

U Value Calculation

Software: Stroma U-value Calculator - Version 0.92  
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 Construction Type: Wall - 100 - 6 Inch - 100 Clad  
 Calculation Method: BS EN ISO 6946

Wall Construction

No	Description	Main Element			Bridging Element		
		Thickness	$\lambda$	R-value	$\lambda$	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	100	0.03	3.333	-	-	-
4	Concrete	159	1.93	0.082	0.88	0.181	0.0667
5	XPS	100	0.03	3.333	-	-	-
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	-	-	-

$\Sigma=417.5\text{mm}$

$\Sigma=7.314$

Resistances

Lower Limit	Upper Limit	Average
7.318	7.321	7.32 m <sup>2</sup> K/W

Wall U-value Corrections

No Correction Values

Wall U-value

U-value	0.137
U-value rounded	0.14 W/m <sup>2</sup> K