

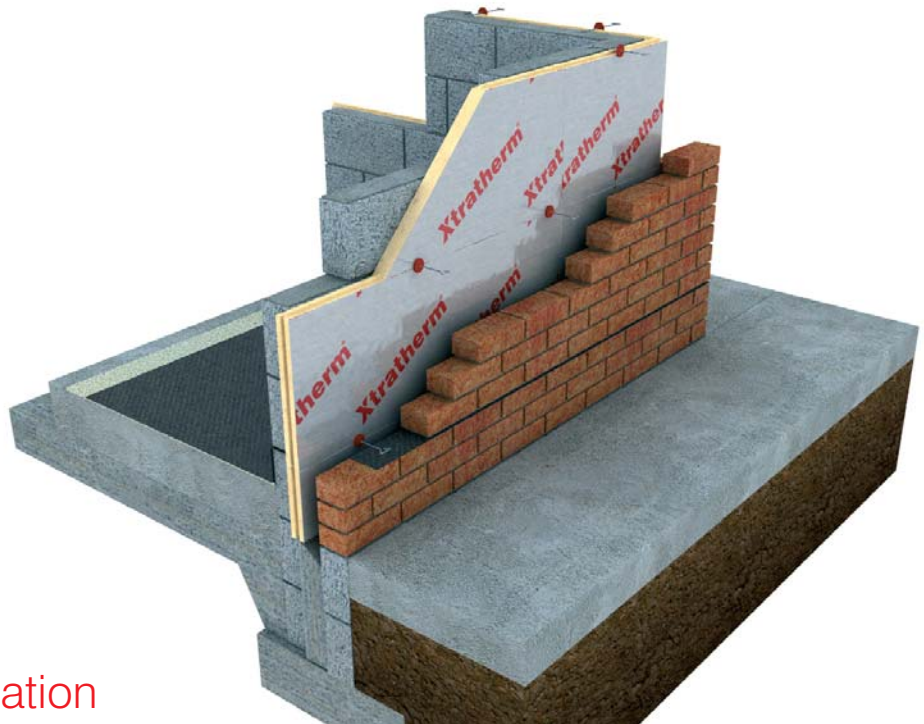
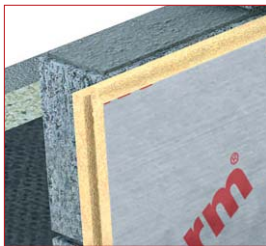
EU ISSUE 1
MARCH 2008

Xtratherm®

High performance PIR cavity wall insulation

Partial Fill Cavity Wall XT/CW

www.xtratherm.eu



More than insulation

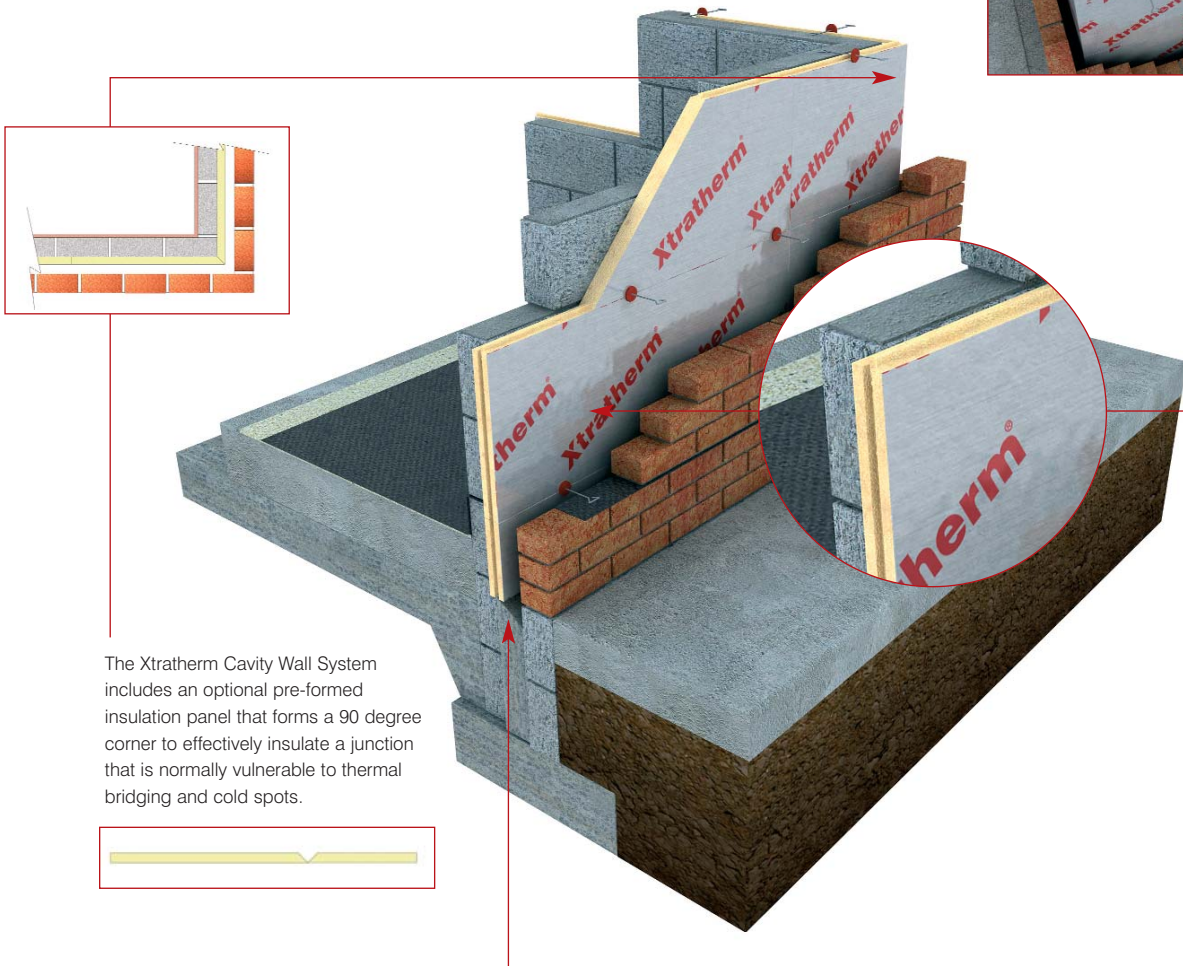
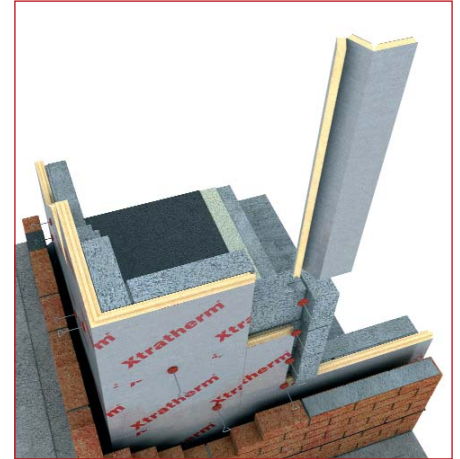




Cavity Wall Board XT/CW

- Robust Tongued and Grooved Jointing
- Clear Cavity Maintained
- No Exposure Restrictions
- Low Emissivity Foil Facings
- High Thermal Performance

Xtratherm preformed Reveal Panels effectively insulates around window and door openings. The panel is cut to effectively insulate the internal face of the reveal and extend into the cavity exactly 150mm. This allows wall ties to be placed as required by regulations every course of block 150mm in from the edge.



The Xtratherm Cavity Wall System includes an optional pre-formed insulation panel that forms a 90 degree corner to effectively insulate a junction that is normally vulnerable to thermal bridging and cold spots.

Xtratherm provide a Tongued and Grooved jointing system that results in a more robust, continuous layer of cavity wall insulation that minimises the threat of thermal bridging through inaccurate fitted installation.

A Residual cavity is the air space retained when Xtratherm XT/CW insulation is placed in the cavity of a wall. The minimum residual cavity width allowed is 25mm as shown in the relevant Product Certificate however up to 50mm may be required by the designer.

The Low emissivity foil facing on Xtratherm boards improve the thermal performance of the cavity in the wall.

The residual cavity is the most effective method of preventing rain penetrating a wall from the outside.

XTRATHERM XT/CW SHEET SIZE

DIMENSIONS	SIZE (mm)
Length	1200
Width	450 or 600
Thickness	30/40/50/60/70/80/90/100/110/120/125/140/150/165

Other sizes are available subject to quantity and lead time. Optional boards can be supplied with T&G edge finish.

Xtratherm XT/CW

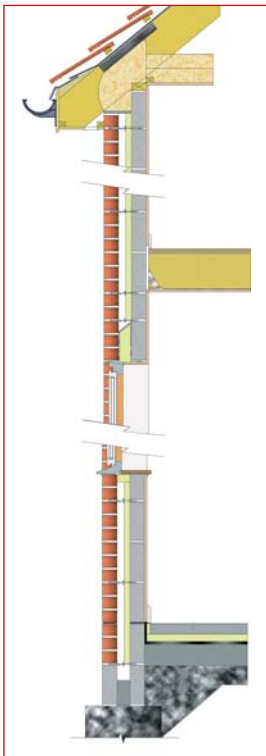
Xtratherm XT product range is CFC/HCFC free (Zero Ozone Depletion Potential)

TYPICAL PHYSICAL CHARACTERISTICS

PROPERTY	UNITS
Density (Foam Core)	>28 Kg/m ³
Compressive Strength	≥120 kPa
Thermal Conductivity	0.023 W/mK
Service Temperature	-50°C to +110°C
Reaction to Fire	Euroclass E

Partial Fill Cavity Wall

Xtratherm XT/CW(T&G) is the best solution when designers/regulations demand additional thermal insulation in external masonry walls. Xtratherm XT/CW foil faced boards achieve high standards of insulation whilst maintaining a residual cavity to prevent moisture penetration, without a substantial increase in the width of the cavity and of the overall wall thickness.



Installation Guidelines

Cavity Wall Installation

Insert wall ties max 600mm cs one block course below DPC.

Secure cavity boards tight against inner leaf with retaining clip on approved wall ties.

Ensure a minimum 25mm residual cavity is maintained. This may have to be increased to suit conditions.

Place wall ties at max 900x450 centres each board secured with a minimum of 3 wall ties.

Ensure block joints are fully bonded with unbroken mortar.

Fix wall ties 225mm vertically and 150mm horizontally from face of unbonded jambs.

Ensure wall ties (Cavity) are kept clean of mortar and are sloped towards outer leaf.

A cavity board should be used to keep cavity clean.

Xtratherm corner boards and preformed reveal panels may be fitted to provide robust detailing.

Xtratherm Hyclips can be used to secure boards tightly against inner leaf at sills and wall plate etc. were wall ties are inappropriate.

TYPICAL 'U' VALUES and 'R' VALUES

XT/CW Cavity Wall Insulation Board		
Thickness (mm)	Ud-Value (W/m ² K)	Rd-Value (m ² K/W)
50	0.46	2.17
60	0.38	2.60
70	0.32	3.04
80	0.28	3.47
90	0.26	3.91
100	0.23	4.34
120	0.20	5.21
140	0.17	6.08

Rd and Ud values given are for insulation material only, for comprehensive calculations on all wall types and including any fixings contact Xtratherm Technical Support.

TOLERANCE

DIMENSIONS	SIZE (mm)	TOLERANCE
Length	1200	+/- 5mm
Width	450 or 600	+/- 3mm
Thickness	<60	+/- 2 mm
	≥60	+/- 3 mm

The Xtratherm range of high performance insulation boards provides the complete solution for newbuild and refurbishment.

Thin-R® Pitched Roof



XT/PR

Effective insulation of sloped roof area
Reduced insulation thickness
Reduces thermal bridging
Minimizes intrusion into living area

Suitable for insulating:

Ventilated Pitched Roof
Warm Pitched Roof
Hybrid Pitched Roof

Thin-R® Pitched Roof



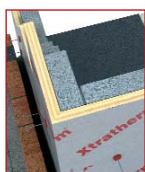
XT/RL

Effective insulation of Rafter area
Width Variable
Reduced fitting time
Minimizes intrusion into living area

Suitable for insulating:

Ventilated Pitched Roof
Warm Pitched Roof
Hybrid Pitched Roof

Thin-R® Cavity Wall



XT/CW

Robust tongue & groove jointing
Clear cavity maintained
Corner & reveal panels
Low emissivity foil facings
High thermal performance

Suitable for insulating:

Partial Fill Cavity Walls

Thin-R® Thermal Liner



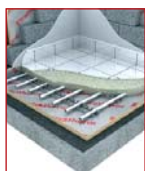
XT/TL Plasterboard

High thermal performance
Drylining & insulation in one fix
Shorter drying time
Responsive insulation system

Suitable for insulating:

Masonry Walls
Sloped Rafters
Ceilings

Thin-R® Under Floor



XT/UF

High thermal performance
Suitable for under floor heating
Reduced insulation thickness
High compressive strength

Suitable for insulating:

Solid Concrete Floors
Suspended Concrete Floors
Suspended Timber Floors

Technical Support

The Xtratherm Technical Support team provide a single point of contact to offer assistance on a wide range of issues for both the Designer and Builder and can be contacted by phone, fax or e-mail. Full details of all Xtratherm products, along with full technical literature can be downloaded from the website or requested by e-mail at:

www.xtratherm.eu
info@xtratherm.eu

Xtratherm®

Xtratherm Limited

Kells Road, Navan
County Meath, Ireland
Tel: +353 (0) 46 90 66000
Fax: +353 (0) 46 90 66090

Xtratherm UK Ltd

Park Road, Holmewood
Chesterfield, Derbyshire
S42 5UY
Tel: +44 (0) 871 2221033
Fax: +44 (0) 871 2221044

Xtratherm B.V.

Lange Voorhout 82, 2514 EJ
Den Haag,
The Netherlands
Tel: +31 (0) 878 760012
Fax: +31 (0) 878 760011