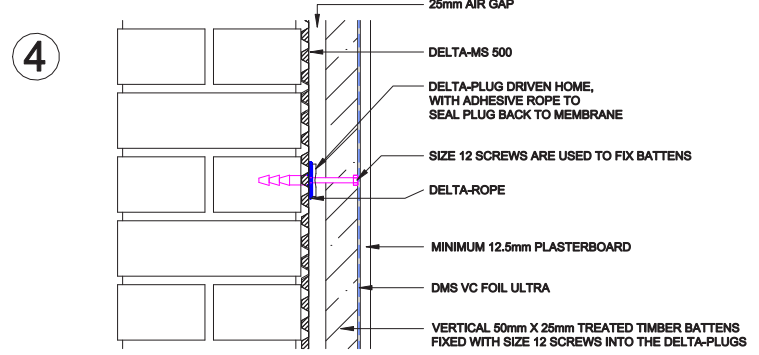
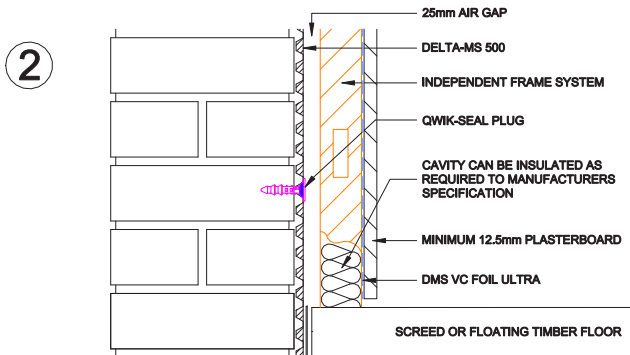


U-Value Calculations: 50mm PIR



Element type: Basement Wall – Delta Membranes

Calculation Method: BS EN ISO 6946

Drawing Reference: DW-506-1

U-Value Calculation: 50mm PIR

Layer	d (mm)	layer	bridge	Fraction	R layer	R bridge	Description
					0.130		Rsi
1	12.5	0.210			0.060		Plasterboard
2							Protect VC Foil Ultra
3	50	0.022	0.120	0.150	2.273	0.417	PIR insulation / timber studs
4	25	R-value	0.120	0.150	0.440	0.208	25mm cavity low-E (0.2)
5	0.6	R-value			0.120		Delta MS-500
6	220	0.770			0.286		Solid brickwork
					0.040		Rse
<u>308 mm (total wall thickness)</u>					<u>3.348</u>		

Total resistance: Upper limit: 2.682 Lower limit: 2.375 Ratio: 1.129 Average: 2.528 m²K/W

U-value (uncorrected) 0.3955

U-value corrections

Air gaps in layer 3 U = 0.0046 (Level 1)

Total U 0.0046

U-value (corrected) 0.400

U-value (rounded) 0.40 W/m²K