

	18-049					Iss	ued on Dat	e 15/01/2019
Assessment	As Designe	d		Prop Type Ref Conversion and Extension				
Reference								
Property	150, Haver	stock Hill,	LONDON, NW3 2	AY				
SAP Rating			84 B	DER	16	.91	TER	21.58
Environmental			88 B	% DER <ter< td=""><td></td><td></td><td>21.62</td><td></td></ter<>			21.62	
CO₂ Emissions (t/year)			0.93	DFEE	42	.87	TFEE	62.93
General Requiremen	ts Compliance	:	Pass	% DFEE <tfee< td=""><td></td><td></td><td>31.88</td><td></td></tfee<>			31.88	
	Mrs. Anna Jaro anna@redhou		louse, Tel: 01933 .uk	358617,			Assessor ID	K472-0001
	Procon Develo							
SUMMARY FOR INPU	T DATA FOR: 1	New Build	(As Designed)					
Orientation		South W			1			
Property Tenure		Owner-o]			
Transaction Type		New dwe			<u>.</u> 1			
Terrain Type		Urban	8		1			
1.0 Property Type		House, N	/lid-Terrace		i			
2.0 Number of Storeys		2			ĺ			
3.0 Date Built		2018			Ī			
4.0 Sheltered Sides		2			Ī			
5.0 Sunlight/Shade		Average	or unknown]			
			Ground Floor:	Heat Loss Perimet	iei iiite	rnal Floor		erage Storey Heigh
7.0 Living Avec		25.50	1st Storey:	35.50 m 31.30 m	12	37.40 m ²		2.40 m 2.70 m
7.0 Living Area		35.58	1st Storey:] m²			
8.0 Thermal Mass Paran	neter	Simple c]			
	neter	-	1st Storey:] m²] kJ/m²K			
8.0 Thermal Mass Paran	neter	Simple co	1st Storey:]	27.10 m ²	Gross Area	2.70 m
8.0 Thermal Mass Paran Thermal Mass 9.0 External Walls		Simple co	1st Storey:]	27.10 m ²	2	2.70 m
8.0 Thermal Mass Paran Thermal Mass 9.0 External Walls Description External Wall 1	Туре	Simple co	1st Storey:]	27.10 m ²	Gross Area	2.70 m Nett Area (m²)
8.0 Thermal Mass Paran Thermal Mass 9.0 External Walls Description	Туре	Simple co	1st Storey:]	27.10 m ²	Gross Area	2.70 m Nett Area (m²)
8.0 Thermal Mass Paran Thermal Mass 9.0 External Walls Description External Wall 1 9.1 Party Walls	Type System B	Simple co	1st Storey: alculation - Low Construction Other]	27.10 m ²	Gross Area (m²) 169.71 U-Value	2.70 m Nett Area (m²) 160.11
8.0 Thermal Mass Paran Thermal Mass 9.0 External Walls Description External Wall 1 9.1 Party Walls Description	Type System B	Simple co	1st Storey: alculation - Low Construction Other Construction]	27.10 m ²	Gross Area (m²) 169.71 U-Value (W/m²K)	2.70 m Nett Area (m²) 160.11 Area (m²)
8.0 Thermal Mass Paran Thermal Mass 9.0 External Walls Description External Wall 1 9.1 Party Walls Description Party Wall 1 10.0 External Roofs Description	Type System B Type Solid Wa Type	Simple co	1st Storey: alculation - Low Construction Other Construction Other	31.30 m]	U-Value (W/m²K) 0.15	Gross Area (m²) 169.71 U-Value (W/m²K) 0.00 Gross Area (m²)	2.70 m Nett Area (m²) 160.11 Area (m²) 72.90 Nett Area (m²)
8.0 Thermal Mass Paran Thermal Mass 9.0 External Walls Description External Wall 1 9.1 Party Walls Description Party Wall 1 10.0 External Roofs Description External Roof Terrace	Type System B Type Solid Wa Type External	Simple control of the state of	1st Storey: alculation - Low Construction Other Construction Other Construction	31.30 m]	U-Value (W/m²K) 0.15	Gross Area (m²) 169.71 U-Value (W/m²K) 0.00 Gross Area (m²) 8.14	2.70 m Nett Area (m²) 160.11 Area (m²) 72.90 Nett Area (m²) 6.94
8.0 Thermal Mass Paran Thermal Mass 9.0 External Walls Description External Wall 1 9.1 Party Walls Description Party Wall 1 10.0 External Roofs Description	Type System B Type Solid Wa Type	Simple control of the state of	1st Storey: alculation - Low Construction Other Construction Other	31.30 m]	U-Value (W/m²K) 0.15	Gross Area (m²) 169.71 U-Value (W/m²K) 0.00 Gross Area (m²) 8.14 29.26 U-Value	2.70 m Nett Area (m²) 160.11 Area (m²) 72.90 Nett Area (m²) 6.94 27.76
8.0 Thermal Mass Paran Thermal Mass 9.0 External Walls Description External Wall 1 9.1 Party Walls Description Party Wall 1 10.0 External Roofs Description External Roof Terrace Flat Roof Top Floor 11.0 Heat Loss Floors	Type System B Type Solid Wa Type External External	Simple C. 100.00	1st Storey: alculation - Low Construction Other Construction Other Plasterboard, insulate Plasterboard, insulate	ad flat roof]	U-Value (W/m²K) 0.15	Gross Area (m²) 169.71 U-Value (W/m²K) 0.00 Gross Area (m²) 8.14 29.26	2.70 m Nett Area (m²) 160.11 Area (m²) 72.90 Nett Area (m²) 6.94 27.76



12.0 Opening Types

Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.10r08



Description	Data Source	Туре	2	Glazing		Glazing Gap	Argon Filled	G-val		Frame Type	Frame Factor	U Value (W/m²k
Door	Manufacture r	e Half	Glazed Door	Double Low-E	Soft 0.1			0.63		- 77-	0.70	1.20
Windows	Manufacture	e Win	dow	Double Low-E	Soft 0.1			0.63	3		0.70	1.00
Roof lanterns	r Manufacture Roo r		f Window	Double Low-E	Soft 0.05			0.63	3		0.70	1.00
13.0 Openings	<u> </u>											
	Opening Type	Locati	on	Orientation	Curtain Type	Overhang Ratio	Wide Overhans	Width (m)	Height	t Count	Area (m²)	Curtain Closed
D1 H	Half Glazed Door	[1] Ext	ernal Wall 1	South West	. , , , ,	110010		, (,	()		1.90	0.0000
W1 V	Vindow	[1] Ext	ernal Wall 1	South West	None	0.00					2.50	
W2 V	Vindow	[1] Ext	ernal Wall 1	South West	None	0.00					2.00	
	Vindow	[1] Ext	ernal Wall 1	North East	None	0.00					3.20	
Doors	o of Mindow	[1] [14	ornal Doof			0.00					0.20	
RL1 R	Roof Window [1] E		ternal Roof	North East	None						1.20	
RL3 R	Roof Window		: Roof Top Floor South Wes		t None						1.50	
4.0 Conservatory			None									
15.0 Draught Proofing			100				%					
			No									
17.0 Thermal Bridgir	ng		Calculate Bri	dges								
17.1 List of Bridges		'										
Source Type	Bridge	Туре				Length	Psi	Imported				
Table K1 - Approve		ner linte	els (including o	ther steel lintels	5)	0.54	0.300	No				
Table K1 - Approve						0.30	0.040	No				
Table K1 - Approve			/			1.32	0.050	No				
Table K1 - Approve Table K1 - Default			oor (normal)			0.82	0.160	No				
Table K1 - Approve		at roof orner (r	normal)			0.37 0.20	0.080	No No				
Y-value			0.002				W/m²K					
18.0 Pressure Testin	nσ		Yes									
Designed AP ₅₀ Property Tested ?						m³/(h.m²) @ 50 Pa						
		2.60										
As Built AP ₅₀							m³/(h.m²) @ 50 Pa					
19.0 Mechanical Ver												
Summer Overhe	•						_					
·	en in hot weathe	er		s half open			ᆗ					
Cross ventila	ition possible		Yes									
Night Ventila	ation		Yes									
Air change rate			4.00									
Mechanical Ven	tilation											
Mechanical Ve	entilation System P	resent	No									
20.0 Fans, Open Fire	eplaces, Flues											
			MHS	SHS		Other	Total					
Number of Chim			0			0	0					
Number of open			0			0	0					
Number of inter							2					
Number of passi							0					
Number of fluele	ess gas fires						0					
21.0 Fixed Cooling System		No										





22.0 Lighting		
Internal		
Total number of light fittings	10	
Total number of L.E.L. fittings	10	
Percentage of L.E.L. fittings	100.00	<u> </u>
External		
External lights fitted	No	
23.0 Electricity Tariff	Standard	
24.0 Main Heating 1	Database	
Percentage of Heat	100	
Database Ref. No.	18123	
Fuel Type	Mains gas	
Main Heating	BGW	
SAP Code	104	
In Winter	90.5	Ī
In Summer	87.3	Ī
Controls	CBI Time and temperature zone control	<u> </u>
PCDF Controls	0	<u> </u>
Delayed Start Stat	Yes	=
Sap Code	2110	1
Flue Type	Balanced	
Fan Assisted Flue	Yes	-
Is MHS Pumped	Pump in heated space	-
Heat Emitter	Radiators and Underfloor	_
Underfloor Heating	Yes - Pipes in Wood	_
Flow Temperature	<= 35°C	_
Combi boiler type	Standard Combi	╡
Combi keep hot type	None	-
25.0 Main Heating 2	None	
Community Heating	None	
28.0 Water Heating	HWP From main heating 1	
Water Heating	Main Heating 1	
Flue Gas Heat Recovery System		
	Yes	
Waste Water Heat Recovery Instantaneous System 1	Yes No	
· · · · · · · · · · · · · · · · · · ·		
Instantaneous System 1 Waste Water Heat Recovery Instantaneous System 2 Waste Water Heat Recovery	No	
Instantaneous System 1 Waste Water Heat Recovery Instantaneous System 2	No	
Instantaneous System 1 Waste Water Heat Recovery Instantaneous System 2 Waste Water Heat Recovery Storage System	No No	





29.0 Hot Water Cylinder

None

Recommendations

Lower cost measures

Solar water heating

None

Further measures to achieve even higher standards

Solar photovoltaic panels, 2.5 kWp

Typical Cost

Typical savings per year

£26

£4,000 - £6,000

Typical Cost

£3,500 - £5,500

Typical savings per year £303 Ratings after improvement

SAP rating Environmental Impact

B 85

Ratings after improvement

SAP rating Environmental Impact

A 97

