



Psi Value (Ψ) Calculations & Report

CERTIFICATE REF:
HTP-150P-0.018-0.24

External wall construction including Hi-therm Lintel:

CAVITY WIDTH
150mm

CAVITY INSULATION TYPE
Rigid Insulation Board

CAVITY INSULATION FILL
Partial

BLOCK TYPE
Ultra Lightweight

Psi Value (ψ)
0.071

(W/mK)

Material Thermal Conductivities (W/mK)

Material	Thickness (mm)	Conductivity (W/mK)
External Brick	100	0.770
Rigid Insulation Board	100mm	0.018
Ultra Lightweight	100	0.24
Plaster Dabs & Air space	10	0.066
Plaster Board	12.5	0.190



Temperature Factor

$f = 0.89$

(DEFAULT 0.75)



U Value

0.137

(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.

