



Psi Value (Ψ) Calculations & Report

CERTIFICATE REF:
HTP-100p-0.018-0.15

External wall construction including Hi-therm Lintel:

CAVITY WIDTH
100mm

CAVITY INSULATION TYPE
Rigid Insulation Board

CAVITY INSULATION FILL
Partial

BLOCK TYPE
Aircrete Block

Psi Value (ψ)
0.066

(W/mK)

Material Thermal Conductivities (W/mK)

| Material | Thickness (mm) | Conductivity (W/mK) |
|--------------------------|----------------|---------------------|
| External Brick | 100 | 0.770 |
| Rigid Insulation Board | 50mm | 0.018 |
| Aircrete Block | 100 | 0.15 |
| Plaster Dabs & Air space | 10 | 0.066 |
| Plaster Board | 12.5 | 0.190 |



Temperature Factor

$f = 0.902$

(DEFAULT 0.75)



U Value

0.216

(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.

