



IRL Product Handbook

Insulation for:

Walls

Floors

Roofs

Soffit



Expect
More
Choice

Xtratherm[®]
More than insulation

Expect More

Working in partnership with local Builders and Builders Merchants in Ireland to deliver low energy 'A' Rated homes in traditional construction.

Through product innovation and unrivalled customer support, Xtratherm has been central in the development and promotion of energy efficient construction in Ireland. Driving low energy, cost effective building solutions using traditional construction materials and methods, supplied and supported through local builders merchants.

Our product developments have been achieved through our experience in markets throughout Europe - but it was at home our expertise was developed. Our Technical Team provides technical services throughout our customer bases in Europe and further afield from our group headquarters in Navan, Co. Meath. Our experience and expertise has been built through our engagement and participation with the Irish construction industry for over 30 years.



Xtratherm has led the way in developing innovative thermal solutions, through advancement in product performance and detailing, backed by a team that understands the technical issues and site practices specific to Ireland.



Xtratherm®
More than insulation

Our Production Facilities

Xtratherm owns and operates two state-of-the-art production facilities in Ireland and the UK providing security of supply for a range of insulation products. We have the experience and expertise to deliver quality, whatever your market or size of project.



Xtratherm Navan, Ireland



Xtratherm Chesterfield, UK

Working towards a sustainable future

Operating within the construction industry and as a leading investor within the insulation sector, Xtratherm remains at the forefront of energy efficiency and sustainable construction.

Specifying Xtratherm is a real commitment to minimising energy consumption, harmful CO₂ emissions and their impact on the environment. Using our products is one of the most effective ways to reduce energy consumption – in fact, after just eight months the energy they save far outweighs the energy used in their production.



Products by Application

Walls

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Key

■ Safe-R	■ CavityTherm
■ XtroLiner	■ Thin-R
■ Thin-R Plus	



* Xtratherm 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 zero carbon wall types, there is always a practical, cost effective Xtratherm solution to suit your project.

Products by Range

Xtratherm®
More than insulation



Safe-R

Superior Performance
Phenolic Insulation

SR/FB 14

Walls:
Steel & Timber Frame

SR/RS 17

Walls:
Rainscreen

SR/TB-FL Fireline 18

Walls:
Dryingling Walls

SR/ST 37

Soffit:
Soffit Application

SR/STP 38

Soffit:
Soffit Application



CavityTherm

A continuous wall
insulation system

CT/PIR 08

Full Fill Built-in
Insulation system

CT/PIR Flex 09

Full Fill Built-in
Insulation system



XtroLiner

Superior Performance
PIR Insulation

XtroWall 10

Walls:
Partial Fill Cavity Wall

XtroWall Plus 110 11

Walls:
Partial Fill Cavity Wall

XO/FB 15

Walls:
Steel and Timber Frame

XO/PR 23

Roofs:
Pitched Roofs

XO/SK (T&G) 24

Roofs:
Pitched Roofs

XO/UF 34

Floors:
Ground Supported and
Suspended Floors

XO/STP 39

Soffit:
Soffit Application



Thin-R^{Plus}

Enhanced
PIR Insulation

XT/CWP (T&G) 13

Walls:
Partial Fill Cavity Wall

XT/HYF (T&G) 33

Floors:
Ground Supported
and Suspended Floors



Thin-R

PIR Insulation

XT/CW (T&G) 12

Walls:
Partial Fill Cavity Wall

XT/TF 16

Walls:
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XT/TL 19

Walls:
Dryingling Walls -
Dot & Dab

XT/TL-MF 20

Walls:
Dryingling Walls
Mechanically Fixed

XT/PR 25

Roofs:
Pitched Roof

FR/ALU 28

Roofs:
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Waterproofing Systems

FR/MG 29

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

FR/BGM 30

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

FR/TP 31

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

XT/UF 35

Floors:
Ground Supported
and Suspended Floors

XT/Walk-R 36

Floors:
Loft decking



XPS

Extruded Polystyrene
Insulation

XPS/SL 40

Extruded Polystyrene
Insulation



EPS

Expanded Polystyrene
Insulation

Warm-R 41

Expanded Polystyrene
Insulation



Close-R

Insulated
Cavity Closer

Safe-R Close-R 42

Insulation Accessories

Close-R 43

Insulation Accessories

Expect More Service

Our Commitment

Next day delivery on 90% of orders

Country wide support from dedicated and experienced sales team

Dedicated, qualified Technical support team, internal and external

Qualified technical experts in DEAP and Thermal Bridging

BER Assessors on team

On site training for installers

Full on-line support services for training and consultation

Personal service with immediate call back

Warranty offered for calculations provided

Training of merchant staff



Xtratherm offers high performance insulation delivered to stock or site as and how you need it.

Part of your insulation team.

Sales: +353 (0) 46 906 6000

Tech: +353 (0) 46 906 6050

xtratherm.ie



Walls



Built-in Full Fill Walls

■ CT/PIR	08
■ CT/PIR Flex	09

Partial Fill Cavity Walls

■ XtroWall Partial Fill Cavity Wall	10
■ XtroWall Plus 110 Partial Fill Cavity Wall	11
■ XT/CW Partial Fill Cavity Wall	12
■ XT/CWP Partial Fill Cavity Wall	13

Framing Walls

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Rainscreen

■ SR/RS Rainscreen	17
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Drylining Walls

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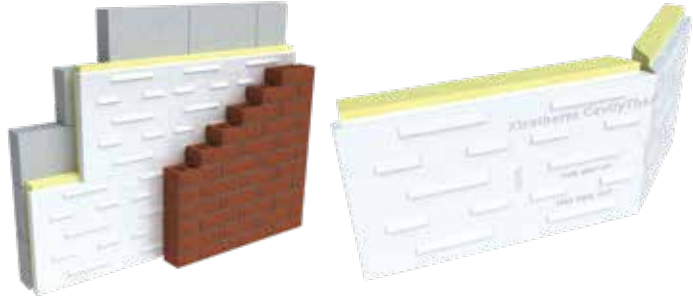
Walls

CT/PIR

CavityTherm® CT/PIR

Built-in Full Fill
Wall Insulation

CavityTherm is an innovative built-in insulation for traditional walls that achieves passive level U-Values as low as 0.13 W/m²K with excellent thermal bridging detailing in cavities less than 150mm wide.



Key Features:

Engineered HIPs facer provides wind driven rain protection

Moisture redirected to outer surface

Prepositioned slots for sloping wall ties - no creep

Fully engineered jointing

Full range of accessory pieces build continuous system

Excellent Thermal Bridging Values

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

CavityTherm® CT/PIR Flex

Built-in Full Fill
Wall Insulation

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



Walls
CT/PIR Flex

Key Features:

- Advanced Engineered Detailing
- Cushioned backing to eliminate indentations
- Excellent Thermal Bridging Y-value
- Robust moisture protection facing
- 0.14 U-Value in 150mm Cavity

Specifications

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

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

Walls

XtroWall

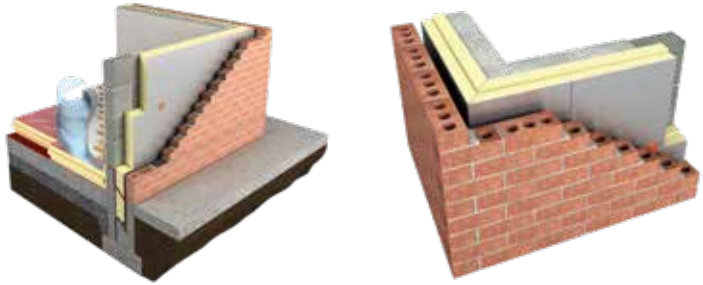
XtroLiner XtroWall

Superior Performance PIR Insulation

Insulation for
Partial Fill Cavity Walls

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

This lower Lambda improves U-Values and meets Zero Carbon standards, proving an excellent choice for passive and low energy builds. XtroWall can achieve NZEB Standard in a traditional cavity wall. Building with XtroWall, a residual cavity is maintained, offering excellent protection against wind driven rain.



Key Features:

Engineered Jointing

Corner Panels & Cavity Closers: Reduced Thermal Bridging

Clear Cavity Maintained

Lower Lambda Value for Improved U-Values

Robust Textured Foil

Specifications

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

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

XtroLiner XtroWall Plus 110

Superior Performance PIR Insulation

Insulation for
Partial Fill Cavity Walls

Walls XtroWall Plus 110

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

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



Key Features:

Achieves 0.15 U-Value in 150mm Cavity

Improved Lambda value 0.020 W/mK

Enhanced Euroclass C fire classification

Engineered Jointing

Corner Panels & Cavity Closers: Reduced Thermal Bridging

Specifications

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

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

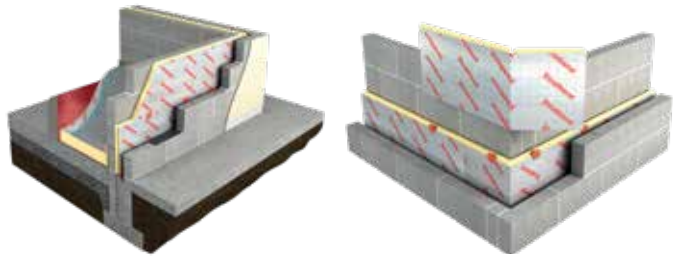
Thin-R XT/CW (T&G)

Insulation for
Partial Fill Cavity Walls

PIR Insulation

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

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



Key Features:

Robust Tongue & Groove Jointing

Corner Panels & Cavity Closers: Reduced Thermal Bridging

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:	40, 50, 60, 70, 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

Thin-R^{Plus} XT/CWP (T&G)

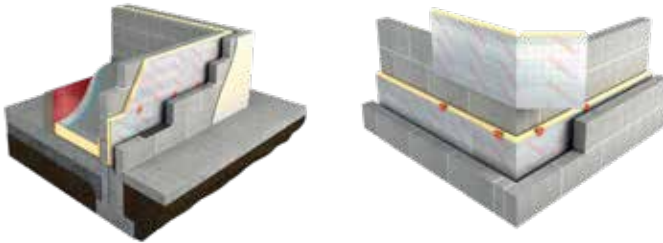
Enhanced PIR Insulation

Insulation for Partial Fill Cavity Walls

Walls XT/CWP (T&G)

Partial Fill Cavity Wall Plus builds to a system thanks to its engineered tongue and grooved joints and preformed corners, ensuring insulation continuity and minimisation of thermal bridging.

Cavity Wall 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 Zero Carbon standards, proving an excellent choice for passive and low energy builds.



Key Features:

Improved Lambda Value of 0.021 W/mK

Robust Tongue & Groove Jointing

Corner Panels & Cavity Closers: Reduced 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

Walls

SR/FB

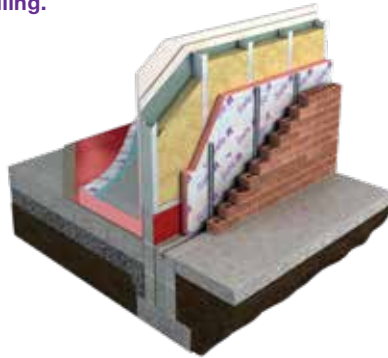
Safe-R

Superior Performance
Phenolic Insulation

SR/FB

Insulation for
Steel and Timber Frame

Safe-R Framing Board is designed for use with steel or timber frame applications up to 18m in height. With a Euroclass B 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.



Key Features:

Suitable for use in Steel and Timber Frame Systems
up to 18m in height

Lower Lambda Value for Improved U-Values

Fire Classification B-s1, d0

Reduced Thermal Bridging

Superior Performance Phenolic Insulation

Specifications

BBA Certified Thermal Conductivity:	0.020 - 0.021 W/mK
Facings:	Low Emissivity Foil Facings
Core:	Superior Performance 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

XtroLiner

Superior Performance PIR Insulation

XO/FB

Insulation for
Steel and Timber Frame

XO/FB
Walls

XtroLiner Framing Board is designed for use in a wide range of construction including steel or timber frame applications up to 18m in height. The framing board can be used between studs or as an insulated sheathing board.

Using XtroLiner Framing Board in this application will reduce the thermal bridging of the steel or timber studs.



Key Features:

Suitable for use in Steel and Timber Frame Systems

Lower Lambda Value for Improved U-Values

Suitable for Newbuild and Renovation up to 18m in height

Reduced Thermal Bridging

Robust Textured Foil

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, 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

Walls

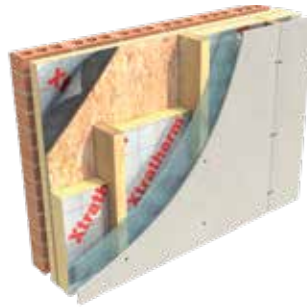
XT/TF

Thin-R XT/TF

PIR Insulation
Insulation for
Timber Framed Walls

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

Xtratherm'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 Zero Carbon Fabric and Passive House Standards.



Key Features:

Rapid Build System

Approved for use with Fibre in stud

Suitable for Newbuild 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, 40, 50, 60, 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

Superior Performance
Phenolic Insulation

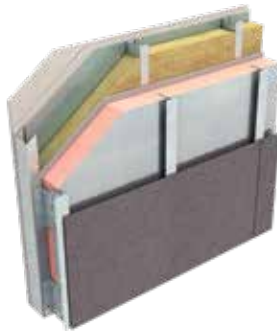
SR/RS

Insulation for
Ventilated Rainscreen Cladding

SR/RS Walls

Safe-R Rainscreen Board provides ultimate thermal performances in rainscreen applications.

Safe-R Rainscreen has been tested to BS8414 (Parts 1 & 2) in a number of compliant system specifications. Safe-R Rainscreen is BBA certified and has received LABC Assured Product status. For comprehensive guidance and copies of reports contact technical support. For compliance with the latest Building Regulations and Standards in other jurisdictions, consult your system supplier and local building control authorities.



Key Features:

Tested under BS8414 (Part 1 & 2) meeting criteria for BR135 (system specific)

Superior Lambda Value as low as 0.020 W/mK

Euroclass B Fire Classification

BBA Certified - Certification Number 10/4803

Specifications

BBA Certified Thermal Conductivity:	0.020 - 0.021 W/mK
Facings:	Low Emissivity Foil Facings
Core:	Superior Performance Phenolic Insulation
Board Size:	2400mm x 1200mm
Board Thickness:	50, 60, 75, 80, 100, 110, 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

Superior Performance
Phenolic Insulation

SR/TB-Fireline

Drylining Walls Fixed with Adhesive
Dabs & Mechanical Fixing

Safe-R Fireline Thermal Laminate is a composite insulated panel of Xtratherm Euroclass B s1 d0 phenolic insulation bonded to 15mm Fireline plasterboard for internal applications. The superior thermal performance provides excellent U-Values at minimal intrusion into valuable living space.

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



Key Features:

High performance to thickness ratio

Superior Thermal Performance

Euroclass B Fire Classification

Specifications

BBA Certified Thermal Conductivity:	0.020 - 0.021 W/mK
Facings:	Low Emissivity Foil Facings
Core:	Superior Performance Phenolic Insulation
Board Size:	2400mm x 1200mm
Board Thickness:	50, 60, 70, 80, 90mm
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

XT/TL

Insulation for
Drylining Walls Fixed with Adhesive Dabs

Walls

XT/TL

Thin-R Thermal Liner Dot & Dab is a composite insulated panel of Xtratherm 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:

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:	2438mm x 1200mm
Board Thickness:	37.5, 50.5, 62.5, 72.5mm (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

Walls

XT/TL-MF

Thin-R

XT/TL-MF

PIR Insulation

Insulation for
Drylining Walls - Mechanically Fixed

Thin-R Thermal Liner (Mechanically Fixed) is a composite insulated panel of Xtratherm 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:

Insulation & Drylining in one Application

Provides Continuous 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, 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



Support for Builders where and when you need it.

Xtratherm along with our Builders Merchant partners have adapted our operations to ensure unparalleled service and support whilst following best practice health and safety protocols. If you have any specific requirements please contact your local merchant or Xtratherm directly and we will take you through our procedures.

We continue to offer personal support through one-to-one consultations on a range of online meeting tools such as Skype or Microsoft Teams to ensure we are always available to assist builders and self-builders. We offer CPD Training and online instruction to achieve best practice on your projects.

If we can assist in anyway, please contact Xtratherm Technical Support

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For more information call:

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Technical: 046 906 6050

Xtratherm[®]
More than insulation

Pitched Roof



Pitched Roofs

■ XO/PR Pitched Roof	23
■ XO/SK Sarking	24
■ XT/PR Pitched Roof	25

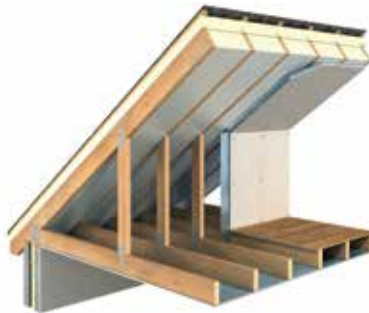
Xtratherm[®]
More than insulation

XtroLiner **XO/PR**
 Superior Performance PIR Insulation
 Insulation for
 Pitched Roofs

Roofs
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:

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:	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

Roofs

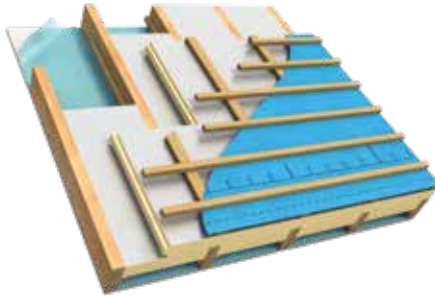
XO/SK (T&G)

XtroLiner
Superior Performance PIR Insulation

XO/SK (T&G)
Insulation for Sarking
Warm Roof Construction

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.



Key Features:

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 XT/PR

PIR Insulation
Insulation for
Pitched Roofs

Roofs

XT/PR

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:

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
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, 120, 125, 130, 140, 150, 160mm
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



When Self Build becomes a Team Effort

Xtratherm Technical is now offering you **One to One Self Build Consultancy** as part of our **Xi Platinum Service**.

Our tech team have been involved in Self Build for over 30 years and have discussed every issue that you're now asking yourself. What insulation? Passive or NZEB? Passive Foundations? How Airtight? What renewables? Can I have a stove? Can I add a cat flap?

We'll look at your plans, do the calcs, and complete a DEAP Energy calculation for you as guidance. Then in your time, by phone or online, we'll discuss ways of achieving an affordable 'A' Rated home that suits you.

There's 8 of us, all technical, all local and all friendly to chat to – and we've been involved with more self build projects than most. If you speak to Francis, don't ask about the cat flap – he's a doggie person.

Xtratherm's One to One Self Build Consultancy Service - Let's keep talking

Contact us now on:
+353 (0) 46 906 6050

Flat Roof



Flat Roofs

■ FR/ALU Flat Roof	28
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■ FR/TP Thermal Ply	31

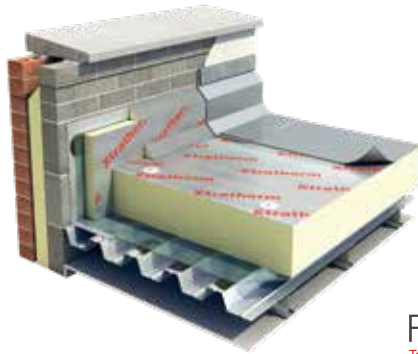
Xtratherm[®]
More than insulation

Thin-R FR/ALU

PIR Insulation

Insulation for Mechanically Fixed
Single Ply Waterproofing Systems

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 Xtratherm's high performance flat roof boards providing total solutions for flat roof projects.



FlatRoof
Total Flat Roof Solutions

Key Features:

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
Facings:	Vapour-Tight 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, 150, 160mm
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

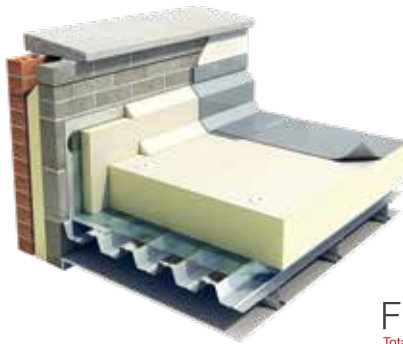
Thin-R FR/MG

PIR Insulation

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

Flat Roof MG is a high performance Polyisocyanurate with mineral coated glass facers suitable for use below single ply waterproofing systems and partially bonded built-up felt. Also suitable for use below Single Ply Fully Adhered.

FR/MG
Roofs



FlatRoof
Total Flat Roof Solutions

Key Features:

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
Facings:	Mineral Glass
Core:	PIR Insulation
Board Size:	1200mm x 1200mm
Board Thickness:	25, 30, 40, 50, 60, 70, 80, 100, 110, 120, 150, 160mm
Board Profile:	Square Edge

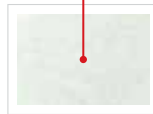
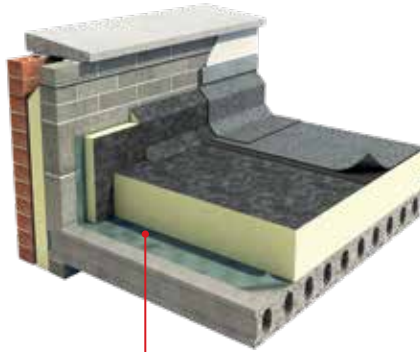
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details

Thin-R FR/BGM

PIR Insulation

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

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 Xtratherm'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.

FlatRoof
Total Flat Roof Solutions

Key Features:

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
Facings:	Mineral Glass/Bitumen Glass
Core:	PIR Insulation
Board Size:	1200mm x 1200mm
Board Thickness:	25, 50, 60, 70, 80, 100, 110, 120, 130, 140, 160mm
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

FR/TP

Thermal Ply High Performance PIR
and Plywood Composite for Flat Roofs

Roofs

FR/TP

Xtratherm Thermal Ply is a composite insulated panel of Xtratherm 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.



FlatRoof
Total Flat Roof Solutions

Key Features:

Insulation & decking in one fix

For new & refurbishment roofs

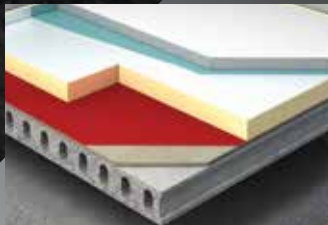
Rapid weather proofing

Specifications

Thermal Conductivity:	0.022 W/mK
Facings:	Composite Foil Facing/6mm WBP Grade Plywood
Core:	PIR Insulation
Board Size:	2400mm x 1200mm
Board Thickness:	56, 76, 86, 96, 106, 116, 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

Floors



Solid & Suspended Floors

■ XT/HYF Hyfloor	33
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Soffit

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Xtratherm[®]
More than insulation

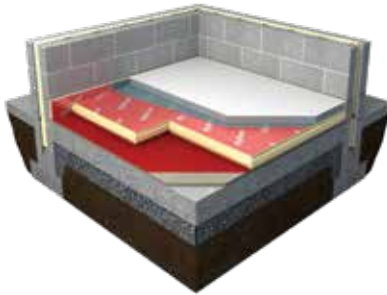
Thin-R^{Plus} XT/HYF (T&G)

Enhanced PIR Insulation Insulation for Ground Supported and Suspended Floors

FLOORS XT/HYF (T&G)

The floor in any building is an area of considerable downward heat loss when not properly insulated. Xtratherm 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:

- Robust Tongue & Groove Jointing
- High Compressive Strength
- Suitable for Underfloor Heating
- Perimeter Strips for Robust Detailing
- Reduced Insulation Thickness
- Excellent 0.021 W/mK Lambda value

Specifications

BBA Certified Thermal Conductivity:	0.021 W/mK
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

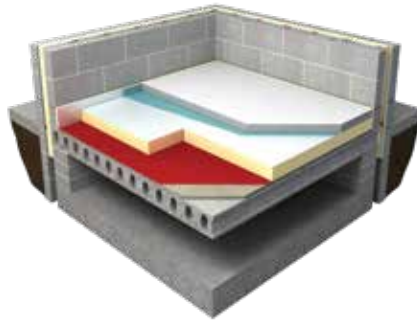
XtroLiner XO/UF

Superior Performance PIR Insulation

Insulation for
Solid and Suspended Floors

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:

- 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
Facings:	Robust Low Emissivity Foil Facings
Core:	Superior Performance PIR 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

Thin-R XT/UF

PIR Insulation
Insulation for
Ground Supported and Suspended Floors

FLOORS

XT/UF

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:

- 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
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, 150mm
Board Profile:	Square Edge

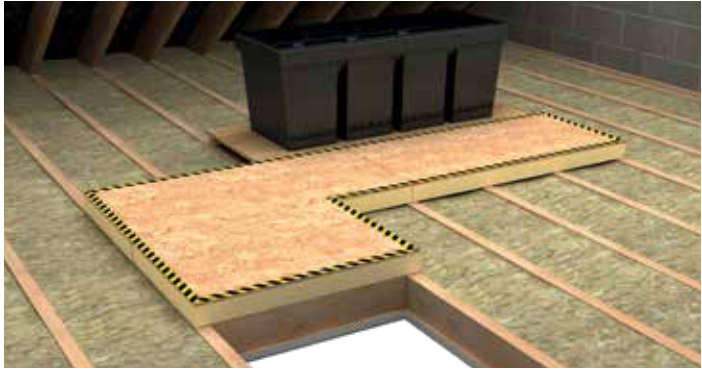
Other thicknesses may be available subject to minimum order quantity and extended lead times. Please contact your Area Sales Manager for further details

Thin-R XT/Walk-R

Insulated
Loft decking

PIR Insulation

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:

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
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

Superior Performance
Phenolic Insulation

SR/ST

Insulation for
Soffit Application

Floors

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 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:

Superior Performance Phenolic Insulation

Fire Classification B-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:	Superior Performance 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

Floors

SR/STP

Safe-R

Superior Performance
Phenolic Insulation

SR/STP

Insulation for
Soffit Application

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 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:

High Impact Resistant 6mm building panel

Fire Classification B-s1, d0

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:	Superior Performance Phenolic Insulation
Board Size:	2400mm x 1200mm
Board Thickness:	56, 66, 81, 86, 106mm
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 XO/STP

Superior Performance PIR Insulation

Insulation for
Soffit Application

Floors 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:

- Impact Resistant 6mm building panel
- Fire Classification B-s1, d0
- Accepts 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, 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

XPS

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.



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

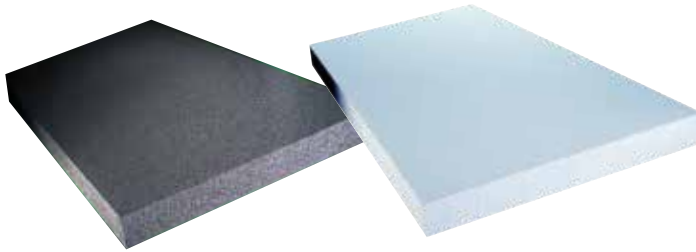
Thermal Conductivity:	0.033 - 0.035 (W/mK)*
Core:	Extruded Polystyrene
Board Size:	1250 x 600mm
Board Thickness:	30, 40, 50, 60, 80, 100, 120mm
Board Profile:	Rebated Edge

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

*Thermal conductivity is dependent on product thickness

EPSExpanded
Polystyrene Insulation**Hytherm / Warm-R****EPS**

The Xtratherm 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:**

Products available for Wall, External Wall and Underfloor applications

Extensive range of thicknesses

Available in 70 kPa or 100 kPa

Specifications

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 Sizes:	2400mm x 1200mm	
	1800mm x 1200mm	
Board Thickness:	Various	
Board Profile:	Straight Edge	

Safe-R Close-R

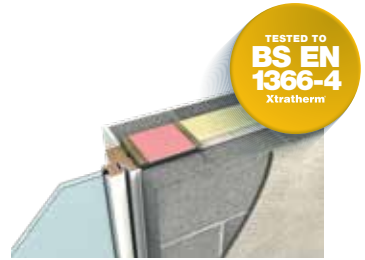
Safe-R Close-R

Safe-R Cavity Closers

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

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

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



Key Features:

Achieved in excess of 4 hour fire rating in a 150mm cavity when tested to EN1366-4

Provides template for wall ties placement

Ensures continuity of insulation

Suitable for door, window, eaves openings

Suitable for use at expansion joints

Specifications

Facings:	Low Emissivity Foil Facings
Core:	Superior Performance Phenolic Insulation
Board Size:	1200mm x 200mm
Board Thickness:	75mm, 105mm, 130mm, 155mm
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

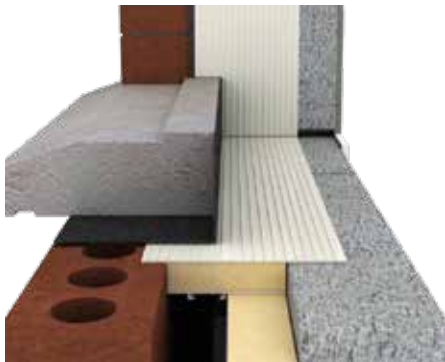
Close-R

Insulated
Cavity Closer

Close-R

Insulation Accessories

Xtratherm Close-R fully insulated cavity closers are a cost effective solution for builders and specifiers for the closing of cavities around window and door openings, preventing cold bridging, damp penetration, air infiltration and condensation. The Close-R range is used to close cavities and is suited to all types of windows and doors and is available in sizes to fit cavity widths from 100mm - 150mm, with checked detail to suit brick or drylined specifications and flanged detail to suit block outer facings. (Flanged detailing requires precise construction tolerances.)



Flanged Fit -
Concrete Outer



Fire Rated Checked Fit -
Brick Outer

Key Features:

Saves Time

Cost effective

No cut return/Nib block required

Suits 100 - 150mm cavities

Meets new Part L requirements

Available from Builders Merchants

Specifications

For further assistance please contact the Xtratherm Technical team

Close-R

Now
Available

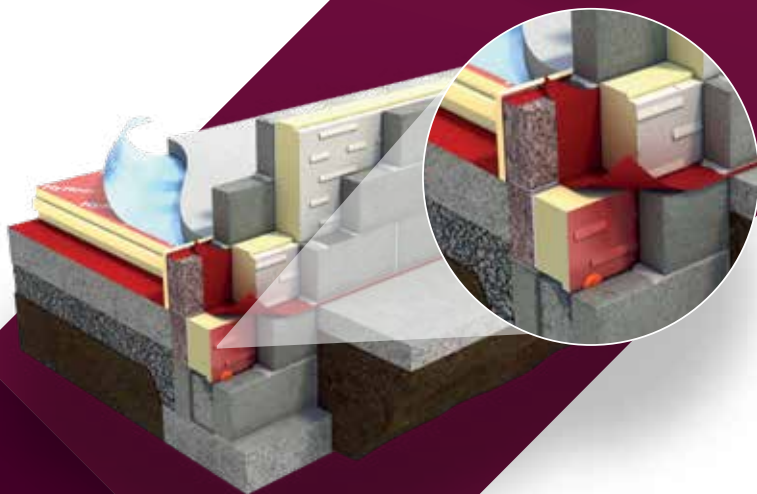


Innovative
Products

Hyfloor Strip Foundation System

Hyfloor Strip Foundation System provides U-Value and Thermal Bridging performance to meet NZEB standards. Available: 225mm & 450mm

- Addresses site detailing from an early stage
- Y-Values achieved < 0.05
- Excellent 0.021 W/mK lambda value
- U-Values achieved 0.11- 0.13 W/m²K
- Using blocks suitable for multi storey buildings with a high compressive strength of 7.5 N/mm² and 13 N/mm²
- Complies with standard construction ACDs
- Traditional construction, avoiding the need for engineering assurances
- Suitable for use with built-in full fill and partial fill wall insulation



Xtratherm[®]
More than insulation

For more information
contact our Technical Team

T. 046 906 6050
xtratherm.ie

Xtratherm[®]

More than insulation

FOAMGLAS[®]

by Xtratherm

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

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



For more information
contact our Technical Team

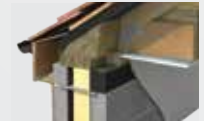
T. 046 906 6050
xtratherm.ie



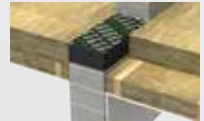
EWI Plinth



Flat Roof Parapet

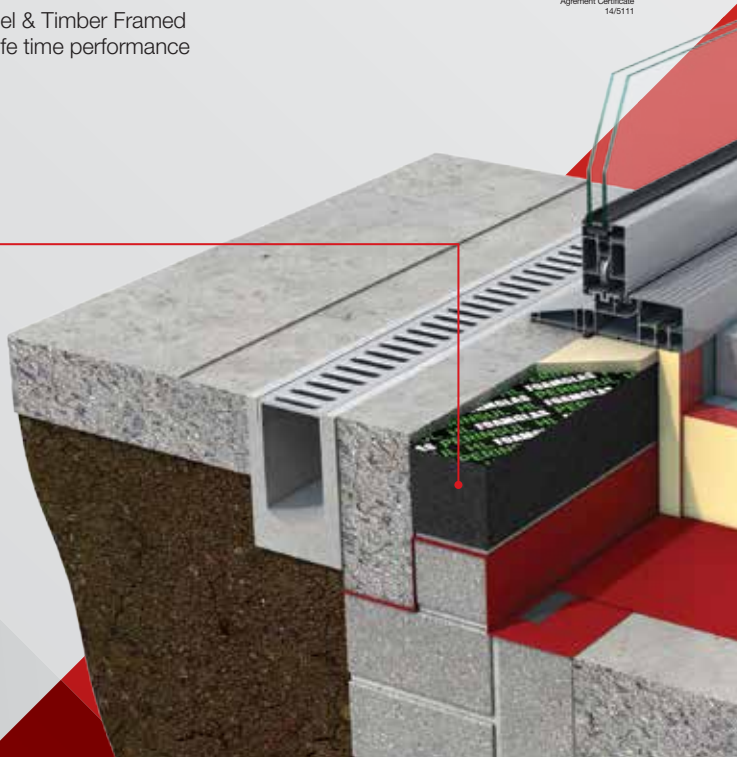


Eaves



Party Wall - Ceiling

EXTENSIVE RANGE OF APPLICATIONS



Achieving NZEB Compliance for Typical New Dwellings

Detached: Scheme Development

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



Result: A2 Rating

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

Semi-Detached: Scheme Development

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



Result: A2 Rating

Floor U-Value	0.11	150mm Hyfloor
Cavity U-Value	0.16	125mm CavityTherm
Ceiling U-Value	0.12	300mm fibre plus thermal lining
Windows U-Value	1.40	Double glazed
Door U-Value	1.00	Insulated door
Thermal Bridging Factor	0.04	Calculated details
Air Permeability	5	0.25 ACH
Natural Ventilation	Yes	
Heating System	91.2%	Gas Condensing Boiler
Heating Controls	Yes	Full Time & Temp Controls
Cylinder	200L	Factory Insulated 100mm
Secondary Heating	None	
Delay Start Stat	None	
Light Fittings	100%	Low Energy Lights
Renewable Technology	Yes	3 x 270w PV Panels (4.89m ²)

Apartment: Scheme Development

Mid Floor Apartment

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



Result: A2 Rating

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

Detached: Self Build

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



Result: A2 Rating

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

Xtratherm®

More than insulation

With the most comprehensive range of quality products to suit any application, Xtratherm offers high performance insulation delivered to stock or site as and how you need it.

Thin-R	PIR Insulation
Thin-R^{Plus}	Enhanced PIR Insulation
XtroLiner	Superior Performance PIR Insulation
Safe-R	Superior Performance Phenolic Insulation
CavityTherm	Built-In Full Fill Insulation
XPS	Extruded Polystyrene Insulation
EPS	Expanded Polystyrene Insulation

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xtratherm.ie

ISO 9001 | Quality Management Systems

ISO 14001 | Environmental Management Systems



Xtratherm, part of UNILIN group.