

U Value Calculation

Software: Stroma U-value Calculator - Version 0.92
 Date Printed: 13/07/2023 10:40
 Construction Type: Wall - External Wall - Brick
 Calculation Method: BS EN ISO 6946

Wall Construction

No	Description	Main Element			Bridging Element		
		Thickness	λ	R-value	λ	R-value	Fraction
-	Internal Surface Resistance	-	-	0.13	-	-	-
1	Plasterboard	12.5	0.25	0.05	-	-	-
2	Timber Kit	140	0.13	1.076923	0.18	0.778	0.9
3	Kooltherm K12 Framing Board (110 mm)	110	0.02	5.5	-	-	-
4	Soft Wood/Plywood/Chipboard (Hardwood) (mm)	9	0.18	0.05	-	-	-
5	Polythene + 1000 gauge (0 mm)	2	-	0.18	-	-	-
6	Ventilated Cavity (0 mm)	50	-	0.18	-	-	-
7	Brick Outer Leaf	100	0.77	0.129870	0.94	0.106	0.1712
-	External Surface Resistance	-	-	0.04	-	-	-
		$\Sigma=423.5\text{mm}$		$\Sigma=7.336793$			

Resistances

Lower Limit	Upper Limit	Average
7.055	7.062	7.059 m ² K/W

Wall U-value Corrections

No Correction Values

Wall U-value

U-value	0.142
U-value rounded	0.14 W/m ² K