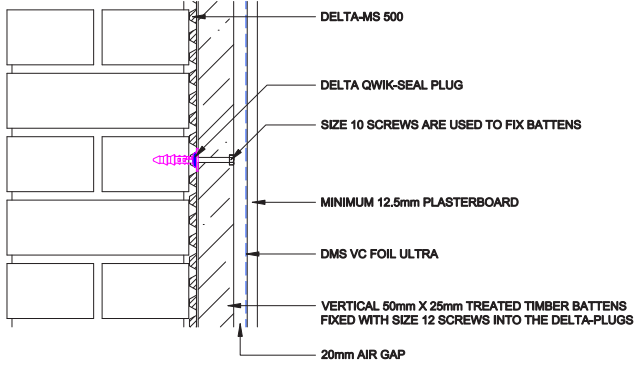
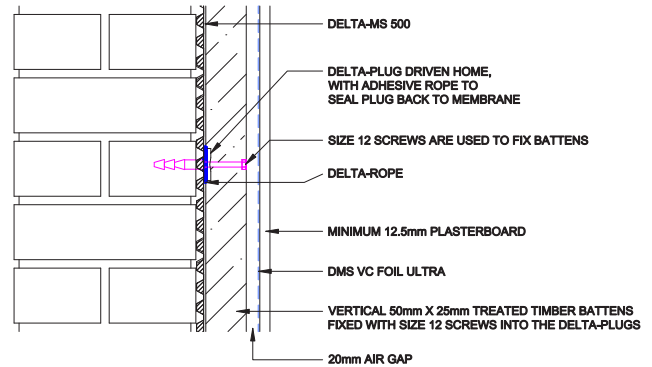


U-Value Calculations: 50mm PIR

1



3



Element type: Basement Wall – Delta Membranes

Calculation Method: BS EN ISO 6946

Drawing Reference: DW-507-1

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	20	R-value	0.120	0.0800	0.780	0.167	20mm x 25mm counterbatten
3							Protect VC Foil Ultra
4	50	0.022	0.120	0.150	2.273	0.417	PIR insulation / timber studs
5	0.6	R-value			0.120		Delta MS-500
6	220	0.770			0.286		Solid brickwork
					0.040		Rse
<u>303 mm (total wall thickness)</u>					<u>3.688</u>		

Total resistance: Upper limit: 3.131 Lower limit: 2.600 Ratio: 1.204 Average: 2.866 m²K/W

U-value (uncorrected) 0.349

U-value corrections

Air gaps in layer 4 U = 0.004 (Level 1)

Total U 0.004

U-value (corrected) 0.353

U-value (rounded) 0.35 W/m²K