Linear Thermal Transmittance (Ψ) and Temperature Factor (*f*)

Certificate :	WRTM – 1012-JSP E3 vs. 0	Issued:	10 March 2025

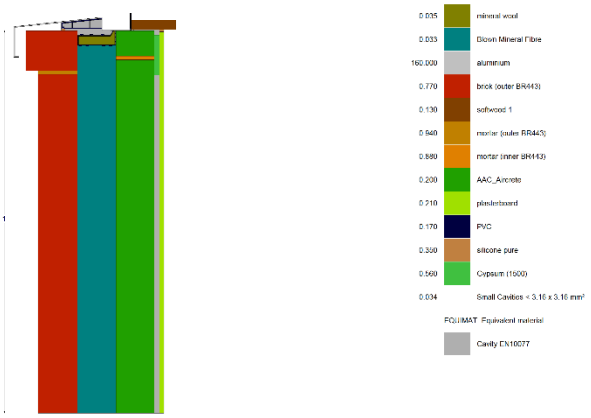
Issued to: Gerard McGuigan

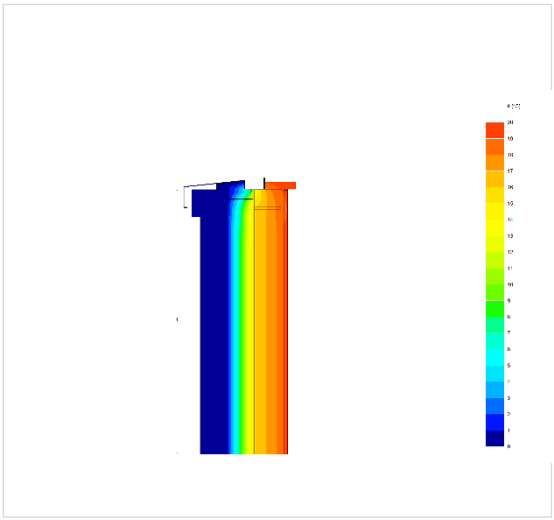
JSP Sustainability

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General Construction Specification: (see detail below for full construction)		
	Main/Load-bearing:	100mm Aerated Concrete Block
	Insulation:	102mm layer Blown Mineral Fibre, λ = 0.033
	Cavity:	Fully filled with insulation
	Cladding:	102mm Brick

Description:	**Window Sill**	
Reference:	**E3**	**Window Sill**





Temperature Distribution

Linear Thermal Transmittance W/m.K	
Ψ =	**0.030**

Temperature Factor[3] for Humidity and Mould	
***f* =**	**0.955**

Calculation prepared by: David Taylor

Notes:

1. Ψ and *f* are only valid for the detail drawn and described above.
2. U-values are within the ranges of; for the flanking walls U = 0.25 W/m².K +/- 10% (external brick with cavity U = 0.159, thin render U = 0.167).
3. In dwellings UK regulations indicate that a temperature factor *f* that is >0.75 would avoid the risk of mould. For other nations, jurisdictions and climates, other standards may apply. E.g. 0.65; Switzerland: 0.75; Belgium: 0.7; Germany: 0.7; Finland: 0.87. French, German and other standards often do not indicate a single number for acceptable risk, but are dependent on circumstances.
4. Calculations have been performed in accordance with:
   - **EN ISO 10211_2017** *(British Standards)*
   - **IP 1/06 & BR497 : 2016 (2nd Edition)** *(BRE Press)*

   and with reference to the following publications:
   - **EN ISO 6946 : 2017** *(British Standards)*
   - ***BR 443 (2019 Edition)*** *(BRE Press)*