

PRODUCT HANDBOOK

Insulation for:

Walls

Floors

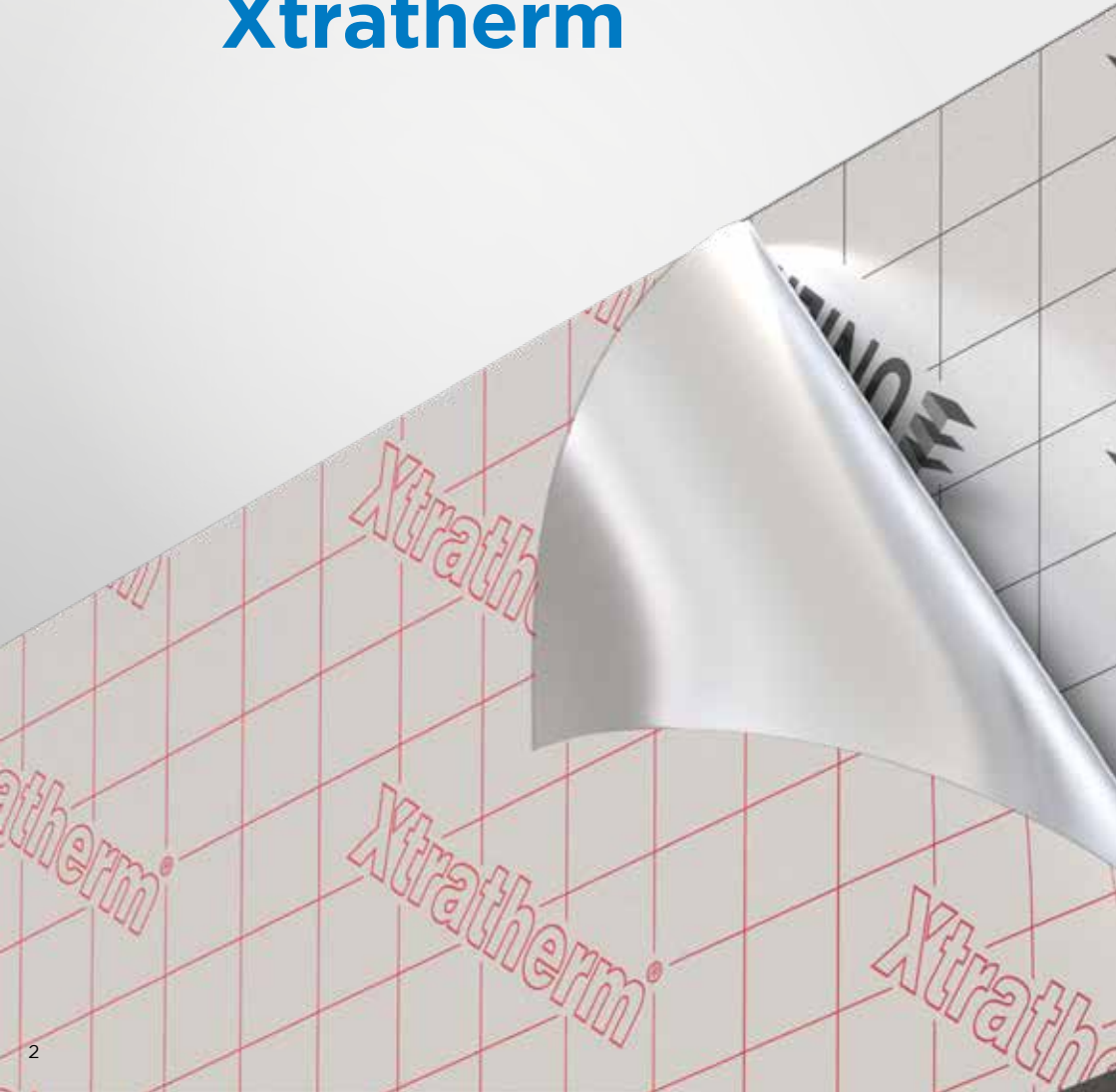
Roofs

Soffit





The new name for
Xtratherm





For over 20 years Xtratherm has been proudly serving the UK 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.co.uk

Designing to Zero

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

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

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

ECO360

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

- ✓ Bio-enhanced formulation
- ✓ Contributes or meets 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 ONEHOME strategy

IGBC
INDIAN 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.



We have just published our new guide for **reaching 0.18 W/m²K in Cavity Walls**

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



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

Full Fill Option

Required Cavity width

110mm
Cavity

Using **CavityTherm**

125mm
Cavity

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

CAVITYTHERM
U-Value =
0.15 to 0.18 W/m²K



Partial Fill Options

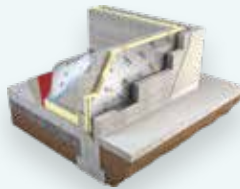
Required Cavity width

140mm
Cavity

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

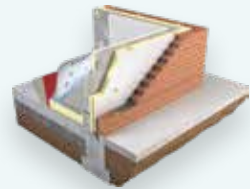
CAVITY WALL PLUS (T&G)

U-Value = 0.17 to 0.18 W/m²K



XTROLLINER CAVITY WALL (T&G)

U-Value = 0.17 to 0.18 W/m²K

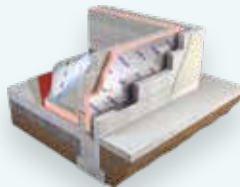


150mm
Cavity

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

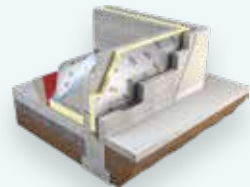
SAFE-R CAVITY WALL

U-Value = 0.15 to 0.16 W/m²K



THIN-R CAVITY WALL (T&G)

U-Value = 0.16 to 0.17 W/m²K



OUR PRODUCTS

Products by Application

WALLS

Built-in Full Fill Walls

ECO/CT Full Fill Cavity Walls*	13
CT/PIR Full Fill Cavity Walls*	15

Partial Fill Cavity Walls

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Framing Walls

SR/FB Framing Board	24
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XT/TF Timber Frame	26

Key

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

*Products are available with engineered jointing for improved continuity and thermal bridging detailing.

ROOFS

Pitched Roofs

ECO/MA (Roofs) Pitched Roof	28
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FLOORS

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Products by Range

ECO360

BIO-ENHANCED
PIR INSULATION

ECO/CT 13

Walls:
Full Fill Cavity Walls

ECO/CW 14

Walls:
Partial Fill Cavity Walls

ECO/MA (Roofs) 28

Roofs:
Pitched Roofs

ECO/MA (Roofs) 29

Roofs:
Sarking Warm
Roof Construction

ECO/MA (Floors) 41

Floors:
Solid & Suspended Floors

XTROLINER

SUPERIOR PERFORMANCE
PIR INSULATION

XO/CW (T&G) 17

Walls:
Partial Fill Cavity Walls

XO/FB 25

Walls:
Steel & Timber Frame

XO/PR 30

Roofs:
Pitched Roofs

XO/SK (T&G) 31

Roofs:
Pitched Roofs

XO/XD 39

Roofs:
Built-up Bituminous
Felt Systems

XO/UF 44

Floors:
Solid & Suspended Floors

XO/STP 51

Soffit:
Soffit Application

CAVITYTHERM

BUILT-IN FULL FILL
PIR WALL INSULATION

CT/PIR 15

Walls:
Full Fill Built-in
Insulation system

SAFE-R

PHENOLIC
INSULATION

SR/CW 18

Walls:
Partial Fill Cavity Walls

SR/FB 24

Walls:
Steel & Timber Frame

SR/PR 33

Roofs:
Pitched Roofs

SR/TB 20

Walls:
Drylining Walls

SR/TB-MF 21

Walls:
Drylining Walls

SR/UF 47

Floors:
Solid & Suspended Floors

SR/ST 49

Soffit:
Soffit Application

SR/STP 50

Soffit:
Soffit Application

THIN-R

PIR
INSULATION

XT/CW (T&G) 19

Walls:
Partial Fill Cavity Walls

XT/TF 26

Walls:
Timber Framed Walls

XT/TL 22

Walls:
Drylining Walls
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XT/TL-MF 23

Walls:
Drylining Walls
Mechanically Fixed

XT/PR_UF (Roofs) 32

Roofs:
Pitched Roof

FR/ALU 35

Roofs:
Mechanically Fixed
Single Ply Waterproofing
Systems

FR/MG 36

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

FR/BGM 37

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

FR/TP 38

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

XT/PR_UF (Floors) 45

Floors:
Ground Supported
& Suspended Floors

XT/Walk-R 46

Floors:
Loft decking

THIN-R PLUS

ENHANCED
PIR INSULATION

XT/CWP (T&G) 16

Walls:
Partial Fill Cavity Walls

Hyffloor (T&G) (XT/HYF) 42

Floors:
Ground Supported
& Suspended Floors

Hyffloor Strip Foundation System 43

Floors:
Ground Supported
& Suspended Floors

XPS

EXTRUDED POLYSTYRENE
INSULATION

XPS 52

Extruded Polystyrene
Insulation

EPS

EXPANDED POLYSTYRENE
INSULATION

Hytherm/Warm-R 53

Expanded Polystyrene
Insulation

CLOSE-R

INSULATED
CAVITY CLOSER

Safe-R Close-R 54

Insulation Accessories

Close-R 55

Insulation Accessories



*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.

WALLS



Built-in Full Fill Walls

■ ECO/CT Full Fill Cavity Walls	13
■ CT/PIR Full Fill Cavity Walls	15

Partial Fill Cavity Walls

■ ECO/CW Partial Fill Cavity Walls	14
■ XT/CWP (T&G) Partial Fill Cavity Walls	16
■ XO/CW (T&G) Partial Fill Cavity Walls	17
■ SR/CW Partial Fill Cavity Walls	18
■ XT/CW Partial Fill Cavity Walls	19

Drylining Walls

■ SR/TB Drylining (Dot & Dab)	20
■ SR/TB-MF Drylining (Mech Fixed)	21
■ XT/TL Drylining (Dot & Dab)	22
■ XT/TL-MF Drylining (Mech Fixed)	23

Framing Walls

■ SR/FB Framing Board	24
■ XO/FB Framing Board	25
■ XT/TF Timber Frame	26

ECO360 BIO-ENHANCED PIR INSULATION

Full Fill Cavity Walls

Lambda
value as low as
0.020 W/mK

WALLS

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

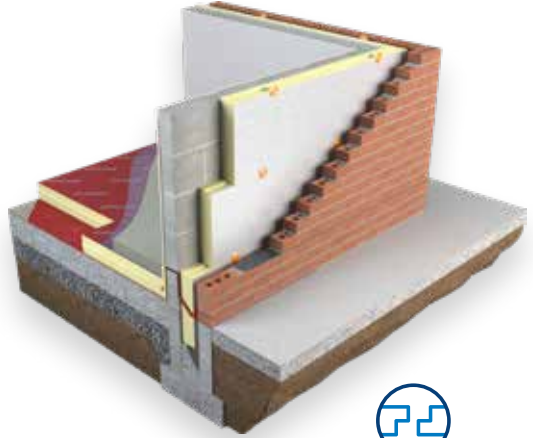
Partial Fill Cavity Walls

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/m²K in a traditional cavity wall. When building with Cavity Wall 360 a residual cavity is maintained, offering excellent protection against wind-driven rain.



Key Features

- Bio-enhanced PIR insulation
- Halogen free
- Enhanced performance 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	Composite Foil/Engineered Hips
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

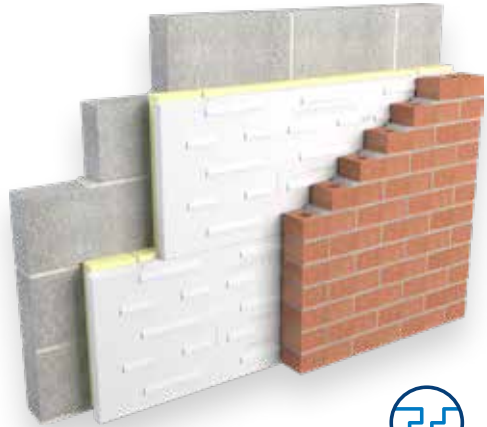
Full Fill Cavity Walls

Lambda
value as low as
0.021 W/mK

WALLS

CT/PIR

CavityTherm is an innovative built-in insulation for traditional walls that achieves Passive level U-Values as low as 0.12 W/m²K with 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

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

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

THIN-R PLUS PIR INSULATION

Partial Fill Cavity Walls

XT/CWP (T&G)

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

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



Key Features

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

Specifications

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

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

XTROLINER SUPERIOR PERFORMANCE PIR INSULATION

Partial Fill Cavity Walls

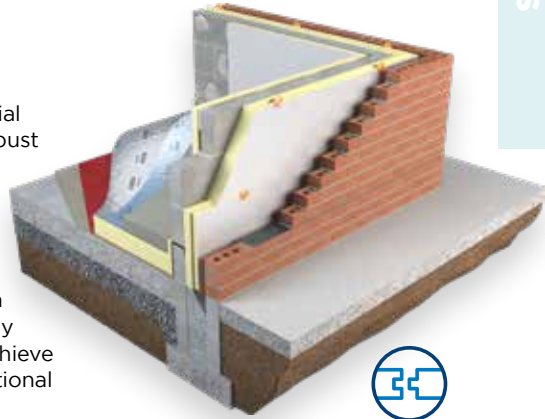
Lambda
value as low as
0.021 W/mK

WALLS

XO/CW (T&G)

XtroLiner Cavity Wall 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 Future Homes Standard, proving an excellent choice for passive and low energy builds. XtroLiner Cavity Wall (T&G) can achieve a passive U-Value of 0.15 W/m²K in a traditional cavity wall. Building with this product, a residual cavity is maintained, offering excellent protection against wind driven rain.



TONGUE
& GROOVE
JOINTING

Key Features

Verified EPD available

Reaction to Fire (Euroclass) C-s2, d0

Engineered Jointing

Preformed Corner Panels

Suitable to be used in conjunction with Cavity Closers Reducing 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	50, 60, 75, 80, 100mm
Board Profile	Tongue & Groove
Preformed Corner	Yes

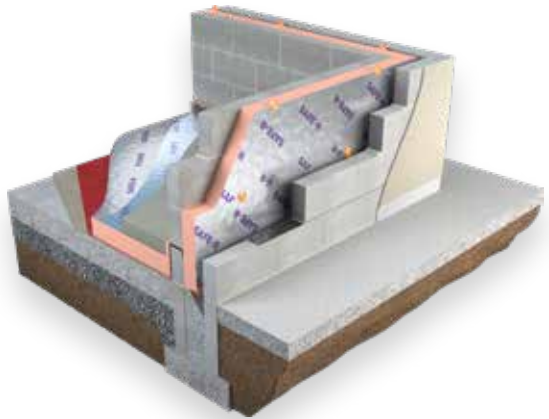
Other thicknesses may be available subject to minimum order quantity and extended lead times.
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Partial Fill Cavity Walls

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

SR/CW

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



Key Features

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

Specifications

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

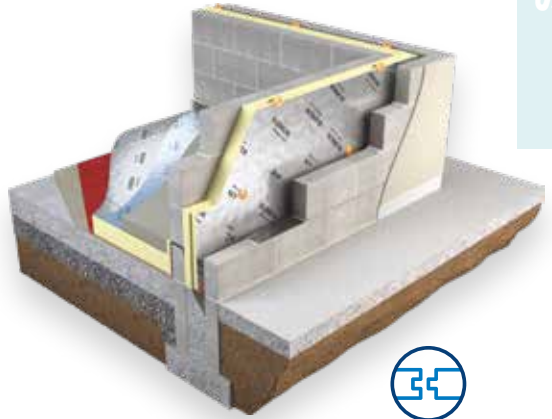
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details

Partial Fill Cavity Walls

XT/CW (T&G)

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

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



Key Features

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

Specifications

BBA Certified 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	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

Drylining Walls Fixed with Adhesive Dabs

SR/TB

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

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



Key Features

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

Specifications

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

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

Drylining Walls – Mechanically Fixed

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

SR/TB-MF

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

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



Key Features

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

Specifications

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

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

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 available
- 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

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

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

THIN-R PIR INSULATION

Drylining Walls – Mechanically Fixed

XT/TL-MF

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



Key Features

- Verified EPD available
- 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

BBA Certified 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

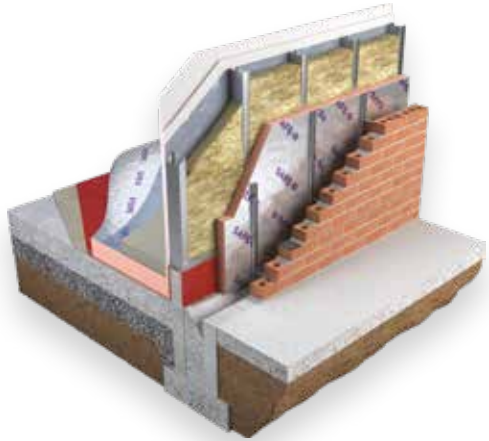
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details

Steel & Timber Frame

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

SR/FB

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

Reaction to Fire (Euroclass) C-s1, d0

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

Lower lambda value for improved U-Values

Reduced Thermal Bridging

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

Specifications

BBA Certified 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

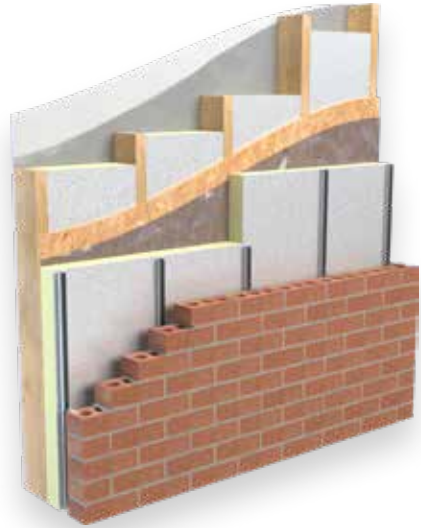
Lambda
value as low as
0.021 W/mK

WALLS

XO/FB

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

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



Key Features

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

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

Specifications

BBA Certified 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

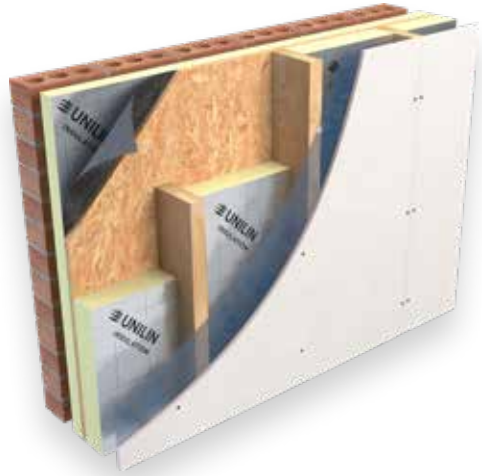
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details

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 Future Homes Standard and Passive House Standards.



Key Features

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

Specifications

BBA Certified 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

■ ECO/MA (Roofs) Pitched Roof	28
■ ECO/MA (Roofs) Sarking Warm Roof Construction	29
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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

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

ECO360 BIO-ENHANCED PIR INSULATION

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

Sarking Warm Roof Construction

ECO/MA

Bio-enhanced, 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.



ROOFS

Key Features

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

Specifications

Thermal Conductivity	0.020 W/mK
Facings	Textured 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

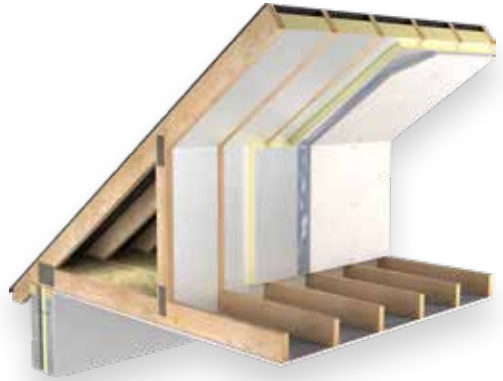
Pitched Roofs

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

BBA Certified 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

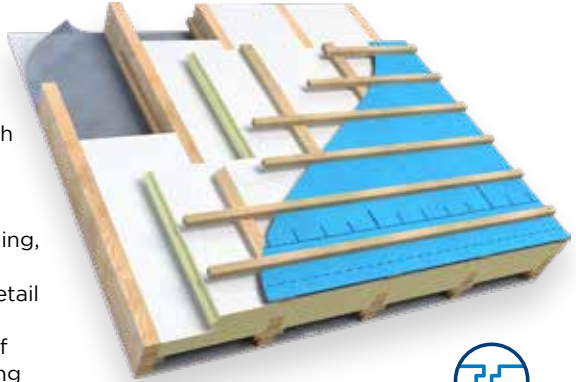
Lambda
value as low as
0.021 W/mK

Sarking Warm Roof Construction

XO/SK (T&G)

XtroLiner Sarking (T&G) is an engineered tongue and grooved external roof insulation system with 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

ROOFS

Key Features

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

Specifications

Thermal Conductivity	0.021 W/mK
Facings	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

BBA Certified 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

Insulation for Pitched Roofs

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

SR/PR

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

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



ROOFS

Key Features

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

Specifications

BBA Certified 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, 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

FLAT ROOFS



Flat Roofs

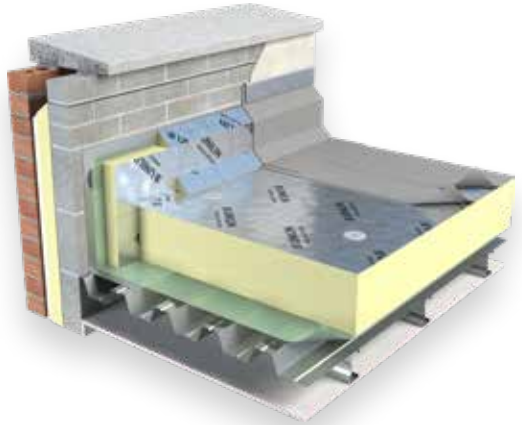
■ FR/ALU Flat Roof	35
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THIN-R PIR INSULATION

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

BBA Certified 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

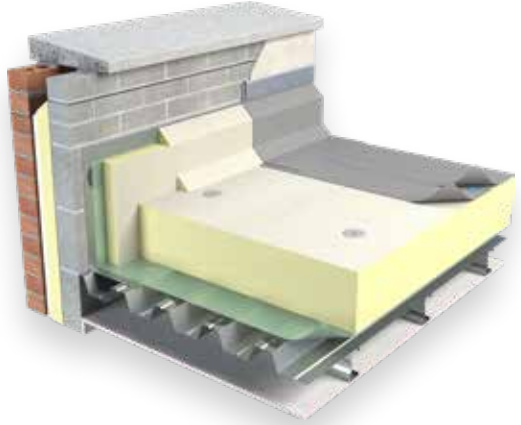
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details

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

BBA Certified 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

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

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

THIN-R PIR INSULATION

Thermal Ply High Performance PIR & Plywood Composite for Flat Roofs

FR/TP

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



Key Features

- Verified EPD available
- 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

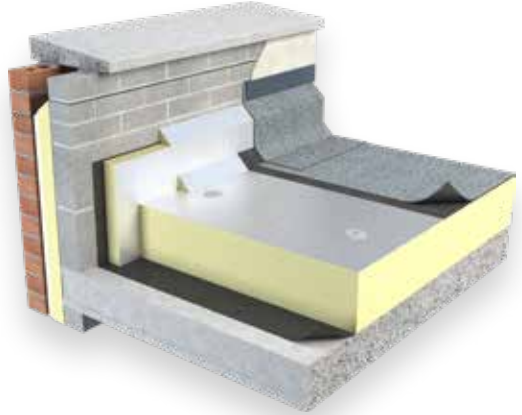
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details

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

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■ Hyfloor (T&G) (XT/HYF)	42
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ECO360 BIO-ENHANCED
PIR INSULATION

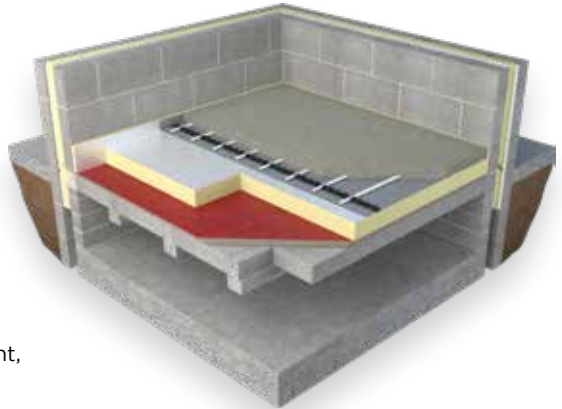
Solid & Suspended Floors

Lambda
value as low as
0.020 W/mK

ECO/MA

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

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



Key Features

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

Specifications

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

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

THIN-R PLUS ENHANCED PIR INSULATION

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

Ground Supported & Suspended Floors

HYFLOOR (T&G) (XT/HYF)

The floor in any building is an area of considerable downward heat loss when not properly insulated. Unilin has developed Hyfloor (T&G) engineered tongue and grooved floor insulation as the answer to achieve lower U-Values - in a practical and robust manner.

Hyfloor (T&G) 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
- Robust tongue and groove jointing
- 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	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 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
- 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

BBA Certified Thermal Conductivity	0.021 W/mK
Facings	Composite foil facings
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

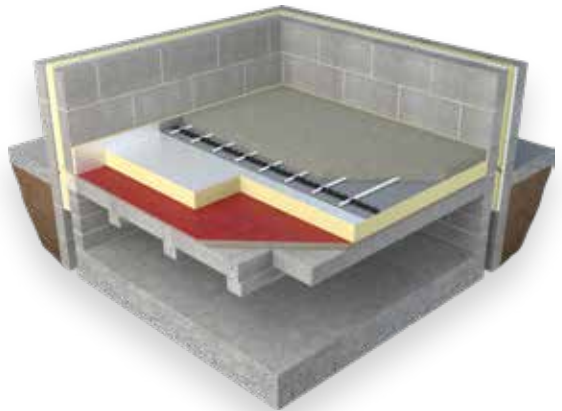
Solid & Suspended Floors

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

BBA Certified 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

BBA Certified 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, 90, 100, 110, 125, 140, 150mm
Board Profile	Square Edge

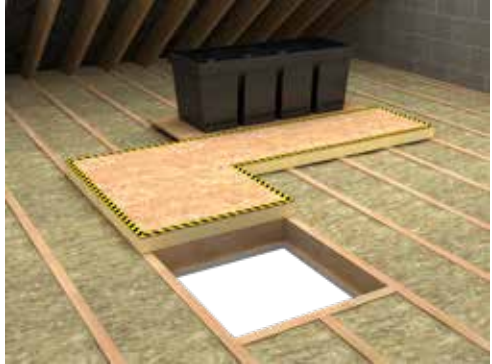
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details

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 available
- 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

SAFE-R PHENOLIC INSULATION

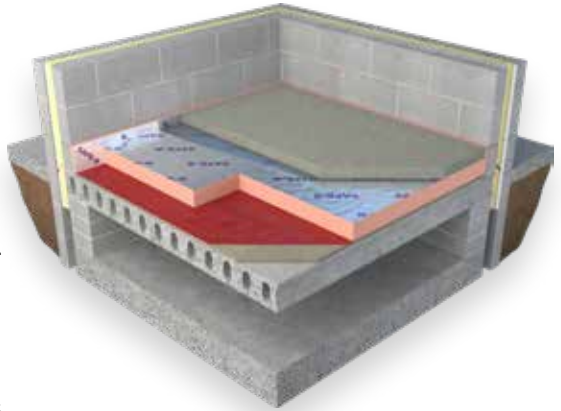
Solid & Suspended Floors

Lambda
value as low as
0.020 W/mK

SR/UF

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

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



Key Features

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

Specifications

BBA Certified Thermal Conductivity	0.020 - 0.021 W/mK
Compressive Strength	CS (10\Y) 120
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

SOFFITS



■ SR/ST Soffit	49
■ SR/STP Soffit	50
■ XO/STP Soffit	51

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 available
- 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
*6mm building panel included in thickness

XTROLINER

SUPERIOR PERFORMANCE
PIR INSULATION

Soffit Application

Lambda
value as low as
0.021 W/mK

XO/STP

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

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



Key Features

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

Specifications

BBA Certified 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
*6mm building panel included in thickness

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

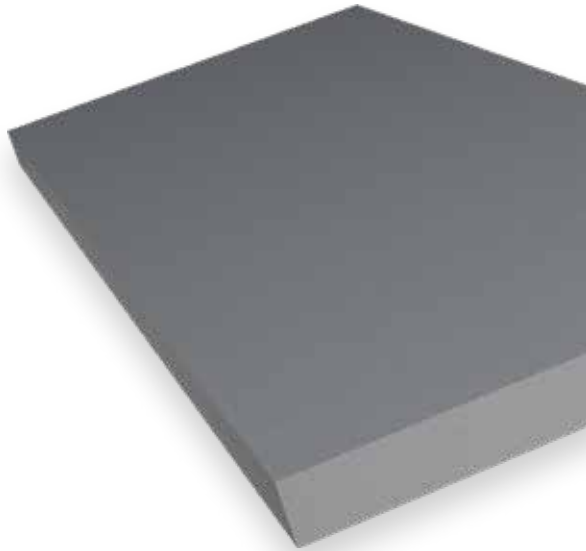
XPS 300 available in 140mm and 160mm subject to quantity and lead time.

*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	

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

SAFE-R CAVITY CLOSERS

SAFE-R CLOSE-R

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

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

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

TESTED TO
EN 1366-4
COMPLIANT SYSTEM



Key Features

Verified EPD available

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.

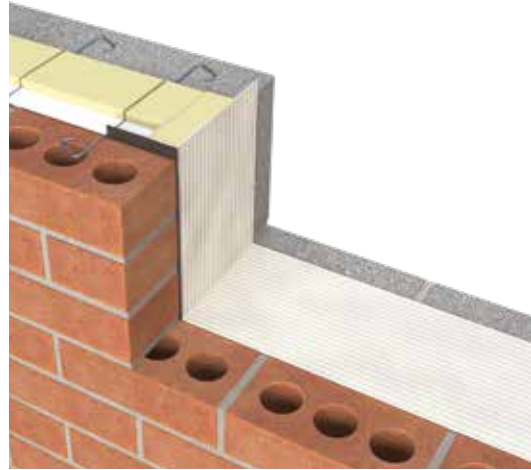
*Please contact our technical team for further information

CLOSE-R INSULATED CAVITY CLOSER

CLOSE-R

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

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



Key Features

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

Specifications

For further assistance please contact the Unilin Technical team

Support for Builders

where and when
you need it.

We continue to offer personal support through one-to-one consultations to ensure we are always available to assist builders, specifiers and stockists. We also offer CPD Training and online instruction to achieve best practice on your projects.

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

Sales: 0371 222 1033

Technical: 0371 222 1055

unilininsulation.co.uk

Handling, Cutting & Storage

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

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

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

Durability

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



Remote Support & Immediate Callback

Technical Team

We provide an immediate callback facility available when your staff 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.

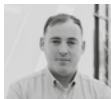
We hold the BRE thermal modelling competency scheme qualification within the UK.

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

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



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