

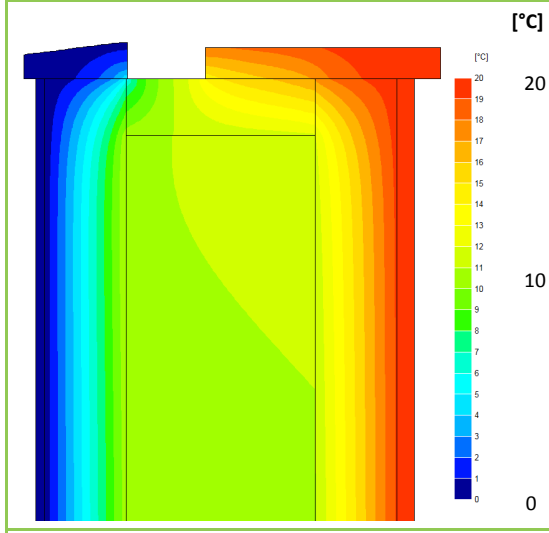
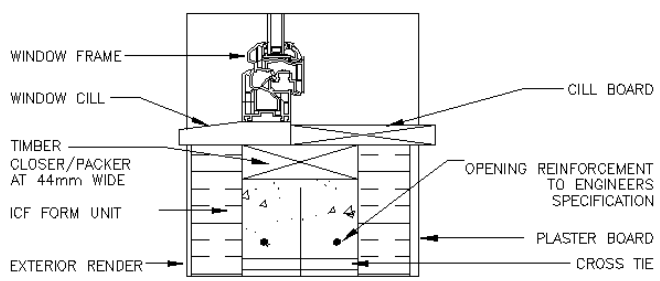
Certificate No: C4TM – 000372 **Issued:** Monday 15 November 2010

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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, Cill, timber reveal closure	
Reference:	Cill	

Junction Detail

9. WINDOW CILL



Temperature Distribution

Linear Thermal Transmittance
W/m.K

$\Psi =$ **0.042**

Temperature Factor³ for Humidity and Mould

$f =$ **0.898**

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)