

Building Regulation Compliance

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Survey Reference: 1013a Prop Type Ref:

Property: Apartment 9 The Watchmakers, 22, Lord Street, COVENTRY, CV5 8DA,

SAP Rating: 83 B CO2 Emissions (t/year): 1.15 DER:17.16 Pass Reduction: 0.2% FEE: 41.2 CS: 0.00 Environmental: 87 B General Requirements Compliance: Pass TER: 17.19 HLP: 1.03 Energy cost: £ 339

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

Surveyor: Alison Cleaver, Tel: 01858434392

Address: Overfield Avenue, Market Harborough, Leics, LE16 7LS

Client:

Software Version: Elmhurst Energy Systems SAP2009 Calculator (Design System) version 3.06r13

SAP version: SAP 2009, Regs Region: England and Wales (Part L1A 2010), Calculation Type: New Dwelling As Built

SUMMARY FOR INPUT DATA FOR New Build (As Built)

1 TER and DER							
Fuel for main heati	ng:	Mains da	Mains gas				
Fuel factor:	5	1.00 (ma					
	xide Emission Rate (T		17.19 kg/m²				
	ioxide Emission Rate		17.16 kg/m ²				
2 Fabric U-values		<u> </u>					
	Element	Average	Highest				
	External wall	0.26 (max. 0.30)	0.26 (max. 0.70)	OK			
	Roof	0.26 (max. 0.30) 0.14 (max. 0.20)	0.26 (max. 0.76) 0.14 (max. 0.35)	OK OK			
	Openings	1.40 (max. 2.00)	1.40 (max. 3.30)	OK OK			
	. •	1.40 (IIIax. 2.00)	1:40 (IIIax. 3.30)	<u> </u>			
2a Thermal bridgin							
	alculated using user-s	specified y-value o	f 0.080				
3 Design air perme		0.00					
Design air permeat	oility at 50 pascais:	3.09		OK			
Maximum		10.0		<u> </u>			
4 Heating efficiency		Dallanau	stans with no distans an wadantlass				
Main heating syste	m:		stem with radiators or underfloor -				
		Mains ga	s n database				
			nbi 25 Eco				
		Combi bo					
			Efficiency: 89.0% SEDBUK2009 Minimum: 88.0%				
Secondary heating	evetom.		None				
Secondary heating system: None 5 Cylinder insulation							
Hot water storage	41	No cylind	No cylinder				
6 Controls		110 07 11110	<u> </u>				
Space heating conf	trols:	Time and	temperature zone control	OK			
Hot water controls:			No cylinder				
Boiler interlock		Yes		OK			
7 Low energy lights	8						
	d lights with low-energ	y 100%					
fittings:		-					
Minimum		75%		OK			
8 Mechanical venti	lation						
Not applicable							
9 Summertime tem	•						
Overheating risk (N	/lidlands):	Not signit	ficant	OK			
Based On:		_					
Overshading:		Average					

Windows facing North:

Windows facing South:

Windows facing West:

0.66 m², No overhang
2.16 m², No overhang
6.12 m², No overhang

Ventilation rate: 6.00 Blinds/curtains: None

10 Key features

 $\begin{array}{lll} \mbox{Window U-value} & 1.40 \mbox{ W/m}^2 \\ \mbox{Party wall U-value} & 0.00 \mbox{ W/m}^2 \\ \mbox{Perity wall U-value} & 0.00 \mbox{ W/m}^2 \\ \mbox{Design air permeability} & 3.1 \mbox{ m}^3/m^2 \end{array}$



Summary Information

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SUMMARY FOR INPUT DATA FOR New Build (As Built)

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1.0 Property Type Flat, End-Terrace 2.0 Number of Storeys 2011

3.0 Date Built 3.0 Property Age Band

14.0 Conservatory

4.0 Sheltered Sides 2

5.0 Sunlight/S	Shade		Average	or unknov	wn								
6.0 Measurer	ments												
		Internal	Perimeter		Internal Floo	or Area	Aver	age Store	y Height				
	Ground Floor	r: 2	25.1		74.99)		2.37					
7.0 Living Are	ea		22.68										
8.0 Thermal I	Mass Paramet	er	Simple ca	alculation									
9.0 External \	Walls												
Description		Construction				U-Value	Eleme	ent	Kappa	G	ross Ar	ea	Nett Area
External Wal	l 1	Cavity wall : block, filled c			•	0.26			60.00		59.48		50.54
9.1 Party wal Description	ls	Construction				Elemei	nt	Kappa	a	Area			
part		Plasterboard on both sides				nder		45.00)	19.38			
part		Other						0.00		4.64			
10.0 External Description	l Roofs	Construction				U-Value	Eleme	ent	Карра	G	ross Ar	ea	Nett Area
External Roo	f 1	Plasterboard	, insulated	at ceiling	level	0.14			9		74.99		74.99
11.1 Party Florest Plants Plan	oors	Construction				Elemei	nt	Карра	a	Area			
Party Floor 1		Timber I-joist	s, carpete	d				20		74.99			
12.0 Opening Description	Types Data Source	Туре	Glazing		Glazing Gap	Argon Filled	Sola	ır Trans	Frame T	уре	Frame	Factor	U value
Opening Type 2	Manufacturer	Window	Double Lo 0.05	w-E Soft			(0.63			0.7	0	1.40
13.0 Opening Name	gs Opening Type	Location	ı	Orientatio	n Curtain Ty	pe (Overhang Ratio	Wide Overhan	Width g	Height	Count	Area	Curtain Closed
Opening 2	Window - Oper Type 2	ning External	Wall 1	West	None		0	No	0	0	0	6.12	0
Opening 3	Window - Oper Type 2	ning External	Wall 1	North	None		0	No	0	0	0	0.66	0
Opening 3	Window - Oper Type 2	ning External	Wall 1	South	None		0	No	0	0	0	1.08	0
Opening 4	Window - Oper Type 2	ning External	Wall 1	South	None		0	No	0	0	0	1.08	0

None

15.0 Draught Proofing	100
16.0 Draught Lobby	Yes Lear Input
17.0 Thermal Bridging Y-value	User Input
Description	0.08 accredited
18.0 Pressure Testing	Yes
Designed q50	4.00
Property Tested ?	Yes
As Built q50	3.09
Same As Designed?	
19.0 Mechanical Ventilation	
Mechanical Ventilation System	No
Present	
Approved Installation	Mindaus fully analy
Windows open in hot weather Cross ventilation possible	Windows fully open Yes
Night Ventilation	No No
Air change rate	6.00
Mechanical Ventilation data Type	
Type	
MV Reference Number	
Configuration	
MVHR Duct Insulated	
Manufacturer SFP	
Duct Type	
MVHR Efficiency Wet Rooms	
Brand, Model	
20.0 Fans, Open Fireplaces, Flues	
Mt	HS SHS Other Total
Number of Chimneys 0	
Number of open flues 0	
Number of intermittent fans	2
Number of passive vents	0
Number of flueless gas fires	0
21.0 Cooling System	No
22.0 Lighting	
Internal	
Total number of light fittings	8
Total number of L.E.L. fittings Percentage of L.E.L. fittings	8 100.00
External	100.00
External lights fitted	No
Light and motion sensors	
23.0 Electricity Tariff	Standard
24.0 Heating Systems	
Main Heating 1	Database
Description	main heating 100.00
Percentage of Heat Main Heating 2	None
Description	None
Percentage of Heat	
Community Heating	
Secondary Heating	
Water Heating	Main Heating 1
Flue Gas Heat Recovery System	No No
Waste Water Heat Recovery System	NO .
1 Waste Water Heat Recovery System	No
2	nv
Solar Panel	No
25.0 Main Heating 1	
Database Ref. No.	15701
Fuel Type	Mains gas
Main Heating	BGW
TestMethod SAP Code	104
Efficiency (Split Efficiences) %	I ∪ +
Efficiency (Split Efficiences) %	
In Winter	89.9
In Summer	79.8
Model Name	
Manufacturer	
Controls	СВІ
Delayed Start Stat	Yes
Sap Code	2110
Burner Control Boiler Compensator	WeatherCompensator

HETAS approved System Oil Pump Inside FI Case FI Water Flue Type Balanced Smoke Control Area Fan Assisted Flue Yes Is MHS Pumped Pump in heated space Heat Emitter Radiators **Underfloor Heating** Electric CPSU Temperature Combi boiler type Standard Combi Combi keep hot type None Combi store type 27.0 Community Heating Space Community Heating Distribution Loss Distribution Loss Value Controls SAP Code Water Community Heating Distribution Loss Distribution Loss Value Charging Linked To Heat Use 28.0 Secondary Heating Description SHS efficiency % SAP Code **HETAS Approved System** Smoke Control Area Test Method Manufacturer Model Name 29.0 Water Heating HWP Water use <= 125 litres/person/day Yes SAP Code 901 Immersion Heater **Summer Immersion** Suplementary Immersion Immersion Only Heating Hot Water 29.1 Flue Gas Heat Recovery System Database ID **Brand Model** Details 29.2 Waste Water Heat Recovery System Total rooms with shower and/or bath 30.0 Hot Water Cylinder None Cylinder Stat Cylinder In Heated Space Independent Time Control Insulation Type Insulation Thickness Cylinder Volume Loss (kwh/day) Pipes insulation In Airing Cupboard 31.0 Solar Panel Solar Panel Area Area Type Panel Type n0, a1, A/G ratio Orientation Elevation Overshading Solar Storage Volume Pump electrically powered Combined Cylinder 32.0 Thermal Store None Thermal Store Pipework within a single casing 33.0 Photovoltaic Unit Apportioned KWh/Year 34.0 Wind Turbines Urban Terrain Type Wind Turbines Count Apportioned Kwh/year **Rotor Diameter Hub Height** 35.0 Small-scale Hydro

Electricity Generated Description Apportioned kWh/Year
Recommendations
None

Further measures to achieve even higher standards

None