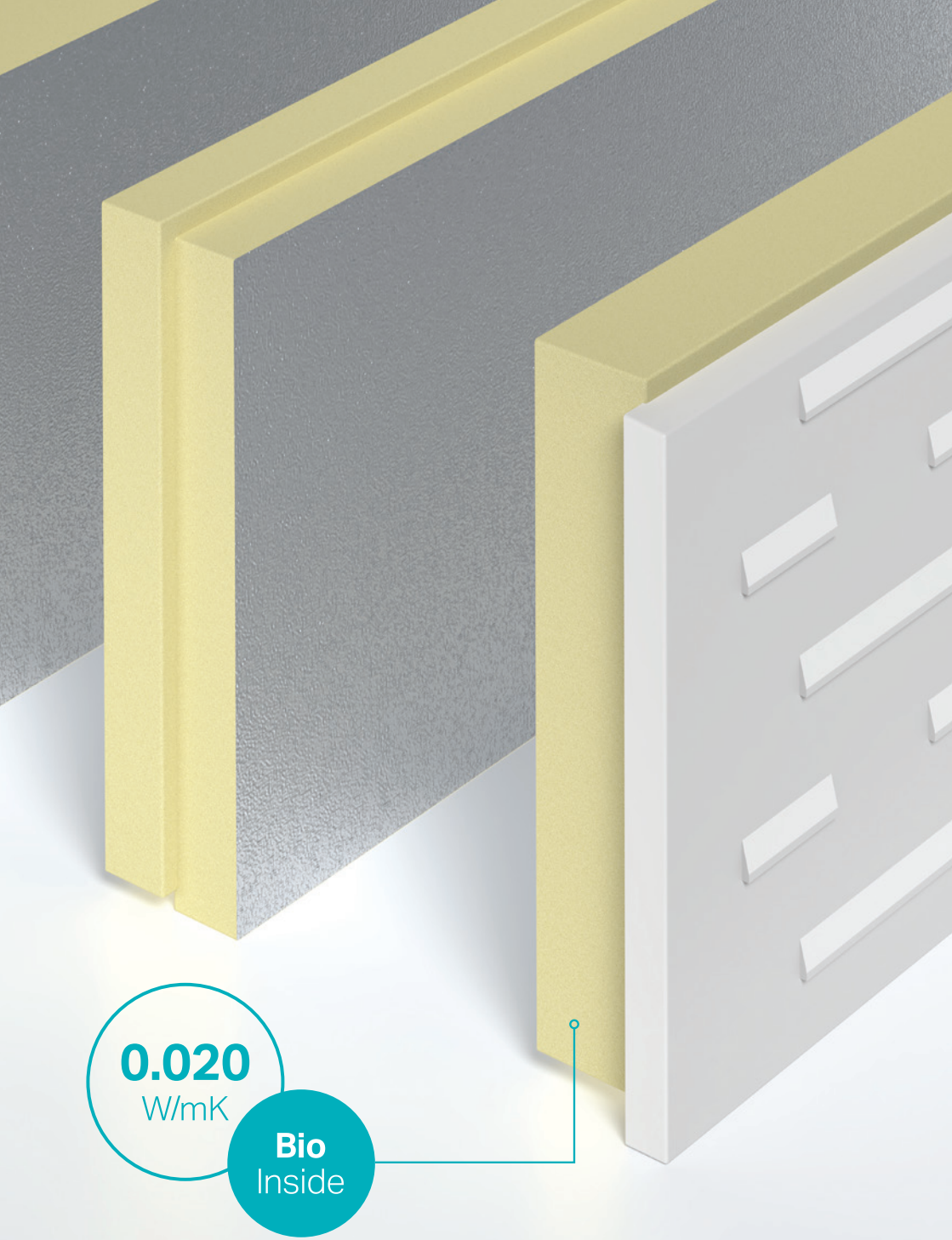
Meeting Passive or NZEB Standards requires us all to think and deliver differently. We continually improve and adapt to the challenge, gaining in-depth knowledge and sharing those technical aspects with industry.

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


0.020
W/mK
Bio
Inside

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

Built-in Full Fill Walls

Drylining Walls

Framing Walls

ROOFS

Pitched Roofs

Flat Roofs

FLOORS

Solid & Suspended Floors

SOFFITS

Key

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

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

SAFE-R
PHENOLIC INSULATION

CAVITYTHERM
BUILT-IN FULL FILL PIR WALL INSULATION

XTROLINER
SUPERIOR PERFORMANCE PIR INSULATION

THIN-R
PIR INSULATION

THIN-R PLUS
ENHANCED PIR INSULATION

FOAMGLAS®

XPS
EXTRUDED POLYSTYRENE INSULATION

EPS
EXPANDED POLYSTYRENE INSULATION

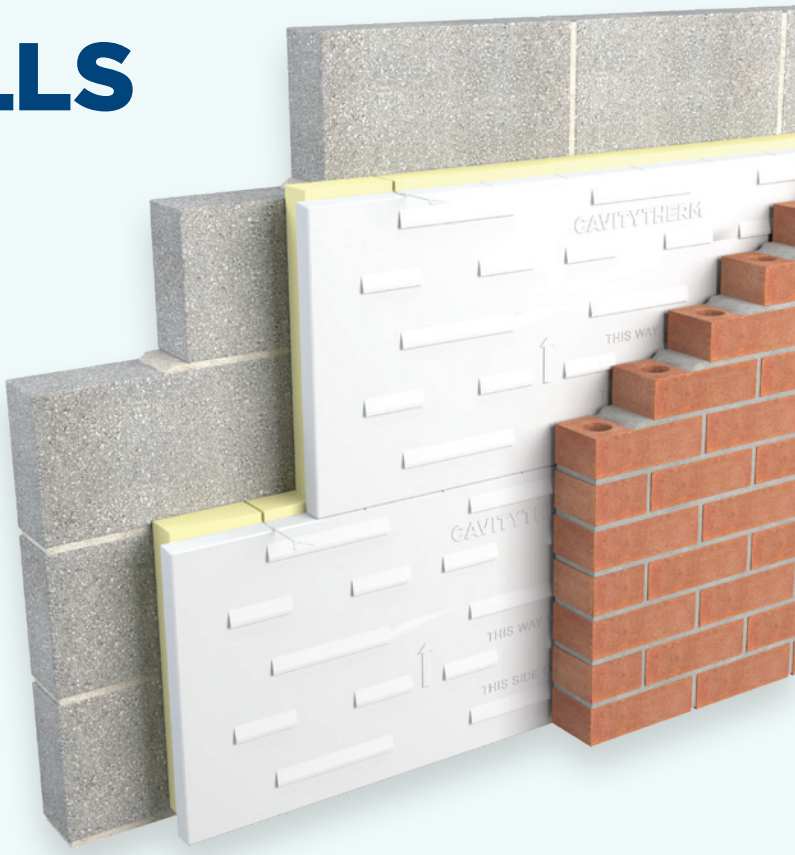
CLOSE-R
INSULATED CAVITY CLOSER

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

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.

UNILIN INSULATION

WALLS



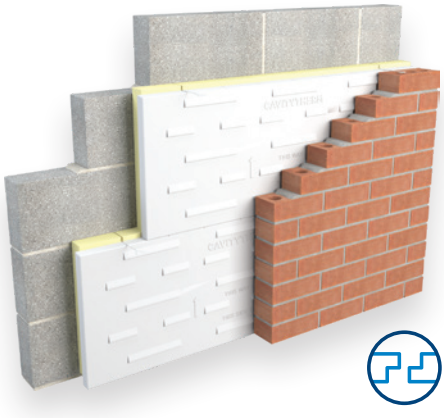
ECO360 BIO-ENHANCED PIR INSULATION
Full Fill Cavity Walls

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 high performance composite board of enhanced PIR with a Lambda value 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 as low as 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

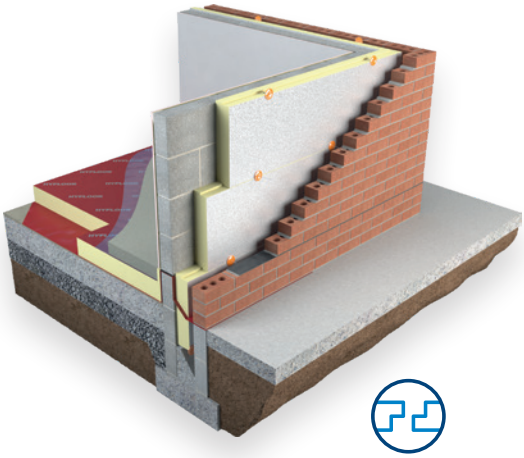
ECO360 BIO-ENHANCED PIR INSULATION
Partial Fill Cavity Walls

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 robust 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 excellent protection against wind-driven rain.



SHIPLAP JOINTING

Key Features
Bio-enhanced PIR insulation
Halogen free
Enhanced performance as low as 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	Robust low emissivity foil facings
Core	Bio-enhanced PIR Insulation
Board Size	1200mm x 450mm
Board Thickness	100, 110mm
Board Profile	Rebate Edge
Preformed Corner	Yes

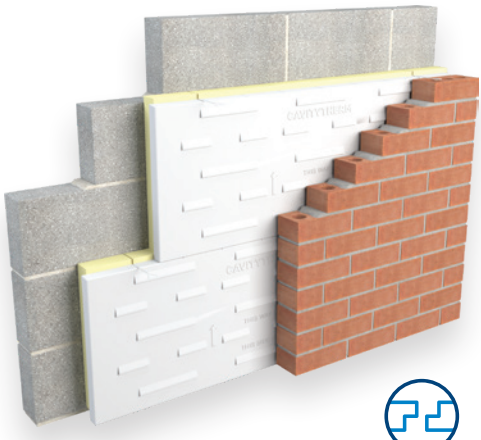
Other thicknesses may be available subject to minimum order quantity and extended lead times.
Please contact your Area Sales Manager for further details

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

Lambda value as low as **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

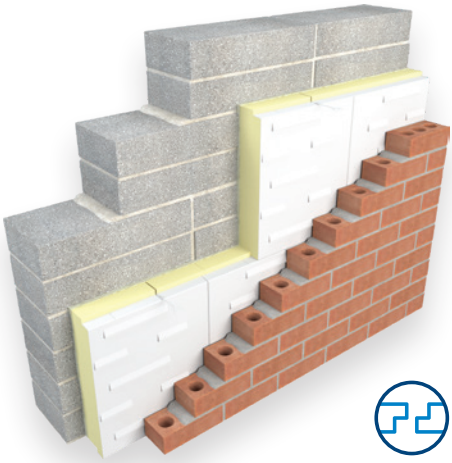
CAVITYTHERM BUILT-IN FULL FILL PIR WALL INSULATION

Full Fill Cavity Walls

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

CT/PIR FLEX

CavityTherm Flex is the perfect solution when insulating fair faced inner block walls or when block is laid flat resulting in an uneven surface to accept the insulation. The 25mm flexible fleece layer absorbs any variations due to block tolerances, providing a continuous unbroken bond between insulation layer and block.



SHIPLAP JOINTING

Key Features
Engineered HIPs facer provides wind driven rain protection
Flexible backing to eliminate indentations
Excellent Thermal Bridging Y-value
Robust moisture protection facing
0.14 U-Value in 150mm Cavity
Fully engineered jointing – no reliance on taping*

*Where the boards are butt jointed tape is required

Specifications	
Thermal Conductivity	0.021 W/mK
Facings	Composite Foil/Engineered Hips
Core	PIR Insulation/Flexible Fleece
Board Size	1200mm x 450mm
Board Thickness	125, 150mm
Board Profile	Rebate Edge

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

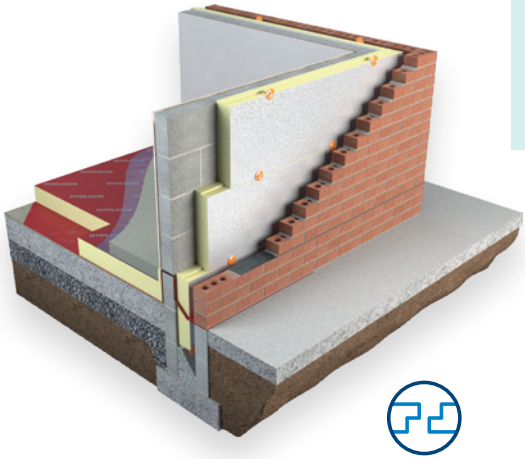
XTROLINER SUPERIOR PERFORMANCE PIR INSULATION
Partial Fill Cavity Walls

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

XO/XW

XtroWall is an innovative partial fill wall insulation system incorporating robust 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 an excellent 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 excellent protection against wind driven rain.



SHIPLAP JOINTING

Key Features
Verified EPD available
Reaction to Fire (Euroclass) C-s2, d0
Engineered Jointing
Corner panels and cavity closers: Reduced Thermal Bridging
Clear cavity Maintained
Lower lambda value for improved U-Values
Robust textured foil

Specifications	
Thermal Conductivity	0.021 W/mK
Facings	Robust low emissivity foil facings
Core	Superior Performance PIR Insulation
Board Size	1200mm x 450mm
Board Thickness	80, 90, 100mm
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

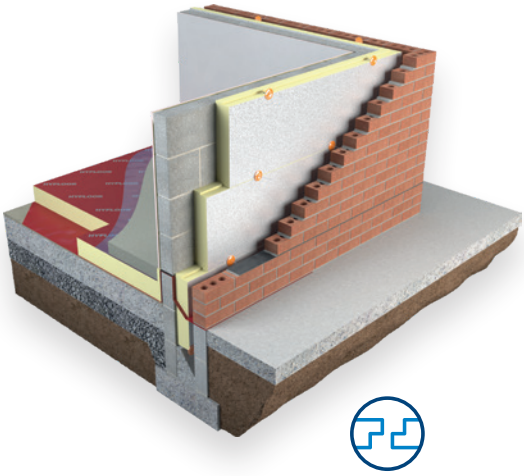
XTROLINER SUPERIOR PERFORMANCE PIR INSULATION
Partial Fill Cavity Walls

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

XO/XWP

XtroWall Plus is a superior performance insulation with a Lambda value of 0.020 Wm/K and an enhanced Euroclass C fire classification. It is faced with a robust 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 an excellent 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 excellent protection against wind driven rain.



SHIPLAP JOINTING

Key Features
Verified EPD available
Reaction to Fire (Euroclass) C-s2, d0
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	Robust low emissivity foil facings
Core	Superior Performance PIR Insulation
Board Size	1200mm x 450mm
Board Thickness	110mm
Board Profile	Rebate Edge
Preformed Corner	Yes

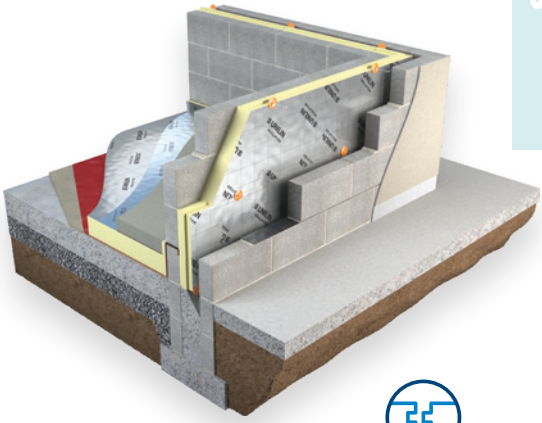
Other thicknesses may be available subject to minimum order quantity and extended lead times.
Please contact your Area Sales Manager for further details

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
Low emissivity foil facings

Specifications	
Thermal Conductivity	0.022 W/mK
Facings	Low emissivity 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 excellent 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 excellent 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	Low emissivity 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
Cost effective solution in refurbishment and new build

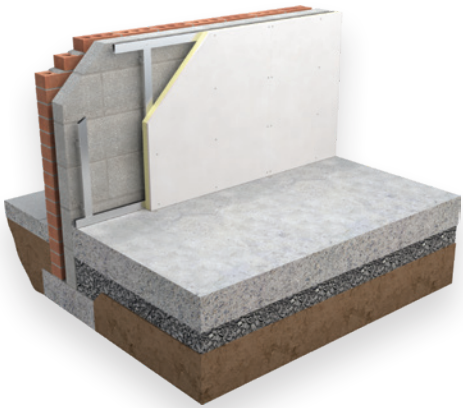
Specifications	
Thermal Conductivity	0.022 W/mK
Facings	Composite Kraft/Plasterboard
Core	PIR Insulation
Board Size	2438mm x 1200mm
Board Thickness	37.5, 50.5, 62.5, 72.5, 82.5 and 92.5mm (Thickness includes 12.5mm plasterboard)
Board Profile	Square Edge
Plasterboard	Tapered Edge

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
Cost effective 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

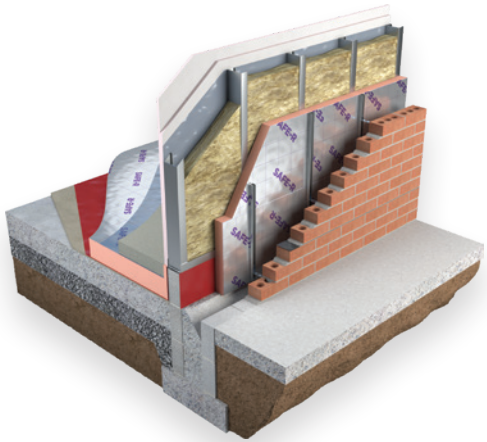
SAFE-R PHENOLIC INSULATION
Steel & Timber Frame

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 18m 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 18m 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	Low emissivity 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

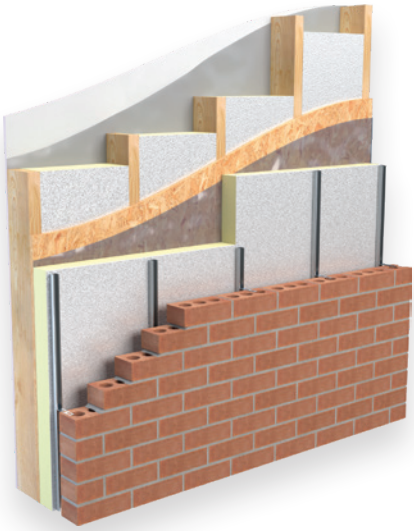
XTROLINER SUPERIOR PERFORMANCE PIR INSULATION
Steel & Timber Frame

Lambda value 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 18m 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 18m in height
Reduced Thermal Bridging
Robust textured foil

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

Specifications	
Thermal Conductivity	0.021 W/mK
Facings	Robust low emissivity 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

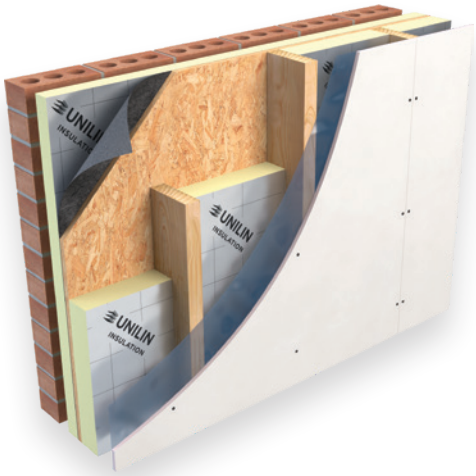
Other thicknesses may be available subject to minimum order quantity and extended lead times.
Please contact your Area Sales Manager for further details

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
Low emissivity foil facings

Specifications	
Thermal Conductivity	0.022 W/mK
Facings	Low emissivity 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

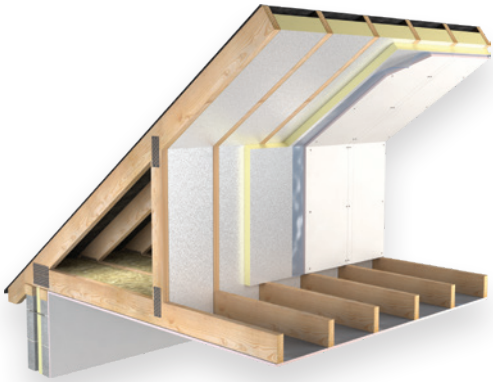
ECO360 BIO-ENHANCED PIR INSULATION
Pitched Roofs

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

ECO/MA

Bio-enhanced, superior performance PIR insulation suitable for pitched roofs (ventilated, hybrid or warm). ECO360 MA for roofs offers excellent 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 excellent 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 robust low emissivity 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

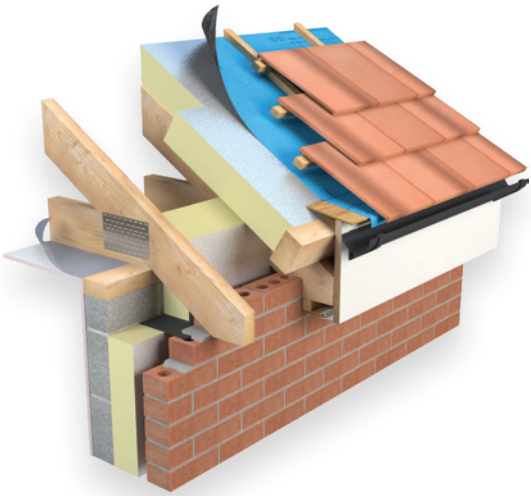
ECO360 BIO-ENHANCED PIR INSULATION
Sarking Warm Roof Construction

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

ECO/MA

Bio-enhanced, superior performance 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 is lightweight, easy to install and combines high compressive strength with low thermal conductivity, providing a high performance solution for roof insulation.



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 robust low emissivity 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

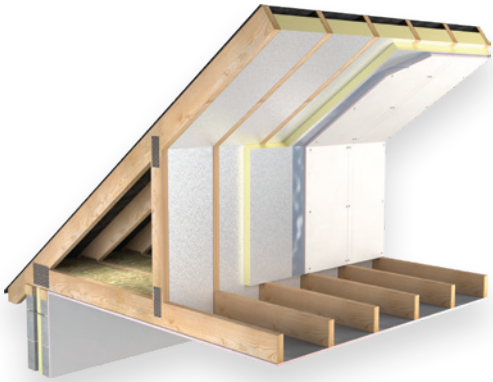
XTROLINER SUPERIOR PERFORMANCE PIR INSULATION
Pitched Roofs

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 excellent Thermal Bridging details.



Key Features
Verified EPD available
Reaction to Fire (Euroclass) C-s2, d0
Reduces intrusion into living area
Reduced risk of condensation
Robust foil facings
Lightweight and easy to install
Reduced Thermal Bridging

Specifications	
Thermal Conductivity	0.021 W/mK
Facings	Robust low emissivity 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

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

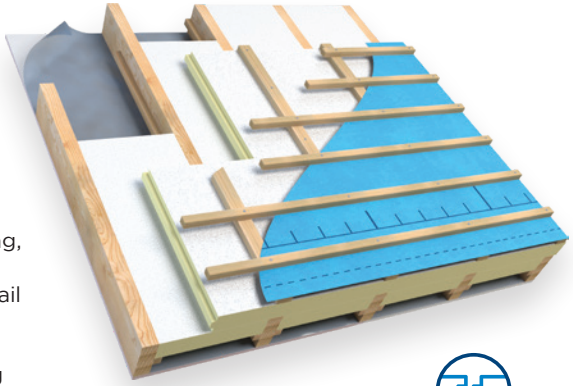
XTROLINER SUPERIOR PERFORMANCE PIR INSULATION
Sarking Warm Roof Construction

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

XO/SK (T&G)

XtroLiner Sarking (T&G) is an engineered tongue and grooved external roof insulation system with robust 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
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	Robust low emissivity foil facings
Core	Superior Performance PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	50, 75, 100, 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

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 excellent Thermal Bridging details.

Key Features
Verified EPD available
Avoids intrusion into living area
Reduced risk of condensation
Low emissivity foil facings
Lightweight and easy to install
Reduced Thermal Bridging

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

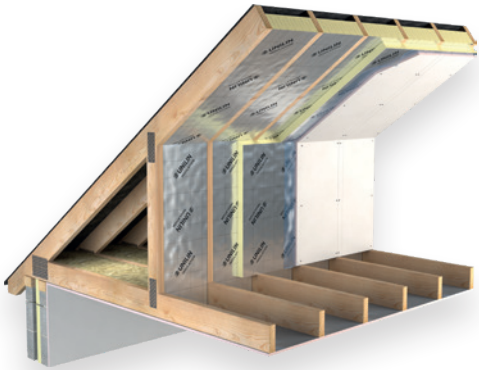
RAFTERLOC
Pitched Roof Board

Lambda value as low as **0.023 W/mK**

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 robust, cost effective solution to insulating sloped rafters to the most efficient standards with minimal wastage and reduced fitting time.

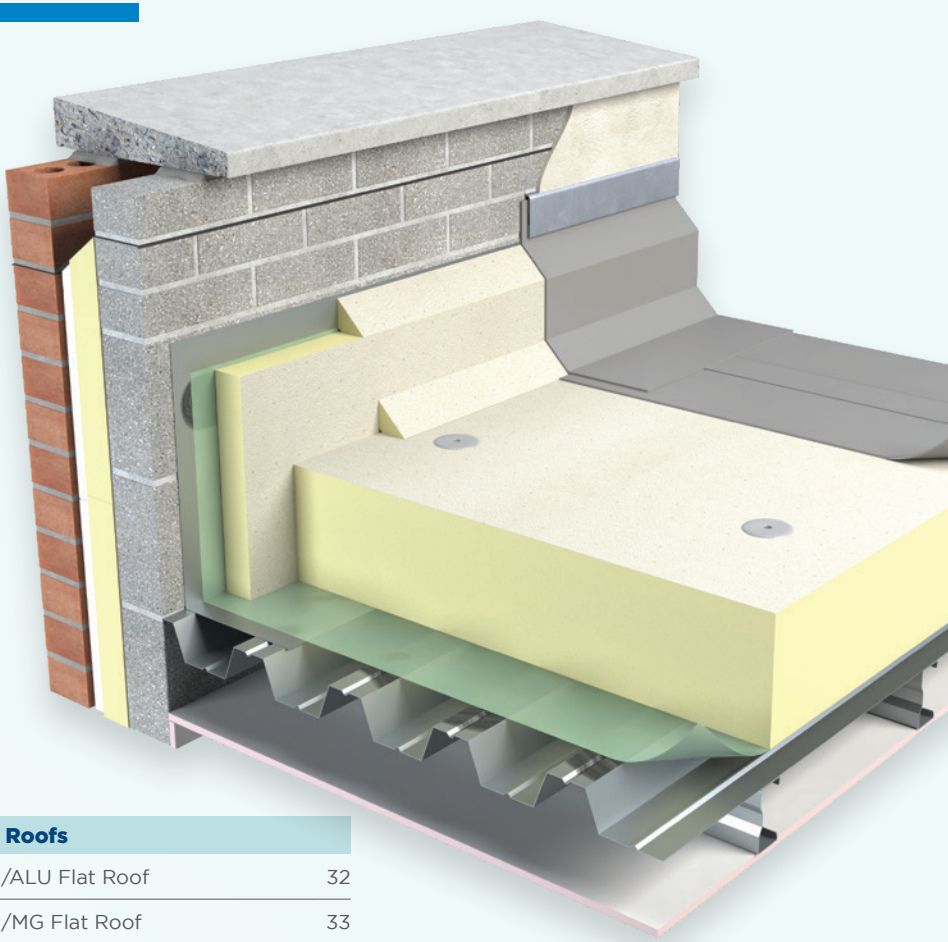


Key Features
Variable width feature
Minimal intrusion into living area
Reduced Thermal Bridging
Low emissivity foil facings
Extra thermal performance

Specifications	
Thermal Conductivity	0.023 W/mK
Facings	Low emissivity 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

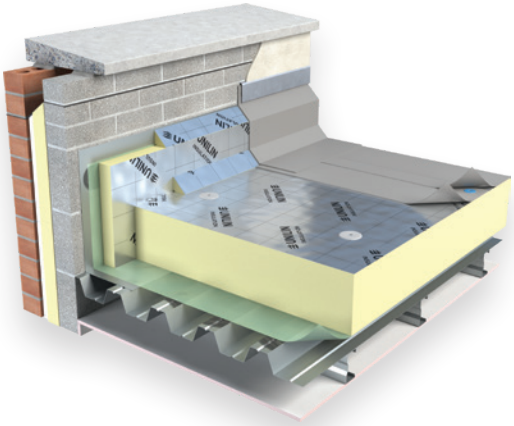


Flat Roofs

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 high performance 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. Loose laid ballasted systems
Vapour resistant foil facers

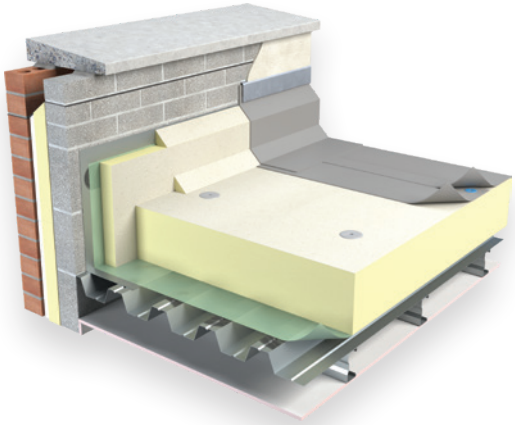
Specifications	
Thermal Conductivity	0.022 W/mK
Compressive Strength	CS (10\Y) 150
Facings	Vapour-Resistant aluminium foil facings
Core	PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	25, 30, 40, 50, 60, 70, 75, 80, 90, 100, 110, 120, 125, 130, 140, 150mm
Board Profile	Square Edge

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 high performance 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

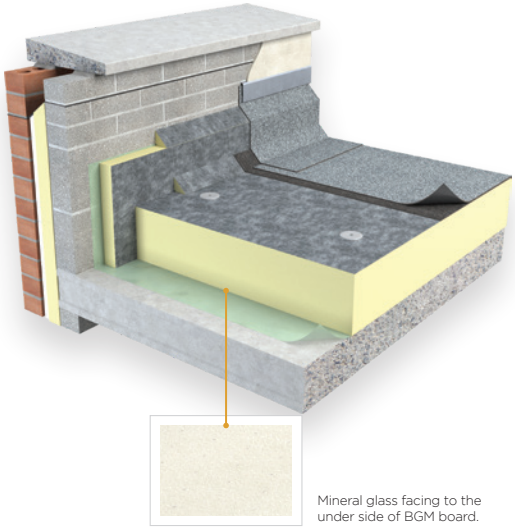
Specifications	
Thermal Conductivity	0.024 - 0.027 W/mK
Compressive Strength	CS (10\Y) 150
Facings	Mineral Glass
Core	PIR Insulation
Board Size	1200mm x 1200mm
Board Thickness	25, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150mm
Board Profile	Square Edge

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 high performance 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

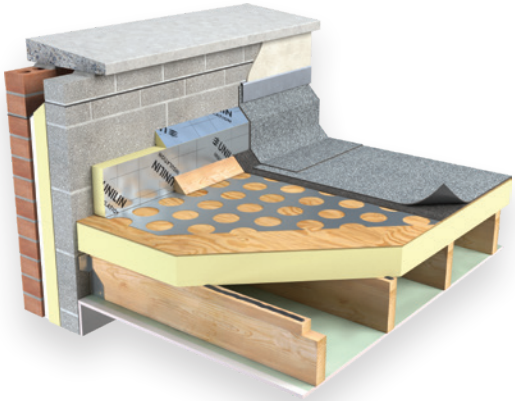
Specifications	
Thermal Conductivity	0.024 - 0.027 W/mK
Compressive Strength	CS (10\Y) 150
Facings	Mineral Glass/Bitumen Glass
Core	PIR Insulation
Board Size	1200mm x 1200mm
Board Thickness	25, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150mm
Board Profile	Square Edge

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

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
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 (10\Y) 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

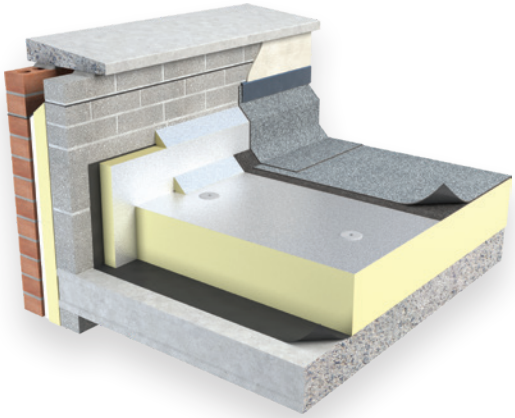
Other thicknesses may be available subject to minimum order quantity and extended lead times.
Please contact your Area Sales Manager for further details

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 high performance flat roof boards providing total solutions for flat roof projects.

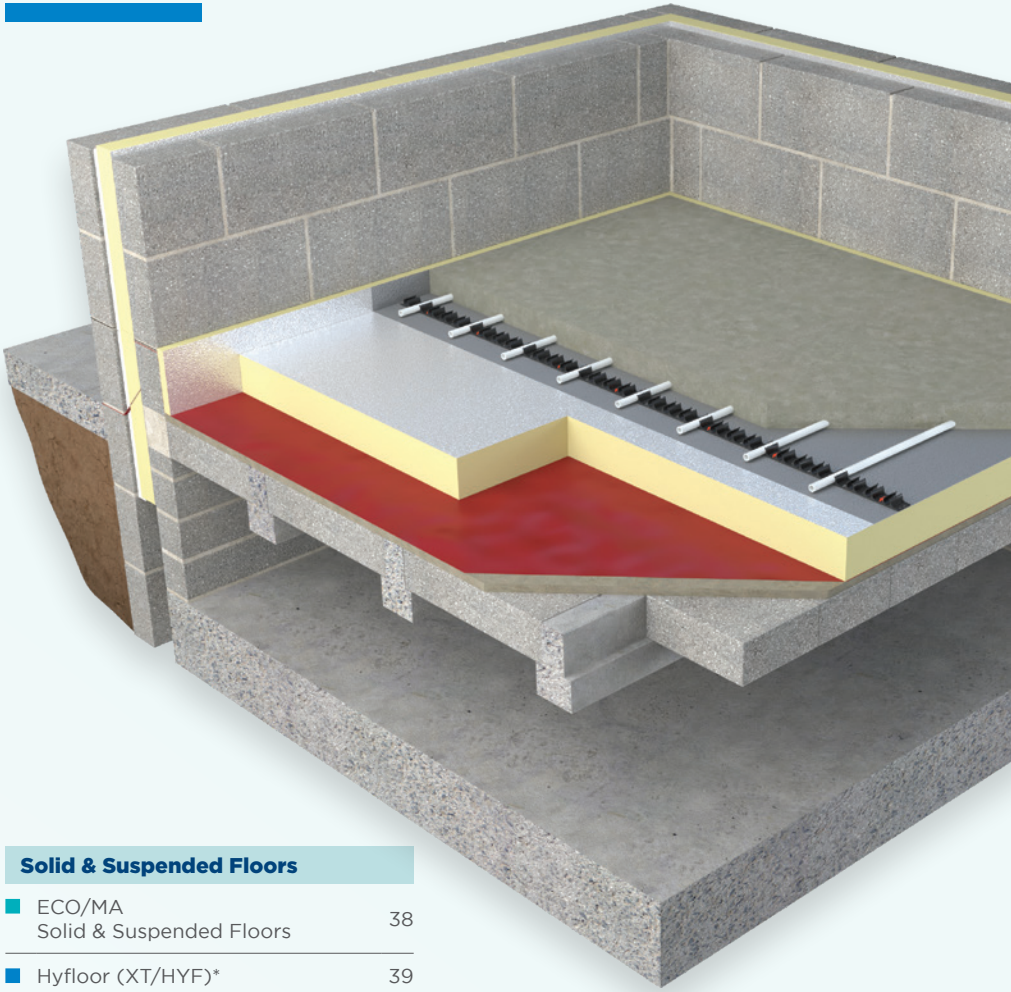


Key Features
Verified EPD available
Reaction to Fire (Euroclass) C-s2, d0
Superior Performance PIR Insulation
Compatible with most bituminous based roofing systems containing self adhered underlays with heat activated cap sheets

Specifications	
Thermal Conductivity	0.021 W/mK
Compressive Strength	CS (10\Y) 150
Facings	Robust low emissivity 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

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

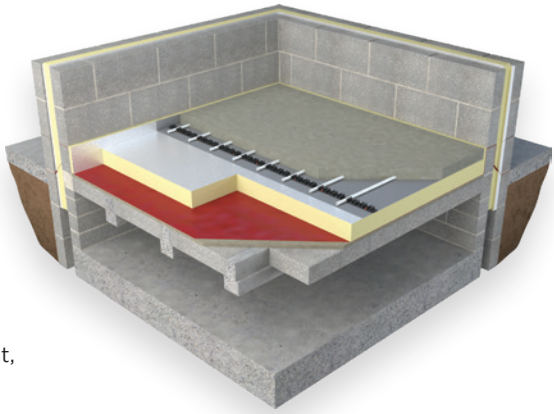
ECO360 BIO-ENHANCED PIR INSULATION
Solid & Suspended Floors

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.



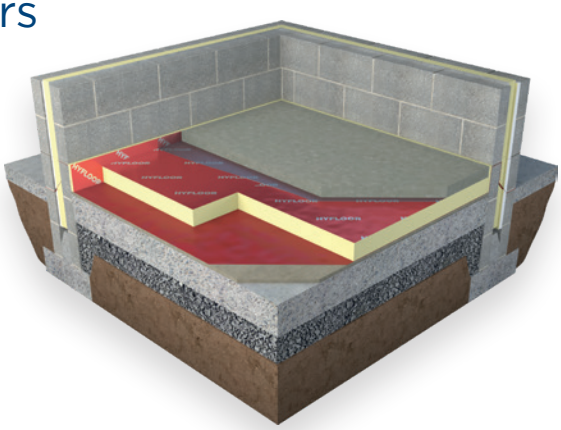
Key Features
Bio-enhanced PIR insulation
Halogen free
Enhanced performance as low as 0.020 W/mK
Bio-degradable packaging
High compressive strength
Suitable for underfloor heating

Specifications	
Thermal Conductivity	0.020 W/mK
Compressive Strength	CS (10\Y) 150
Facings	Robust low emissivity 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

THIN-R PLUS ENHANCED PIR INSULATION
Ground Supported & Suspended Floors

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



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 and robust manner.

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

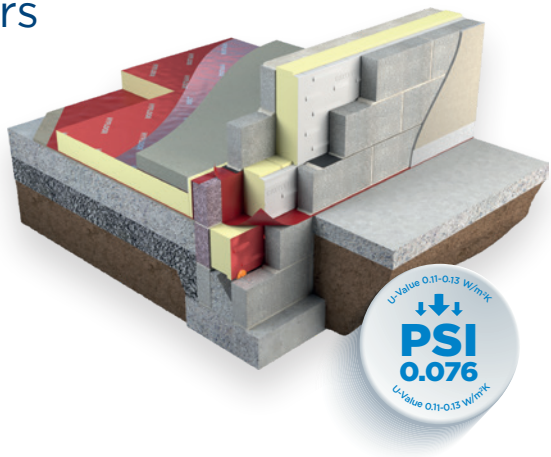
Key Features
Verified EPD available
Excellent 0.021 W/mK Lambda value
High compressive strength
Suitable for underfloor heating
Perimeter strips for robust detailing
Reduced insulation thickness

Specifications	
Thermal Conductivity	0.021 W/mK
Compressive Strength	CS (10\Y) 140
Facings	Composite foil facings
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

THIN-R PLUS ENHANCED PIR INSULATION
Ground Supported & Suspended Floors

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



HYFLOOR STRIP FOUNDATION SYSTEM

Hyfloor Strip Foundation System provides U-Value and Thermal Bridging performance to meet Future Homes Standard along with assurance of compressive strength at foundation level.

Key Features
Addresses site detailing from an early stage
Y-Values achieved < 0.05
U-Values achieved 0.11- 0.13 W/m²k
Using blocks suitable for multi storey buildings with a high compressive strength of 7.5 N/mm² and 13 N/mm²
Complies with standard construction ACDs
Traditional construction, avoiding the need for engineering assurances
Suitable for use with built-in full fill and partial fill wall insulation

Specifications	
Thermal Conductivity	0.021 W/mK
Facings	Composite Foil/Engineered Hips
Core	Enhanced PIR Insulation
Board Size	225mm & 450mm (H)
Board Thickness	75, 100, 125, 150mm
Board Profile	Rebate

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

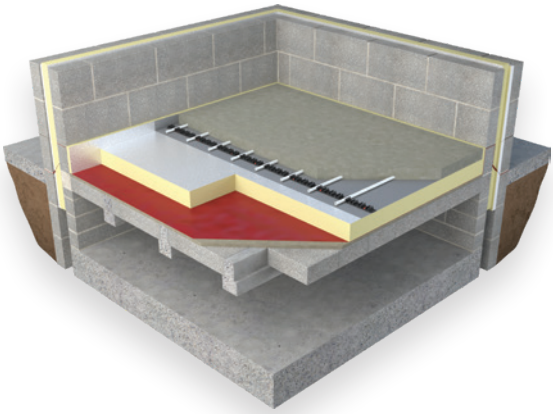
XTROLINER SUPERIOR PERFORMANCE PIR INSULATION
Solid & Suspended Floors

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.

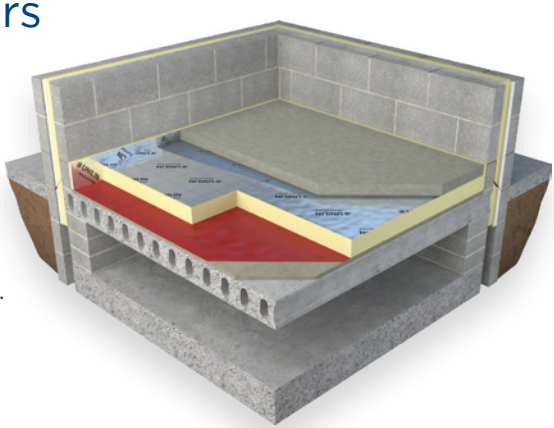


Key Features
Verified EPD available
Reaction to Fire (Euroclass) C-s2, d0
High compressive strength
Suitable for underfloor heating
Perimeter strips for robust detailing
Reduced insulation thickness
Robust textured foil

Specifications	
Thermal Conductivity	0.021 W/mK
Compressive Strength	CS (10\Y) 150
Facings	Robust low emissivity 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

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 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
High compressive strength
Suitable for underfloor heating
Perimeter strips for robust detailing
Reduced insulation thickness
Low emissivity foil facings

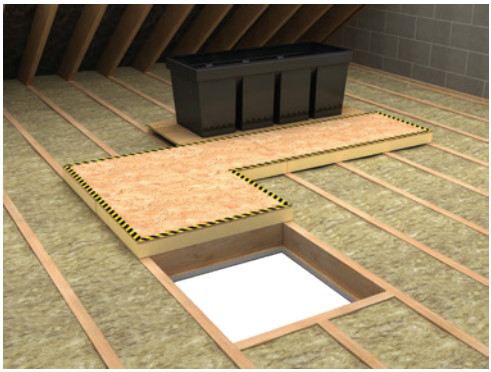
Specifications	
Thermal Conductivity	0.022 W/mK
Compressive Strength	CS (10\Y) 150
Core	PIR Insulation
Board Size	2400mm x 1200mm
Board Thickness	25, 30, 40, 50, 60, 70, 90, 100, 110, 125, 140, 150mm
Board Profile	Square Edge

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.

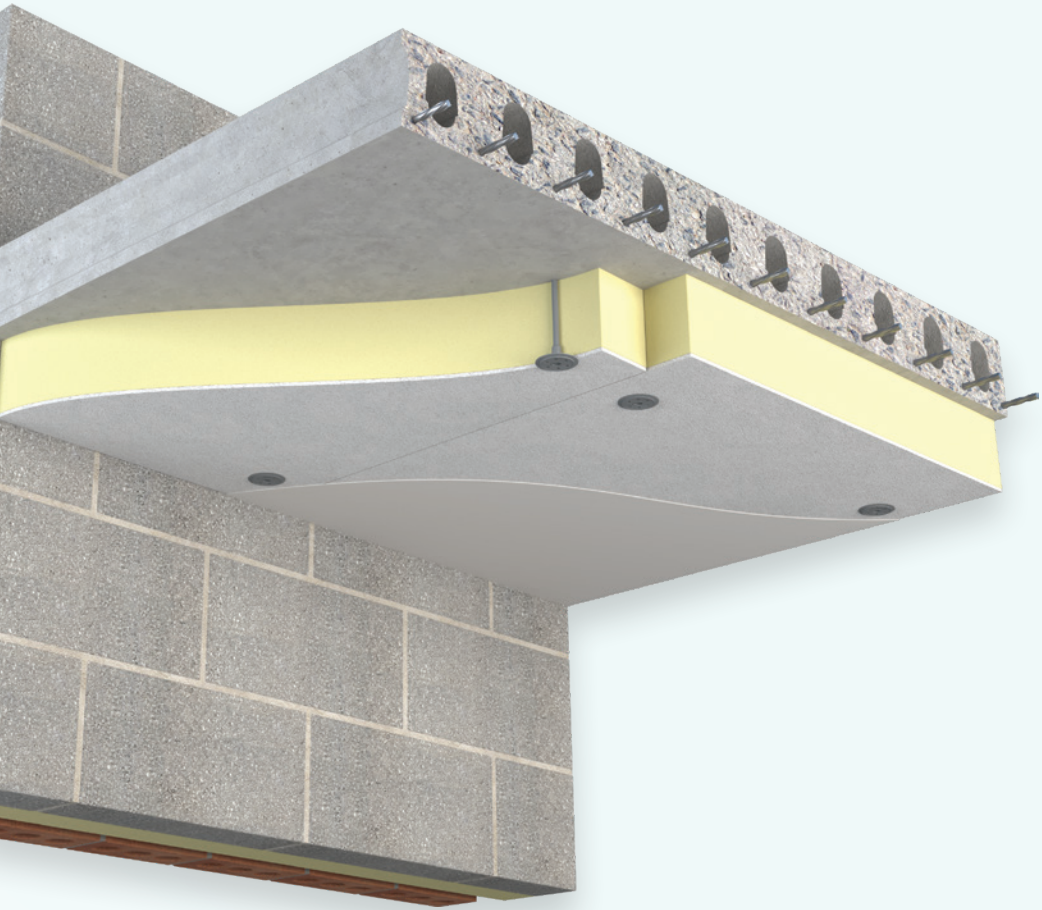


Key Features
Verified EPD is available for the product insulation
Safe access to attic space
High thermal performance
Complies with health and safety guidelines
Easy to install
Lightweight

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



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 low emissivity 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	Low emissivity 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 high performance phenolic insulation board, with low emissivity 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
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 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.

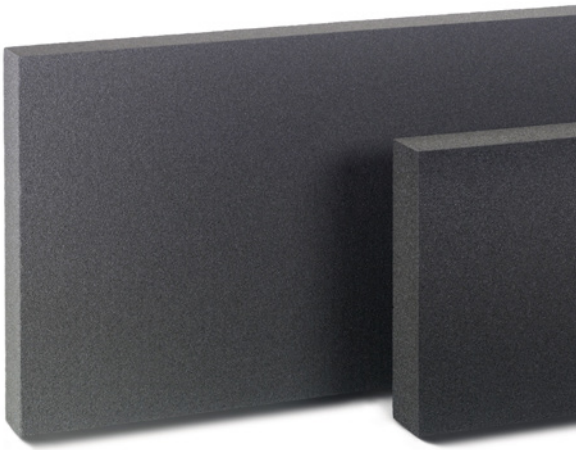
Key Features
Verified EPD is available for the product insulation
High impact resistant 6mm building panel
Reaction to Fire (Euroclass) B-s1, d0
Accepts a decorative finish
Reduced Thermal Bridging
Lower lambda value for improved U-Values

Specifications	
Thermal Conductivity	0.021 W/mK
Facings	Robust 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

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

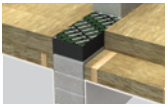
The Passive Solution for thermal breaks including ground floor perimeter, EWI and thresholds.

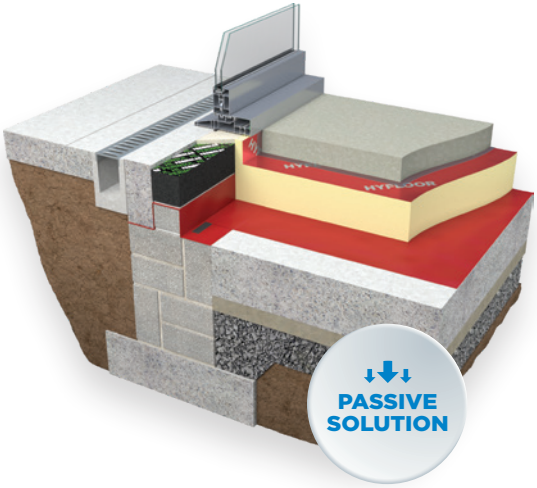
Extensive Range of Applications:


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

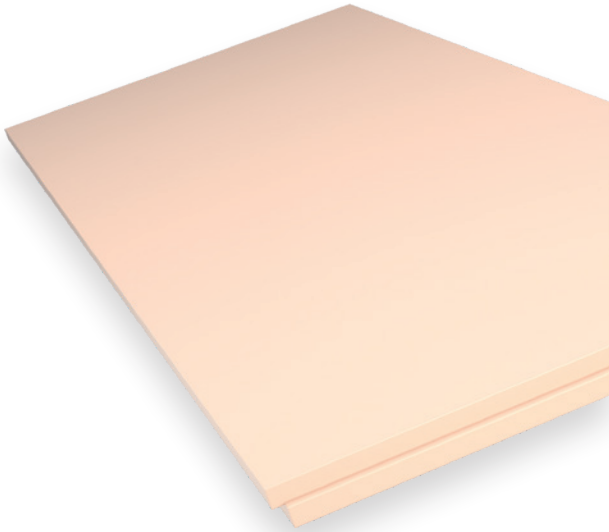
Other thicknesses may be available subject to minimum order quantity and extended lead times.
Please contact your Area Sales Manager for further details

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)

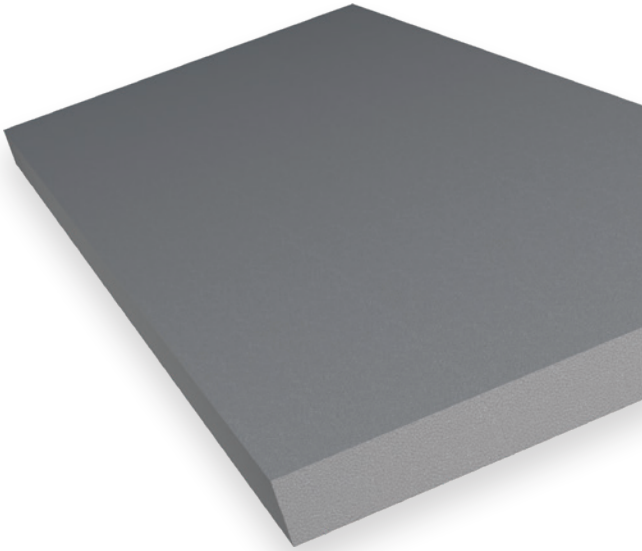
Specifications	
Thermal Conductivity	0.033 - 0.035 (W/mK)*
Board Size	1250 x 600mm
Board Thickness	30, 40, 50, 60, 80, 100, 120mm
Board Profile	Rebated Edge

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 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	

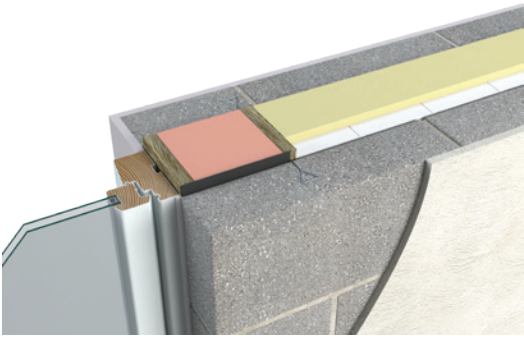
SAFE-R CAVITY CLOSERS

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

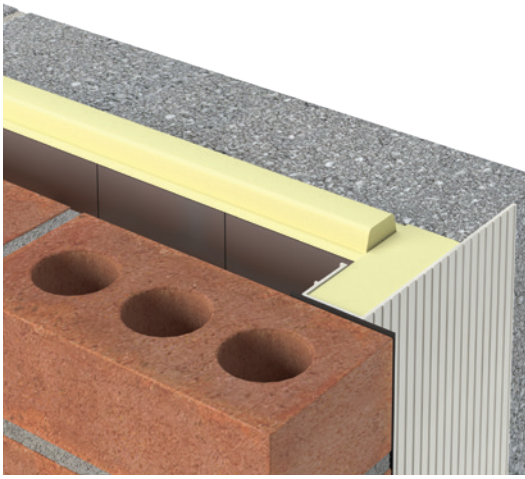
Other thicknesses may be available subject to minimum order quantity and extended lead times.
Please contact your Area Sales Manager for further details
*Please contact our Technical Team for further information

CLOSE-R INSULATED CAVITY CLOSER

CLOSE-R

Unilin Close-R fully insulated cavity closers are a cost effective 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
Saves time and cost effective
Suits 100 - 150mm cavities
Meets new Part L requirements
Available from Builders Merchants

Specifications
For further assistance please contact the Unilin Technical team

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 Hyfloor
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 Hyfloor
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 (4.89m^2)

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 Hyfloor
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 & 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

BBA CERTIFICATE CS/nnnn-4 U Value Competency Scheme

Talk to the Technical Team

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External Specification Team

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Specification Manager
Dublin

Raymond Madden
Specification Manager
South

Francis Rilley
Specification Manager
North

Internal Technical Team

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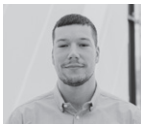
Technical Manager

Mark Magennis
Technical Services Manager

Marc Walsh
Product Management & Development Engineer

Paschal Gallagher
Technical Advisor

Conor Sheppard
Technical Advisor



Gratas Drevinskas
Technical Advisor

Our Dedicated Sales Team

Meet the team who can help you with your project

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North Midlands, Border & West
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UNILIN INSULATION

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, dependent 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.

UNILIN INSULATION

unilininsulation.ie

ECO360

BIO-ENHANCED PIR INSULATION

HIGH THERMAL EFFICIENCY

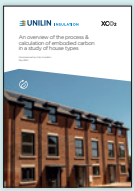
LOW EMBODIED CARBON

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 achieve Climate Challenge 2030 & LETI Targets**
- **Halogen free formulation**
- **Improved thermal performance of 0.020 W/mK**
- **Bio-degradable packaging materials**

Visit the Unilin Insulation website to download our

Embodied Carbon Report



UNILIN INSULATION

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