

UVALUE CALCULATION

Users Ref: 10022

Issued on: 4.March.2010

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: 4885-0001, PAUL BANKS, Tel: 0191 2500818, Fax: 0191 2500548

Address: S and B EPS Ltd, Dudley, Cramlington, Northumberland

Client: 032, CUSTOM HOMES

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 Wall 122mm - blockwork and render

Layer	Description	Thickness	λ	R	Fraction
External surface				0.040	
Layer1	Render				
	Main construction	18 mm	0.570	0.032	100.00 %
Layer2	Blockwork, medium				
	Main construction	100 mm	0.570	0.175	93.43 %
	Bridging - Mortar	100 mm	0.880	0.000	6.57 %
Layer3	Standard cavity				
	Main construction	60 mm	0.333	0.180	100.00 %
	Corrections - Cavity Unventilated, Emissivity: Normal				
Layer4	Tyvec Reflex Breather membrane				
	Main construction	1 mm	0.003	0.360	100.00 %
Layer5	Orientated Strand Board				
	Main construction	11 mm	0.130	0.085	100.00 %
Layer6	Lambdatherm				
	Main construction	122 mm	0.030	4.067	100.00 %
	Corrections - Air Gap: Level 0, Fasteners: None or plastic				
Layer7	Orientated Strand Board				
	Main construction	11 mm	0.130	0.085	100.00 %
Layer8	airspace/timber battens				
	Main construction	25 mm	0.141	0.177	89.63 %
	Corrections - Cavity Unventilated, Emissivity: Normal				
	Bridging - Timber	25 mm	0.130	0.000	10.37 %
Layer9	Polythene, 500 gauge				
	Main construction	1 mm	0.000	0.000	100.00 %
Layer10	Plasterboard, standard				
	Main construction	12 mm	0.210	0.057	100.00 %
Internal surface				0.130	

Total resistance: Upper limit = 5.385 m²K/W Lower limit = 5.382 m²K/W Average = 5.384 m²K/W

U-value (unrounded) = 0.1858 W/m²K

Unheated space: None

Total thickness: 361 mm

U-value: 0.19 W/m²K