

## Project Information

Date 28 January 2019  
Client Grahame White, OWLarchitecture.com Project Flat Roof 75-75  
25 Crescent View Yorkshire  
Leeds  
LS17 7QF

## Construction Type

Element : Flat roof - Cold - Insulation Between & Below Joists 400mm Joist Spacing  
Cold - Insulation Between & Below Joists 400mm Joist Spacing

Internal surface emissivity	: High	External surface emissivity	: High	Thickness	Thermal Conductivity	Thermal Resistance	Pitch	Bridge details
				(mm)	(W/mK)	(m <sup>2</sup> 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 GA3000 between joists @ 400 ctrs	75.0	-	3.261	-	-	-	-	11.750% Timber (75.0mm)
Celotex GA3000 under joists. Joints taped as VCL	75.0	-	3.261	-	-	-	-	-
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 = 0.16W/m<sup>2</sup>K

U-value, Combined Method : 0.157W/m<sup>2</sup>K (upper/lower limit 6.740 / 6.027m<sup>2</sup>K/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/m<sup>2</sup>K

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