

Xtratherm Thin-R®



Xtratherm Partial Fill Cavity Wall Board XT/CW(T&G) Robust Tongued & Grooved Jointing

Xtratherm Polyisocyanurate (Polyiso) is a thermoset closed cell rigid foam insulation. During a continuous manufacturing process, liquid raw materials expanded by blowing agents are applied between a variety of engineered facings. The facings provide strength, rigidity and enhanced thermal performance.

Xtratherm Thin-R is CFC/HCFC free
(Zero Ozone Depletion Potential)

Xtratherm Thin-R XT/CW(T&G) Partial Fill Cavity Wall Insulation is the best solution when designers/regulations demand additional thermal insulation in external masonry walls. Xtratherm Thin-R boards can 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. Xtratherm Partial Fill Cavity Wall Insulation with T&G jointing provides the designer with the most robust detailing, allowing freedom of design in all exposure zones.

Physical Properties	
Property	Unit
Typical Density	26-30
Compressive strength	>120
Water Vapour Resistivity	>100
Thermal Conductivity	0.022 - 0.023
Service Temperature	-20 to +20
Surface Spread of flame	Class 1

U-value Achieved W/m ² K			
XT/CW	Aerated Block Inner leaf	Medium Block Inner leaf	Dense Block Inner leaf
25mm	0.47	0.36	0.43
30mm	0.42	0.33	0.39
35mm	0.40	0.31	0.37
40mm	0.37	0.29	0.34
45mm	0.34	0.28	0.32
50mm	0.32	0.27	0.30
55mm	0.25	0.28	0.30
60mm	0.24	0.26	0.27

Installation Procedure

- 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.
- Maintain a 50mm residual cavity to suit all exposure zones.
- Ensure a minimum 25mm residual cavity is maintained. This may have to be increased to suit conditions. (e.g. NHBC)
- Place wall ties at max 900x450 cs each board secured with minimum of 3 wall ties.
- Ensure block joints are fully bonded with unbroken mortar.
- Fix wall ties 225mm vertically and 150mm horizontally at all unbonded jambs.
- Ensure wall ties (Cavity) are kept clean of mortar and are sloped towards outer leaf.
- A cavity board may be used to keep cavity clean.
- Xtratherm corner boards may be fitted to provide robust corner detail.
- Xtratherm Hyclips can be used to secure boards tightly against inner leaf at sills and wall plate etc. were wall ties are inappropriate

Xtratherm Thin-R Corner Panels

Size: 1200mm x 450mm x T

Pivotal cut allows corner panels to be formed, providing fully sealed corner jointing and reduced thermal bridging at this vulnerable area. The offset position of the pivot allows staggered positioning of XT/CW boards in every lift.



Cross Section - showing pivotal cut for corner jointing

Xtratherm Thin-R Reveal Panels

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.



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