

U-value calculator report

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Property Reference: CW/13/011 OPTION 1

Issued on Date: 14.Oct.2013

Survey Reference: CW/13/011

Type Ref:
Project: NO ADDRESS

SAP Rating: 77 C **CO2 Emissions (t/year):** 0.68 **DER:** 0.00 Pass **Reduction:** 0.0% **FEE:** 69.8 **ZC8:** 0.00
Environmental: 86 B **General Requirements Compliance:** Pass **TER:** 0.00 **HLP:** 1.51 **Energy cost:** £ 258

CfSH Results **Version:** **ENE1 Credits:** N/A **ENE2 Credits:** N/A **ENE7 Credits:** N/A **CfSH Level:** N/A

Surveyor: Maurizio Assante, Tel: 01404 811 590 **Surveyor ID:** 5020-0001

Address: Lower Broad Oak Road, West Hill, Ottery St Mary, Devon, EX11 1XH

Client: ENVIROBOARDS/THATCH PROTECT, 13/011

Software Version: Elmhurst Energy Systems Design SAP 2009 version 4.01r01

Building Elements:

Roof Option 1 - Thatch Roof

Roof Type: Pitched Roof, insulated sloping ceiling

Layer	Description	Thickness	Lambda	R	Fraction
Ext surface				0.040	
Layer 1	Thatch				
	Main construction	350 mm	0.070	5.000	100.00 %
Layer 2	airspace/timber battens				
	Main construction	25 mm	0.100	0.250	76.50 %
	Bridging - Timber	25 mm	0.156		23.50 %
	Corrections - Cavity Unventilated, Emissivity: Normal				
Layer 3	Thatch Flexi				
	Main construction	0 mm	0.010	0.035	100.00 %
Int surface				0.100	
Total resistance:	Upper limit = 5.404 m ² K/W Lower limit = 5.396 m ² K/W Average = 5.400 m ² K/W		U-value (unrounded) = 0.19 W/m ² K		

Unheated space: None

Total thickness: 375 mm
U-value: 0.19 W/m²K