

# DESIGN INPUT & RESULTS

**Users Ref:** 7869-0001-0001160

**Issued on:** 29.October.2008

**Prop Type Ref:**

**Property:** 80% stove as Hain Heating, 01, Example, example, example

**TER:** 22.13

**DER:** 8.54

**SAP Rating:** 75 C

**SAP Energy Cost:** £381

**CO2 Emissions:** 0.78 t/year

**EI Rating:** 94 A

**Energy used:** 138 kWh/m2/year

**Ene1:** 0

**ZC:** 0.00

Surveyor: 7869-0001, Matthew Carter, Tel: PE25 3ER, Fax: .

Address: Burton Lodge, Marine Avenue, Skegness, Lincolnshire

Client: 00227, Sune Nightingale, Srovesonline Limited, Capton, Dartmouth, Devon, TQ6 0JE, Tel: 0117 3026754

Software Version: EES SAP 2005.015.build.0019, March 2008 (Design System), BRE SAP Worksheet 9.81

Regs Type: SAP 2005, Regs Region: England and Wales (Part L1A 2006), Construction Type: New Build

## SUMMARY OF INPUT DATA FOR DWELLING AS DESIGNED:

Page 1 of 2

Region & Orientation	Region: MI Midlands (15.5), House Orientation: N North								
1.0 Property Type	H House, D Detached								
2.0 Number of Storeys	2								
3.0 Date Built	2008								
4.0 Sheltered Sides	2								
5.0 Sunlight/Shade	Average or unknown								
6.0 Internal Walls Perimeter	35.00 m, 35.00 m								
7.0 Internal Floor Area	65.00 m2, 65.00 m2								
8.0 Living Area	20.00, fraction: 0.15								
9.0 Average Storey Height	2.50 m, 2.50 m								
9.1 Conservatory	None								
<u>Openings</u>	<u>Description</u>	<u>Glazing Type</u>	<u>Solar Trans</u>	<u>Frame or Door Type</u>	<u>Air Gap</u>	<u>Argon Fill</u>	<u>Orientation</u>	<u>Uvalue</u>	<u>Area</u>
10.0 Ext. Doors	Front door		0.00	Solid Wood		No		3.00 (T)	1.89
		No Draught Lobby							
11.0 Windows	Front windows	Double,Low E,Soft Coat	0.63	PVC	16 mm	Yes	North (0°)	1.70 (T)	8.00
	Side windows	Double,Low E,Soft Coat	0.63	PVC	16 mm	Yes	East (270°)	1.70 (T)	4.00
	Rear windows	Double,Low E,Soft Coat	0.63	PVC	16 mm	Yes	South (180°)	1.70 (T)	8.00
	Openings Average: U: 1.81		Uvalue legend: (T) = Uvalue defaulted from SAP Table (M) = Manufacturer supplied						
13.0 Draught Proofing	100%								
14.0 Thermal Bridging	Default - Robust Construction								
15.0 Pressure Test (q50)	Air permeability 8.00 ml/h.m <sup>2</sup> (assumed)								
16.0 Mechanical Ventilation	None, Windows open during hot weather: Windows fully open Cross ventilation possible: Yes								
17.0 Fans, Chimneys, Flues	3, 0, 1								
17.1 Lighting	Light fittings: 20, L.E.L. fittings: 10, External lights: None								
	<u>Description</u>	<u>U-value</u>	<u>Shelter</u>	<u>Room in Roof</u>	<u>Area</u>	<u>Timber</u>	<u>Curtain Walling</u>		
18.0 Wall Types	Main	0.28	0.00		153.11 (X)	No	No		
	Walls uvalue average: U: 0.28								
19.0 Plane Roofs	Roof Main	0.16			65.00 (X)				
	Roofs uvalue average: U: 0.16								
20.0 Ground Floor Types	main	0.20			65.00 (X)	No			
	Floors uvalue average: U: 0.20								
20.1 Thermal Mass	Simple Thermal Mass Parameter calculation: Ground Floor Mass: Low - suspended timber floor External Wall Mass: Low - timber/steel frame walls or masonry walls (internal insulation) Separating Wall Mass: Low - plasterboard on timber/steel stud Internal Partition Mass: Low - plasterboard on timber/steel stud								
20.2 Fixed Air Conditioning	No								
21.0 Main Heating	Manufacturer's data: Clients choice, Pumped: pump in heated space								
	MHS Efficiency	Manufacturer data: 80.0%							
	Manufacturer & Model	Manufacturer's data: Clients choice, to Clients Spec, 80.0%							
	Heating Controls	CBD Programmer, room thermostat and TRVs Boiler interlock - Yes							
	Underfloor Heating	None							
21.1 Secondary Heating	None								
	SHS Details								

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Page 2 of 2

22.0 Hot Water Heating	HWP From the primary heating system
Solar Water Heating	None
23.0 Thermal Store	None
24.0 Hot Water Cylinder	Yes, in heated space, With stat
	Water heating separately timed: Yes
Insulation	Foam, Thickness: 50 mm, Pipes insulated
Volume	210.00 litres
25.0 Community Heating	None
CHP Unit	
26.0 Electricity Tariff	7 - Hour Off Peak
27.0 Photovoltaic Unit	None
27.2 Micro Wind Turbines Count	0
Rotor Diameter	0.00
Hub Height	0.00
Terrain Type	Urban
27.3 Small-scale Hydro electricity	0.00
28.0 Special Features	None