

Project Information

Date 16 April 2020
Client GW, OWLarchitecture.com Project Home Owners Guide
25 Crescent View Yorkshire
Leeds
LS17 7QF

Construction Type

Element : Flat roof - Cold - Insulation Between & Below Joists 400mm Joist Spacing
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Internal surface emissivity	: High	External surface emissivity	: High	Thickness	Thermal Conductivity	Thermal Resistance	Pitch	Bridge details
				(mm)	(W/mK)	(m ² K/W)	(°)	Air gaps (Level, Delta U")
Outside surface resistance	-	-	0.100					
Roofing membranes or coverings	-	-	-					
Plywood	-	-	0.000					
Ventilated Cavity	50.0	-	0.000					
Celotex GA4000 between joists @ 400 ctrs	60.0	-	2.727					11.750% Timber (60.0mm)
Celotex GA4000 under joists. Joints taped as VCL	50.0	-	2.273					
Cavity - 25 x 47mm fixing batten between plasterboard and under joists insulation	25.0	-	0.454					11.750% Timber (25.0mm)
Wallboard	12.5	-	0.066					
Inside surface resistance	-	-	0.100					

U-value = 0.20W/m²K

U-value, Combined Method : 0.201W/m²K (upper/lower limit 5.277 / 4.660m²K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000, dUrc1 0.0000, dUrc2 0.0000)

Correction factors

Air gaps, Delta Ug = 0.000W/m²K

(Based on the combined method for determining U-values of structures containing repeating thermal bridges)