

U Value Calculation

Software: Stroma U-value Calculator - Version 0.92
 Date Printed: 17/01/2023 16:41
 Construction Type: Wall - 75 - 6 Inch - 50 Clad
 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	Plaster (Lightweight)	3	0.18	0.017	-	-	-
2	Plasterboard Standard	12.5	0.21	0.06	-	-	-
3	XPS	75	0.03	2.5	-	-	-
4	Concrete	159	1.93	0.082	0.88	0.181	0.0667
5	XPS	50	0.03	1.667	-	-	-
6	Battens (25 mm)	25	-	0.18	0.13	0.192	0.095
7	Cladding	18	0.13	0.138	-	-	-
-	External Surface Resistance	-	-	0.04	-	-	-

$\Sigma=342.5\text{mm}$

$\Sigma=4.814$

Resistances

Lower Limit	Upper Limit	Average
4.818	4.821	4.82 m ² K/W

Wall U-value Corrections

No Correction Values

Wall U-value

U-value	0.207
U-value rounded	0.21 W/m ² K