Thin-R
High Performance PIR

Engineered Jointing

Thermal Conductivity

Extensive Range

High Performance PIR Ceiling Insulation Board

Roofs

XT/Walk-R
Insulated Loft Decking

Key Features

- High Thermal Performance
- Certified Thermal Conductivity as Low as 0.022W/mK
- Robust Engineered Jointing
- Low Emissivity Foil Facings
- HCFC/CFC Free, GWP <5
- BRE Green Guide A+ Rated

Xtratherm®
More than insulation

www.xtratherm.com

Thin-R | XT/Walk-R
Insulated Loft Decking

Xtratherm Loft Walk-R is a laminate of high performance PIR insulation with tough moisture resistant chipboard that builds to allow safe access into insulated roof spaces whilst maintaining very high insulation values, and complying with health and safety guidelines.

There is a growing awareness of the benefits of upgrading the energy efficiency of our homes by installing energy efficient measures. One of the easiest and most cost effective measures to take is to insulate the roof space, but consideration must be given to safe access to that roof space once the upgrade has taken place.

Providing access to tanks, services and fittings in the roof space.

"Because the depth of insulation will obscure the location of ceiling joists, provision should be made for access from the access hatch to the cold water tank and other fittings to which access for occasional maintenance and servicing may be required."

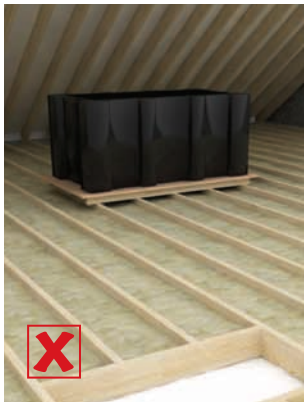
Xtratherm Walk-R is the solution for high performance lofts – with safe access.

Achieves better than 0.16W/m^{2}K target

T&G jointing long edges

Superior compressive strength

Existing loft space – insulation between joists only	Upgraded loft space – 2nd layer of insulation over joists	Upgraded loft space – 2nd layer of insulation over joists plus Loft Walk-R access
Energy Efficient? ✗	Energy Efficient? ✓	Energy Efficient? ✓
Safe Access? ?	Safe Access? ✗	Safe Access? ✓



Xtratherm Thin-R is a high performance foil faced Polyisocyanurate (PIR) insulation with a certified thermal conductivity as low as 0.022W/mK. Manufactured to strict EN 13165 standards, the closed cell structure and gas tight facings provides excellent thermal performance and moisture resistance. Thin-R is available with engineered jointing to provide improved continuity and unparalleled thermal bridging performance. Xtratherm Thin-R products deliver genuine thermally robust performances and are supported with full third party assurances throughout the range.

Property & Units
Compressive Strength >120 (kPa)
Thermal Conductivity 0.022 (W/mK)
Tolerance Length +/- 7.5mm
Tolerance Width +/- 5mm
Tolerance Thickness +/- 4mm

Xtratherm XT/Walk-R
Length (mm) 1200 (T&G)
Width (mm) 600 (SE)
Thickness PIR - 75mm Chipboard - 18mm

Specification Clause

The roof insulation shall be Xtratherm Thin-R Walk-R manufactured to BS EN 13165:2008 by Xtratherm, comprising a CFC/HCFC free rigid Polyisocyanurate (PIR) core between low emissivity foil facings bonded to moisture resistant chipboard. The Walk-R 93mm with _ _ _mm Mineral Wool to achieve a U value of _ _ _W/m2K for the roof element. To be installed in accordance with instructions issued by Xtratherm. Refer to NBS clause P10 120, P10 130.

Xtratherm®
More than insulation

Installation Guidelines

Application

Xtratherm Loft Walk-R has been developed to provide insulated decking for lofts to allow for maintenance access and storage in roof space areas.

The moisture resistant chipboard is tongued and grooved along the long edge for easy jointing.

Boards should be laid transverse to the joists, (spanning minimum of 4 joists at 400mm centres). Pre-drill the Walk-R panels and secure with wood screws. Screws should penetrate joists by 30mm and be placed no closer than 25mm from any panel corner.

Ensure that no electrical cables are damaged or compressed between the Walk-R panels and the joists. Mark the top of the panels to indicate the positioning of any services below the walkway. Do not over-tighten the screws.

Ceiling joists are not designed to take a floor loading, loads applied should not be excessive. If loading other than maintenance traffic or light storage is required, an engineer should be consulted.

U-values (w/m²k) achieved with 93mm Xtratherm Loft Walk-R

Joist depth fully filled with fibre insulation

	100mm	150mm	225mm
U-value achieved	0.17	0.15	0.12

Xtratherm Loft Walk-R

Sheets per pallet	20

Standards

Xtratherm Thin-R range is manufactured to EN ISO 13165 under Quality Systems approved to EN ISO 9001:2008 Quality Management, EN ISO 14001:2004 Environmental Management and BS OHSAS 18001 Health and Safety Management System.

Storage

Xtratherm Thin-R 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.

Cutting

Xtratherm Thin-R 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 in accredited details.

Packaging

Xtratherm Thin-R is wrapped in polythene packs and each pack is labelled with details of grade/type, size and number of pieces per pack.

Availability

Xtratherm products are available through builder's merchants and specialist distributors throughout the UK and Ireland. For the location of your nearest stockist please contact Xtratherm.

Environmental

Xtratherm Thin-R is manufactured under ISO 14001:2004 Environmental Management with all major components sourced under 14001 accredited supplliers. It is manufactured without the use of CFC's or HCFC's and has Zero Ozone Depletion Potential with a GWP of less than 5. Thin-R has been awarded an A+ Rating under the BRE Green Guide.

Durability

Xtratherm Thin-R products are stable, rot proof and will remain effective for the life span of the building, dependent on specification and installation. Care should be taken to avoid contact with acids, petrol, alkalis and mineral oil, when contact is made, clean materials in a safe manner before installation. Solvent based adhesive containing methyl ethyl ketone, should not be used.

Resistance 'R' values

The resistance value of any thickness of Xtratherm PIR can be ascertained by simply dividing the thickness of the material (in metres) by it's agrèment declared lambda value 0.022 W/mk. eg 50mm = 0.050/0.022 = R2.27.

ISO 9001 | Quality Management Systems
ISO 14001 | Environmental Management
OHSAS 18001 | Occupational Health & Safety

Thin-R

High Performance PIR

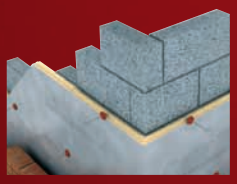
XT/Walk-R 06/12

Xtratherm Technical Services

All the members of our technical team are individually BBA accredited to help you reach your low energy goals. BBA qualified in U-value calculation, condensation risk and also Thermal Bridging 3D analysis backed by BRE accreditation – when you call Xtratherm, you can be assured you're speaking to a qualified person.

XT/CW (T&G)

Walls:
Insulation for Partial Fill Cavity Wall



XT/CWP

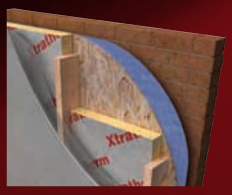
Walls:
Insulation with enhanced performance for Partial Fill Cavity Walls

XT/TL

Walls:
Insulation for Drylining walls Fixed with Adhesive Dabs

XT/TL-MF

Walls:
Insulation for Drylining walls Mechanically Fixed to Battens



XT/TF

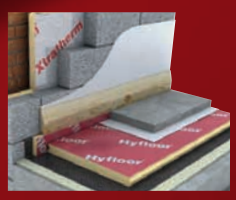
Walls:
Insulation for Timber Framed Walls

CT/PIR

Walls:
Full Fill Built-in Insulation for Traditional Build

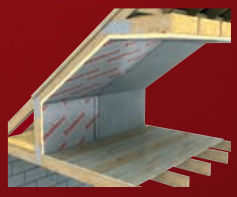
XT/UF

Floors:
Insulation for Ground Supported and Suspended Floors



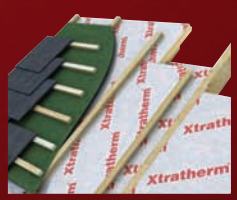
XT/HYF

Floors:
Insulation for Ground Supported and Suspended Floors with Engineered Jointing.



XT/PR

Roofs:
Insulation for Pitched Roofs



XT/SK

Roofs:
Insulation for Sarking (Warm Roof) Constructions with Engineered Jointing

Rigid Insulation

Flexible Solutions

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