

Certificate No:	C4TM – 000292 Rev. 0	Issued:	Wednesday 31 March 2010
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Issued to:
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General Construction Specification: (see detail below for full construction)	Main/Load-bearing:	Cellular Aggregate Block, Starperformer
	Insulation:	100mm Mineral Wool, $\lambda=0.040$
	Cavity:	100mm Full fill Cavity
	Cladding:	102mm Brick, $\lambda=0.77$
Description:	Windows and Doors, Steel Lintels.	
Reference:	MCI-WD-01	

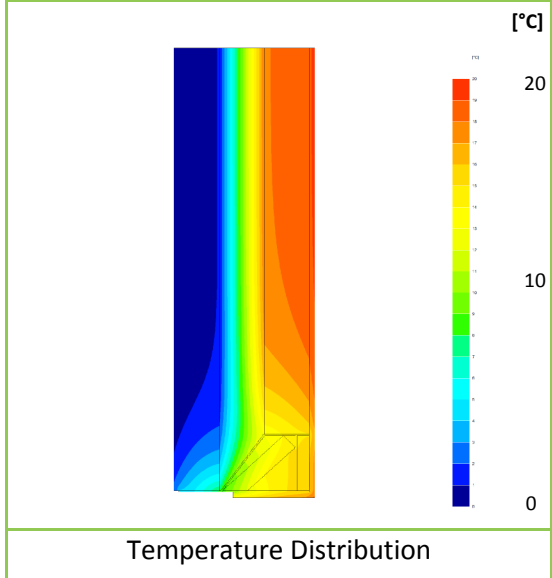
Junction Detail

Ensure thickness of lintel material is no more than 3.2mm. ①

Use only perforated base plate with an effective thermal conductivity not exceeding 30W/mK. ②

Minimum frame overlap to be 30mm ③

Accredited (Indicative) Detail Number: MCI-WD-01



Linear Thermal Transmittance W/m.K	
$\Psi =$	0.494

Temperature Factor ³ for Humidity and Mould	
$f =$	0.688

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

- Notes: -**
- Ψ and f are only valid for the detail drawn and described above.
 - U-values for the flanking walls are in the range $U = 0.33 \text{ W/m}^2\cdot\text{K}$, or less.
 - 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)