Linear Thermal Transmittance (Ψ) and Temperature Factor (ƒ)

Certificate No:	Project Ref - Isotex Blocks	Issued:	23 December 2024

Description:	Isotex Block Jamb	
Reference:	E4	Jamb

Junction Detail

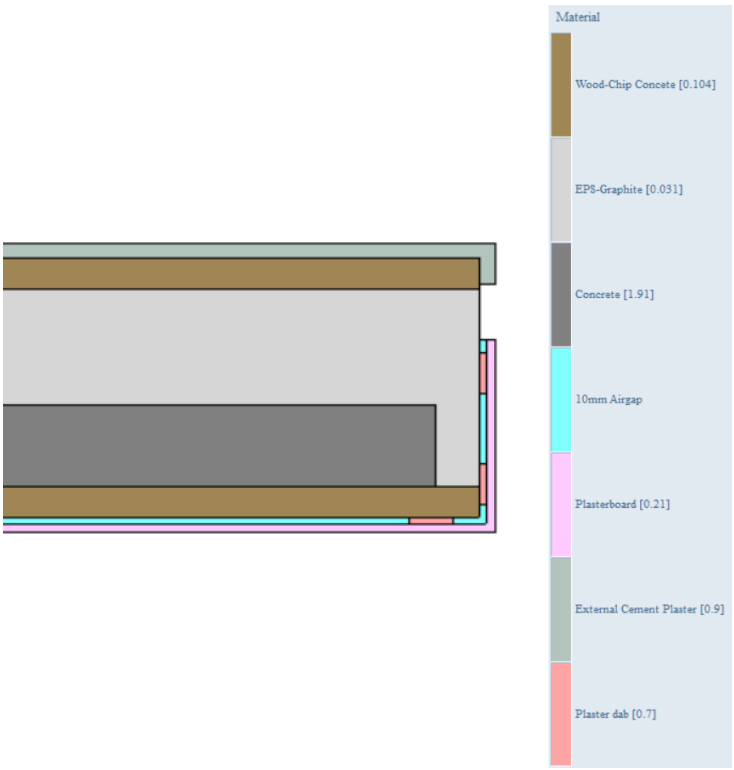

Fig. 1.0 Two-dimensional annotated detail

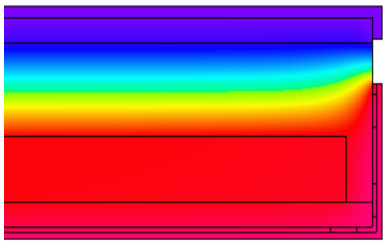

Fig. 2.0 Two-dimensional temperature distribution

SAP 2012 Default (Ψ)	0.100 W/m.K
SAP 10 Default (Ψ)	0.100 W/m.K
Calculated Psi (Ψ)	0.006 W/m.K
Temperature Factor (ƒ)	0.96

Calculated by: Sam Townsend

Standards

BR 497:2016 '*Conventions for calculating linear thermal transmittance and temperature Factors* ' Second Edition
BR 443:2019 '*Conventions for U-value calculations* '
BS EN ISO 6946:2007 '*Building components and building elements - Thermal resistance and thermal transmittance - Calculation method (ISO 6946:2007)* '
BS EN ISO 10211:2007 '*Thermal bridges in building construction - Heat flows and surface temperatures - Detailed calculations (ISO 10211:2007)* '
BS EN ISO 13370:2007 '*Thermal performance of buildings - Heat transfer via the ground - Calculations methods (ISO 13370:2007)* '
BRE Information Paper IP 1/06

Notes

- Only applicable where the detail above is followed and the specified lambda (thermal conductivity) values are achieved.
- The above detail has been modified from that provided, in accordance with BR497 and to reflect data specified - figures are only valid for this detail.
- To limit the risk of surface condensation and mould growth in dwellings, BRE IP 1/06 Table 1 stipulates the temperature factor must be ≥ 0.75.

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