C4Ci Consultants Construction Innovation

Certificate No:	*C4TM - 000091*	Issued:	2 April 2009

Issued to:
Besblock Limited
Heslop
Halesfield Industrial Estate
Telford
Shropshire
TF7 4NF
Tel: 01952 685000

General Construction Specification: (see detail below for full construction)		
	Load bearing, Inner Leaf:	100mm Star Performer Block
	Insulation:	100mm fullfill Mineral Wool
	Cavity:	100mm fullfill
	Cladding, Outer Leaf:	103mm brick

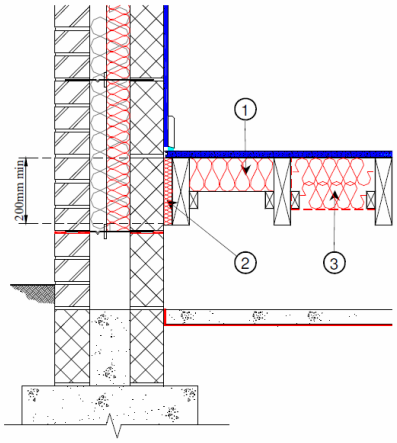
Description:	**Ground Floor, Timber Suspended Floor**
Reference:	**Accredited Detail MCI-GF-03**

Junction Detail

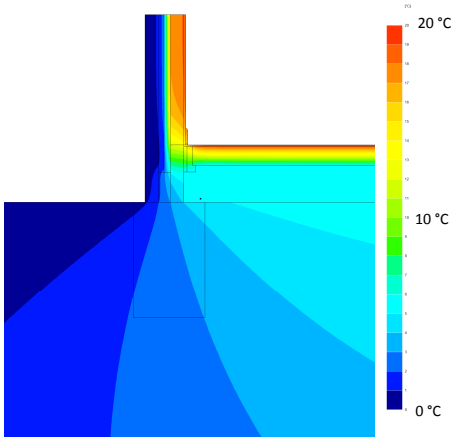
Ensure insulation is in contact with the underside of the timber flooring. ①

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



Temperature Distribution

Linear Thermal Transmittance W/m.K	
Ψ =	**0.160**

Temperature Factor[3] for Humidity and Mould	
***f* =**	**0.816**

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

Notes:

1. Ψ and *f* are only valid for the detail drawn and described above.
2. U-values for the flanking walls are within the range U = 0.28 W/m^2.K or less.
3. In dwellings, a temperature factor *f* that is >0.75 would avoid the risk of mould growth.
4. 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)*