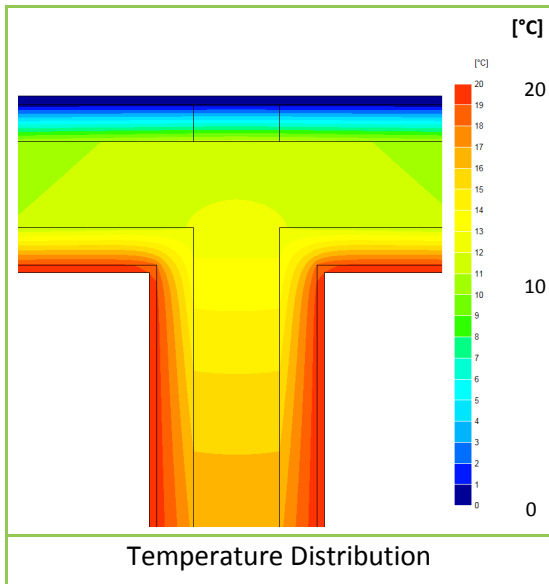
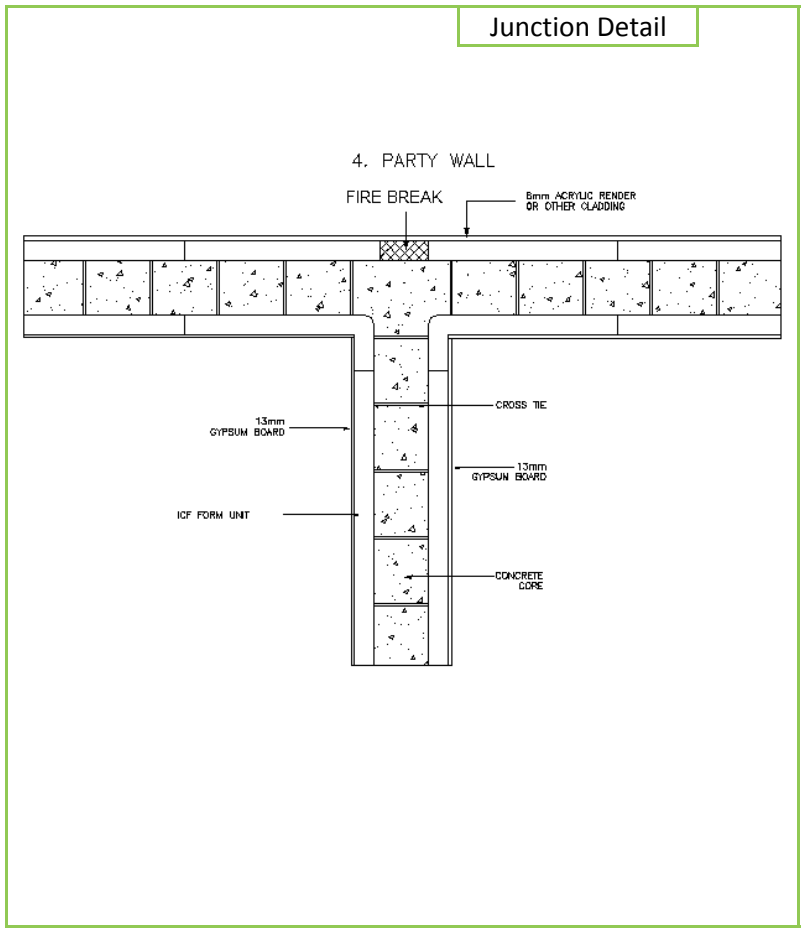


Linear Thermal Transmittance (Ψ) and Temperature Factor (f)

Certificate No: C4TM – 000363 **Issued:** Monday 15 November 2010

Issued to: UK ICFA
Christopher Stride
Insulating Concrete Formwork Association
Thermal House
PO Box 72
Billingshurst
West Sussex
RH14 0FD
Tel: 0044 (0) 1403 701167
E-mail: c.stride@btinternet.com

General Construction Specification: (see detail below for full construction)	Main/Load-bearing:	150mm (nominal) Dense Concrete Core, $\lambda \leq 2.00$
	Insulation:	2 layers of EPS, each with R value $\Rightarrow 1.805\text{m}^2\text{k/w}$ see note below
	Cavity:	15mm Cavity behind Brick if present
	Cladding:	9mm of Render OR 102mm Brick OR other Cladding
Description:	ICF Wall, Party Wall	
Reference:	Party Wall	



Linear Thermal Transmittance W/m.K	
$\Psi =$	0.148
Temperature Factor³ for Humidity and Mould	
$f =$	0.949

Calculation Prepared By: Matthew Wright MA Physics (Oxon) PGCE

- Notes: -**
- Ψ and f are only valid for the detail drawn and described above.
 - These calculations apply to ICF forms with a minimum R value for the internal insulation layer (including embedded webs/fixing strips) of $1.805\text{m}^2\text{k/w}$ or greater, (e.g. 65mm of EPS with a λ value of 0.036), and where the external layer of insulation has an equal or greater R Value.
 - U-values for the flanking walls are $U \leq 0.255 \text{ W/m}^2\text{.K}$.
 - In dwellings, a temperature factor f that is >0.75 would avoid the risk of mould growth.
 - Calculations have been performed in accordance with:
 - EN ISO 10211_2007 (British Standards)
 - IP 1/06 & BR497 (BRE Press)
 and with reference to the following publications:
 - EN ISO 6946 (British Standards)
 - BR443 (BRE Press)