



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

CERTIFICATE REF:  
HTP-100F-0.022-0.31

External wall construction including Hi-therm Lintel:

**CAVITY WIDTH**  
100mm

**CAVITY INSULATION TYPE**  
Rigid Insulation Board

**CAVITY INSULATION FILL**  
Full

**BLOCK TYPE**  
Ultra Lightweight

**Psi Value ( $\psi$ )**  
**0.059**

(W/mK)

### Material Thermal Conductivities (W/mK)

Material	Thickness (mm)	Conductivity (W/mK)
External Brick	100	0.770
Rigid Insulation Board	100mm	0.022
Ultra Lightweight	100	0.031
Plaster Dabs & Air space	10	0.066
Plaster Board	12.5	0.190



**Temperature Factor**

**$f = 0.908$**

(DEFAULT 0.75)



**U Value**

**0.184**

(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.

