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

Layer	d (mm)	λ layer	λ bridge	Fraction	R layer	R bridge	Description
					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	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
					0.040		Rse
	319 mm (total wall thickness)				4.729		

Total resistance: Upper limit: 4.121 Lower limit: 3.916 Average: 4.018 m²K/W

U-value (uncorrected) 0.249

U-value corrections
Air gaps in layer 2: Level 1, ΔU = 0.000

Total ΔU 0.000

U-value (corrected) 0.249
U-value (rounded) 0.25 W/m²K

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