

UVALUE CALCULATION

Users Ref: SF19 / Rockwool

Issued on: 12.May.2008

EES Ref:

Prop Type Ref:

Property:

SAP Rating: 0

Fuel Bill: £0

CO2 Emissions: 0.00 t/year

Energy used: 0.0 GJ per annum

Surveyor: 4944-0001, GRAHAM VARLEY, Tel: 01772 690360, Fax: 01772 690842

Address: VARLEY INSULATION, LEWTH LANE, WOODPLUMPTON, PRESTON LANCs PR40TD

Client: BDL001, Boulder Developments Ltd, Norwell, Nottinghamshire, NG23 6JN, Tel: 01636 636 348, Fax: 01636 832 909

Software Version: EES SAP 2005.013.build.0009, December 2007, BRE SAP Worksheet 9.70, 9.80

Regs Type: SAP 2001, Regs Region: England and Wales, Construction Type: New Build

Calculation method: BS EN ISO 6946, BS EN ISO 13370, BS 5250

Building Elements:

Building Element Roof 1 - Rockwool/SF19 Under

Roof Type: Pitched Roof, insulated sloping ceiling

Layer	Description	Thickness	λ	R	Fraction
External surface				0.100	
Layer1	Tiling / Slate				
	Main construction	20 mm	1.500	0.000	100.00 %
Layer2	airspace/timber battens				
	Main construction	22 mm	0.138	0.000	89.63 %
	Corrections - Cavity Unventilated, Emissivity: Normal				
	Bridging - Timber	22 mm	0.130	0.000	10.37 %
Layer3	Breather membrane				
	Main construction	1 mm	0.000	0.000	100.00 %
Layer4	Standard cavity				
	Main construction	25 mm	0.250	0.000	100.00 %
	Corrections - Cavity Ventilated, Emissivity: Normal				
Layer5	ROCKWOOL ROLL				
	Main construction	150 mm	0.040	3.750	87.50 %
	Corrections - Air Gap: Level 0, Fasteners: None or plastic				
	Bridging - Timber	150 mm	0.130	0.000	12.50 %
Layer6	Standard cavity				
	Main construction	25 mm	0.074	0.339	100.00 %
	Corrections - Cavity Unventilated, Emissivity: Low 0.2				
Layer7	SF19 Super Foil				
	Main construction	38 mm	0.017	2.218	100.00 %
	Corrections - Air Gap: Level 0, Fasteners: None or plastic				
Layer8	airspace/timber battens				
	Main construction	25 mm	0.074	0.339	89.63 %
	Corrections - Cavity Unventilated, Emissivity: Low 0.2				
	Bridging - Timber	25 mm	0.130	0.000	10.37 %
Layer9	12.5mm Gyproc Wallboard				
	Main construction	13 mm	0.190	0.066	100.00 %
	Corrections - Air Gap: Level 0, Fasteners: None or plastic				
Layer10	Plaster, lightweight				
	Main construction	3 mm	0.180	0.017	100.00 %
Internal surface				0.100	
Total resistance:		Upper limit = 6.430 m ² K/W Lower limit = 6.080 m ² K/W Average = 6.255 m ² K/W			
		U-value (unrounded) = 0.1599 W/m ² K			

Unheated space: None

Total thickness: 321 mm

U-value: 0.16 W/m²K