

Project Information

Date 9 October 2019
 Client Andrew Findlay, Cedar Chase Residents Society Project CC Roof Replacement 2019
 2 Cedar Chase
 Taplow
 Maidenhead
 SL6 0EU

Construction Type

Element : Pitched roof, ceiling at rafter line - Pitched Roofs - Un-ventilated -
 Insulation All Between Rafters 600mm Rafter Spacing

Pitched Roofs - Un-ventilated - Insulation All Between Rafters 600mm Rafter Spacing

Internal surface emissivity : High	External surface emissivity : High	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m ² K/W)	Pitch (°)	Bridge details Air gaps (Level, Delta U")
Outside surface resistance	-	-	-	0.040	-	-
Tiling including batten space	-	-	-	0.120	-	-
Breather membrane draped	-	-	-	-	-	-
Cavity (low emissivity) between rafters @ 600 ctrs minimum 25mm	25.0	-	-	0.454	-	7.833% Timber (25.0mm)
Celotex XR4000 between rafters @ 600 ctrs	150.0	-	-	6.818	-	7.833% Timber (150.0mm) L:1 0.010W/m ² K
Polythene, 1000 gauge VCL	-	-	-	-	-	-
Wallboard	12.5	-	-	0.066	-	-
Inside surface resistance	-	-	-	0.100	-	-

U-value = 0.18W/m²K

U-value, Combined Method : 0.180W/m²K (upper/lower limit 5.947 / 5.661m²K/W, dUf 0.0000, dUg 0.0081, 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)