

## Project Information

Date 31 July 2020  
Client Grahame White, OWLarchitecture.com Project test  
25 Crescent View test  
Leeds  
LS17 7QF

## Construction Type

Element	: Pitched roof, ceiling at rafter line - Pitched Roofs - Un-ventilated - Insulation All Between Rafters 400mm Rafter Spacing				
Pitched Roofs - Un-ventilated	- Insulation All Between Rafters 400mm Rafter Spacing				
Internal surface emissivity	: High	External surface emissivity : High			
	Thickness	Thermal	Thermal	Pitch	Bridge details
	(mm)	Conductivity	Resistance	(°)	Air gaps
		(W/mK)	(m²K/W)		(Level, Delta U")
Outside surface resistance	-	-	0.040		
Tiling including batten space	-	-	0.120		
Breather membrane draped	-	-	-		
Cavity (low emissivity) between rafters @ 400 ctrs minimum 25mm	25.0	-	0.454		11.750% Timber (25.0mm)
Celotex XR4000 between rafters @ 400 ctrs	200.0	-	9.091		11.750% Timber (200.0mm) L:1 0.010W/m²K
Polythene, 1000 gauge VCL	-	-	-		
Wallboard	12.5	-	0.066		
Inside surface resistance	-	-	0.100		

U-value = 0.16W/m²K

U-value, Combined Method : 0.159W/m²K (upper/lower limit 6.824 / 6.483m²K/W, dUf 0.0000, dUg 0.0085, dUp0.0000, dUr0.0000, dUrc1 0.0000, dUrc2 0.0000)

## Correction factors

Air gaps, Delta Ug = 0.008W/m²K

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