

Project Information

Date 19 May 2017
Client GW, OWLarchitecture.com Project Dormer 75-75-400
25 Crescent View Leeds
Leeds LS17 7QF

Construction Type

Element : Wall - Timber Framed Wall - Lead - Insulation Between Inside Studs
Timber Framed Wall - Lead - Insulation Between & Inside Studs

Internal surface emissivity : High	External surface emissivity : High	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m ² K/W)	Pitch Bridge Details (°)
Outside surface resistance	-	-	-	0.130	
Code 4 Lead	-	1.8	-	0.000	
Plywood	-	12.0	-	0.000	
Cavity ventilated space between battens	-	25.0	-	0.000	
Breather membrane	-	-	-	-	
Celotex GA4000 between timber studs	-	75.0	-	3.409	15.000% Timber (75.0mm)
Cavity between studs - low emissivity	-	25.0	-	0.665	15.000% Timber (25.0mm)
Celotex GA4000 inside timber studs. Joints taped as VCL.	-	75.0	-	3.409	
Cavity (low emissivity) between battens.	-	25.0	-	0.665	7.833% Timber (25.0mm)
Wallboard	-	12.5	-	0.066	
Inside surface resistance	-	-	-	0.130	

U-value = 0.14W/m²K

U-value, Combined Method : 0.139W/m²K (upper/lower limit 7.692 / 6.742m²K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000, dUrc1 0.0000, dUrc2 0.0000)

Correction for mechanical fasteners :-

(Correction for air gaps, Delta Ug = 0.000W/m²K)

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

Project Information

Date 19 May 2017
Client GW, OWLarchitecture.com Project Dormer 75-75-400
25 Crescent View Leeds
Leeds LS17 7QF

Construction Type

Element : Wall - Timber Framed Wall - Render - Insulation Between Inside Studs
Timber Framed Wall - Render - Insulation Between & Inside Studs

Internal surface emissivity : High	External surface emissivity : High	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m ² K/W)	Pitch Bridge Details (°)
Outside surface resistance	-	-	-	0.040	
Render on exmet on battens	-	20.0	0.800	0.025	
Breather membrane	-	-	-	-	
Plywood	-	12.0	0.170	0.071	
Celotex GA4000 between timber studs	-	75.0	-	3.409	15.000% Timber (75.0mm)
Cavity between studs - low emissivity	-	25.0	-	0.665	15.000% Timber (25.0mm)
Celotex GA4000 inside timber studs.	-	75.0	-	3.409	
Joints taped as VCL.	-	-	-	-	
Cavity (low emissivity) between battens.	-	25.0	-	0.665	7.833% Timber (25.0mm)
Wallboard	-	12.5	-	0.066	
Inside surface resistance	-	-	-	0.130	

U-value = 0.14W/m²K

U-value, Combined Method : 0.138W/m²K (upper/lower limit 7.698 / 6.748m²K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000, dUrc1 0.0000, dUrc2 0.0000)

Correction for mechanical fasteners :-

(Correction for air gaps, Delta Ug = 0.000W/m²K)

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

Project Information

Date 19 May 2017
Client GW, OWLarchitecture.com Project Dormer 75-75-600
25 Crescent View Leeds
Leeds LS17 7QF

Construction Type

Element : Wall - Timber Framed Wall - Render - Insulation Between Inside Studs
Timber Framed Wall - Render - Insulation Between & Inside Studs

Internal surface emissivity : High	External surface emissivity : High	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m ² K/W)	Pitch Bridge Details (°)
Outside surface resistance	-	-	-	0.040	
Render on exmet on battens	-	20.0	0.800	0.025	
Breather membrane	-	-	-	-	
Plywood	-	12.0	0.170	0.071	
Celotex GA4000 between timber studs	-	75.0	-	3.409	15.000% Timber (75.0mm)
Cavity between studs - low emissivity	-	25.0	-	0.665	15.000% Timber (25.0mm)
Celotex GA4000 inside timber studs.	-	75.0	-	3.409	
Joints taped as VCL.	-	-	-	-	
Cavity (low emissivity) between battens.	-	25.0	-	0.665	7.833% Timber (25.0mm)
Wallboard	-	12.5	-	0.066	
Inside surface resistance	-	-	-	0.130	

U-value = 0.14W/m²K

U-value, Combined Method : 0.138W/m²K (upper/lower limit 7.698 / 6.748m²K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000, dUrc1 0.0000, dUrc2 0.0000)

Correction for mechanical fasteners :-

(Correction for air gaps, Delta Ug = 0.000W/m²K)

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