

U-value calculation

by BRE U-value Calculator version 2.03

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Filename: C:\Documents and Settings\AlanM\My Documents\Co-ordinate\CO 149 Eden Lime Morter\1 General Correspondence\Solid Wall 600mm 1.14.uva (File saved: 07 Mar 2011 13:25)

Element type: Wall - Masonry solid wall

Calculation Method: BS EN ISO 6946

Solid Wall 600mm 1.14

Eden Lime Mortar

Edenholme

Great Musgrave

Kirkby Seephen, CA17 4DP

| <u>Layer</u> | <u>d (mm)</u> | <u>λ layer</u> | <u>λ bridge</u> | <u>Fraction</u> | <u>R layer</u> | <u>R bridge</u> | <u>Description</u> |
|--------------|--------------------------------------|-----------------------------------|------------------------------------|-----------------|----------------|-----------------|--------------------|
| | | | | | 0.130 | | Rsi |
| 1 | 50 | 0.113 | | | 0.442 | | Eden Lime Mortar |
| 2 | 600 | 2.300 | 0.880 | 0.0300 | 0.261 | 0.682 | Sandstone |
| | | | | | <u>0.040</u> | | Rse |
| | <u>650 mm</u> (total wall thickness) | | | | 0.873 | | |

Total resistance: Upper limit: 0.882 Lower limit: 0.878 Ratio: 1.004 Average: 0.880 m²K/W

U-value 1.136

U-value (rounded) 1.14 W/m²K

Calculated by:

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