



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

CERTIFICATE REF:  
HTP-150F-0.037-1.33

### External wall construction including Hi-therm Lintel:

**CAVITY WIDTH**  
150mm

**CAVITY INSULATION TYPE**  
Cavity Slabs

**CAVITY INSULATION FILL**  
Full

**BLOCK TYPE**  
Dene Block

**Psi Value ( $\psi$ )**  
**0.062**  
(W/mK)

### Material Thermal Conductivities (W/mK)

| Material                 | Thickness (mm) | Conductivity (W/mK) |
|--------------------------|----------------|---------------------|
| External Brick           | 100            | 0.770               |
| Cavity Slabs             | 150mm          | 0.037               |
| Dense Block              | 100            | 1.33                |
| Plaster Dabs & Air space | 10             | 0.066               |
| Plaster Board            | 12.5           | 0.190               |



**Temperature Factor**

**$f = 0.891$**   
(DEFAULT 0.75)



**U Value**

**0.213**  
(W/m<sup>2</sup>K)

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.

