

Condensation risk analysis 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
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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

Roof - Option 1

Environmental conditions:

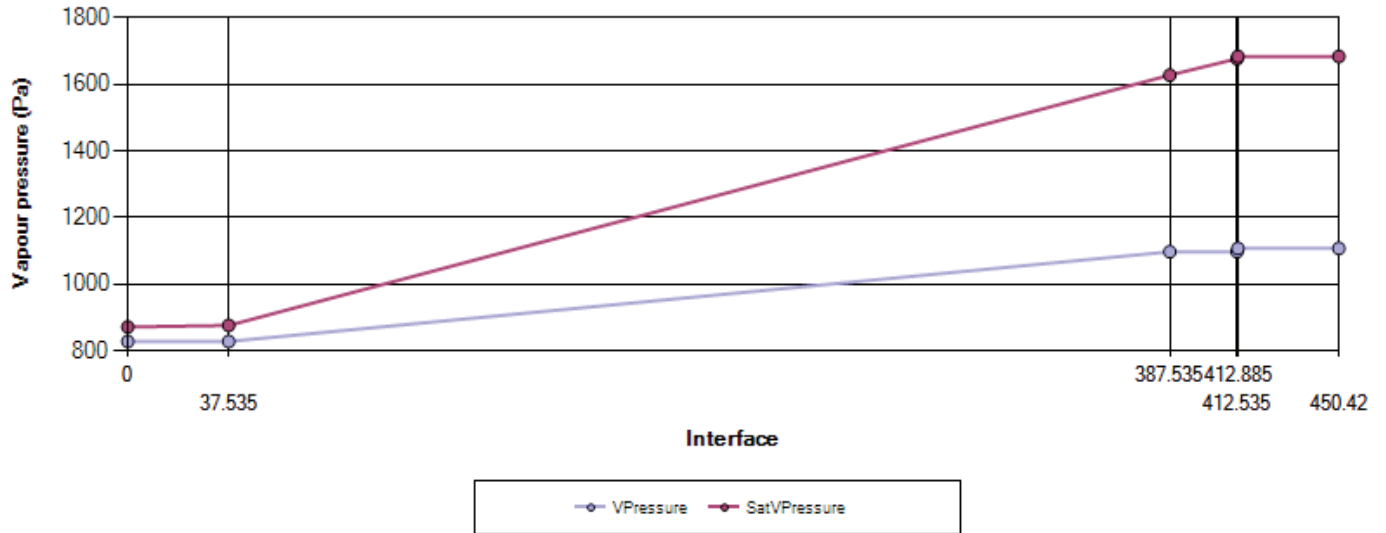
External conditions:	Temperature: 5°C	Relative Humidity: 95 %
Internal conditions:	Temperature: 15°C	Relative Humidity: 65 %

Table of layers:

Layer	Width	Thermal conduct.	Thermal resistance	Cumulative thermal resistance	Vapour resistivity	Vapour resistance	Cumulative vapour resistance
	mm	W/m.K	m2.K/W	m2.K/W	GN.s/kg.m	GN.s/kg.m	GN.s/kg.m
External surface	-	0.000	0.040	0.040	0.0	0.00	0.00
1.Thatch	350.0	0.070	5.000	5.040	30.0	10.50	10.50
2.airspace/timber battens	25.0	0.100	0.250	5.290	0.0	0.00	10.50
3.Thatch Flexi	0.4	0.000	0.035	5.325	0.000	0.40	10.90
Internal surface	-	0.000	0.100	5.325	0.0	0.00	10.90

Vapour pressure table:

Interface - between layers	Interface temp. °C	Vapour pressure Pa	Satur. vapour pressure Pa	Dew point °C	Cond. rate g/m2 h	Cond. rate 60 days g/m2 h	Cond. risk Y/N
External surface	5.00	828.3	871.9	4.27	0.00	0.00	No
1. External surface / Thatch	5.07	828.3	876.4	4.3	0.00	0.00	No
2. Thatch / airspace/timber battens	14.29	1097.6	1628.1	8.3	0.00	0.00	No
3. airspace / timber battens / Thatch Flexi	14.75	1097.6	1677.3	8.3	0.00	0.00	No
Thatch Flexi / Internal surface	14.82	1107.9	1684.3	8.5	0.00	0.00	No
Internal surface	15.00	1107.9	1684.3	8.48	0.00	0.00	No



Interface temperature / Dew point graphical representation:

