Back to Earth SW Ltd
7 Tuns Lane
Silverton
Exeter
EX5 4HY

Project Information
Reference
Date 4 December 2023

Construction Type
Element : Wall - Wall-masonry-solid-internal-multipor
Internal surface emissivity : High External surface emissivity : High

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m²K/W)	Pitch (º)	Bridge details Air gaps (Level, Delta U")
Outside surface resistance	-	-	0.040		
Brick outer leaf	105.0	0.770	0.136		
Brick inner leaf	105.0	0.560	0.188		
Render, cement-sand	20.0	1.000	0.020		
Multipor Adhesive	5.0	0.180	0.028		
Multipor	60.0	0.042	1.400		L:0 0.000W/m²K
Multipor Adhesive	5.0	0.180	0.028		
Inside surface resistance	-	-	0.130		
Total thickness	**300.0mm**				

U-value = 0.51W/m²K

U-value, Combined Method : 0.508W/m²K (upper/lower limit 1.970 / 1.970m²K/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

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Thermal Mass Details

	Thickness assessed (actual) (mm)	Density (kg/m³)	Specific heat capacity (J/kgK)	Heat capacity (kJ/m²K)
Brick outer leaf	0.0 (105.0)	1700.0	840.0	0.0
Brick inner leaf	0.0 (105.0)	1700.0	840.0	0.0
Render, cement-sand	0.0 (20.0)	1800.0	1000.0	0.0
Multipor Adhesive	0.0 (5.0)	800.0	1000.0	0.0
Multipor	0.0 (60.0)	220.0	1000.0	0.0
Multipor Adhesive	5.0 (5.0)	800.0	1000.0	4000000.0
Total				4000000.0
kappa value				4.0000
Limiting condition:	insulation			

Admittance : 0.87 W/m²K Decrement : 0.22 factor Decrement delay : -9.92 hours

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