



# Psi Value ( $\Psi$ ) Calculations & Report

CERTIFICATE REF:  
HTP-100F-0.034-0.11

External wall construction including Hi-therm Lintel:

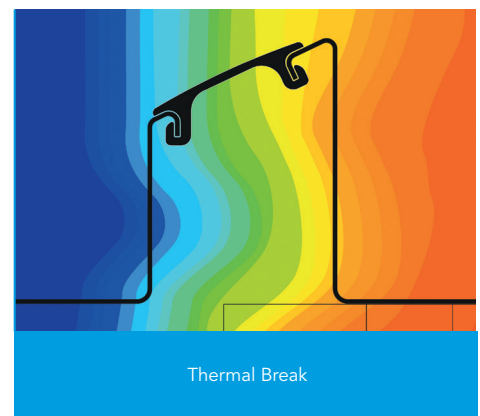
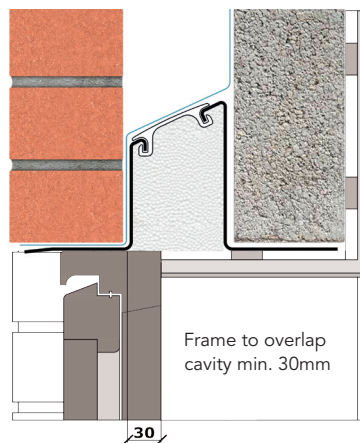
|                                       |   |
|---------------------------------------|---|
| <b>CAVITY WIDTH</b><br>100mm          | <b>CAVITY INSULATION TYPE</b><br>Mineral Wool / Blown Fibre |
| <b>CAVITY INSULATION FILL</b><br>Full | <b>BLOCK TYPE</b><br>Aircrete Block                         |

**Psi Value ( $\psi$ )**  
**0.057**  
(W/mK)

### Material Thermal Conductivities (W/mK)

| Material                 | Thickness (mm) | Conductivity (W/mK) |
|--------------------------|----------------|---------------------|
| External Brick           | 100            | 0.770               |
| Pumped Bead              | 100mm          | 0.034               |
| Aircrete Block           | 100            | 0.11                |
| Plaster Dabs & Air space | 10             | 0.066               |
| Plaster Board            | 12.5           | 0.190               |

This report was carried out using Physibel Trisco thermal analysis software and the modeling follows the conventions set out for calculating linear thermal transmittance and temperature factors in accordance with BR497.



**Temperature Factor**  
**f = 0.903**  
(DEFAULT 0.75)

**U Value**  
**0.222**  
(W/m<sup>2</sup>K)

