

U Value Calculation

Software: Stroma U-value Calculator - Version 0.92
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 Construction Type: Roof - Plain Ceiling
 Calculation Method: BS EN ISO 6946

Roof Construction

| No | Description | Main Element | | | Bridging Element | | |
|----|-----------------------------|-------------------------|-----------|-------------------|------------------|---------|----------|
| | | Thickness | λ | R-value | λ | R-value | Fraction |
| - | Internal Surface Resistance | - | - | 0.1 | - | - | - |
| 1 | Plasterboard Standard | 12.5 | 0.21 | 0.059524 | - | - | - |
| 2 | Mineral Wool Quilt | 100 | 0.042 | 2.380952 | 0.13 | 0.769 | 0.09 |
| 3 | Mineral Wool Quilt | 300 | 0.042 | 7.142857 | - | - | - |
| - | External Surface Resistance | - | - | 0.04 | - | - | - |
| | | $\Sigma=412.5\text{mm}$ | | $\Sigma=9.723333$ | | | |

Resistances

| Lower Limit | Upper Limit | Average |
|-------------|-------------|--------------------------|
| 9.346 | 9.553 | 9.449 m ² K/W |

Roof U-value Corrections

No Correction Values

Roof U-value

| | |
|-----------------|-------------------------|
| U-value | 0.106 |
| U-value rounded | 0.11 W/m ² K |