Linear Thermal Transmittance (Ψ) and Temperature Factor (f)

Technical Services from Xtratherm

Technical competency

The PSI value analysis has been undertaken by fully accredited BRE competent persons to EN 10211: 2007 and BR497. Our Xtratherm Technical team are qualified under the BBA calculation competency scheme CS/1006 to produce thermal and condensation calculations.

Certificate No XT-FF-E10-MCI-RE-01-0015

Date 01-Aug-12

Calculation prepared by Xtratherm Technical Services

Source www.xtratherm.com

General Construction Specification

Wall

Plasterboard on dabs

Lightweight block inner leaf (0.15)

Xtratherm CT/PIR (CavityTherm)

Brick outer leaf

General Construction Specification

Ceiling

300mm fibreglass

Plasterboard

U value Range

Wall 0.12 W/m2 K to 0.20 W/m2 K

Ceiling 0.15 W/m2 K

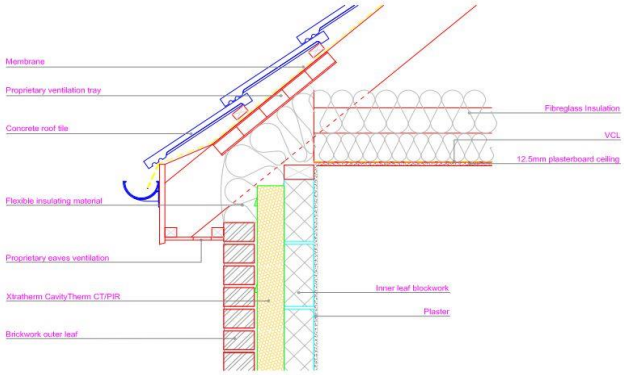
Description

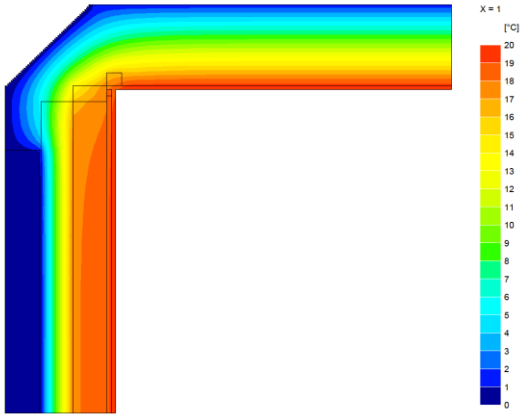
Wall ceiling junction Eaves (Insulation at ceiling level)

Reference

MCI-RE-01

Junction Detail





Linear Thermal Transmittance W.m.K

Ψ = **0.05**

Table K1 (Accredited)

0.06

Temperature Factor (for humidity and mould)

f = **0.93**

IP1/06 (Default)

0.75

Notes

Calculations are based on accredited construction detail MCI-RE-01

Notes:

- Ψ and *f* are only valid for the detail drawn and described above
- Calculations have been carried out in accordance with the following standards and guidance documents where relevant
- EN ISO 10211 2007
- EN ISO 13370 2007
- EN ISO 6846 2007
- BR 497
- BR 443
- BRE IP1/06

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Linear Thermal Transmittance (Ψ) and Temperature Factor (f)

Xtratherm
More than insulation

Specification Clauses

Thin-R CT/PIR Full Fill Cavity-Wall

The built in full fill cavity wall insulation shall be Xtratherm Thin-R CT/PIR manufactured to BS EN 13165:2008 by Xtratherm, comprising a CFC/HCFC free rigid Polyisocyanurate (PIR) core between low emissivity foil facings with engineered HIPS outer skin. The CT/PIR_ _ _mm with a BBA certified Lambda value of 0.021 W/mK to achieve a U value of __ _ _W/m2K for the wall element. To be installed in accordance with instructions issued by Xtratherm.
Xtratherm PIR achieves an A+ rating under the BRE Green Guide.
Refer to NBS clause F30 151, F30 12

Insulation
Polyisocyanurate Rigid foam

Standard
BS EN 13165:2008

Certification
BBA Certification No. 10/4786.
Issue date: 31 March 2011
BS EN ISO 9001 Quality Management System
BS EN ISO 14001 Environmental Management System
BS OHSAS 18001 Health and Safety Management System

Manufacturer UK
Xtratherm UK Limited, Holmewood Industrial Park,
Holmewood Chesterfield, Derbyshire, S42 5UY.
Tel: 0371 222 1033. Fax: 0371 222 1044.
Email: info@xtratherm.com Web: www.xtratherm.com

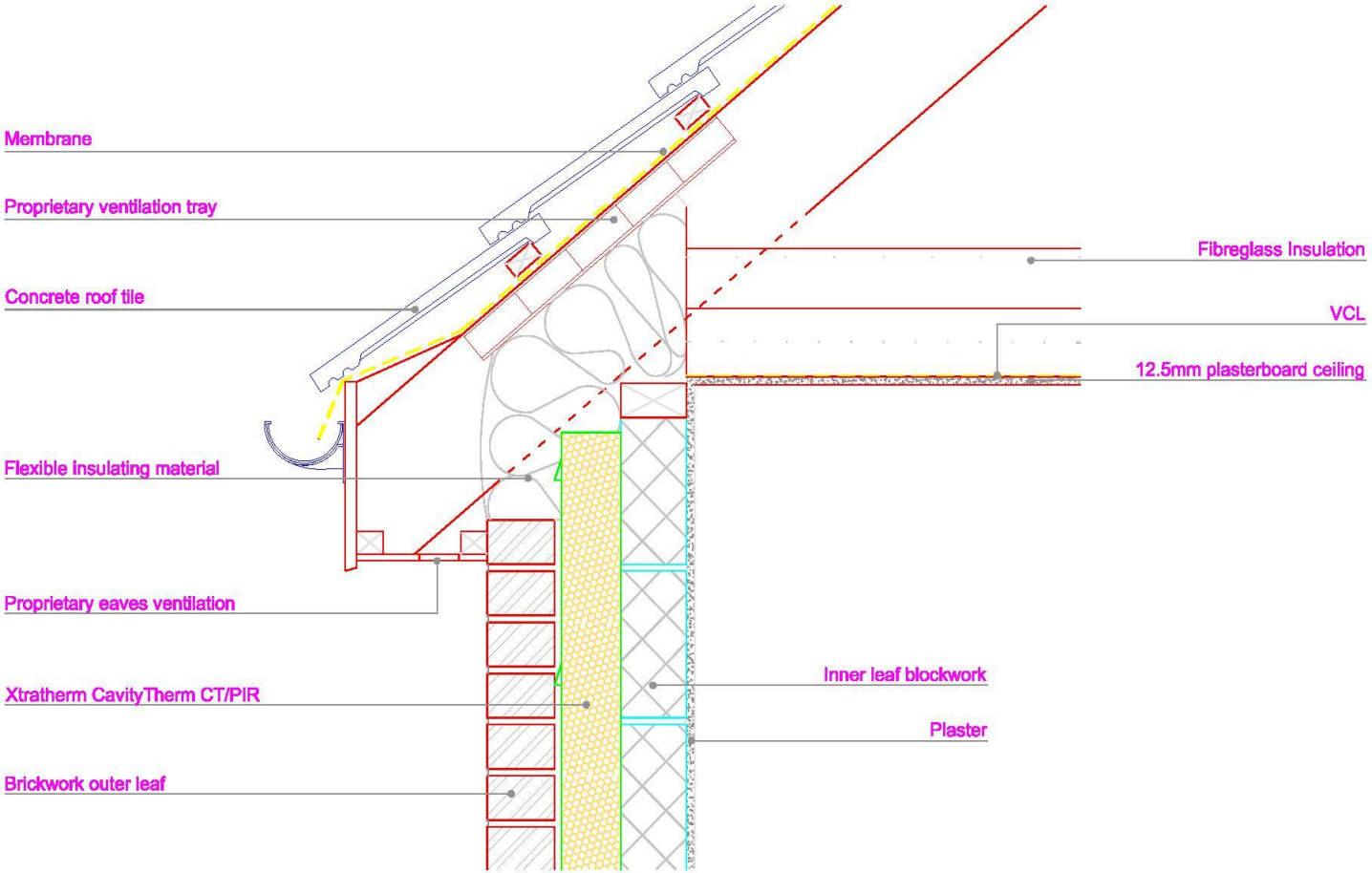
Product reference
Thin-R CT/PIR Full Fill Cavity-Wall

Face size
1200 x 450 mm

Edge profile
Rebated all four edges

Thickness
75 mm / 90 mm / 100 mm / 125 mm / 150mm

Manufacturer Ireland
Xtratherm Limited, Kells Road, Navan,
County Meath, Ireland.
Tel: 04690 66000. Fax: 04690 66090.
Email: info@xtratherm.com Web: www.xtratherm.com



ACD REF	
REFERENCE	XT-FF-E10-MCI-RE-01
SCALE	As noted at A4
REVISION	-
DATE	JUNE 2013

Wall ceiling junction - Eaves (insulation at ceiling level)
SCALE 1:10

Xtratherm®