

U-value calculation

by BRE U-value Calculator version 1.10d

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Element type: Wall - Timber framed - insulation between studs

Calculation Method: BS EN ISO 6946

<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	12.5	0.210			0.060		Plasterboard
2							Vapour control layer
3	140	0.040	0.120	0.150	3.500	1.167	Timber Frame + Termex
4	10	0.130			0.077		Plywood sheathing
5							Breather membrane
6	50	R-value			0.180		Cavity unventilated
7	102	0.770			0.132		Brick outer leaf
					<u>0.040</u>		Rse
	<u>315 mm</u> (total wall thickness)				4.119		

Total resistance: Upper limit: 3.444 Lower limit: 3.311 Average: 3.378 m²K/W

U-value (uncorrected) 0.296

U-value corrections

Air gaps in layer 2: Level 1, $\Delta U = 0.000$

Total ΔU 0.000

U-value (corrected) 0.296

U-value (rounded) 0.30 W/m²K

Calculated by:

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