Hi-therm+™
LINTELS

Ryder Close, Cadley Hill Industrial Estate, Swadlincote,
South Derbyshire,DE11 9EU, T: 01283 200 150 | F: 01283 223 352

Psi Value (Ψ)
Calculations & Report

CERTIFICATE REF:
HTP-100F-0.034-0.11

External wall construction including Hi-therm Lintel:

CAVITY WIDTH
100mm

CAVITY INSULATION TYPE
Mineral Wool / Blown Fibre

CAVITY INSULATION FILL
Full

BLOCK TYPE
Aircrete Block

Material Thermal Conductivities (W/mK)

Material	Thickness (mm)	Conductivity (W/mK)
External Brick	100	0.770
Pumped Bead	100mm	0.034
Aircrete Block	100	0.11
Plaster Dabs & Air space	10	0.066
Plaster Board	12.5	0.190

Psi Value (ψ)
0.057
(W/mK)

Temperature Factor
$f =$ **0.903**
(DEFAULT 0.75)

U Value
0.222
(W/m^2K)

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.