### **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 14:07:04

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 <sup>2</sup>
Site Reference	4907-YO71-6328-1103	Plot Reference	1103
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	11.46 kgCO <sub>2</sub> /m <sup>2</sup>				
Dwelling carbon dioxide emission rate	10.44 kgCO <sub>2</sub> /m <sup>2</sup>	OK			
1b Target primary energy rate and dwelling primary energy	an a				
Target primary energy	59.88 kWh <sub>PE</sub> /m <sup>2</sup>				
Dwelling primary energy	56.44 kWh <sub>PE</sub> /m <sup>2</sup>	OK			
1c Target fabric energy efficiency and dwelling fabric energy efficiency					
Target fabric energy efficiency	35.3 kWh/m <sup>2</sup>				
Dwelling fabric energy efficiency	32.0 kWh/m <sup>2</sup>	OK			

2a Fabric U-values	5			
Element	Maximum permitted average U-Value [W/m <sup>2</sup> K]	Dwelling average U-Value [W/m <sup>2</sup> 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 <sup>2</sup> ]	U-Value [W/m <sup>2</sup> 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 <sup>2</sup> ]	Orientation	Frame factor	U-Value [W/m <sup>2</sup> K]		
Front, Solid Door	1.9782	South	N/A	1.1 <b>(!)</b>		
Front, Window	0.414	South	1.0	1.3		
Front, Window	1.3104	South	1.0	1.3		
Front, Window	1.3104	South	1.0	1.3		
Front, Window	1.4976	South	1.0	1.3		
Rear, Window	1.3104	North	1.0	1.3		
Rear, Window	1.092	North	1.0	1.3		
Rear, Window	1.4976	North	1.0	1.3		
Rear French, French Door	3.0933	North	1.0	1.4		
Left, Window	0.71925	West	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 <b>(!)</b>	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 c	eiling	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 ceiling level)		Calculated by person with suitable expertise	0.021 <b>(!)</b>	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 <sup>3</sup> /hm <sup>2</sup>					
	meability at 50Pa		5.01 m <sup>3</sup> /hm <sup>2</sup> , 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	ers					
Model	LC	GIC CO	DMBI					
Commissioning								
Secondary hea	ating system: N/A							
Fuel	N/.							
Efficiency	N/.	A						
Commissioning								
5 Hot water								
Cylinder/store	- type: N/A							
Capacity N/A								
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	1		
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 mechanica	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		UN
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	0.8 kWp		
Orientation Pitch	West 45°		
Overshading			
Manufacturer	None or very little		
MCS certificate			
10 Heat networks			
N/A			
11 Supporting documentary evidence			
N/A			
12 Declarations			
a. Assessor Declaration			
		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	been reviewed in the	course of preparing this BREL	
Compliance Report.			
Signed:		Assessor ID:	
l oigneu.			
Name:		Date:	
b. Client Declaration		1	
N/A			



SAP Rating Environmental CO₂ Emissions (t/year) Compliance Check % DPER < TPER	1103 Plot, 3 Bed Sean Hunter A FOR: New Build (A	90 B 91 B 0.73 See BREL 5.74 As Designed)	DER % DER < DFEE % DFEE DPER	TER	ype Ref 10.44 31.97 56.44		h - Semi T TER TFEE	1	1.46 .90 5.30
SAP Rating Environmental CO <sub>2</sub> Emissions (t/year) Compliance Check % DPER < TPER Assessor Details Mr. s Client Client SUMMARY FOR INPUT DATA Drientation Property Tenture Transaction Type	Sean Hunter	91 B 0.73 See BREL 5.74	% DER < DFEE % DFEE	TER	31.97		TFEE	8	.90 5.30
Environmental CO <sub>2</sub> Emissions (t/year) Compliance Check % DPER < TPER Assessor Details Mr. s Client Client SUMMARY FOR INPUT DATA Drientation Property Tenture fransaction Type		91 B 0.73 See BREL 5.74	% DER < DFEE % DFEE	TER	31.97		TFEE	8	.90 5.30
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Compliance Check % DPER < TPER Assessor Details Client SUMMARY FOR INPUT DATA Drientation Property Tenture fransaction Type		See BREL	% DFEE	< TFEE				3	5.30
% DPER < TPER Assessor Details Client CUMMARY FOR INPUT DATA Drientation Property Tenture ransaction Type		5.74		< TFEE				9	13
Assessor Details Mr. S Client SUMMARY FOR INPUT DAT Drientation Property Tenture transaction Type			DPER		56.44				.+3
Client		As Designed)					TPER	5	9.88
Client		As Designed)					Assessor	ID Y	071-0001
Drientation Property Tenture Fransaction Type	A FOR: New Build (/	As Designed)							
Property Tenture Transaction Type									
ransaction Type		South							
ransaction Type		ND							
		6							
		Suburban							
.0 Property Type		House, Semi-Detach	ned						
Which Floor		0	-						
2.0 Number of Storeys		2							
8.0 Date Built		2019							
.0 Property Age Band		1							
.0 Sheltered Sides		2							
5.0 Sunlight/Shade									
5.0 Thermal Mass Parameter		Average or unknown Precise calculation							
Thermal Mass		N/A					⟨J/m²K		
						'	()/III IX		
7.0 Electricity Tariff		Standard							
Smart electricity meter fitted		No							
Smart gas meter fitted		No							
7.0 Measurements								_	
		Basemen	nt:	.oss Perin 0.00 m	neter In	ternal Fle 0.00	m²	Averag	e Storey Heigl 0.00 m
		Ground floo 1st Store		18.03 m 18.03 m		40.18 40.18			2.31 m 2.61 m
		2nd Store 3rd Store	y:	0.00 m 0.00 m		0.00	m²		0.00 m 0.00 m
		4th Store	y:	0.00 m		0.00	m²		0.00 m
		5th Store 6th Store		0.00 m 0.00 m		0.00 0.00			0.00 m 0.00 m
		7th Store	y:	0.00 m		0.00	m²		0.00 m
3.0 Living Area		17.84				1	m²		
0.0 External Walls	<b>•</b> • • •					01-11	<b>.</b> .	<b>•</b> ·	
Description Type 140mm TF Timber Fr	Construction	one layer of plasterboard)	(W/m²K) (k	(J/m²K) Are	ross Nett Area a(m <sup>2</sup> ) (m <sup>2</sup> ) 3.71 74.49	Shelter Res 0.00	Shelter None	Opening 14.22	gs Area Calculati Type Calculate Wall A
	and minuer named wall (	ono layer or plasterboard)	0.22	3.00 68	14.49	0.00	none	14.22	
0.1 Party Walls Description Typ	e Construc	ction			U-Value	Kappa	Area	Shelter	Shelter
		lasterboard on both sid	les twin tim	ber f rame	(W/m²K)	(kJ/m <sup>2</sup> K 20.00		<b>Res</b> 0.00	None
		but sheathing board			. 0.00	20.00	55.10	0.00	HONG
0.2 Internal Walls									
Description	Construct								ppa Area (n m²K)
Timber GF Timber FF		rd on timber frame rd on timber frame							.00 47.43 .00 69.92
I0.0 External Roofs									



10.2 Internal Ceilings											
Description Internal Ceiling	<b>St</b> +1	orey		Construction Other							<b>a (m²)</b> D.18
11.0 Heat Loss Floors Description	Туре	Storey Inde	x	Construction		U-Valı (W/m²		Shelter Code		elter Kapp actor (kJ/m²	a Area (m² <sup>K</sup> )
FP McCann System	Ground Floor - Solid	Lowest occu	pied	Suspended concrete floor, car	peted	0.11		None		0.00 75.00	
11.2 Internal Floors		<b>e</b> .	•								
Description		Storey Index		nstruction						(kJ/m²K)	Area (m <sup>2</sup> )
Internal Floor			Oth	er						12.60	40.18
12.0 Opening Types Description	Data Source	Туре		Glazing		Glazing	Filling	G-value	Frame	Frame	U Value
-				Glazing		Gap	Туре		Туре	Factor	(W/m²K)
Solid Door Half Glaze	Manufacturer Manufacturer	Solid Doo Half Glaz		oor Double Low-E Soft	0.05		None None	0.00 0.71	Wood Wood	0.70 0.70	1.10 1.10
Window	BFRC, BSI or CERTASS data	Window		Double Low-E Soft	0.05		None	0.47	Wood	1.00	1.30
Window Type 2	Manufacturer	Window		Double Low-E Soft			None	0.63	Wood	0.70	0.90
Window Type 3 French Door		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	0.05		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 None	0.71 0.63	Wood Wood	0.70	1.80 1.50
	Manufacturer		uow		0.05		NONE	0.05	wood	0.70	1.50
13.0 Openings Name	Opening Typ	е		Location		Orienta	tion	Area	(m²)	Pit	ch
Front Front	Solid Door Window			140mm TF 140mm TF		Sout Sout		1.9 4.5	98		) )
Rear	Window			140mm TF		Nort		4.0			)
Rear French Left	French Door Window			140mm TF 140mm TF		Nort Wes		3.0 0.7			) )
14.0 Conservatory				None							
-				100				%			
5.0 Draught Proofing		No				70	70				
16.0 Draught Lobby				NO							
17.0 Thermal Bridging				Calculate Bridges							
17.1 List of Bridges			_								
Bridge Type E2 Other lintels (includir	na other steel lintels	;)		<b>irce Type</b> ependently assessed	Length 10.71	<b>Psi</b> 0.03	Adjuste 0.03	d Reference E2-12826	):		Imported No
E3 Sill	0	,	Inde	ependently assessed	8.30	0.01	0.01	E3-12827			No
E4 Jamb E5 Ground floor (norma	I)			ependently assessed ependently assessed	25.80 8.06	-0.05 0.05	-0.05	E4-12843 E5-12830	(Para)		No No
E5 Ground floor (norma				ependently assessed 9.97 ependently assessed 18.03		0.02	0.02	E5-12831	(Perp)		No
E6 Intermediate floor wi E10 Eaves (insulation a			Tab	ependently assessed le K1 - Default	18.03 8.06	0.00 0.12	0.00 0.12	E6-12833 E10 - Defa	ult - FF		No No
E12 Gable (insulation a			Inde	ependently assessed	9.97	0.03	0.03	E12-12897	′ - FF		No
E16 Corner (normal)	dwellings			ependently assessed ependently assessed	9.84 9.84	-0.03 -0.01	-0.03 -0.01	E16-12838 E18-12842			No No
F IN Party wall between			Inde	ependently assessed	8.06	0.09	0.09	P1 - Briary	Calc		No
E18 Party wall between P1 Party wall - Ground t			Tob	la K1 Dafault	0 06	0.00	0.00	P2-Default P4-12842			No No
P1 Party wall - Ground 1 P2 Party wall - Intermed	liate floor within a d			le K1 - Default ependently assessed	8.06 8.06	0.02	0.02	F4-12042			
P1 Party wall - Ground	liate floor within a d			0.00		0.02	0.02	W/m²K			
P1 Party wall - Ground t P2 Party wall - Intermed P4 Party wall - Roof (ins Y-value	liate floor within a d			ependently assessed		0.02	0.02				
P1 Party wall - Ground t P2 Party wall - Intermed P4 Party wall - Roof (ins Y-value	liate floor within a d			0.00		0.02	0.02	W/m²K	n²) @ 50 P	a	
P1 Party wall - Ground t P2 Party wall - Intermec P4 Party wall - Roof (ins Y-value <b>18.0 Pressure Testing</b>	liate floor within a d			opendently assessed		0.02	0.02	W/m²K		a	
P1 Party wall - Ground t P2 Party wall - Intermed P4 Party wall - Roof (ins Y-value <b>18.0 Pressure Testing</b> Designed AP <sub>50</sub>	liate floor within a d			0.00 Yes 5.01		0.02	0.02	W/m²K		а	
P1 Party wall - Ground t P2 Party wall - Intermee P4 Party wall - Roof (ins Y-value <b>18.0 Pressure Testing</b> Designed AP <sub>50</sub> Property Tested?	liate floor within a d			0.00       Yes       5.01		0.02	0.02	W/m²K			
P1 Party wall - Ground t P2 Party wall - Intermec P4 Party wall - Roof (ins Y-value <b>18.0 Pressure Testing</b> Designed AP <sub>50</sub> Property Tested? Test Method	liate floor within a d sulation at ceiling le			0.00       Yes       5.01       Yes       Blower Door		0.02	0.02	W/m²K	n²) @ 50 P		
P1 Party wall - Ground t P2 Party wall - Intermee P4 Party wall - Roof (ins Y-value <b>18.0 Pressure Testing</b> Designed AP <sub>50</sub> Property Tested? Test Method As Built AP <sub>50</sub>	liate floor within a d sulation at ceiling le			0.00       Yes       5.01       Yes       Blower Door		0.02	0.02	W/m²K	n²) @ 50 P		
P1 Party wall - Ground t P2 Party wall - Intermec P4 Party wall - Intermec P4 Party wall - Roof (ins Y-value 18.0 Pressure Testing Designed AP <sub>50</sub> Property Tested? Test Method As Built AP <sub>50</sub> 19.0 Mechanical Ventilation	liate floor within a d sulation at ceiling le	vel)		0.00       Yes       5.01       Yes       Blower Door		0.02	0.02	W/m²K	n²) @ 50 P		
P1 Party wall - Ground t P2 Party wall - Intermec P4 Party wall - Intermec P4 Party wall - Roof (ins Y-value 18.0 Pressure Testing Designed AP <sub>50</sub> Property Tested? Test Method As Built AP <sub>50</sub> 19.0 Mechanical Ventilation	liate floor within a d sulation at ceiling le	vel)		0.00       Yes       5.01       Yes       Blower Door       15.00		0.02	0.02	W/m²K	n²) @ 50 P		
P1 Party wall - Ground t P2 Party wall - Intermed P4 Party wall - Roof (ins Y-value 18.0 Pressure Testing Designed AP <sub>50</sub> Property Tested? Test Method As Built AP <sub>50</sub> 19.0 Mechanical Ventilation Mechanical Ventilation	liate floor within a d sulation at ceiling le n n ation System Prese ion	vel)		ependently assessed       0.00       Yes       5.01       Yes       Blower Door       15.00			0.02	W/m²K	n²) @ 50 P		



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

<b>SFP</b> 0.14	<b>Fan/Room Type</b> 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				
	<b>Name</b> 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	Pipework			within a single casi	ng					
32.0 Photovoltaic	Unit			One Dwelling						
Export Capable	e Meter?			Yes						
Connected To	Dwelling			Yes						
Diverter				No						
Battery Capaci	ty [kWh]			0.00						
PV Cells	kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Over: Facto	shading or	MCS Certificate Reference	Panel Manufacturer
0.80		West	45°	None Or Little	No	No	1.00		Kelefence	
34.0 Small-scale I	Hydro			None						
Electricity Gen	erated			0.00						
Apportioned				0.00				kWh/Ye	ar	
Connected to c	welling's ele	ctricity meter		Yes						
Electricity Gen	eration			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**

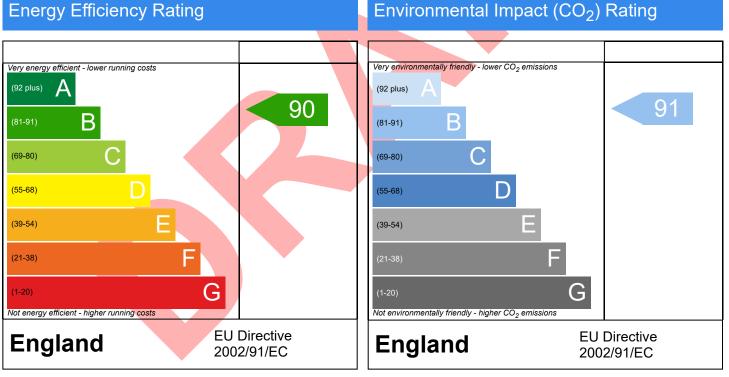


Plot, 3 Bed

Dwelling type: Date of assessment: Produced by: Total floor area: DRRN: House, Semi-Detached 18/06/2024 Sean Hunter 80.36 m<sup>2</sup>

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-YO71-6328-1103 Issue						Issued on Date 18/06/2024			
Assessment Reference 1103					Prop Type Ref Semi-Detached House						
Property		Plot, 3 Bed									
SAP Rating 90 B			90 B	DER	DER 10.44				11.46		
Environment	al		91 B	% DER <	TER				8.90		
CO <sub>2</sub> Emission	ns (t/year)		0.73	DFEE		31.97			35.30		
Compliance	Check		See BREL	% DFEE <	E < TFEE				9.43		
% DPER < TF	PER		5.74	DPER		56.44	TPER	2	59.88		
Assessor De	tails N	/r. Sean Hunter					Asse	ssor ID	Y071-0001		
Client											
		Source Ty	pe	Psi (W/mK)	Length (m)	Result	Reference				
External wall	E2 Other lintels (including other steel lintels)			Independen assessed	-	0.025	10.71	0.27	E2-12826		
External wall				Independen assessed		0.010	8.30	0.08	E3-12827		
External wall	al E4 Jamb			Independen assessed		-0.050	25.80	-1.29	E4-12843		
External wall	E5 Ground floor (normal)			Independen assessed	· ·	0.046	8.06	0.37	E5-12830 (Para)		
External wall	E5 Ground floor (normal)			Independen assessed	-	0.020	9.97	0.20	E5-12831 (Perp)		
External wall	E6 Interme	diate floor within a dwe	lling	Independen assessed	tly	0.001	18.03	0.02	E6-12833		
External wall	E10 Eaves	(insulation at ceiling le	vel)	Table K1 - De		0.120	8.06	0.97	E10 - Default - FF		
External wall	E12 Gable (insulation at ceiling level)			Independen assessed	-	0.027	9.97	0.27	E12-12897 - FF		
External wall	E16 Corner (normal)			Independen assessed		-0.034	9.84	-0.33	E16-12838		
External wall	E18 Party v	E18 Party wall between dwellings			tly	-0.008	9.84	-0.08	E18-12841		
Party wall	P1 Party wall - Ground floor		Independen assessed	-	0.086	8.06	0.69	P1 - Briary Calc			
Party wall	P2 Party wall - Intermediate floor within a dwelling			Table K1 - De		0.000	8.06	0.00	P2-Default		
Party wall	P4 Party wall - Roof (insulation at ceiling level)			Independen assessed	· ·	0.021	8.06	0.17	P4-12842		

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