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 14:07:25

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	66 m ²	
Site Reference	4907-YO71-6328-1542	Plot Reference	1542	
Address				

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	12.36 kgCO ₂ /m ²					
Dwelling carbon dioxide emission rate	10.75 kgCO ₂ /m ²	OK				
1b Target primary energy rate and dwelling primary energy						
Target primary energy	64.76 kWh _{PE} /m ²					
Dwelling primary energy	57.61 kWh _{PE} /m ²	OK				
1c Target fabric energy efficiency and dwelling fabric energy efficiency						
Target fabric energy efficiency	34.5 kWh/m ²					
Dwelling fabric energy efficiency	31.9 kWh/m ²	OK				

2a Fabric U-values	3			
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	0.12	FP McCann System (0.12)	OK
Roofs	0.16	0.09	Roof (1) (0.09)	OK
Windows, doors, and roof windows	1.6	1.29	Rear (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)	68.6579	0.22
Party wall: Party Wall (1)	39.7	0 (!)
Ground floor: FP McCann System, FP McCann System	32.93	0.12
Exposed roof: Roof (1)	32.930000305175	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	North West	N/A	1.1 (!)			
Front, Window	1.4976	North West	1.0	1.3			
Front, Window	2.172	North West	1.0	1.3			
Rear, Window	0.9555	South East	1.0	1.3			
Rear, Window	1.4976	South East	1.0	1.3			
Rear, French Door	3.0912	South East	1.0	1.4			

2d Thermal bridging (better than typically expected values are flagged with a subsequent (!))

Building part 1 - Main Dwelling: Thermal bridging calculated from linear thermal transmittances for each junction

Main element	Junction detail		Source	Psi value [W/mK]	Drawing / reference			
External wall	E2: Other lintels (including steel lintels)	g other	Calculated by person with suitable expertise	0.025 (!)	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	0.046	E5-12830 (Para)			
External wall	E6: Intermediate floor with dwelling	nin a	Calculated by person with suitable expertise	0.001 (!)	E6-12833			
External wall	E10: Eaves (insulation at o level)	ceiling	SAP table default	0.12	E10 - Default			
External wall	E12: Gable (insulation at c level)	ceiling	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	lwellings	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 within a dwelling		SAP table default	0 (!)	P2-Default			
Party wall	P4: Roof (insulation at ceiling level)		Calculated by person with suitable expertise	0.021 (!)	P4-12842			
3 Air permeabi	lity (better than typically ex	xpected	values are flagged with a subsequ	uent (!))				
	itted air permeability at 50Pa	a	8 m ³ /hm ²					
	meability at 50Pa test certificate reference		5.01 m ³ /hm ² , Design value OK					
4 Space heatin	a							
		rs or unde	erfloor heating - Mains gas					
Main heating system 1: Boiler with radiators or under Efficiency 92.5%		5 5						
Efficiency	92							
Efficiency Emitter type		adiators						
	Ra							
Emitter type	re 55	adiators	ər					
Emitter type Flow temperatur System type Manufacturer	re 55 Cc Ide	adiators 5°C ombi boile eal Boiler	S					
Emitter type Flow temperatur System type Manufacturer Model	re 55 Cc Ide	adiators 5°C ombi boile	S					
Emitter type Flow temperatur System type Manufacturer Model Commissioning	re 55 Cc Idu	adiators 5°C ombi boile eal Boiler	S					
Emitter type Flow temperatur System type Manufacturer Model Commissioning Secondary hea	re 55 Cc Idu LC ting system: N/A	adiators 5°C ombi boile eal Boiler OGIC CO	S					
Emitter type Flow temperatur System type Manufacturer Model Commissioning Secondary hea Fuel	re 55 Cc Idu LC iting system: N/A	adiators 5°C ombi boile eal Boiler DGIC CO	S					
Emitter type Flow temperatur System type Manufacturer Model Commissioning Secondary hea Fuel Efficiency	re 55 Cc Idu LC ting system: N/A	adiators 5°C ombi boile eal Boiler DGIC CO	S					
Emitter type Flow temperatur System type Manufacturer Model Commissioning Secondary hea Fuel Efficiency Commissioning	re 55 Cc Idu LC iting system: N/A	adiators 5°C ombi boile eal Boiler DGIC CO	S					
Emitter type Flow temperatur System type Manufacturer Model Commissioning Secondary hea Fuel Efficiency Commissioning 5 Hot water	Ra re 55 Cc Idu LC iting system: N/A N/	adiators 5°C ombi boile eal Boiler DGIC CO	S					
Emitter type Flow temperatur System type Manufacturer Model Commissioning Secondary hea Fuel Efficiency Commissioning 5 Hot water Cylinder/store	Ra re 55 Cc Ida LC .ting system: N/A N/	adiators 5°C ombi boile eal Boiler DGIC CO /A /A	S					
Emitter type Flow temperatur System type Manufacturer Model Commissioning Secondary hea Fuel Efficiency Commissioning 5 Hot water Cylinder/store Capacity	Ra re 55 Cc Ida LC	adiators 5°C ombi boile eal Boiler DGIC CO /A /A	S					
Emitter type Flow temperatur System type Manufacturer Model Commissioning Secondary hea Fuel Efficiency Commissioning 5 Hot water Cylinder/store Capacity Declared heat lo	Ra re 55 Cc Ida LC .ting system: N/A N/ - type: N/A N/ Sss	adiators 5°C ombi boile eal Boiler DGIC CO /A /A /A	S					
Emitter type Flow temperatur System type Manufacturer Model Commissioning Secondary hea Fuel Efficiency Commissioning 5 Hot water Cylinder/store Capacity Declared heat to Primary pipewor	Ra re 55 Cc Ida LC .ting system: N/A N/ - type: N/A N/ Sss	adiators 5°C ombi boile eal Boiler DGIC CO /A /A /A	S					
Emitter type Flow temperatur System type Manufacturer Model Commissioning Secondary hea Fuel Efficiency Commissioning 5 Hot water Cylinder/store Capacity Declared heat lo Primary pipewon Manufacturer	Ra re 55 Cc Ida LC .ting system: N/A N/ - type: N/A N/ Sss	adiators 5°C ombi boile eal Boiler DGIC CO /A /A /A	S					
Emitter type Flow temperatur System type Manufacturer Model Commissioning Secondary hea Fuel Efficiency Commissioning 5 Hot water Cylinder/store Capacity Declared heat lo Primary pipewon Manufacturer Model	Ra re 55 Cc Ida LC .ting system: N/A N/ - type: N/A N/ Sss	adiators 5°C ombi boile eal Boiler DGIC CO /A /A /A	S					
Emitter type Flow temperatur System type Manufacturer Model Commissioning Secondary hea Fuel Efficiency Commissioning 5 Hot water Cylinder/store Capacity Declared heat lo Primary pipewoo Manufacturer Model Commissioning	Ra re 55 Cc Ida LC .ting system: N/A N/ - type: N/A N/ .sss N/ .tinsulated	adiators 5°C ombi boile eal Boiler DGIC CO /A /A /A /A /A	s MBI					
Emitter type Flow temperatur System type Manufacturer Model Commissioning Secondary hea Fuel Efficiency Commissioning 5 Hot water Cylinder/store Capacity Declared heat lo Primary pipewon Manufacturer Model Commissioning Waste water heat	Ra re 55 Cc Ida LC .ting system: N/A N/ - type: N/A N/ SS N/ ck insulated N/ cat recovery system 1 - type	adiators 5°C ombi boile eal Boiler DGIC CO /A /A /A /A /A /A /A 	s MBI					
Emitter type Flow temperatur System type Manufacturer Model Commissioning Secondary hea Fuel Efficiency Commissioning 5 Hot water Cylinder/store Capacity Declared heat lo Primary pipewoo Manufacturer Model Commissioning	Ra re 55 Cc Idu LC .ting system: N/A N/ - type: N/A N/ SS N/ rk insulated N/ Sat recovery system 1 - type	adiators 5°C ombi boile eal Boiler DGIC CO /A /A /A /A /A	s MBI					

6 Controls			
Main heating 1 - type: Programmer, roo	m thermostat, and TR	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 mechanical	ovtract		
Maximum permitted specific fan power	0.7 W/(I/s)		
Specific fan power	0.15 W/(l/s)		ОК
Minimum permitted heat recovery	N/A		
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 East		
Pitch	30°		
Overshading	None or very little		
Manufacturer			
MCS certificate			
10 Heat networks			
N/A			
11 Supporting documentary evidence			
N/A			
12 Declarations			
a. Assessor Declaration	pfirmation that the co	ontents of this BREL Compliance Report	
		information 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			



Property Reference	4907-YO71-6	6328-1542						Issued	on Date	18/0	6/2024	
Assessment Reference	1542				Prop	Туре	Ref	Hardwick	(TF			
Property												
SAP Rating			90 B	DER		10.7	'5	Т	ER	1	2.36	
Environmental			92 A	% DER	< TER						3.03	
CO ₂ Emissions (t/year)			0.61	DFEE		31.9	2	Т	FEE		4.55	
Compliance Check			See BREL	% DFE	E < TFEE						.59	
% DPER < TPER			11.04	DPER		57.6	51	Т	PER	6	4.76	
Assessor Details	Ir. Sean Hunter							A	ssessor	ID Y	071-000	1
Client												
SUMMARY FOR INPUT D	ATA FOR: Ne	w Build (A	\s Designed)									
Drientation			Northwest									
Property Tenture			ND									
Transaction Type			6									
Terrain Type			Suburban									
1.0 Property Type			House, Semi-Detach	ied								
Which Floor			0									
2.0 Number of Storeys			2									
3.0 Date Built			2023									
3.0 Property Age Band			L									
4.0 Sheltered Sides			3									
5.0 Sunlight/Shade			Average or unknown									
6.0 Thermal Mass Parameter			Precise calculation									
Thermal Mass			N/A				k.	kJ/m²K				
7.0 Electricity Tariff			Standard									
Smart electricity meter fitted			No									
Smart gas meter fitted			No									
7.0 Measurements			Basemer Ground floo 1st Store 2nd Store	nt: or: y: y:	Loss Per 0.00 m 16.23 m 16.23 m 0.00 m	1	r Int	ternal Floo 0.00 m 32.93 n 32.93 n 0.00 m	l ² n ² n ² l ²	Averag	e Storey 0.00 m 2.31 m 2.61 m 0.00 m	
			3rd Store 4th Store	ý:	0.00 m 0.00 m			0.00 m 0.00 m	1 ²		0.00 m 0.00 m	
			6th Storey: 0.00 m 0.0				0.00 m ² 0 0.00 m ² 0					
			7th Store	y:	0.00 m			0.00 m	1 ²		0.00 m	
8.0 Living Area			14.40					m	2			
9.0 External Walls Description Type		ruction			(kJ/m ² K) A	rea(m²)		Res	Shelter	-	gs Area C	Туре
	r Frame Timbe	r framed wall (c	one layer of plasterboard)	0.22	9.00	79.85	68.66	0.00	None	11.19	Calcula	te Wall A
9.1 Party Walls Description	Туре	Construc	tion				U-Value	Kanna	Area	Shelter	Sh	elter
				las tut d			(W/m ² K)	(kJ/m²K)	(m²)	Res		
	Filled Cavity with Edge Sealing		asterboard on both sid ut sheathing board	ies, twin ti	mber f ran	ne	0.00	20.00	39.70	0.00	No	one
9.2 Internal Walls Description		Constructi	on	_	_	_	_	_			ppa <i>A</i> m²K)	Area (m
Timber GF Timber 1F			d on timber frame d on timber frame								.00 .00	50.77 67.77
10.0 External Roofs Description Ty	be Co	onstruction			Value Ka				helter Si Code Fa	nelter Calc	ulation	Openin



Plane Ceiling-500mm L Roll	oftExternal Plane Roof	Plasterbo	oard, ins	ulated at ceiling level	0.09	9.00		n²) 2.93 N	None	0.00	Calculate Wall Area	
10.2 Internal Ceilings Description Internal Ceiling	S +	torey 1		Construction Other								ea (m²) 2.93
11.0 Heat Loss Floors Description	Туре	Storey Inde	x C	Construction			′alue m²K)	Shelter	Code		elter Kapı ctor (kJ/m	oa Area (m² ²₭)
FP McCann System	Ground Floor - Solid	Lowest occu	ipied S	uspended concrete floor, ca	arpeted		.12	Nor	ne		.00 75.0	
11.2 Internal Floors		-										
Description		Storey Index		ruction							(kJ/m²K)	
Internal Floor			Other								12.60	32.93
12.0 Opening Types Description	Data Source	Туре		Glazing		Glazing Gap	j Filling Type	G-va	alue	Frame Type	Frame Factor	U Value (W/m²K)
Solid Door Half Glaze Window	Manufacturer Manufacturer BFRC, BSI or			Double Low-E Sot Double Low-E Sot			None None None	0.0 0.7 0.4	71	Wood Wood Wood	0.70 0.70 1.00	1.10 1.10 1.30
Window Type 2 Window Type 3 French Door	CERTASS data Manufacturer Manufacturer BFRC. BSI or	a Window Window Window		Double Low-E Sof Double Low-E Sof Double Low-E Ha	ft 0.05		None None None	0.6 0.7 0.4	71	Wood Wood Wood	0.70 0.70 1.00	0.90 1.30 1.40
French Door Type 2 Roof Window	CERTASS data Manufacturer Manufacturer	a Window Roof Win		Double Low-E Sof Double Low-E Sof	ft 0.05 ft 0.05		None None	0.6	53 71	Wood Wood	0.70 0.70	1.50 1.80
Roof Window Type 2	Manufacturer	Roof Win	dow	Double Low-E Sot	ft 0.05		None	0.6	53	Wood	0.70	1.50
13.0 Openings Name	Opening Ty	ne	1	ocation		Orier	itation		Area (m²)	Pi	tch
Front	Solid Door	þe	14	40mm TF		North	n West		1.98	3		0
Front Rear	Window Window		14	40mm TF 40mm TF		Sout	n West h East		3.67 2.45	5		0 0
Rear	French Door		14	40mm TF		Sout	h East		3.09)		0
14.0 Conservatory			N	one								
15.0 Draught Proofing			1(00				%				
16.0 Draught Lobby			Ν	0								
17.0 Thermal Bridging			С	alculate Bridges								
17.1 List of Bridges												
Bridge Type E2 Other lintels (includi	na other steel linte	s)	Sourc Indepe	e Type endently assessed	Length 7.63	Psi 0.03	Adjuste 0.03	d Refer E2-12				Imported No
E3 Sill E4 Jamb	5	,	Indepe	ndently assessed	5.21 17.70	0.01 -0.05	0.01 -0.05	E3-12 E4-12				No No
E5 Ground floor (norma			Indepe	ndently assessed	8.07	0.05	0.05	E5-12	2830 (F			No
E5 Ground floor (norma E6 Intermediate floor w				endently assessed endently assessed	8.17 16.23	0.05 0.00	0.05 0.00	E5-12 E6-12		Para)		No No
E10 Eaves (insulation a E12 Gable (insulation a				K1 - Default indently assessed	8.17 8.07	0.12 0.03	0.12 0.03	E10 - F12-1	Defau 2897			No No
E16 Corner (normal) E18 Party wall between	U ,		Indepe	endently assessed	9.84 9.84	-0.03 -0.01		E16-1	2838			No No
P1 Party wall - Ground	floor		Indepe	ndently assessed	8.07	0.09	0.09	P1 - E	Briary (Calc		No
P2 Party wall - Intermed P4 Party wall - Roof (in				<1 - Default endently assessed	8.07 8.07	0.00 0.02	0.00 0.02	P2-De P4-12				No No
Y-value			0.	00				w	/m²K			
18.0 Pressure Testing			Ye	es								
Designed AP ₅₀			5.	01				m	³/(h.m²	²) @ 50 Pa	а	
Property Tested?			Ye	Yes				=				
Test Method			В	ower Door				=				
As Built AP ₅₀ 15.00		5.00				m	³/(h.m²	²) @ 50 Pa	a			
19.0 Mechanical Ventilatio	on											
Mechanical Ventilation												
Mechanical Ventil	ation System Pres	ent	Ye	es								
Approved Installat	tion		Ye	es								
Mechanical Ventil	ation data Type		D	atabase								
Туре			М	echanical extract venti	lation - dece	ntralised						



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	Fan/Room Type	Count
0.14	In Room Fan	1
	Kitchen	
0.11	In Room Fan Other	2
	Wet Room	
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other	0
	Wet Room	
0.08	Through Wall Fan	0
	Kitchen	
0.08	Through Wall Fan	1
	Other Wet Room	

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 8
	cap lamp PL1LED3K-BC		-		-
	GL-HEXHAM	99.00	5	495	4
24.0 Main Heating 1	Database				
Percentage of Heat	100.00			%	
Database Ref. No.	17956				
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 space	e			
Heating Pump Age	2013 or later				

Radiators Enter value

Heat Emitter

Flow Temperature



26.0 Heat Networks	None	
25.0 Main Heating 2	None	
Combi keep hot type	None	
Combi boiler type	Standard Combi	
Electric CPSU Temperature	0.00	
Boiler Interlock	Yes	
Flow Temperature Value	55.00	

	Heat Source	Fuel Type Heating Use	Efficiency	Percentage Of Heat	Heat	Heat Power Ratio	Electrical	Fuel Factor	Efficiency type
Heat source 1	None		0.00	0.00	0.00	0.00	0.00		
Heat source 2	None		0.00	0.00	0.00	0.00	0.00		
Heat source 3	None		0.00	0.00	0.00	0.00	0.00		
Heat source 4	None		0.00	0.00	0.00	0.00	0.00		
Heat source 5	None		0.00	0.00	0.00	0.00	0.00		

28.0 Water Heating

Water Heating	Main 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	From mains
Bath Count	1
Baths connected to WWHRS	0
Supplementary Immersion	No
Immersion Only Heating Hot Water	No

28.1 Showers

Description	Shower Type	Flow Rate		Connected	Connected To	
Shower 1	Combi boiler or unvented hot water system	[l/min] [kW] 8.00 0.00		Yes	Instantaneous System 1	
28.3 Waste Water Heat Recovery System Instantaneous System 1						
Database ID	80116					
Brand Model	Showersave, QB1-21					
Details	Year: 2017 + current Efficienc	y: 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			L		
Loss	0.00			kWh/day		
In Airing Cupboard	No					
31.0 Thermal Store	None					
Thermal Store Pipework	within a single casing					



32.0 Photovoltaid	c Unit			One Dwelling						
Export Capab	le Meter?			Yes						
Connected To	Dwelling			Yes						
Diverter				No						
Battery Capac	tity [kWh]			0.00						
PV Cells	s kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overs Facto	shading or	MCS Certificate Reference	Panel Manufacturer
0.80		South East	30°	None Or Little	No	No	1.00		Reference	
34.0 Small-scale	Hydro			None						
Electricity Ger	nerated			0.00						
Apportioned				0.00				kWh/Ye	ear	
Connected to	dwelling's ele	ctricity 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

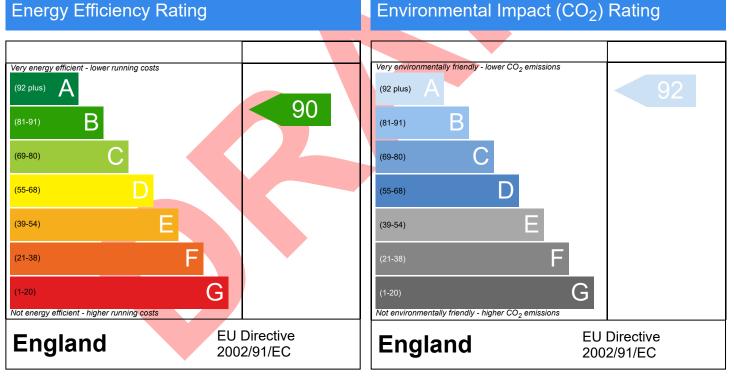
None



Dwelling type: Date of assessment: Produced by: Total floor area: DRRN: House, Semi-Detached 18/06/2024 Sean Hunter 65.86 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 Refe				Issued on D	ate 18	8/06/2024				
Assessment Reference 1542				Prop Type Ref Semi-Detached House						
Property										
SAP Rating 90 B				DER		10.75	TER		12.36	
Environment	al		92 A	% DER •	< TER	-			13.03	
CO₂ Emissions (t/year) 0.61			0.61	DFEE		31.92	TFEE		34.55	
Compliance (Check		See BREL	% DFEE	< TFEE	_			7.59	
% DPER < TP	PER		11.04	DPER		57.61	TPER		64.76	
Assessor Det	tails Mi	. Sean Hunter					Asses	sor ID	Y071-0001	
Client										
	Junction de	etails		Source 1	Гуре	Psi (W/mK)	Length (m)	Result	Reference	
External wall	E2 Other lintels (including other steel linte			Independ assess		0.025	7.63	0.19	E2-12826	
External wall	E3 Sill	E3 Sill			ently ed	0.010	5.21	0.05	E3-12827	
External wall	E4 Jamb	E4 Jamb			ently ed	-0.050	17.70	-0.89	E4-12843	
External wall	E5 Ground f	loor (normal)		Independ assess		0.046	8.07	0.37	E5-12830 (Para)	
External wall	E5 Ground f	loor (normal)		Independ assess	2	0.046	8.17	0.38	E5-12830 (Para)	
External wall	E6 Intermed	liate floor within a dwe	lling	Independ assess	5	0.001	16.23	0.02	E6-12833	
External wall	E10 Eaves ((insulation at ceiling lev	vel)	Table K1 - [Default	0.120	8.17	0.98	E10 - Default	
External wall	E12 Gable (insulation at ceiling lev	vel)	Independ assess	2	0.027	8.07	0.22	E12-12897 - FF	
External wall	E16 Corner	E16 Corner (normal)			ently ed	-0.034	9.84	-0.33	E16-12838	
External wall	E18 Party w	8 Party wall between dwellings			ently ed	-0.008	9.84	-0.08	E18-12841	
Party wall	P1 Party wall - Ground floor			Independ assess		0.086	8.07	0.69	P1 - Briary Calc	
Party wall	P2 Party wall - Intermediate floor within a dwelling			Table K1 - I	Default	0.000	8.07	0.00	P2-Default	
Party wall	P4 Party wa	ll - Roof (insulation at	ceiling level)	Independ assess	2	0.021	8.07	0.17	P4-12842	

Total: 123.15 W/mK: Y-Value: 0.00 W/m²K: