

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

<b>Certificate No:</b>	<b>C4TM – 000091 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>Ground Floor, Timber Suspended Floor.</b>	
<b>Reference:</b>	<b>MCI-GF-03</b>	

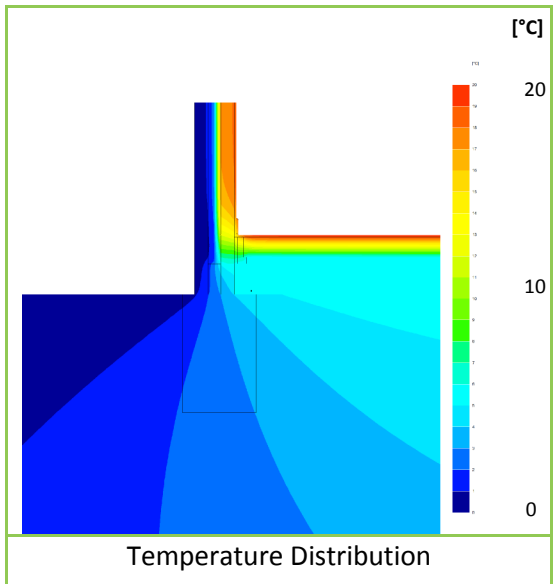
### Junction Detail

Ensure insulation is in contact with the underside of the timber flooring. ①

Pack gap between floor joist and blockwork wall with compressible insulation if over 25mm otherwise inject an insulating expanding foam. ②

If compressible insulation is installed, ensure that full insulation depth is achieved between floor joists by fixing netting to sides of joists with battens. ③

Accredited (Indicative) Detail Number: MCI-GF-03



<b>Linear Thermal Transmittance</b> W/m.K	
<b><math>\Psi =</math></b>	<b>0.139</b>

<b>Temperature Factor<sup>3</sup> for Humidity and Mould</b>	
<b><math>f =</math></b>	<b>0.816</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  $U = 0.29 \text{ W/m}^2\text{.K}$ , 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)