

U-value calculation

by BRE U-value Calculator version 2.04a

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Element type: Wall - Other external wall type

Calculation Method: BS EN ISO 6946

TPS ThermaPack Double Container U-value

Layer	d (mm)	λ layer	λ bridge	Fraction	R layer	R bridge	Description
					0.130		Rsi (Internal)
1	25	R-value ¹			0.670	0	Cavity Before Product
2	3.7	R-value			0.125	0	Thermapack Double
3	25	R-value ²	50.0	0.500	0.670	0.00050	Corrugation Cavity
4	1.5	50.0				0	Galvanized Steel
					<u>0.040</u>		Rse (External)
	<u>55 mm</u> (total wall thickness)				1.635		

¹Calculated with specified emissivity of 0.05²Calculated with specified emissivity of 0.05Total resistance: Upper limit: 1.214 Lower limit: 0.966 Ratio: 1.257 Average: 1.090 m²K/W

U-value (uncorrected) 0.917

U-value correctionsAir gaps in layer 2 $\Delta U = 0.000$ (Level 0)Fixings in layer 2 $\Delta U = 0.004$ (2.50 per m², 80.0 mm² cross-section, $\lambda = 17.0$)Total ΔU 0.004 (0.5% of U)U-value (corrected) 0.917 (ΔU not added since it is less than 3% of U)**U-value (rounded) 0.92 W/m²K**

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