

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

Certificate No:	C4TM – 000099 Rev. 1	Issued:	Wednesday 31 March 2010
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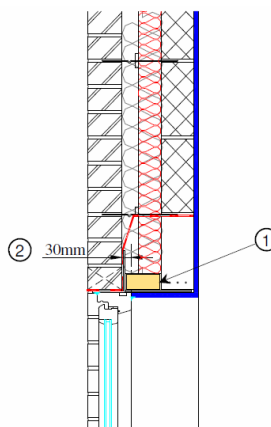
Issued to:
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General Construction Specification: (see detail below for full construction)	Main/Load-bearing:	Cellular Aggregate Block, Starperformer
	Insulation:	100mm Mineral Wool, $\lambda=0.036$
	Cavity:	100mm Full fill Cavity
	Cladding:	102mm Brick, $\lambda=0.77$
Description:	Windows and Doors, Independent Lintels.	
Reference:	MCI-WD-02	

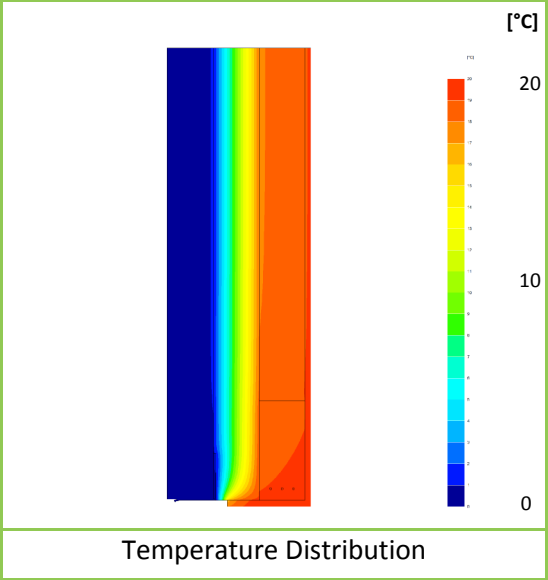
Junction Detail

Install a proprietary cavity closer or block of insulation having a path of minimum thermal resistance path through the closer of not less than 0.45 m²K/W (manufacturers certified data). ①

Minimum frame overlap to be 30mm ②



Accredited (Indicative) Detail Number: MCI-WD-02



Linear Thermal Transmittance W/m.K	
$\Psi =$	0.020

Temperature Factor ³ for Humidity and Mould	
$f =$	0.900

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 $U = 0.29$ W/m².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)