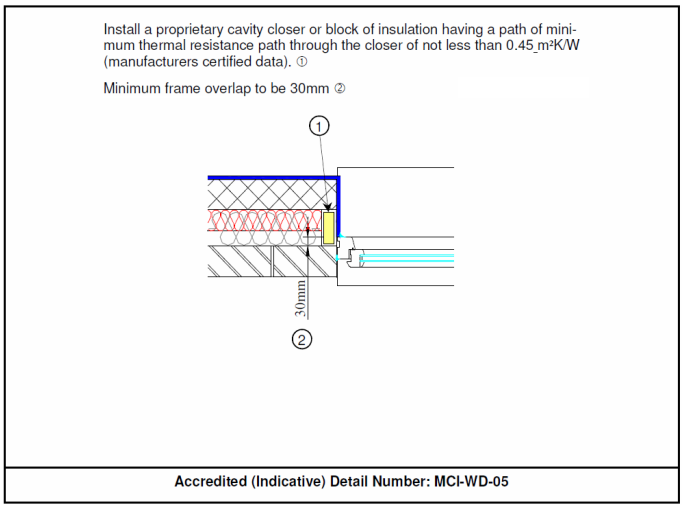
C4Ci Consultants Construction Innovation

Certificate No:	***C4TM – 000397 Rev. 0***	**Issued:**	**Tuesday 21 September 2010**

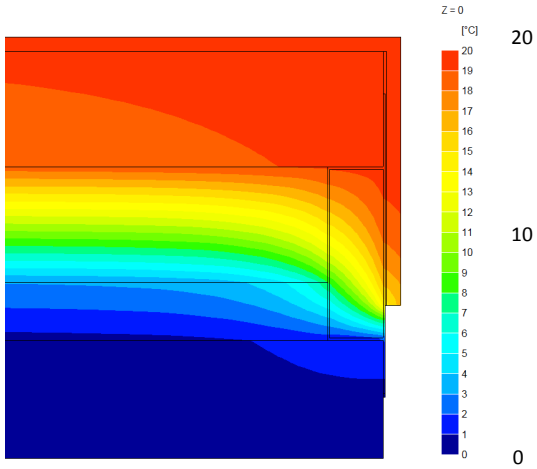
Issued to: Robin Huxley
Besblock Limited
Heslop
Halesfield 21
Telford
Shropshire
UK
TF7 4NF
t: 01952 685000
e:technical@besblock.com

General Construction Specification: (see detail below for full construction)		
	Main/Load-bearing:	Cellular Aggregate Block, Starperformer
	Insulation:	100mm Rigid PIR/PU, Partial Fill, λ = 0.023
	Cavity:	100mm Partial-fill, with 50mm Low-e Cavity
	Cladding:	102mm Brick, λ=0.77
Description:	**Jamb**	
Accredited Code:	**MCI-WD-05**	

Junction Detail



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



Temperature Distribution

Linear Thermal Transmittance W/m.K	
Ψ =	**0.042**

Temperature Factor[3] for Humidity and Mould5	
***f* =**	**0.819**

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 in the range U = 0.2 W/m².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)*