

Surveyor ID:

## **Summary Information**

Property Reference: 444577 Flat 4 Issued on Date: 29.Oct.2020

Survey Reference: 002 Prop Type Ref:

Property: George Street, Richmond

SAP Rating: 83 B CO2 Emissions (t/year): 0.77 DER:16.07 Pass Reduction: 26.5% FEE: 40.5 CO3 Environmental: 89 B General Requirements Compliance: Pass TER: 21.87 Reduction: 26.5% FEE: 40.5 CO3 Energy cost: £ 278

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

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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e192-0001

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		r: 20.13			50.07		3.56						
7.0 Living Are	ea		24.91										
8.0 Thermal N	Mass Paramet	er	Simple ca	alculation	- Low								
9.0 External V	Valls												
Description		Construction				U-Value	Eleme	ent	Kappa	G	ross Ar	ea	Nett Area
External Wall		Timber framed wall (on plasterboard)		e layer of		0.18			9.00		71.66		56.91
9.1 Party wall Description	s	Construction				Element		Карра		Area			
Party Wall		Other						0.00		34.60			
10.1 Party Ce Description	eilings	Construction				Element		Карра		Area			
Party Ceiling		Other						0		50.07			
11.1 Party Flo Description	oors	Construction				Element		Карра		Area			
Party Floor		Other						0		50.07			
12.0 Opening Description	Types Data Source	Туре	Glazing	(	Glazing Gap	Argon Filled	Sola	r Trans F	rame T	ype	Frame	Factor	U value
Window	BFRC data	Window	Double gla	zed			C	).86					1.20
Door	BFRC data	Solid Door	J										1.20
13.0 Opening Name	S Opening Type	Location	ı	Orientation	n Curtain Ty	ne	erhang Ratio	Wide Overhang	Width	Height	Count	Area	Curtain Closed
Opening 1	Window - Wind	low External	Wall	South Eas	t None		0	No	0	0	0	8.00	0
Opening 2	Solid Door - Do	oor External	Wall	North Wes	t None		0	No	0	0	0	3.78	0
Opening 3	Window - Wind	low External	Wall	South Wes	st None		0	No	0	0	0	2.97	0
14.0 Conserv 15.0 Draught 16.0 Draught 17.0 Thermal	Proofing Lobby		None 100 No Calculate	Rridges									
17.0 Therman			Jaiculate	, Diluges									

Source Type	Bridge Type		Length	Psi	Imported
Independently assessed		ls (including other steel lintels)	6.35	0.037	Yes
•		is (including other steer linters)			
Independently assessed	E3 Sill		4.55	0.033	No
Independently assessed	E4 Jamb		18.60	0.031	Yes
Independently assessed	ate floor between dwellings (in blocks of flats)	20.13	0.063	Yes	
Independently assessed	normal)	7.12	0.038	No	
Independently assessed	E18 Party wa	ll between dwellings	7.12	0.086	No
Independently assessed	P1 Party wall	- Ground floor	9.72	0.092	No
18.0 Pressure Testing Designed q50 Property Tested? As Built q50 Same As Designed?		Yes 4.50			
19.0 Mechanical Ventilation Mechanical Ventilation		No			
Present					
Approved Installation		Minday fully and			
Windows open in hot v Cross ventilation poss		Windows fully open Yes			
Night Ventilation		No			
Air change rate		6.00			
Mechanical Ventilation	data Type				
Туре					
MV Reference Numbe	r				
Configuration MVHR Duct Insulated					
Manufacturer SFP					
Duct Type					
MVHR Efficiency					
Wet Rooms					
Brand, Model 20.0 Fans, Open Fireplace	as Fluas				
20.0 Tano, Open Theplace	MF	IS SHS Other Total			
Number of Chimneys	(	0 0			
Number of open flues	(	0 0			
Number of intermittent fan	s	2			
Number of passive vents		0			
Number of flueless gas fire	26	0			
_	55				
21.0 Cooling System		No			
22.0 Lighting Internal					
Total number of lig	ht fittings	5			
Total number of L.		5			
Percentage of L.E.	L. fittings	100.00			
External					
External lights fitte Light and motion s		No			
23.0 Electricity Tariff	6115015	Standard			
24.0 Heating Systems Main Heating 1		Database			
Description					
Percentage of Hea	t	100.00 Name			
Main Heating 2	t	100.00 None			
Main Heating 2 Description					
Main Heating 2 Description Percentage of Hea Community Heating					
Main Heating 2 Description Percentage of Hea Community Heating Secondary Heating		None			
Main Heating 2 Description Percentage of Hea Community Heating Secondary Heating Water Heating	t	None  Main Heating 1			
Main Heating 2 Description Percentage of Hea Community Heating Secondary Heating Water Heating Flue Gas Heat Recove	it ery System	None  Main Heating 1 Yes			
Main Heating 2 Description Percentage of Heating Community Heating Secondary Heating Water Heating Flue Gas Heat Recovery	it ery System	None  Main Heating 1 Yes			
Main Heating 2 Description Percentage of Heat Community Heating Secondary Heating Water Heating Flue Gas Heat Recove Waste Water Heat Rec  1 Waste Water Heat Recove	ery System covery System	None  Main Heating 1 Yes No			
Main Heating 2 Description Percentage of Heat Community Heating Secondary Heating Water Heating Flue Gas Heat Recove Waste Water Heat Rec	ery System covery System	None  Main Heating 1 Yes No			
Main Heating 2 Description Percentage of Heat Community Heating Secondary Heating Water Heating Flue Gas Heat Recove Waste Water Heat Rec  Waste Water Heat Rec 2	ery System covery System	None  Main Heating 1 Yes No No			
Main Heating 2 Description Percentage of Heat Community Heating Secondary Heating Water Heating Flue Gas Heat Recove Waste Water Heat Recove Waste Water Heat Recove Solar Panel 25.0 Main Heating 1 Database Ref. No.	ery System covery System	None  Main Heating 1 Yes No No No 16661			
Main Heating 2 Description Percentage of Heat Community Heating Secondary Heating Water Heating Flue Gas Heat Recove Waste Water Heat Recove Waste Water Heat Recove 2 Solar Panel 25.0 Main Heating 1 Database Ref. No. Fuel Type	ery System covery System	Main Heating 1 Yes No No No 16661 Mains gas			
Main Heating 2 Description Percentage of Heat Community Heating Secondary Heating Water Heating Flue Gas Heat Recove Waste Water Heat Recove Waste Water Heat Recove Solar Panel 25.0 Main Heating 1 Database Ref. No.	ery System covery System	None  Main Heating 1 Yes No No No 16661			

Efficiency (Split Efficiences) % Efficiency (Split Efficiences) %

In Winter 89.7 In Summer 87

Model Name Manufacturer

Controls CBI Time and temperature zone control

None

Delayed Start Stat Yes Sap Code 2110

Burner Control **Boiler Compensator** 

**HETAS** approved System

Oil Pump Inside FI Case FI Water

Balanced Flue Type

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 From main heating 1

Water use <= 125 litres/person/day Nο SAP Code 901

Immersion Heater Summer Immersion Suplementary Immersion Immersion Only Heating Hot Water

29.1 Flue Gas Heat Recovery System

Database ID 60001

**Brand Model** Zenex, GasSaver Details Year: + current Applicable Fuel: 1

Boiler Types: RCSK Heat Store Volume: 0 PV module: 0

None

29.2 Waste Water Heat Recovery

System

Total rooms with shower and/or bath

30.0 Hot Water Cylinder

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

Thermal Store Pipework

33.0 Photovoltaic Unit Apportioned KWh/Year

34.0 Wind Turbines Terrain Type

Wind Turbines

Count
Apportioned Kwh/year
Rotor Diameter

Hub Height 35.0 Small-scale Hydro Electricity Generated Description Apportioned kWh/Year None

within a single casing

Urban

Recommendations

None

Further measures to achieve even higher standards

None