Summary Information

Property Reference: 444577 Flat 8
Survey Reference: 002
Property: George Street, Richmond

Issued on Date: 29.Oct.2020
Prop Type Ref:

SAP Rating: 82 B **CO2 Emissions (t/year):** 1.38 **DER:** 17.86 Pass **Reduction:** 23.4% **FEE:** 56.4 **ZC8:** 0.00
Environmental: 85 B **General Requirements Compliance:** Pass **TER:** 23.33 **HLP:** 1.45 **Energy cost:** £ 414

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)

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:	36.35	81.84	3.94

7.0 Living Area	27.73
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	143.22	131.00

9.1 Party walls

Description	Construction	Element	Kappa	Area
Party Wall	Other		0.00	32.39

10.0 External Roofs

Description	Construction	U-Value	Element	Kappa	Gross Area	Nett Area
External Roof	Plasterboard, insulated flat roof	0.20		9	81.84	81.84

11.1 Party Floors

Description	Construction	Element	Kappa	Area
Party Floor	Other		0	81.84

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 West	None	0	No	0	0	0	5.90	0
Opening 2	Solid Door - Door	External Wall	North East	None	0	No	0	0	0	3.78	0
Opening 3	Window - Window	External Wall	North West	None	0	No	0	0	0	2.54	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)	7.10	0.037	No
Independently assessed	E3 Sill	5.30	0.033	Yes
Independently assessed	E4 Jamb	19.40	0.031	Yes
Independently assessed	E7 Intermediate floor between dwellings (in blocks of flats)	36.35	0.063	Yes
Independently assessed	E14 Flat roof	36.35	0.06	Yes
Independently assessed	E16 Corner (normal)	3.94	0.038	No
Independently assessed	E17 Corner (inverted - internal area greater than external area)	7.88	-0.029	No
Independently assessed	E18 Party wall between dwellings	15.76	0.086	No
Independently assessed	P4 Party wall - Roof (insulation at ceiling level)	8.22	0.09	No

18.0 Pressure Testing: Yes
- Designed q50: 4.50
- Property Tested ?
- As Built q50
- Same As Designed ?

19.0 Mechanical Ventilation
- Mechanical Ventilation System Present: No
- Approved Installation
- Windows open in hot weather: Windows half open
- Cross ventilation possible: No
- Night Ventilation: No
- Air change rate: 2.00
- 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				3
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: 8
  - Percentage of L.E.L. fittings: 100.00
- External
  - External lights fitted: No
  - Light and motion sensors

23.0 Electricity Tariff: Standard

24.0 Heating Systems
- Main Heating 1: Database
  - 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: Yes
- Waste Water Heat Recovery System 1: No
- Waste Water Heat Recovery System 2: No
- Solar Panel: No

25.0 Main Heating 1
- Database Ref. No.: 16661
- Fuel Type: Mains gas

Main Heating	Mains gas BGW Post 98 Combi condens. with auto ign.
TestMethod	
SAP Code	104
Efficiency (Split Efficiences) %	
Efficiency (Split Efficiences) %	
In Winter	89.7
In Summer	87
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	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 From main heating 1
Water use <= 125 litres/person/day	No
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
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	
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