



Psi Value (Ψ) Calculations & Report

CERTIFICATE REF:
HTP-150F-0.037-0.51

External wall construction including Hi-therm Lintel:

CAVITY WIDTH
150mm

CAVITY INSULATION TYPE
Cavity Slabs

CAVITY INSULATION FILL
Full

BLOCK TYPE
Medium Dense Block

Psi Value (ψ)
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 |
| Medium Dense Block | 100 | 0.51 |
| Plaster Dabs & Air space | 10 | 0.066 |
| Plaster Board | 12.5 | 0.190 |



Temperature Factor

$f = 0.891$

(DEFAULT 0.75)



U Value

0.208

(W/m²K)

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.

