

Element Type : Timber frame insulation between studs

Standard U-value : BS EN ISO 6946

Construction Details

Layer Index	Thickness (mm)	Material Name	Conductivity (W/mK)	Fraction	Resistance (m ² K/W)
1	103.00	Brickwork (outer leaf)	0.770	1.00	0.134
2	50.00	Cavity (unventilated)	0.000	1.00	0.180
3	9.00	Timber - Plywood	0.130	1.00	0.069
4	140.00	Mineral wool batt	0.035	0.85	4.000
+	-	Timber - Softwood	0.130	0.15	1.077
5	12.50	Plasterboard	0.210	1.00	0.060

Total Thickness : 314.50

Upper Resistance : 3.663

Lower Resistance : 3.456

Interim U-value

Interim U-value : 0.281

U-value Fixings Corrections

Total Fastening Correction : 0.0000

U-value Air Gaps Corrections

Layer Index	Air Gap Corrections
4	Airgaps with no air circulation

Total Airgap Correction : 0.0064

U-value

U-value (Corrected) : 0.287 W/m² K

U-value (Rounded) : 0.29 W/m² K