

# PRODUCT HANDBOOK

Insulation for:

**Walls**

**Floors**

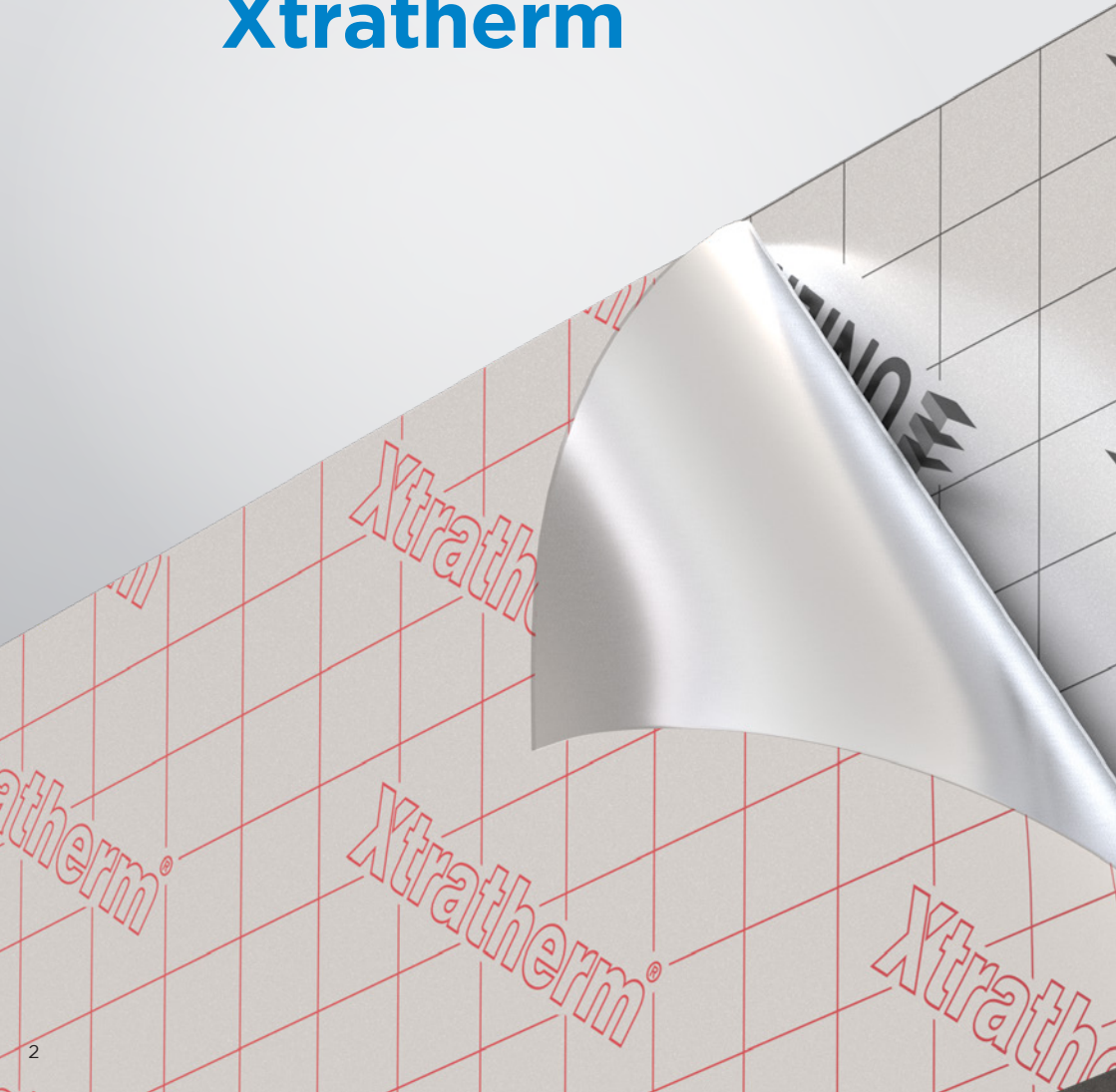
**Roofs**

**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.**

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Find out more on  
**[unilininsulation.co.uk](https://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
- ✓ 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 ONEHOME strategy



## Four Focus Areas



### Product

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



### People

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



### Place

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



### Partnership

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



# We have just published our new guide for **reaching 0.18 W/m<sup>2</sup>K in Cavity Walls**

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





# Our solutions to reaching a U-Value of 0.18 W/m<sup>2</sup>K

## Full Fill Option

Required Cavity width

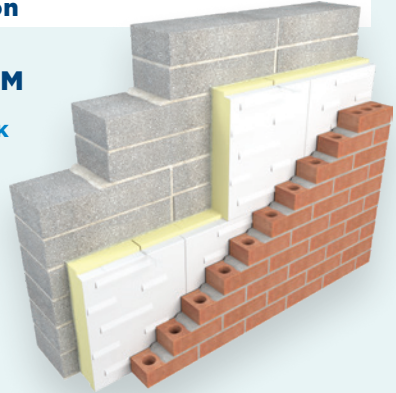
**110mm**  
Cavity

Using **CavityTherm**

**125mm**  
Cavity

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

**CAVITYTHERM**  
U-Value =  
0.15 to 0.18 W/m<sup>2</sup>K



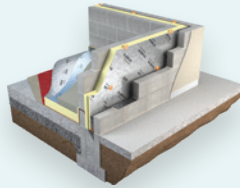
## Partial Fill Options

Required Cavity width

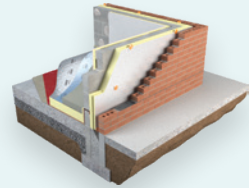
**140mm**  
Cavity

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

**CAVITY WALL PLUS (T&G)**  
U-Value = 0.17 to 0.18 W/m<sup>2</sup>K



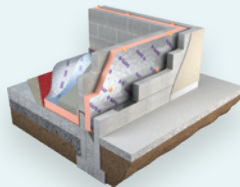
**XTROLINER CAVITY WALL (T&G)**  
U-Value = 0.17 to 0.18 W/m<sup>2</sup>K



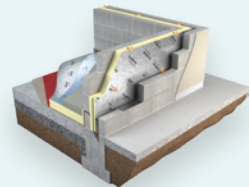
**150mm**  
Cavity

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

**SAFE-R CAVITY WALL**  
U-Value = 0.15 to 0.16 W/m<sup>2</sup>K



**THIN-R CAVITY WALL (T&G)**  
U-Value = 0.16 to 0.17 W/m<sup>2</sup>K



# OUR PRODUCTS

## Products by Application

### WALLS

#### Built-in Full Fill Walls

ECO/CT Full Fill Cavity Walls*	13
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#### Partial Fill Cavity Walls

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#### Drylining Walls

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#### Framing Walls

SR/FB Framing Board	24
XO/FB Framing Board	25
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
ECO/MA (Roofs) Sarking Warm Roof Construction	29
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#### Solid & Suspended Floors

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#### SOFFITS

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XO/STP Soffit	51

## 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  
Dot & Dab

#### 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 (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

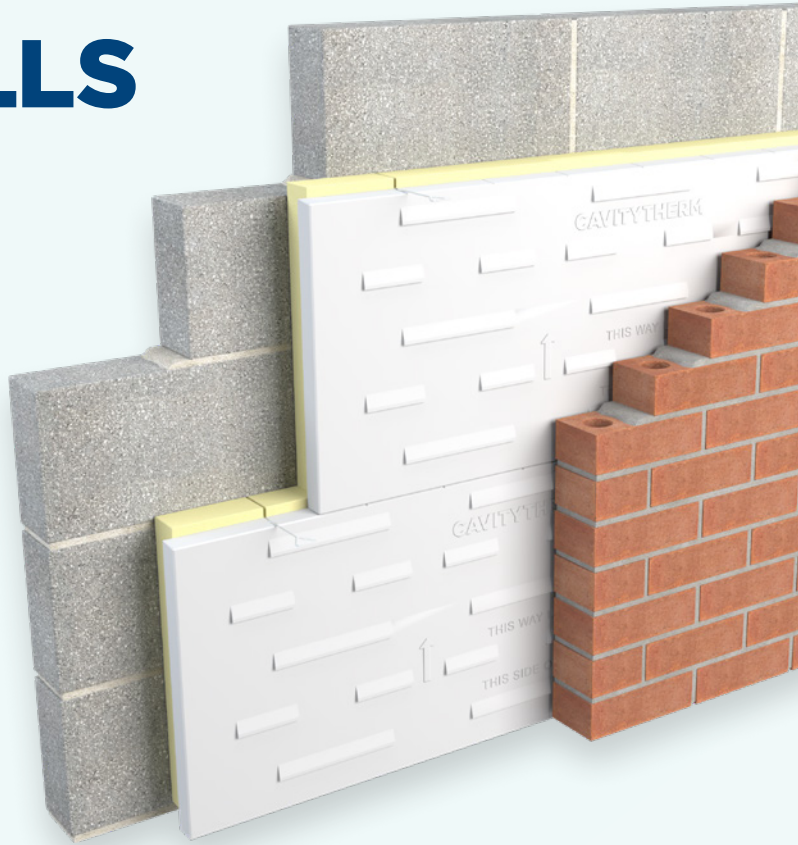
Insulation Accessories



\*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 (T&G) 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

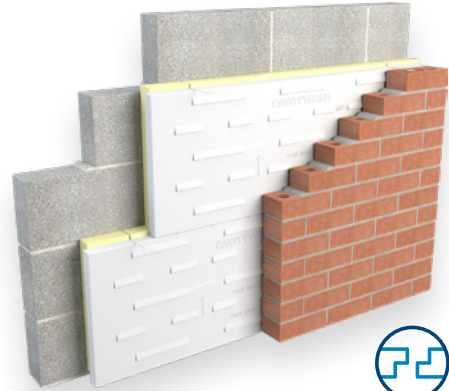
# ECO360 BIO-ENHANCED PIR INSULATION Full Fill Cavity Walls

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

## 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 thermal conductivity as low as 0.020 W/mK for full fill cavity wall applications.



### 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

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

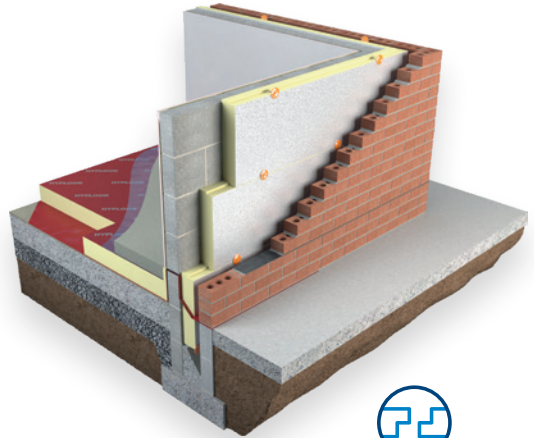
## Partial Fill Cavity Walls

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<sup>2</sup>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

<b>Thermal Conductivity</b>	0.020 W/mK
<b>Facings</b>	Robust low emissivity foil facings
<b>Core</b>	Bio-enhanced PIR Insulation
<b>Board Size</b>	1200mm x 450mm
<b>Board Thickness</b>	100, 110mm
<b>Board Profile</b>	Rebate Edge
<b>Preformed Corner</b>	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

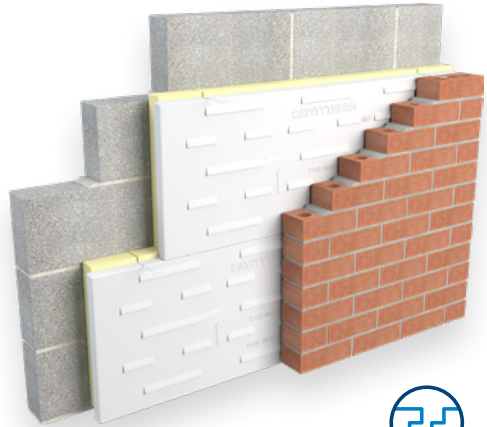
BUILT-IN FULL FILL  
PIR WALL INSULATION

## 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 0.12 W/m<sup>2</sup>K 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

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

Other thicknesses may be available subject to minimum order quantity and extended lead times.  
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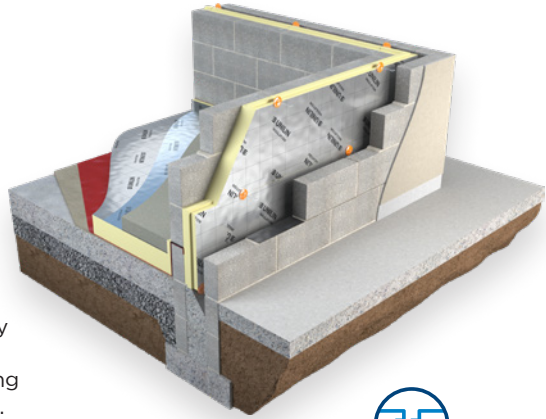
# THIN-R PLUS PIR INSULATION

## 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 an excellent 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

<b>Thermal Conductivity</b>	0.021 W/mK
<b>Facings</b>	Low emissivity foil facings
<b>Core</b>	Enhanced PIR Insulation
<b>Board Size</b>	1200mm x 450mm
<b>Board Thickness</b>	50, 60, 70, 75, 80, 100mm
<b>Board Profile</b>	Tongue & Groove
<b>Preformed Corner</b>	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<sup>®</sup> SUPERIOR PERFORMANCE PIR INSULATION

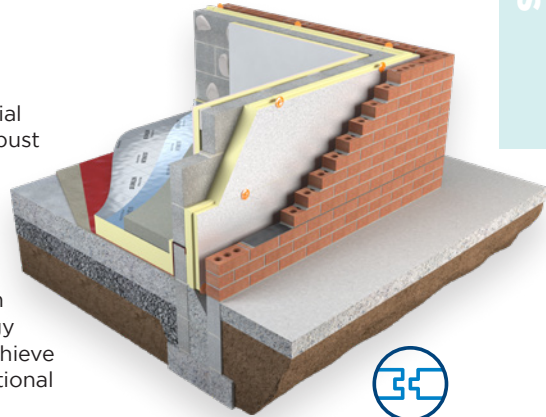
## Partial Fill Cavity Walls

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

### 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 thermal conductivity 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/m<sup>2</sup>K 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

<b>Thermal Conductivity</b>	0.021 W/mK
<b>Facings</b>	Robust low emissivity foil facings
<b>Core</b>	Superior Performance PIR Insulation
<b>Board Size</b>	1200mm x 450mm
<b>Board Thickness</b>	50, 60, 75, 80, 100mm
<b>Board Profile</b>	Tongue & Groove
<b>Preformed Corner</b>	Yes

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

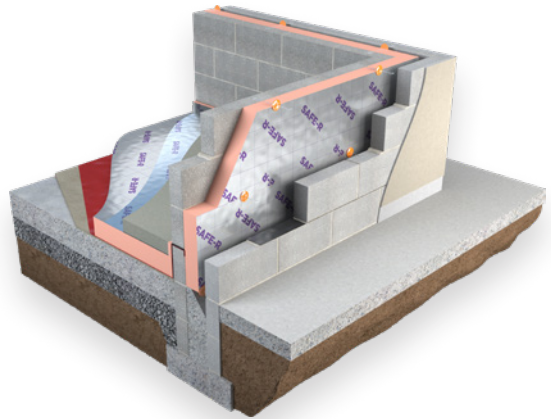
**SAFE-R** PHENOLIC INSULATION

## Partial Fill Cavity Walls

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

### SR/CW

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



### Key Features

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

### Specifications

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

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

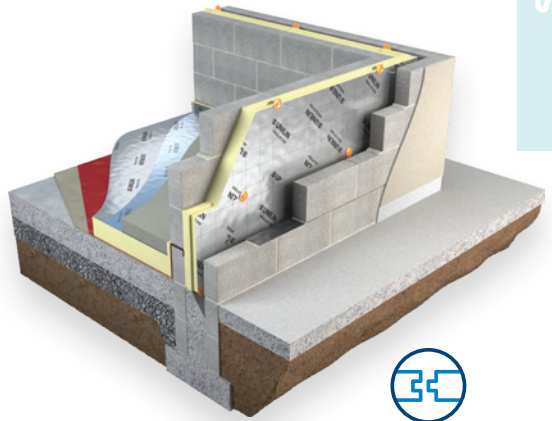
# THIN-R PIR INSULATION

## Partial Fill Cavity Walls

### XT/CW (T&G)

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

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



### Key Features

- 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

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

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

**SAFE-R** PHENOLIC  
INSULATION

# Drylining Walls Fixed with Adhesive Dabs

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

## SR/TB

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

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



## Key Features

A verified EPD is available for the product insulation

Reaction to Fire (Euroclass) B-s1, d0

Responsive insulation system

High levels of insulation and drylining in one fix

Suitable for new build and renovation

## Specifications

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

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

**SAFE-R** PHENOLIC INSULATION

# Drylining Walls – Mechanically Fixed

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

## SR/TB-MF

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

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



### Key Features

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

### Specifications

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

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

**THIN-R** PIR INSULATION

## Drylining Walls Fixed with Adhesive Dabs

**XT/TL**

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

**Key Features**

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

**Specifications**

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

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

# THIN-R PIR INSULATION

## Drylining Walls – Mechanically Fixed

### XT/TL-MF

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



### Key Features

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

### Specifications

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

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

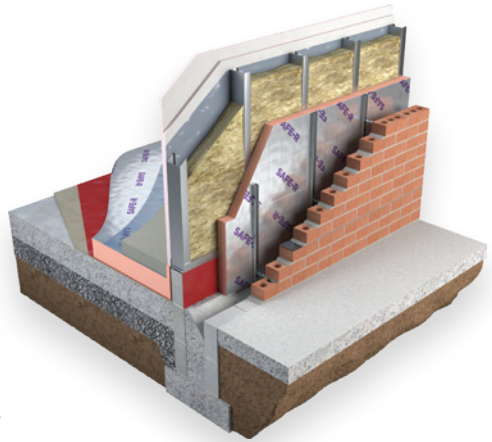
**SAFE-R** PHENOLIC INSULATION

# Steel & Timber Frame

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

## SR/FB

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

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

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



# XTROLINER

SUPERIOR PERFORMANCE  
PIR INSULATION

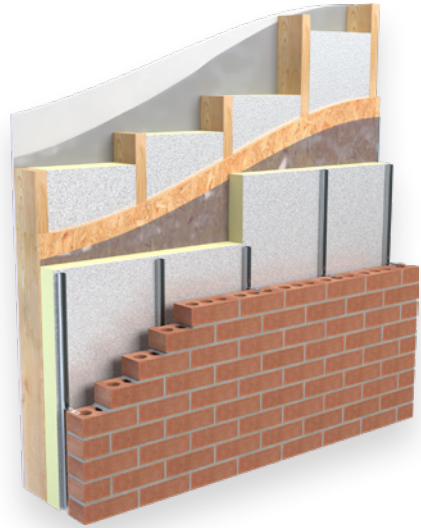
## Steel & Timber Frame

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

### XO/FB

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

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



### Key Features

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

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

### Specifications

<b>Thermal Conductivity</b>	0.021 W/mK
<b>Facings</b>	Robust low emissivity foil facings
<b>Core</b>	Superior Performance PIR Insulation
<b>Board Size</b>	2400mm x 1200mm
<b>Board Thickness</b>	50, 60, 75, 80, 100, 120, 140mm
<b>Board Profile</b>	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

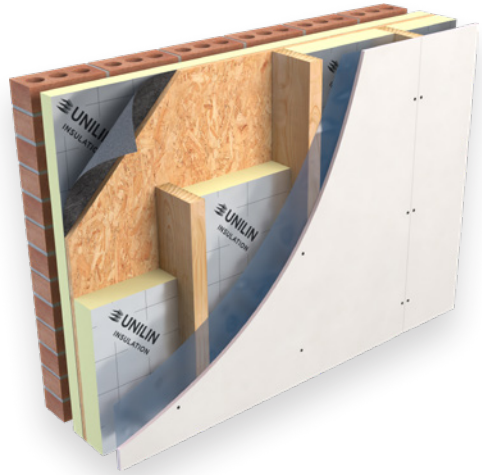
# THIN-R<sup>PIR</sup> INSULATION

## 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 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

<b>Thermal Conductivity</b>	0.022 W/mK
<b>Facings</b>	Low emissivity foil facings
<b>Core</b>	PIR Insulation
<b>Board Size</b>	2400mm x 1200mm
<b>Board Thickness</b>	25, 30, 40, 50, 60, 70, 75, 80, 90, 100, 110, 125, 150mm
<b>Board Profile</b>	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
■ XO/PR Pitched Roof	30
■ XO/SK (T&G) Sarking	31
■ XT/PR_UF (Roofs) Pitched Roof	32
■ SR/PR Pitched Roof	33

# ECO360 BIO-ENHANCED PIR INSULATION

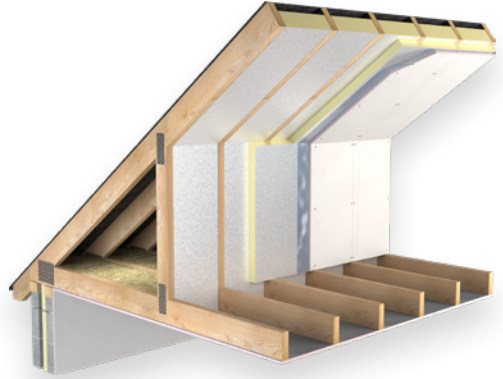
## Pitched Roofs

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

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

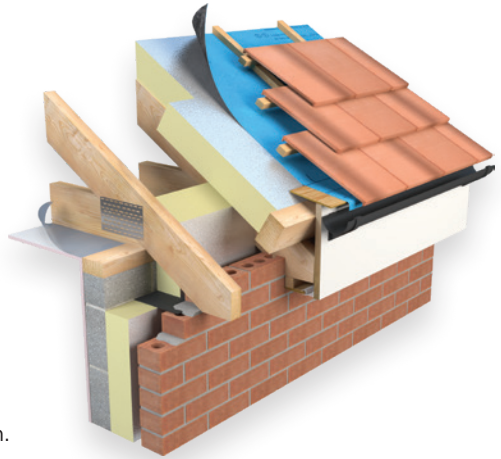
Lambda value as low as **0.020 W/mK**

# Sarking Warm Roof Construction

## ECO/MA

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

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



ROOFS

### Key Features

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

### Specifications

<b>Thermal Conductivity</b>	0.020 W/mK
<b>Facings</b>	Textured robust low emissivity foil facings
<b>Core</b>	Bio-enhanced PIR Insulation
<b>Board Size</b>	2400mm x 1200mm
<b>Board Thickness</b>	100, 125, 150mm
<b>Board Profile</b>	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

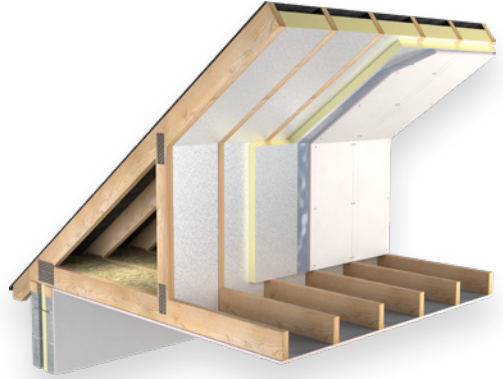
## Pitched Roofs

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

<b>Thermal Conductivity</b>	0.021 W/mK
<b>Facings</b>	Robust low emissivity foil facings
<b>Core</b>	Superior Performance PIR Insulation
<b>Board Size</b>	2400mm x 1200mm
<b>Board Thickness</b>	25, 40, 50, 60, 70, 75, 80, 100, 120mm
<b>Board Profile</b>	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

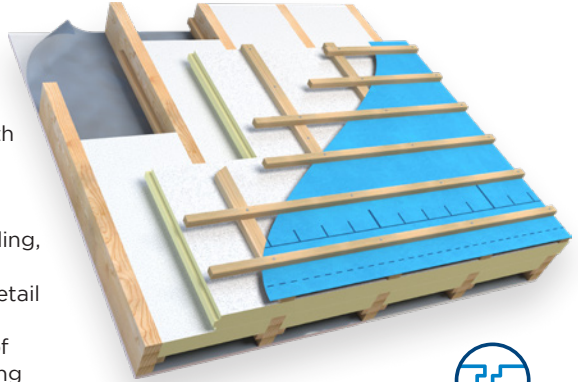
Lambda  
value as low as  
**0.021 W/mK**

# 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/m<sup>2</sup>K.

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

<b>Thermal Conductivity</b>	0.021 W/mK
<b>Facings</b>	Robust low emissivity foil facings
<b>Core</b>	Superior Performance PIR Insulation
<b>Board Size</b>	2400mm x 1200mm
<b>Board Thickness</b>	50, 75, 100, 125mm
<b>Board Profile</b>	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

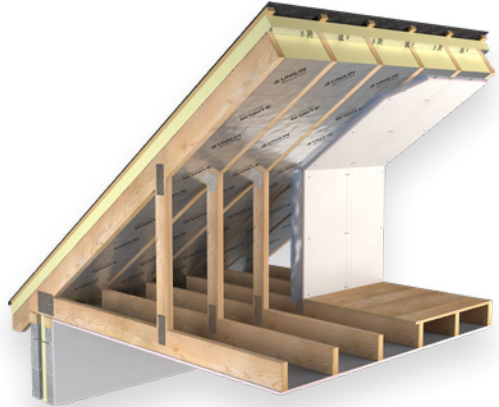
# THIN-R PIR INSULATION

## 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 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

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

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



**SAFE-R** PHENOLIC INSULATION

# Insulation for Pitched Roofs

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

## SR/PR

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

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



ROOFS

### Key Features

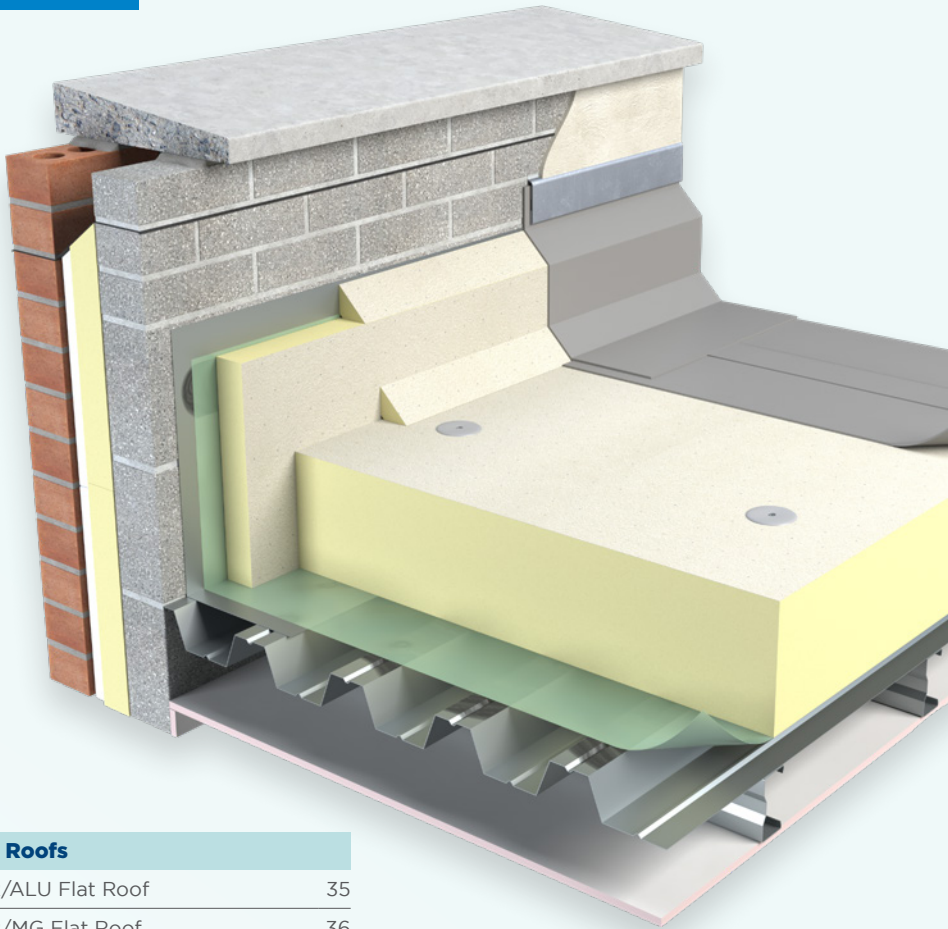
- Verified EPD available
- Reaction to Fire (Euroclass) C-s1, d0
- Avoids intrusion into living Area
- Reduced risk of condensation
- Lightweight and easy to install
- Reduced Thermal Bridging

### Specifications

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

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

# FLAT ROOFS



## Flat Roofs

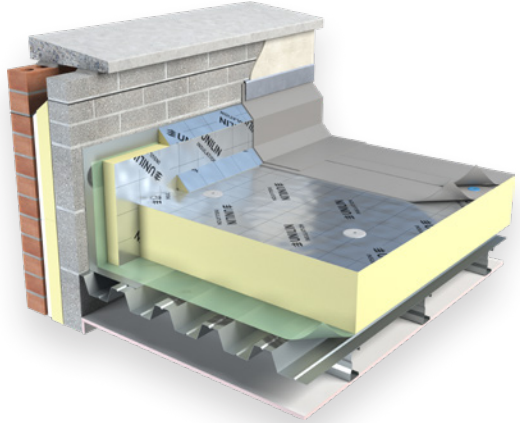
■ FR/ALU Flat Roof	35
■ FR/MG Flat Roof	36
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■ FR/TP Thermal Ply	38
■ XO/XD Flat Roof	39

# 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

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

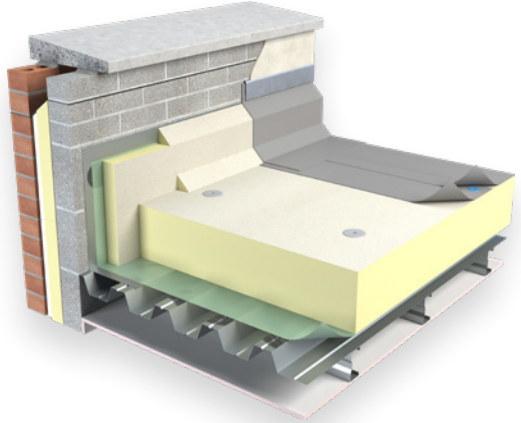
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details

# THIN-R<sup>PIR</sup> 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

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

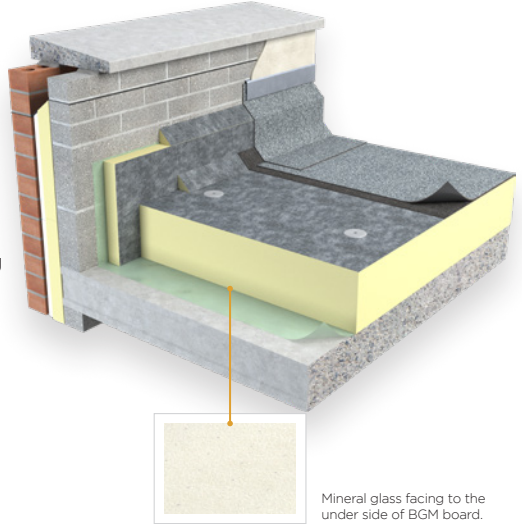
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details

# 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

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

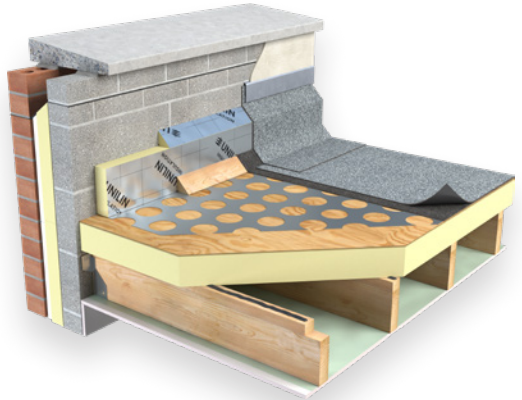
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details

# THIN-R PIR INSULATION

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

### FR/TP

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



### Key Features

A verified EPD is available for the product insulation

Insulation & decking in one fix

For new & refurbishment roofs

Rapid weather proofing

### Specifications

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

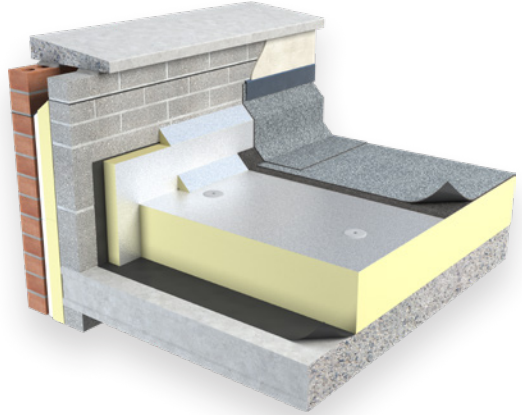
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details

**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.



ROOFS

**Key Features**

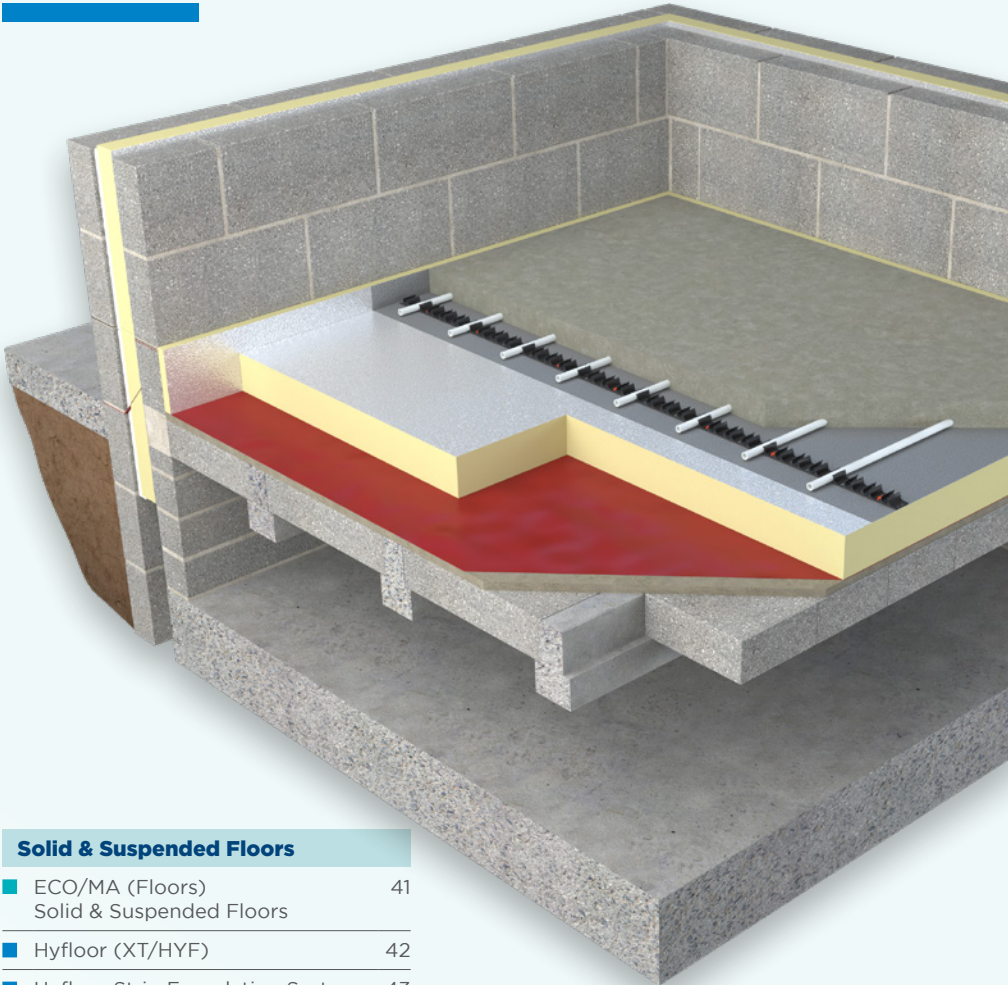
- Verified EPD available
- Reaction to Fire (Euroclass) C-s2, d0
- Superior Performance PIR Insulation
- Compatible with most bituminous based roofing systems containing self adhered underlays with heat activated cap sheets

**Specifications**

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

■ ECO/MA (Floors) Solid & Suspended Floors	41
■ Hyfloor (XT/HYF)	42
■ Hyfloor Strip Foundation System	43
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■ XT/Walk-R	46
■ SR/UF	47



**ECO360** BIO-ENHANCED  
PIR INSULATION

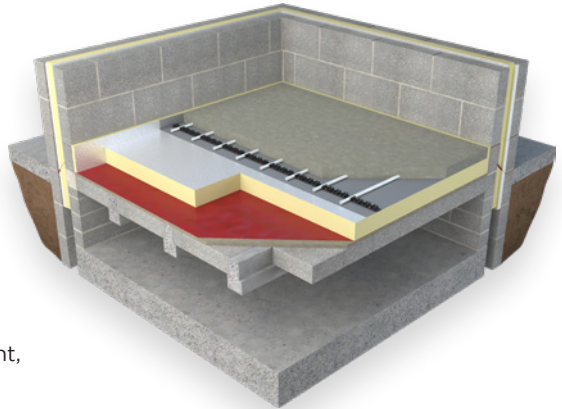
## Solid &amp; Suspended Floors

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**

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

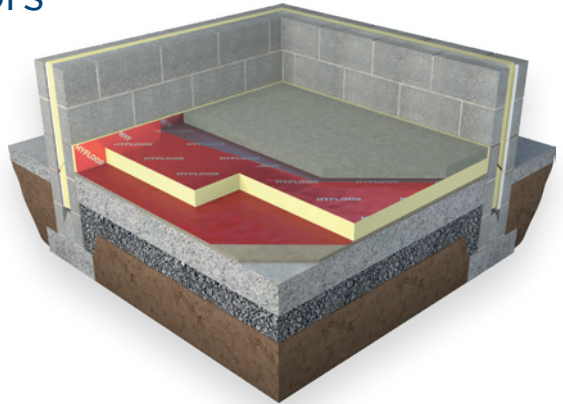
Lambda value as low as **0.021 W/mK**

## Ground Supported & Suspended Floors

### HYFLOOR (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

<b>Thermal Conductivity</b>	0.021 W/mK
<b>Compressive Strength</b>	CS (10\Y) 150
<b>Facings</b>	Composite Foil/Engineered Hips
<b>Core</b>	Enhanced PIR Insulation
<b>Board Size</b>	2400mm x 1200mm
<b>Board Thickness</b>	75, 100, 125, 150mm
<b>Board Profile</b>	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

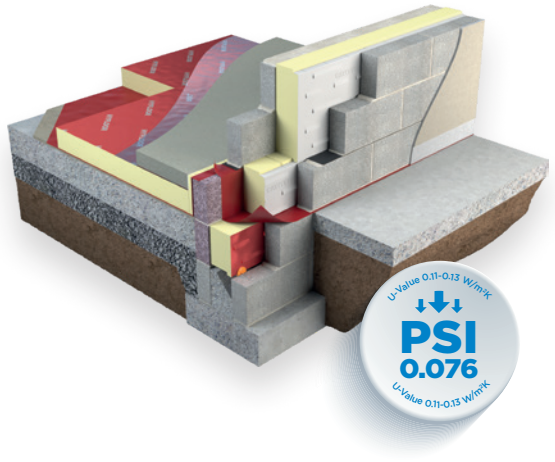
# THIN-R PLUS ENHANCED PIR INSULATION

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

## Ground Supported & Suspended Floors

### HYFLOOR 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/m<sup>2</sup>k
- 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

<b>Thermal Conductivity</b>	0.021 W/mK
<b>Facings</b>	Robust low emissivity foil facings
<b>Core</b>	Enhanced PIR Insulation
<b>Board Size</b>	225mm & 450mm (H)
<b>Board Thickness</b>	75, 100, 125, 150mm
<b>Board Profile</b>	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

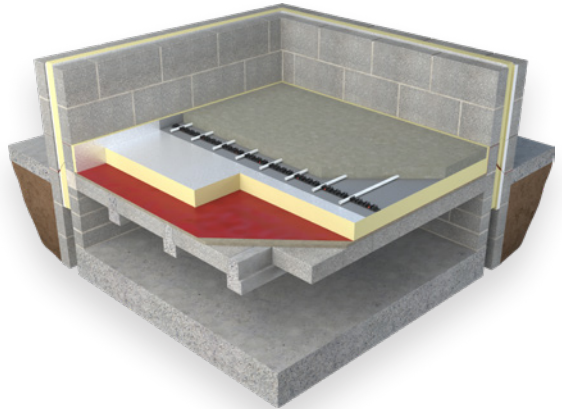
## Solid & Suspended Floors

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

<b>Thermal Conductivity</b>	0.021 W/mK
<b>Compressive Strength</b>	CS (10\Y) 150
<b>Facings</b>	Robust low emissivity foil facings
<b>Core</b>	Superior Performance PIR Insulation
<b>Board Size</b>	2400mm x 1200mm
<b>Board Thickness</b>	50, 60, 75, 80, 100, 120, 150mm
<b>Board Profile</b>	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

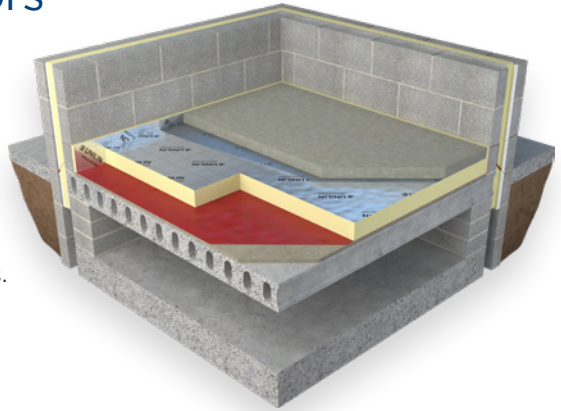
# THIN-R PIR INSULATION

## 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

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

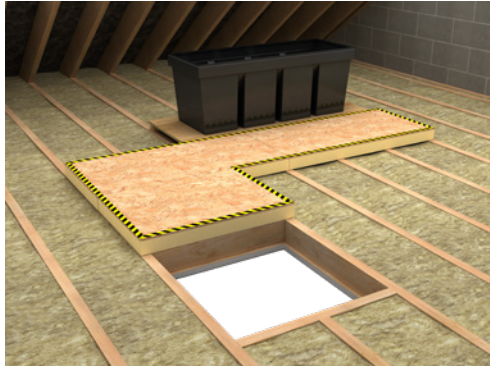
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details

# THIN-R PIR INSULATION

## Insulated Loft Decking

### XT/WALK-R

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



#### Key Features

A verified EPD is available for the product insulation

Safe access to attic space

High thermal performance

Complies with health and safety guidelines

Easy to install

Lightweight

#### Specifications

<b>Thermal Conductivity</b>	0.022 W/mK
<b>Compressive Strength</b>	CS (10\Y) 150
<b>Facings</b>	Low emissivity foil facings/OSB Board
<b>Core</b>	PIR Insulation
<b>Board Size</b>	1200mm x 600mm
<b>Board Thickness</b>	86mm (75mm PIR + 11mm OSB Board)
<b>Board Profile</b>	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

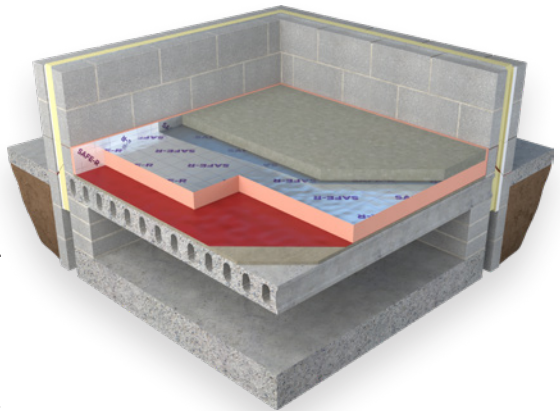
# Solid & Suspended Floors

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

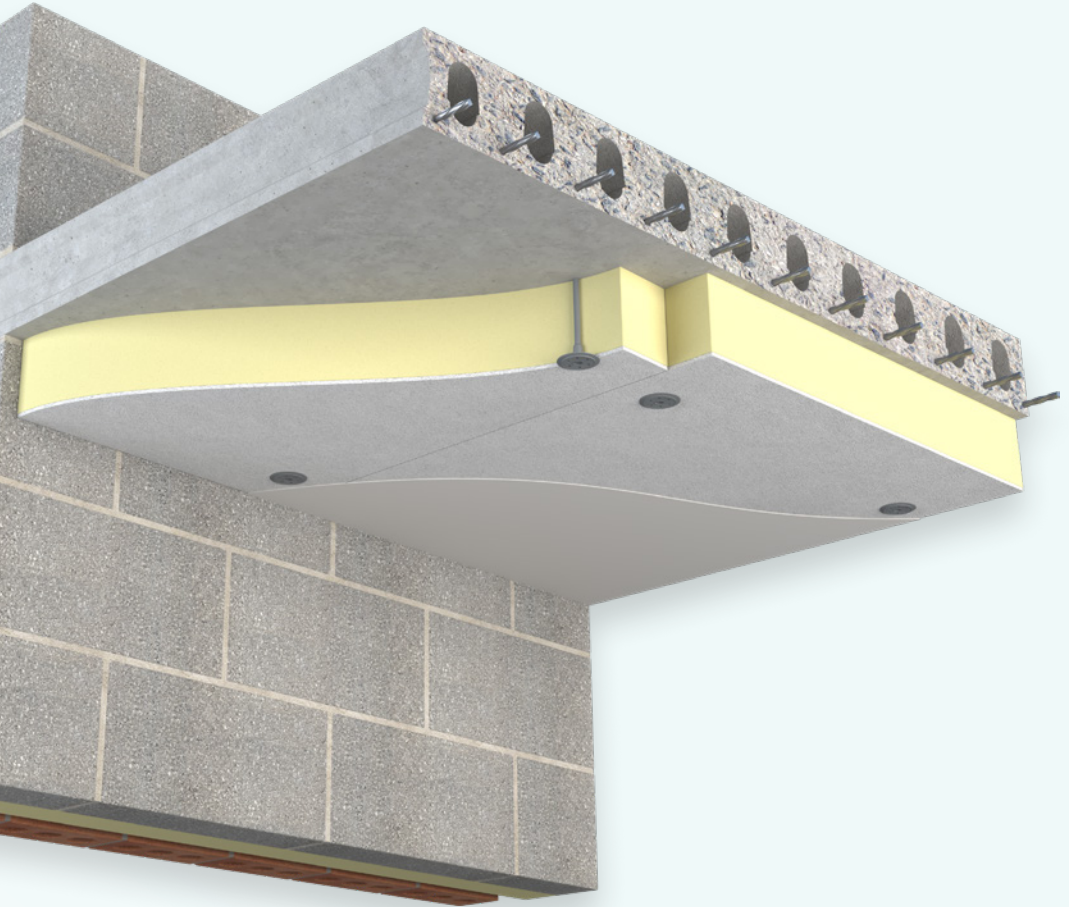
### Specifications

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

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

# SOFFITS

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■ 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

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

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

# SAFE-R PHENOLIC INSULATION

## Soffit Application

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

### SR/STP

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

The high performance phenolic insulation board, with 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

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

### Specifications

<b>Thermal Conductivity</b>	0.020 - 0.021 W/mK
<b>Facings</b>	Composite foil/6mm building panel
<b>Core</b>	Phenolic Insulation
<b>Board Size</b>	2400mm x 1200mm
<b>Board Thickness*</b>	56, 66, 81, 86, 106, 126mm
<b>Board Profile</b>	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  
 Thermal conductivity may vary with thickness

# XTROLINER

SUPERIOR PERFORMANCE  
PIR INSULATION

## Soffit Application

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

### XO/STP

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

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



### Key Features

A verified EPD is available for the product insulation

Reaction to Fire (Euroclass) B-s1,d0

High impact resistant 6mm building panel

Accepts a decorative finish

Reduced Thermal Bridging

Lower lambda value for improved U-Values

### Specifications

<b>Thermal Conductivity</b>	0.021 W/mK
<b>Facings</b>	Robust foil facings/6mm building panel
<b>Core</b>	Superior Performance PIR Insulation
<b>Board Size</b>	2400mm x 1200mm
<b>Board Thickness*</b>	56, 66, 81, 86, 106, 126mm
<b>Board Profile</b>	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

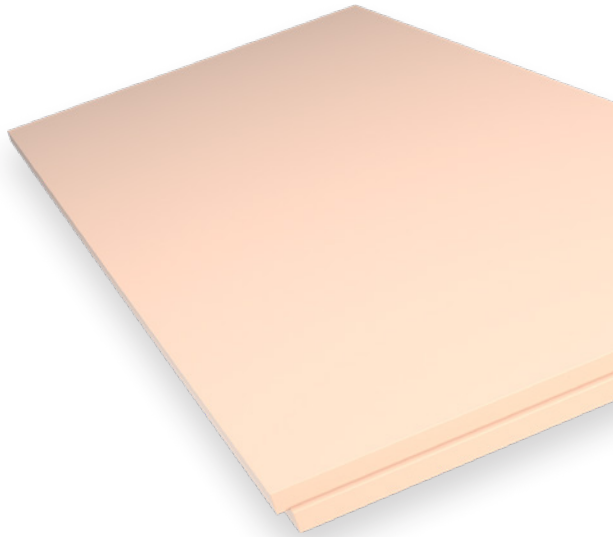
# XPS

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

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

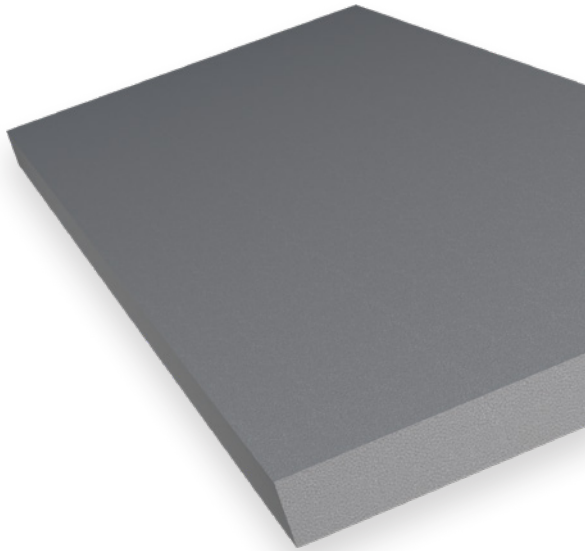
XPS 300 available in 140mm and 160mm subject to quantity and lead time.

\*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

<b>Thermal Conductivity</b>	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
<b>Core</b>	Expanded Polystyrene	
<b>Board Size</b>	2400mm x 1200mm	
	1800mm x 1200mm	
<b>Board Thickness</b>	Various	
<b>Board Profile</b>	Straight Edge	

\*Thermal conductivity is dependent on product thickness

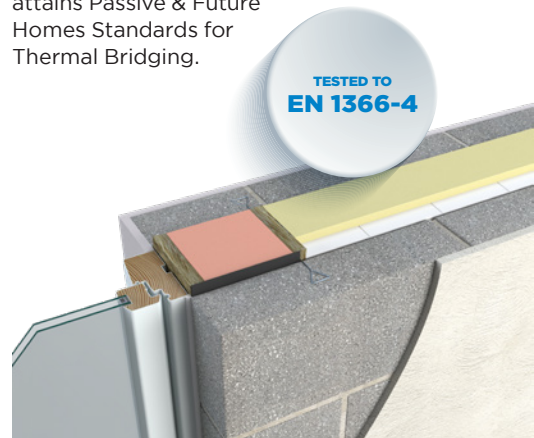
# SAFE-R CAVITY CLOSERS

## SAFE-R CLOSE-R

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

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

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



### Key Features

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

### Specifications

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

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

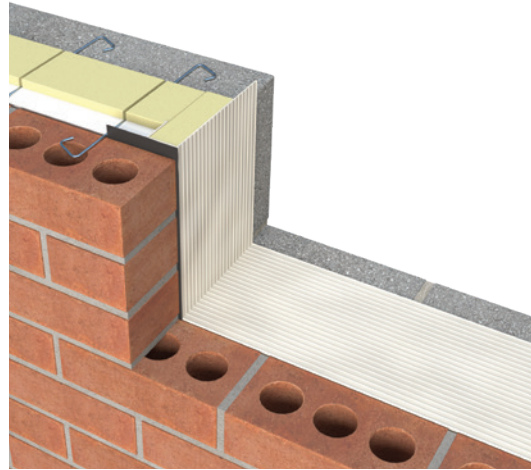
# CLOSE-R

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](http://unilininsulation.co.uk)**



# Handling, Cutting & Storage

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

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

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

## Durability

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



# Remote Support & Immediate Callback

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

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

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

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

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



## Internal Technical Team



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Technical Manager



**Mark Magennis**  
Technical Services Manager



**Marc Walsh**  
Product Management & Development Engineer



**Paschal Gallagher**  
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**Gratas Drevinskas**  
Technical Advisor

**Talk to the Technical Team**

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Meet the team who can help you with your project

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