

# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )

<b>Certificate No:</b>	<b>C4TM – 000102 Rev. 1</b>	<b>Issued:</b>	<b>Wednesday 31 March 2010</b>
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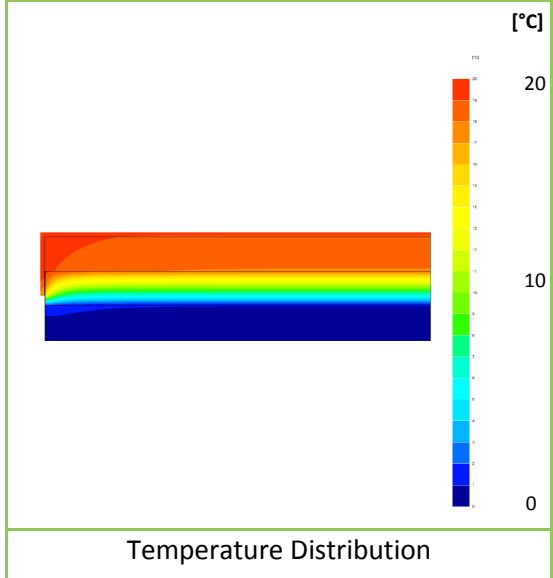
<b>General Construction Specification:</b> (see detail below for full construction)	Main/Load-bearing:	Cellular Aggregate Block, Starperformer
	Insulation:	100mm Mineral Wool, $\lambda=0.036$
	Cavity:	100mm Full fill Cavity
	Cladding:	102mm Brick, $\lambda=0.77$
<b>Description:</b>	<b>Windows and Doors, Jamb.</b>	
<b>Reference:</b>	<b>MCI-WD-05</b>	

### 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 m<sup>2</sup>K/W (manufacturers certified data). ①

Minimum frame overlap to be 30mm ②

Accredited (Indicative) Detail Number: MCI-WD-05



Linear Thermal Transmittance W/m.K	
<b><math>\Psi =</math></b>	<b>0.019</b>

Temperature Factor <sup>3</sup> for Humidity and Mould	
<b><math>f =</math></b>	<b>0.892</b>

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

- Notes: -**
- $\Psi$  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/m<sup>2</sup>.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)