



Psi Value (Ψ) Calculations & Report

CERTIFICATE REF:
HTP-150F-0.033-0.19

External wall construction including Hi-therm Lintel:

| | |
|---------------------------------------|--|
| CAVITY WIDTH 150mm | CAVITY INSULATION TYPE Pumped Bead |
| CAVITY INSULATION FILL Full | BLOCK TYPE Aircrete Block |

Psi Value (ψ)
0.065
(W/mK)

Material Thermal Conductivities (W/mK)

| Material | Thickness (mm) | Conductivity (W/mK) |
|--------------------------|----------------|---------------------|
| External Brick | 100 | 0.770 |
| Pumped Bead | 150mm | 0.033 |
| Aircrete Block | 100 | 0.19 |
| Plaster Dabs & Air space | 10 | 0.066 |
| Plaster Board | 12.5 | 0.190 |

Temperature Factor
 $f = 0.89$
(DEFAULT 0.75)

U Value
0.177
(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.

