C4Ci Consultants Construction Innovation

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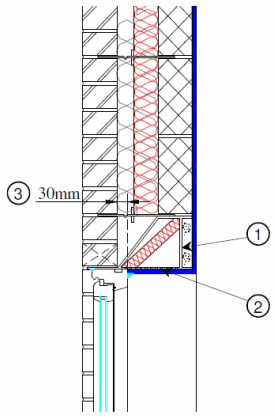
General Construction Specification: (see detail below for full construction)		
	Main/Load-bearing:	Cellular Aggregate Block, Starperformer
	Insulation:	100mm Mineral Wool, λ=0.036
	Cavity:	100mm Full fill Cavity
	Cladding:	102mm Brick, λ=0.77
Description:	**Windows and Doors, Steel Lintels.**	
Reference:	**MCI-WD-01**	

Junction Detail

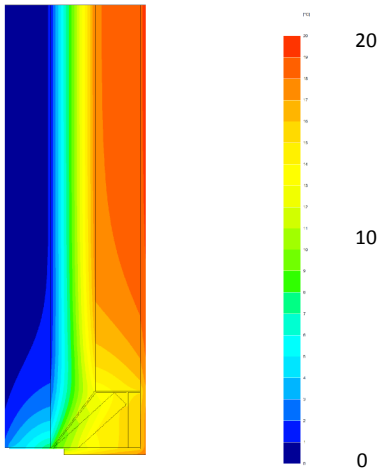
Ensure thickness of lintel material is no more than 3.2mm. ①

Use only perforated base plate with an effective thermal conductivity not exceeding 30W/mK. ②

Minimum frame overlap to be 30mm ③



Accredited (Indicative) Detail Number: MCI-WD-01



Temperature Distribution

Linear Thermal Transmittance W/m.K	
Ψ =	**0.499**

Temperature Factor[3] for Humidity and Mould	
***f* =**	**0.688**

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 = ***0.29*** 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)*