

Summary Information

Property Reference: 444577 Flat 5
Survey Reference: 001

Issued on Date: 22.Oct.2020
Prop Type Ref:

Property: George Street, Richmond

SAP Rating: 71 C **CO2 Emissions (t/year):** 1.92 **DER:** 40.39 Pass **Reduction:** 5.8% **FEE:** 54.0 **ZC8:** 0.00
Environmental: 73 C **General Requirements Compliance:** Pass **TER:** 42.87 **HLP:** 1.58 **Energy cost:** £ 784

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

Surveyor: Raymond McGurk, Tel: 0141 375 1480

Surveyor ID: e192-0001

Address:

Client:

Software Version: Elmhurst Energy Systems SAP2009 Calculator (Design System) version 4.04r04

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

SUMMARY FOR INPUT DATA FOR New Build (As Designed)

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Orientation South West
1.0 Property Type Flat, End-Terrace
2.0 Number of Storeys 1
3.0 Date Built 2020
3.0 Property Age Band
4.0 Sheltered Sides 3
5.0 Sunlight/Shade Average or unknown

6.0 Measurements

	Internal Perimeter	Internal Floor Area	Average Storey Height
Ground Floor:	20.13	50.07	3.94

7.0 Living Area 24.91

8.0 Thermal Mass Parameter Simple calculation - Low

9.0 External Walls

Description	Construction	U-Value	Element	Kappa	Gross Area	Nett Area
External Wall	Timber framed wall (one layer of plasterboard)	0.18		9.00	79.31	64.56

9.1 Party walls

Description	Construction	Element	Kappa	Area
Party Wall	Other		0.00	38.30

10.0 External Roofs

Description	Construction	U-Value	Element	Kappa	Gross Area	Nett Area
External Roof	Plasterboard, insulated flat roof	0.20		9	50.07	50.07

11.1 Party Floors

Description	Construction	Element	Kappa	Area
Party Floor	Other		0	50.07

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Argon Filled	Solar Trans	Frame Type	Frame Factor	U value
Window	BFRC data	Window	Double glazed			0.86			1.20
Door	BFRC data	Solid Door							1.20

13.0 Openings

Name	Opening Type	Location	Orientation	Curtain Type	Overhang Ratio	Wide Overhang	Width	Height	Count	Area	Curtain Closed
Opening 1	Window - Window	External Wall	South East	None	0	No	0	0	0	8.00	0
Opening 2	Solid Door - Door	External Wall	North West	None	0	No	0	0	0	3.78	0
Opening 3	Window - Window	External Wall	South West	None	0	No	0	0	0	2.97	0

14.0 Conservatory None

15.0 Draught Proofing 100

16.0 Draught Lobby No

17.0 Thermal Bridging Calculate Bridges

17.1 List of Bridges

Source Type	Bridge Type	Length	Psi	Imported
Independently assessed	E2 Other lintels (including other steel lintels)	6.35	0.037	Yes
Independently assessed	E3 Sill	4.55	0.033	No
Independently assessed	E4 Jamb	18.60	0.031	Yes
Independently assessed	E7 Intermediate floor between dwellings (in blocks of flats)	20.13	0.063	Yes
Independently assessed	E14 Flat roof	20.13	0.06	Yes
Independently assessed	E16 Corner (normal)	7.88	0.038	Yes
Independently assessed	E18 Party wall between dwellings	7.88	0.086	Yes
Independently assessed	P4 Party wall - Roof (insulation at ceiling level)	9.72	0.09	No
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18.0 Pressure Testing	Yes			
Designed q50	4.50			
Property Tested ?				
As Built q50				
Same As Designed ?				
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19.0 Mechanical Ventilation				
Mechanical Ventilation System	No			
Present				
Approved Installation				
Windows open in hot weather	Windows fully open			
Cross ventilation possible	No			
Night Ventilation	No			
Air change rate	4.00			
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				
	MHS	SHS	Other	Total
Number of Chimneys	0		0	0
Number of open flues	0		0	0
Number of intermittent fans				2
Number of passive vents				0
Number of flueless gas fires				0
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21.0 Cooling System	No			
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22.0 Lighting				
Internal				
Total number of light fittings	5			
Total number of L.E.L. fittings	5			
Percentage of L.E.L. fittings	100.00			
External				
External lights fitted	No			
Light and motion sensors				
23.0 Electricity Tariff	Standard			
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24.0 Heating Systems				
Main Heating 1	SAPTable			
Description				
Percentage of Heat	100.00			
Main Heating 2	None			
Description				
Percentage of Heat				
Community Heating				
Secondary Heating				
Water Heating	Main Heating 1			
Flue Gas Heat Recovery System	No			
Waste Water Heat Recovery System	No			
1				
Waste Water Heat Recovery System	No			
2				
Solar Panel	No			
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25.0 Main Heating 1				
Database Ref. No.				
Fuel Type				
Main Heating	Electricity BEE Direct-acting boiler			

TestMethod	
SAP Code	191
Efficiency (SAP Table) %	100
In Winter	
In Summer	
Model Name	
Manufacturer	
Controls	CBI Time and temperature zone control
Delayed Start Stat	Yes
Sap Code	2110
Burner Control	
Boiler Compensator	None
HETAS approved System	
Oil Pump Inside	
FI Case	
FI Water	
Flue Type	
Smoke Control Area	
Fan Assisted Flue	
Is MHS Pumped	Pump in heated space
Heat Emitter	Radiators
Underfloor Heating	
Electric CPSU Temperature	
Combi boiler type	
Combi keep hot type	
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

Water use <= 125 litres/person/day	HWP From main heating 1
SAP Code	No
Immersion Heater	901
Summer Immersion	Dual
Supplementary 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	
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30.0 Hot Water Cylinder

Cylinder Stat	Hot Water Cylinder
Cylinder In Heated Space	Yes
Independent Time Control	
Insulation Type	Foam
Insulation Thickness	80
Cylinder Volume	150
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	
Terrain Type	Urban
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