

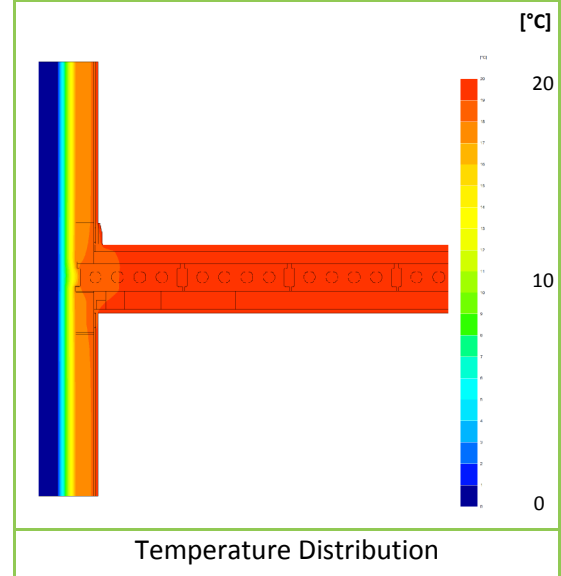
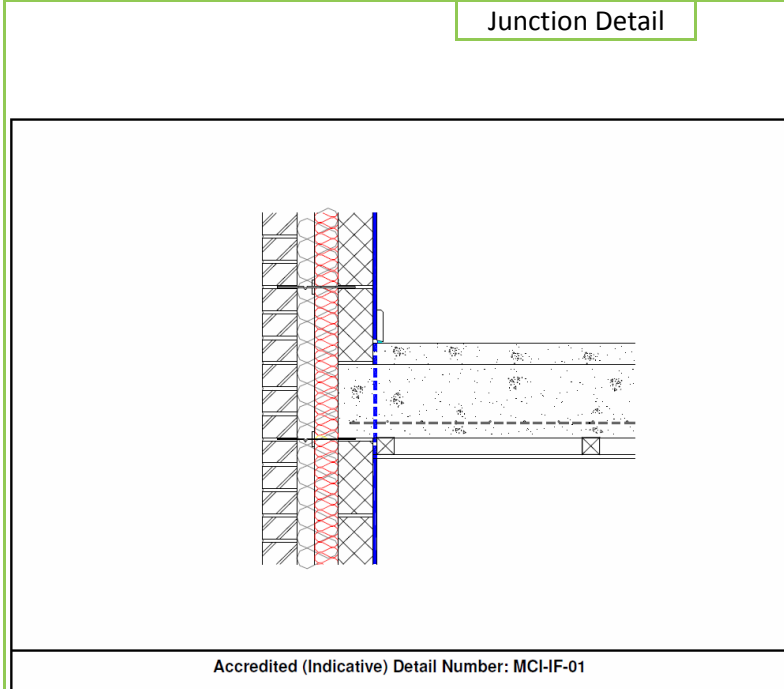
# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )

<b>Certificate No:</b>	<b>C4TM – 000092 Rev. 1</b>	<b>Issued:</b>	<b>Wednesday 31 March 2010</b>
------------------------	-----------------------------	----------------	--------------------------------

*Issued to:*  
Robin Huxley  
Besblock Limited  
Heslop  
Halesfield 21  
Telford  
Shropshire  
UK  
TF7 4NF  
01952 685000

<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>Intermediate Floor, Concrete. (Between Dwelling)</b>	
<b>Reference:</b>	<b>MCI-IF-01</b>	

Junction Detail



<b>Linear Thermal Transmittance</b> W/m.K	
<b><math>\Psi =</math></b>	<b>0.107</b>

<b>Temperature Factor<sup>3</sup> for Humidity and Mould</b>	
<b><math>f =</math></b>	<b>0.952</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)