

EST Approved

Thermal Conductivity

Extensive Range

High Performance PIR Wall Insulation Board (UK)

Walls

XT/TL

Insulation for
Drylining Walls Fixed
with Adhesive Dabs

Key Features

High Thermal Performance

Certified Thermal Conductivity
as Low as 0.022W/mK

Integral Vapour Control Layer

Energy Saving
Trust Approved Product

HCFC/CFC Free, GWP <5

BRE Green Guide A+ Rated



www.xtratherm.com

Xtratherm®

More than insulation

Thin-R | XT/TL Insulation for Drylining walls

Fixed with Adhesive Dabs

Xtratherm Thin-R Thermal Liner XT/TL is a composite insulated panel of Xtratherm Polyiso (PIR) core with a composite kraft paper facing bonded to 12.5mm tapered edge plasterboard for internal applications, fixed with propriety adhesive bonding. XT/TL is designed to provide high levels of thermal insulation and dry lining in one operation for masonry walls.

Integral vapour control layer

Drylining & Insulation in one fix

Shorter drying time

Responsive insulation system

1

Integral vapour control layer

The facing on Xtratherm boards provide a gas and vapour tight barrier, taping and filling the joints on plasterboard finishes in accordance with drylining good practice creates a continuous vapour control layer.



Thermal Liner
DOT & DAB - Typical installation

2

Fire Stops

An important factor when drylining a wall is to provide fire stops along the top and bottom of each sheet and around all openings (Doors & Windows etc). These are provided by the continuous ribbons of adhesive and prevent fire penetrating behind the insulation layer, it also helps to prevent thermal looping.

Further Guidance - Best Practice

Good workmanship and appropriate site procedures are necessary to achieve expected performance from insulation materials. Procedures set out in the EST Guidance Document CE17 Internal wall insulation in existing housing - a guide for specifiers and contractors should be consulted whilst following detailing contained in the DCLG publication Accredited Details for Construction .

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. Xtratherm Thin-R products deliver genuine thermally robust performances and are supported with full third party assurances throughout the range.

Property & Units

Density (Foam Core)
32 (Kg/m³)

Compressive Strength
>140 (kPa)

Water Vapour Resistivity
>100 (MNs/gm)

Thermal Conductivity
0.022 (W/mK)

Surface Spread of Flame
Class 1*

*When laminated to plasterboard Thin-R XT/TL is deemed to be class 0 in accordance with the building regulations.

Xtratherm XT/TL

Length (mm)
2400

Width (mm)
1200

Thickness* (mm)
Plasterboard 12.5mm+
25, 38, 50, 60

*Other sizes available subject to quantity and lead time. Note: Standard product supplied UK tapered edge - 12.5mm only.

Specification Clause

The insulated dry lining wall insulation shall be Xtratherm Thin-R XT/TL, ___mm plasterboard bonded to ___mm CFC/HCFC free rigid Polyisocyanurate (PIR) manufactured to EN ISO 9001:2008 by Xtratherm. The insulated dry lining plasterboard XT/TL shall be installed in accordance with instructions issued by Xtratherm. Refer to NBS clause K10 205.

Installation Guidelines

Plaster-dab Bonding XT/TL

Align the XT/TL Thermal Liner squarely on wall. Allow a 15mm expansion joint at the top and bottom of the panel, and fill with foam filler.

Mark the position of the panel on the wall.

Apply adhesive dabs to the wall in accordance with BS8212:1986 & BS 800: Part 8: 1994. Vertical dabs @ 300mm cs 25mm in from edge. Dabs 50-75mm wide approx 25mm deep to allow for tamping. Total contact with boards area should be 20%.

Max installation height for this system is 3m.

Ensure a 50mm continuous ribbon top and bottom and around any openings to provide firestops, and to achieve predicted U-value and airtightness performance.

(See accredited details)

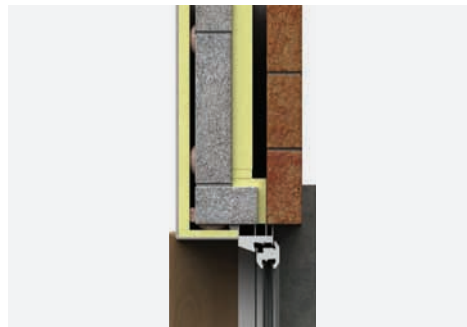
Lift the XT/TL Thermal Liner into position using wedges on the floor. Apply pressure to the board to level & embed in the adhesive.



Insulation should be cut back to accommodate an adjoining panel at external corners.

When the adhesive has dried, 3 mechanical fixings (fireproof) should be fixed through the centre of the board. Setting out and planning is essential.

For comprehensive guidance on Xtratherm Thermal Liners download the Xtratherm Guide to Insulated Drylining.



U-Value calculations to BS EN ISO:6946

Walls (XT/TL) Dry Lined

Thickness (mm)

Wall Type	25	40	50	55	60	65	70
300 Cavity Wall Brick/Block	0.53	0.39	0.33	0.31	0.29	0.27	0.25
215mm Solid Brickwork	0.56	0.41	0.34	0.32	0.30	0.28	0.26

Contact Xtratherm Technical Support for specific U-value calculations.

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 its agrément declared lambda value 0.022 W/mk. eg 50mm = 0.050/0.022 = R2.27.

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 suppliers. 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.

Thin-R

High Performance PIR

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:

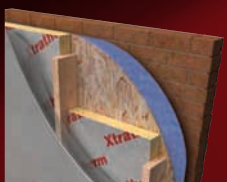
Insulation for Drylining walls Fixed with Adhesive Dabs



XT/TL-MF

Walls:

Insulation for Drylining walls Mechanically Fixed to Battens



XT/TF

Walls:

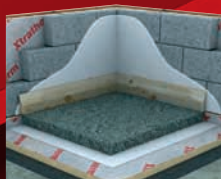
Insulation for Timber Framed Walls



CT/PIR

Walls:

Full Fill Built-in Insulation for Traditional Build



XT/UF

Floors:

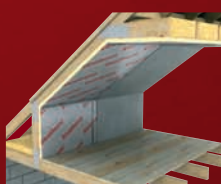
Insulation for Ground Supported and Suspended Floors



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

Xtratherm UK Limited
Park Road Holmewood
Chesterfield Derbyshire
S42 5UY

Tel
+ 44 (0) 371 222 1033
Fax
+ 44 (0) 371 222 1044

Xtratherm Limited
Liscarton Industrial Estate
Kells Road, Navan
Co.Meath, Ireland

Tel
+ 353 (46) 906 6000
Fax
+ 353 (46) 906 6090

Contact
info@xtratherm.com

www.xtratherm.com

Good workmanship and appropriate site procedures are necessary to achieve expected thermal and airtightness performance. The example calculations are indicative only. Default values for components and cavities have been used, for specific U-value calculations contact Xtratherm Technical Support. Comprehensive guidance on installation should be consulted. Xtratherm technical literature and Agrément certifications are available for download on the Xtratherm website. The information contained in this publication is, to the best of our knowledge, true and accurate but any recommendations or suggestions which may be made are without guarantee since the conditions of use are beyond our control.