

U Value Calculation

Software: Stroma U-value Calculator - Version 0.92  
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 Construction Type: Wall - External Walls  
 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	Plasterboard Standard	12.5	0.21	0.059524	-	-	-
2	Plaster Dabs Cavity (15 mm)	15	-	0.17	0.43	0.035	0.2001
3	Celcon Solar (100 mm)	100	0.11	0.909091	0.88	0.114	0.0667
4	Celotex CW4000	75	0.022	3.409091	-	-	-
5	Unventilated Cavity - (Wall - Low Emissivity)	50	-	0.44	-	-	-
6	Brickwork Outer Leaf - BRE (102.5 mm)	102.5	0.77	0.133117	0.94	0.109	0.1712
-	External Surface Resistance	-	-	0.04	-	-	-
		$\Sigma=355\text{mm}$		$\Sigma=5.290823$			

Resistances

Lower Limit	Upper Limit	Average
4.922	5.197	5.06 m <sup>2</sup> K/W

Wall U-value Corrections

No Correction Values

Wall U-value

U-value	0.198
U-value rounded	0.20 W/m <sup>2</sup> K