

Project Information

Date 1 April 2020
Client Grahame White, OWLarchitecture.com Project test
25 Crescent View test
Leeds
LS17 7QF

Construction Type

Element : Wall - Solid Wall - Internal Insulation - Internal Dry Lining - Solid Brickwork

Solid Wall - Internal Insulation - Internal Dry Lining - Solid Brickwork

Internal surface emissivity	: High	External surface emissivity	: High	Thickness	Thermal Conductivity	Thermal Resistance	Pitch (°)	Bridge details Air gaps (Level, Delta U")
				(mm)	(W/mK)	(m²K/W)		
Outside surface resistance	-	-	0.040					
Brickwork		215.0	0.770		0.279			17.185% Mortar (215.0mm)
Celotex GA4000 joints taped as VCL		100.0	-		4.545			
Cavity (low emissivity) 25 x 47 battens @ 600 ctrs		25.0	-		0.665			7.833% Timber (25.0mm)
Wallboard		12.5	-		0.066			
Inside surface resistance	-	-	0.130					

U-value = 0.18W/m²K

U-value, Combined Method : 0.177W/m²K (upper/lower limit 5.677 / 5.608m²K/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)