Building Regulations England Part L (BREL) Compliance Report

Approved Document L1 2021 Edition, England assessed by Array SAP 10 program, Array

Date: Tue 18 Jun 2024 14:06:49

Project Information			
Assessed By	Sean Hunter	Building Type	House, Semi-detached
OCDEA Registration	EES/026592	Assessment Date	2024-06-18

Dwelling Details			
Assessment Type	As designed	Total Floor Area	80 m ²
Site Reference	4907-YO71-6328-1095	Plot Reference	1095
Address	Plot 3 Bed		

Client Details	
Name	Vistry Southern
Company	Vistry
Address	Central 40, Chineham Park, Basingstoke, RG24 8GU

This report covers items included within the SAP calculations. It is not a complete report of regulations compliance.

1a Target emission rate and dwelling emission rate						
Fuel for main heating system	Mains gas					
Target carbon dioxide emission rate 11.58 kgCO ₂ /m ²						
Dwelling carbon dioxide emission rate	10.44 kgCO ₂ /m ²	OK				
1b Target primary energy rate and dwelling primary energy						
Target primary energy	60.48 kWh _{PE} /m ²					
Dwelling primary energy	56.12 kWh _{PE} /m ²	OK				
1c Target fabric energy efficiency and dwelling fabric energy efficiency						
Target fabric energy efficiency	36.1 kWh/m ²					
Dwelling fabric energy efficiency	32.9 kWh/m ²	OK				

2a Fabric U-values	5			
Element	Maximum permitted average U-Value [W/m ² K]	Dwelling average U-Value [W/m ² K]	Element with highest individual U-Value	
External walls	0.26	0.22	Walls (1) (0.22)	OK
Party walls	0.2	0	Party Wall (1) (0)	N/A
Curtain walls	1.6	0	N/A	N/A
Floors	0.18	0.11	FP McCann System (0.11)	OK
Roofs	0.16	0.09	Roof (1) (0.09)	OK
Windows, doors, and roof windows	1.6	1.29	Rear French (1.4)	ОК
Rooflights	2.2	N/A	N/A	N/A

Name	Net area [m ²]	U-Value [W/m ² K]
Exposed wall: Walls (1)	74.48685	0.22
Party wall: Party Wall (1)	39.7	0 (!)
Ground floor: FP McCann System, FP McCann System	40.18	0.11
Exposed roof: Roof (1)	40.180000305175	0.09 (!)
	78	

2c Openings (better than typically expected values are flagged with a subsequent (!))							
Name	Area [m ²]	Orientation	Frame factor	U-Value [W/m ² K]			
Front, Solid Door	1.9782	South West	N/A	1.1 (!)			
Front, Window	0.414	South West	1.0	1.3			
Front, Window	1.3104	South West	1.0	1.3			
Front, Window	1.3104	South West	1.0	1.3			
Front, Window	1.4976	South West	1.0	1.3			
Rear, Window	1.3104	North East	1.0	1.3			
Rear, Window	1.092	North East	1.0	1.3			
Rear, Window	1.4976	North East	1.0	1.3			
Rear French, French Door	3.0933	North East	1.0	1.4			
Left, Window	0.71925	South East	1.0	1.3			

2d Thermal bri	dging (better than typically	expecte	ed values are flagged with a subse	equent (!))				
			Iculated from linear thermal transmit		h junction			
Main element	Junction detail		Source	Psi value [W/mK]	Drawing / reference			
External wall	E2: Other lintels (including steel lintels)	other	Calculated by person with suitable expertise		E2-12826			
External wall	E3: Sill		Calculated by person with suitable expertise	0.01 (!)	E3-12827			
External wall	E4: Jamb		Calculated by person with suitable expertise	-0.05	E4-12843			
External wall	E5: Ground floor (normal)		Calculated by person with suitable expertise	0.046	E5-12830 (Para)			
External wall	E5: Ground floor (normal)		Calculated by person with suitable expertise	0.02 (!)	E5-12831 (Perp)			
External wall	E6: Intermediate floor with dwelling	in a	Calculated by person with suitable expertise	0.001 (!)	E6-12833			
External wall	E10: Eaves (insulation at o	ceiling	SAP table default	0.12	E10 - Default - FF			
External wall	E12: Gable (insulation at ceiling level)		Calculated by person with suitable expertise	0.027 (!)	E12-12897 - FF			
External wall	E16: Corner (normal)		Calculated by person with suitable expertise	-0.034 (!)	E16-12838			
External wall	E18: Party wall between d	wellings	Calculated by person with suitable expertise	-0.008 (!)	E18-12841			
Party wall	P1: Ground floor		Calculated by person with suitable expertise	0.086	P1 - Briary Calc			
Party wall	P2: Intermediate floor with dwelling	in a	SAP table default	0 (!)	P2-Default			
Party wall	P4: Roof (insulation at ceil level)	ing	Calculated by person with suitable expertise	0.021 (!)	P4-12842			
3 Air permeabi	ility (better than typically ex	(pected	values are flagged with a subsequ	uent (!))				
	nitted air permeability at 50Pa		8 m ³ /hm ²					
	meability at 50Pa		5.01 m ³ /hm ² , Design value		OK			
Air permeability	test certificate reference							
4 Space heatin	ng							
	system 1: Boiler with radiator	s or unde	erfloor heating - Mains gas					
Efficiency		.5%	<u> </u>					
Emitter type	Ra	adiators						
Flow temperatu	ire 55	°C						
System type	Co	ombi boile						
Manufacturer		eal Boiler						
Model	LC	GIC CO	OMBI					
Commissioning								
Secondary hea	ating system: N/A							
Fuel N/A								
Efficiency	N/.	A						
Commissioning								
5 Hot water								
Cylinder/store	- type: N/A							
Capacity	N/.							
Declared heat l								
Primary pipewo	ork insulated N/	A						
Manufacturer								
Model								
Commissioning								
	eat recovery system 1 - type		taneous					
Efficiency		.8%						
Manufacturer		Blue B.V						
Model		31-21						

6 Controls			
Main heating 1 - type: Programmer, roo	m thermostat, and TF	RVs	
Function			
Ecodesign class			
Manufacturer			
Model			
Water heating - type: N/A			
Manufacturer			
Model			
7 Lighting			
Minimum permitted light source efficacy	75 lm/W		
Lowest light source efficacy	90 lm/W		OK
External lights control	N/A		
8 Mechanical ventilation			
System type: Decentralised mechanical	extract		
Maximum permitted specific fan power	0.7 W/(I/s)		
Specific fan power	0.16 W/(l/s)		ОК
Minimum permitted heat recovery	N/A		OI
efficiency			
Heat recovery efficiency	N/A		N/A
Manufacturer/Model	Lo-Carbon NBR dM	EV C 100. 498095	
Commissioning		,	
9 Local generation	(4)		
Technology type: Photovoltaic system			
Peak power Orientation	0.8 kWp South West		
Pitch	45°		
Overshading	None or very little		
Manufacturer			
MCS certificate			
10 Heat networks			
N/A			
11 Supporting documentary evidence			
N/A			
40 Declarations			
12 Declarations			
a. Assessor Declaration	ofirmation that the as	intente of this DDEL Compliance Deport	
		ontents of this BREL Compliance Report	
		nformation submitted for this dwelling for and that the supporting documentary	
evidence (SAP Conventions, Append			
documentary evidence required) has			
Compliance Report.			
Signed:		Assessor ID:	
Name:		Date:	
b. Client Declaration		·	
N/A			



ed	90 B 91 B 0.73 See BREL 7.22 d (As Designed) Southwest ND 6 Suburban House, Semi-Deta 0 2 2019 L 1 Average or unkno Precise calculatio N/A Standard No	DFEE DFEE DPER	E < TFEE	/pe Ref 10.44 32.94 56.12 56.12		yh - Semi Ti TER TFEE Assessor	11 9. 36 8. 60	6.07
ter	91 B 0.73 See BREL 7.22 d (As Designed) Southwest ND 6 Suburban House, Semi-Deta 0 2 2019 L 1 Average or unkno Precise calculation N/A Standard No	<pre>% DER % DFE % DFE % DFE % DPER % % % % % % % % % % % % % % % % % % %</pre>	E < TFEE	32.94		TFEE TPER Assessor	9. 36 8. 60	84 5.07 68 0.48
	91 B 0.73 See BREL 7.22 d (As Designed) Southwest ND 6 Suburban House, Semi-Deta 0 2 2019 L 1 Average or unkno Precise calculation N/A Standard No	<pre>% DER % DFE % DFE % DFE % DPER % % % % % % % % % % % % % % % % % % %</pre>	E < TFEE	32.94		TFEE TPER Assessor	9. 36 8. 60	84 5.07 68 0.48
	91 B 0.73 See BREL 7.22 d (As Designed) Southwest ND 6 Suburban House, Semi-Deta 0 2 2019 L 1 Average or unkno Precise calculation N/A Standard No	DFEE DFEE DPER	E < TFEE	32.94		TPER Assessor	9. 36 8. 60	84 5.07 68 0.48
	0.73 See BREL 7.22 d (As Designed) Southwest ND 6 Suburban House, Semi-Deta 0 2 2019 L 1 Average or unkno Precise calculation N/A Standard No	DFEE DFEE DPER	E < TFEE			TPER Assessor	36 8. 60	5.07 68).48
	See BREL 7.22 d (As Designed) Southwest ND 6 Suburban House, Semi-Deta 0 2 2019 L 1 Average or unkno Precise calculatio N/A Standard No	DPER	E < TFEE			Assessor	8.	68).48
	7.22 d (As Designed) Southwest ND 6 Suburban House, Semi-Deta 0 2 2019 L 1 Average or unkno Precise calculation N/A Standard No	Iched		56.12		Assessor	60).48
	Southwest ND 6 Suburban House, Semi-Deta 0 2 2019 L 1 Average or unkno Precise calculation N/A Standard No	wn					ID Y	071-0001
	Southwest ND 6 Suburban House, Semi-Deta 0 2 2019 L 1 Average or unkno Precise calculation N/A Standard No	wn						
New Build	Southwest ND 6 Suburban House, Semi-Deta 0 2 2019 L 1 Average or unkno Precise calculation N/A Standard No	wn				kJ/m²K		
	Southwest ND 6 Suburban House, Semi-Deta 0 2 2019 L 1 Average or unkno Precise calculation N/A Standard No	wn				kJ/m²K		
	ND 6 Suburban House, Semi-Deta 0 2 2019 L 1 Average or unkno Precise calculation N/A Standard No	wn				kJ/m²K		
	6 Suburban House, Semi-Deta 0 2 2019 L 1 Average or unkno Precise calculation N/A Standard No	wn				kJ/m²K		
	Suburban House, Semi-Deta 0 2 2019 L 1 Average or unkno Precise calculation N/A Standard No	wn				kJ/m²K		
	House, Semi-Deta 0 2 2019 L 1 Average or unkno Precise calculation N/A Standard No	wn				kJ/m²K		
	0 2 2019 L 1 Average or unkno Precise calculation N/A Standard No	wn				kJ/m²K		
	2 2019 L 1 Average or unkno Precise calculatio N/A Standard No					kJ/m²K		
	2019 L 1 Average or unkno Precise calculation N/A Standard No					kJ/m²K		
	L 1 Average or unkno Precise calculation N/A Standard No					kJ/m²K		
	Precise calculation					kJ/m²K		
	Precise calculation					kJ/m²K		
	Precise calculation					kJ/m²K		
	N/A Standard No	1				kJ/m²K		
	Standard No					kJ/m²K		
	No							
	No							
	Basem		t Loss Perim 0.00 m	neter	Internal FI 0.00		Average	e Storey Heigh 0.00 m
	Ground f	oor:	18.03 m		40.18	3 m²		2.31 m
	1st Sto 2nd Sto	rey:	18.03 m 0.00 m		40.18 0.00	m²		2.61 m 0.00 m
	3rd Sto 4th Sto		0.00 m 0.00 m		0.00 0.00			0.00 m 0.00 m
	5th Sto	rey:	0.00 m		0.00	m²		0.00 m
	6th Sto 7th Sto		0.00 m 0.00 m		0.00 0.00			0.00 m 0.00 m
	17.84					m²		
onstruction						Shelter	Opening	is Area Calculati Type
mber framed w	wall (one layer of plasterboard				0.00	None	14.22	
Const	truction						Shelter Res	Shelter
		sides, twin t	imber f rame			39.70	0.00	None
Constru	ruction							ppa Area (m m²K)
							. 9.0	00 47.43
r	vith Doub with/W Const Plaster	nber framed wall (one layer of plasterboard	(W/m²K) nber framed wall (one layer of plasterboard) 0.22 Construction with Double plasterboard on both sides, twin t with/without sheathing board Construction Plasterboard on timber frame	(W/m²K) (kJ/m²K) Area mber framed wall (one layer of plasterboard) 0.22 9.00 88 Construction with Double plasterboard on both sides, twin timber f rame with/without sheathing board Construction Plasterboard on timber frame	(W/m²K) (kJ/m²K) Area(m²) (m²) nber framed wall (one layer of plasterboard) 0.22 9.00 88.71 74.49 Construction Vith Double plasterboard on both sides, twin timber f rame 0.00 with/without sheathing board 0.00 Construction Plasterboard on timber frame	(W/m²K) (kJ/m²K) Area(m²) (m²) Res nber framed wall (one layer of plasterboard) 0.22 9.00 88.71 74.49 0.00 Construction U-Value Kappa (W/m²K) (kJ/m²K) (kJ/m²K) (kJ/m²K) vith Double plasterboard on both sides, twin timber f rame 0.00 20.00 with/without sheathing board Construction Plasterboard on timber frame	Construction U-Value (W/m²K) (kJ/m²K) area(m²) (m²) 74.49 Res 0.00 None Construction U-Value Kappa (W/m²K) (kJ/m²K) (kJ/m	(W/m²K) (kJ/m²K) Area(m²) (m²) Res nber framed wall (one layer of plasterboard) 0.22 9.00 88.71 74.49 0.00 None 14.22 U-Value Kappa Area Shelter (W/m²K) (kJ/m²K) (m²) Res vith Double plasterboard on both sides, twin timber f rame 0.00 20.00 39.70 0.00 Construction Kag (kJ/m²K) Construction Kag (kJ/m²K) Plasterboard on timber frame 9.00 9.00 Res 0.00 20.00 39.70 0.00 20.00 39.70 0.00 Vith Double plasterboard on both sides, twin timber f rame 0.00 20.00 20.00 39.70 0.00 Kag (kJ/m Plasterboard on timber frame 9.00



Roll 10.2 Internal Ceilings	Roof									Wall Area	
Description Internal Ceiling	S +	torey 1		Construction Other							e a (m²) 0.18
11.0 Heat Loss Floors Description	Туре	Storey Inde	x	Construction		U-Valı (W/m²		Shelter Code		nelter Kapp actor (kJ/m ²	oa Area (m²
FP McCann System	Ground Floor - Solid	Lowest occu	pied	Suspended concrete floor, carp	eted	0.11		None		0.00 75.0	
11.2 Internal Floors											
Description		Storey Index	Cor	struction						Kappa (kJ/m²K)	Area (m ²)
Internal Floor			Oth	er						12.60	40.18
12.0 Opening Types		_							_	_	
Description	Data Source	Туре		Glazing		Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m ² K)
Solid Door Half Glaze	Manufacturer Manufacturer	Solid Doo Half Glaz		oor Double Low-E Soft (05		None None	0.00 0.71	Wood Wood	0.70 0.70	1.10 1.10
Window	BFRC, BSI or	Window		Double Low-E Soft (None	0.47	Wood	1.00	1.30
Window Type 2	CERTASS data Manufacturer	Window		Double Low-E Soft (None	0.63	Wood	0.70	0.90
Window Type 3 French Door	Manufacturer BFRC, BSI or	Window Window		Double Low-E Soft (Double Low-E Hard			None None	0.71 0.40	Wood Wood	0.70 1.00	1.30 1.40
French Door Type 2	CERTASS data Manufacturer	Window		Double Low-E Soft (None	0.63	Wood	0.70	1.50
Roof Window Roof Window Type 2	Manufacturer Manufacturer	Roof Win Roof Win		Double Low-E Soft (Double Low-E Soft (0.05		None	0.71 0.63	Wood Wood	0.70 0.70	1.80 1.50
13.0 Openings			3000				NOUG	0.00	**000	0.70	1.00
Name	Opening Ty	ре		Location		Orienta	tion	Area	(m²)	Pi	tch
Front Front	Solid Door Window			140mm TF 140mm TF		South \ South \		1.9 4.5			0 0
Rear	Window			140mm TF		North I	East	3.9	0		0
Rear French Left	French Door Window			140mm TF 140mm TF		North I South I		3.0 0.7			0 0
14.0 Conservatory				None							
15.0 Draught Proofing				100				%			
16.0 Draught Lobby				No							
				Oslaulata Deidasa							
17.0 Thermal Bridging 17.1 List of Bridges				Calculate Bridges							
Bridge Type			Soι	rce Type	Length	Psi	Adjuste	d Reference	:		Imported
E2 Other lintels (includir E3 Sill	ng other steel lintel	s)		pendently assessed	10.71 8.30	0.03 0.01	0.03 0.01	E2-12826 E3-12827			No No
E4 Jamb E5 Ground floor (norma	I)		Inde	pendently assessed	25.80 8.06	-0.05 0.05	-0.05		Doro)		No No
E5 Ground floor (norma	Í)		Inde	pendently assessed	9.97	0.02	0.05 0.02	E5-12831 (No
E6 Intermediate floor wi E10 Eaves (insulation a				pendently assessed e K1 - Default	18.03 9.97	0.00 0.12	0.00 0.12	E6-12833 E10 - Defai	ılt - FF		No No
E12 Gable (insulation at			Inde	pendently assessed	8.06	0.03	0.03	E12-12897	- FF		No
E16 Corner (normal) E18 Party wall between	dwellings			pendently assessed	9.84 9.84	-0.03 -0.01	-0.03 -0.01	E16-12838 E18-12841			No No
P1 Party wall - Ground f P2 Party wall - Intermed		huolling		pendently assessed e K1 - Default	8.06 8.06	0.09 0.00	0.09 0.00	P1 - Briary P2-Default	Calc		No No
P4 Party wall - Roof (ins				pendently assessed	8.06	0.00	0.00	P2-Default P4-12842			No
Y-value				0.00				W/m²K			
				Yes							
18.0 Pressure Testing								m³/(h.m	²) @ 50 P	a	
18.0 Pressure Testing Designed AP ₅₀				5.01							
-				5.01 Yes							
Designed AP ₅₀											
Designed AP₅₀ Property Tested?				Yes				 m³/(h.m	²) @ 50 P	a	
Designed AP ₅₀ Property Tested? Test Method	n			Yes Blower Door				m³/(h.m	²) @ 50 P	a	
Designed AP ₅₀ Property Tested? Test Method As Built AP ₅₀				Yes Blower Door				m³/(h.m	²) @ 50 P	a	
Designed AP ₅₀ Property Tested? Test Method As Built AP ₅₀ 19.0 Mechanical Ventilation		ent		Yes Blower Door				m³/(h.m	²) @ 50 P	a	
Designed AP ₅₀ Property Tested? Test Method As Built AP ₅₀ 19.0 Mechanical Ventilation	ation System Prese	ent		Yes Blower Door 15.00				m³/(h.m	²) @ 50 P	a	



MV Reference Number	500776
Configuration	0
MVHR Duct Insulated	Uninsulated Ducts
Manufacturer SFP	0.00
Duct Type	Rigid
MVHR Efficiency	0.00
Wet Rooms	4
SFP from Installer Commissioning Certificate	No

19.1 Mechanical extract ventilation - Decentralised

SFP 0.14	Fan/Room Type In Room Fan	Count
0.11	Kitchen In Room Fan Other Wet Room	3
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.08	Through Wall Fan Kitchen	0
0.08	Through Wall Fan Other Wet Room	0

20.0 Fans, Open Fireplaces, Flues

21.0 Fixed Cooling System	No				
22.0 Lighting					
No Fixed Lighting	No				
	Name PL1 8.5 watt bayonet	Efficacy 90.00	Power 9	Capacity 810	Count 11
	cap lamp PL1LED3K-BC	30.00	0	010	
	GL-HEXHAM	99.00	5	495	4
24.0 Main Heating 1	Database				
Percentage of Heat	100.00			%	
Database Ref. No.	17929				
Fuel Type	Mains gas				
SAP Code	104				
In Winter	89.00				
In Summer	87.30				
Model Name	LOGIC COMBI				
Manufacturer	Ideal Boilers				
System Type	Combi boiler				
Controls SAP Code	2106				
PCDF Controls	0				
Delayed Start Stat	No				
Burner Control	Modulating				
Boiler Compensator	200005				
HETAS approved System	No				
Oil Pump Inside	No				
FI Case	0.00				
FI Water	0.00				
Flue Type	Balanced				
Smoke Control Area	Unknown				
Fan Assisted Flue	Yes				
Is MHS Pumped	Pump in heated sp	ace			
Heating Pump Age	2013 or later				
Heat Emitter	Radiators				



Flow Temperature Flow Temperature Value Boiler Interlock Electric CPSU Temperature Combi boiler type	55.0 Yes 0.00) ndard Combi						
Boiler Interlock Electric CPSU Temperature Combi boiler type	Yes 0.00 Star Nor) ndard Combi						
Electric CPSU Temperature Combi boiler type	0.00 Stai) ndard Combi						
Combi boiler type	Star Nor	ndard Combi						
	Nor	-						
		ie						
Combi keep hot type	Nor							
5.0 Main Heating 2		ne						
6.0 Heat Networks	Nor	ne						
Heat Source Fuel Type Heating	Use	Efficiency	Percentage C Heat)f Heat	Heat Power Ratio	Electrical	Fuel Factor	Efficiency type
Heat source 1NoneHeat source 2NoneHeat source 3NoneHeat source 4NoneHeat source 5None		0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00		
8.0 Water Heating								
Water Heating	Mai	n Heating 1						
SAP Code	901							
Flue Gas Heat Recovery System	No							
Waste Water Heat Recovery Instantaneous System 1	Yes							
Waste Water Heat Recovery Instantaneous System 2	No							
Waste Water Heat Recovery Storage System	No							
Solar Panel	No							
Water use <= 125 litres/person/day	Yes							
Summer Immersion	No							
Cold Water Source	Fro	m mains						
Bath Count	1							
Baths connected to WWHRS	0							
Supplementary Immersion	No							
Immersion Only Heating Hot Water	No							
8.1 Showers								
Description Shower Ty	-			Flow Rate [l/min]	[kW]		ed Connected	
Shower 1 Combi boil 8.3 Waste Water Heat Recovery System	er or un	vented hot w	aler system	8.00	0.00	Yes	Instantane	ous System 1
Instantaneous System 1		10						
Database ID	801							
Brand Model	Shc	owersave, QB	1-21					

Details	Year: 2017 + current Efficiency: 0 Utilisation factor: 0.973	
Dedicated Storage Volume	0]
29.0 Hot Water Cylinder	None]
Cylinder Stat	No]
Cylinder In Heated Space	No]
Independent Time Control	No]
Insulation Type	None]
Insulation Thickness	0]
Cylinder Volume	0.00].
Loss	0.00	kWh/day
In Airing Cupboard	No]
31.0 Thermal Store	None]



Thermal Store	e Pipework			within a single casi	ng					
32.0 Photovoltai	c Unit			One Dwelling						
Export Capab	le Meter?			Yes						
Connected To	Dwelling			Yes						
Diverter				No						
Battery Capac	city [kWh]			0.00						
PV Cell	s kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Over: Facto	shading or	MCS Certificate Reference	Panel Manufacturer
0.80		South West	45°	None Or Little	No	No	1.00		Reference	
34.0 Small-scale	Hydro			None						
Electricity Ger	nerated			0.00						
Apportioned				0.00				kWh/Ye	ar	
Connected to	dwelling's elec	tricity meter		Yes						
Electricity Ger	neration			Annual						
Jan	Feb	Mar	Apr	May Jun	Jul	Aug	Sep	Oct	t Nov	Dec

Recommendations

Lower cost measures None Further measures to achieve even higher standards None

Predicted Energy Assessment

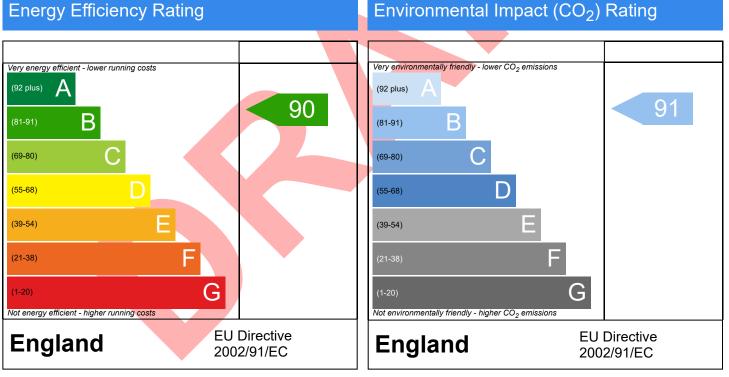


Plot, 3 Bed

Dwelling type: Date of assessment: Produced by: Total floor area: DRRN: House, Semi-Detached 18/06/2024 Sean Hunter 80.36 m²

This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance Certificate will be created for the property. This will include more detailed information about the energy performance of the completed property.

The energy performance has been assessed using the Government approved SAP 10 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO2) emissions.



The energy efficiency rating is a measure of the overall efficiency of a home. The higher the rating the more energy efficient the home is and the lower the fuel bills are likely to be. The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide (CO_2) emissions. The higher the rating the less impact it has on the environment.

Thermal Bridging



Property Ref	erence	4907-YO71-6328-1095	Date	18/06/2024						
Assessment Reference 1095				Prop	Prop Type Ref Semi-Detached House					
Property		Plot, 3 Bed								
SAP Rating 90 B			DER	10.44	TER		11.58			
Environment	al		91 B	% DER < TER				9.84		
CO ₂ Emissio	ns (t/year)		0.73	DFEE	DFEE 32.94 TFEE			36.07		
Compliance	Check		See BREL	% DFEE < TFEE	1			8.68		
% DPER < TP	PER		7.22	DPER	56.12	TPER	र	60.48		
Assessor De	tails M	r. Sean Hunter				Asse	ssor ID	Y071-0001		
Client										
	Junction de	etails		Source Type	Psi (W/mK)	Length (m)	Result	Reference		
External wall	E2 Other lintels (including other steel lintels)			Independently assessed	0.025	10.71	0.27	E2-12826		
External wall	E3 Sill			Independently assessed	0.010	8.30	0.08	E3-12827		
External wall	E4 Jamb			Independently assessed	-0.050	25.80	-1.29	E4-12843		
External wall	E5 Ground floor (normal)			Independently assessed	0.046	8.06	0.37	E5-12830 (Para)		
External wall	E5 Ground floor (normal)			Independently assessed	0.020	9.97	0.20	E5-12831 (Perp)		
External wall	E6 Intermed	liate floor within a dwe	lling	Independently assessed	0.001	18.03	0.02	E6-12833		
External wall	E10 Eaves	(insulation at ceiling lev	vel)	Table K1 - Default	0.120	9.97	1.20	E10 - Default - FF		
External wall	E12 Gable (insulation at ceiling lev	Independently assessed	0.027	8.06	0.22	E12-12897 - FF			
External wall	E16 Corner (normal)			Independently assessed	-0.034	9.84	-0.33	E16-12838		
External wall	E18 Party wall between dwellings			Independently assessed	-0.008	9.84	-0.08	E18-12841		
Party wall	P1 Party wall - Ground floor			Independently assessed	0.086	8.06	0.69	P1 - Briary Calc		
Party wall	P2 Party wall - Intermediate floor within a dwelling			Table K1 - Default	0.000	8.06	0.00	P2-Default		
Party wall	P4 Party wa level)	II - Roof (insulation at	ceiling	Independently assessed	0.021	8.06	0.17	P4-12842		

Total: 142.76 W/mK: Y-Value: 0.00 W/m²K: