

Element Type : Timber frame I 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	Insulation	0.770	1.00	0.134
2	50.00	Cavity (unventilated)	0.000	1.00	0.180
3	9.00	Fibreboard (600 kg/m ²)	0.140	1.00	0.064
4	45.00	Insulation	0.035	0.83	1.286
+	-	Timber - Softwood	0.130	0.17	0.346
5	150.00	Insulation	0.035	0.96	4.286
+	-	Timber - Softwood	0.130	0.04	1.154
6	45.00	Insulation	0.035	0.83	1.286
+	-	Timber - Softwood	0.130	0.17	0.346
7	12.50	Plasterboard	0.250	1.00	0.050

Total Thickness : 414.50

Upper Resistance : 6.871

Lower Resistance : 6.224

Interim U-value

Interim U-value : 0.153

U-value Fixings Corrections

Total Fastening Correction : 0.0000

U-value Air Gaps Corrections

Layer Index	Air Gap Corrections
5	Airgaps with no air circulation

Total Airgap Correction : 0.0035

U-value

U-value (Corrected) : 0.156 W/m² K

U-value (Rounded) : 0.16 W/m² K