

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	145	0.040	0.120	0.150	3.625	1.208	Timber Frame + Termex
4	10	0.130			0.077		Plywood sheathing
5							Breather membrane
6	4	R-value			0.125		YBS Breather Foil
7	50	R-value			0.665		Cavity unventilated
8	102	0.770	0.940	0.190	0.132	0.109	Brick outer leaf
					<u>0.040</u>		Rse
	<u>324 mm</u> (total wall thickness)				<u>4.854</u>		

Total resistance: Upper limit: 4.220 Lower limit: 4.012 Average: 4.116 m²K/W

U-value (uncorrected) 0.243

U-value corrections

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

Total ΔU 0.000

U-value (corrected) 0.243

U-value (rounded) 0.24 W/m²K

Calculated by:

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