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 14:07:48

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

Dwelling Details			
Assessment Type	As designed	Total Floor Area	126 m ²
Site Reference	4907-YO71-6328-1038	Plot Reference	1038
Address	Plot 4 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	9.61 kgCO ₂ /m ²								
Dwelling carbon dioxide emission rate	9.24 kgCO ₂ /m ²	OK							
1b Target primary energy rate and dwelling primary energy	ענ								
Target primary energy	50.15 kWh _{PE} /m ²								
Dwelling primary energy	49.4 kWh _{PE} /m ²	OK							
1c Target fabric energy efficiency and dwelling fabric energy	1c Target fabric energy efficiency and dwelling fabric energy efficiency								
Target fabric energy efficiency	38.0 kWh/m ²								
Dwelling fabric energy efficiency	35.3 kWh/m ²	OK							

2a Fabric U-values	S			
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	N/A	N/A	N/A
Curtain walls	1.6	N/A	N/A	N/A
Floors	0.18	0.11	FP McCann System (0.11)	OK
Roofs	0.16	0.09	Roof (2) (0.16)	OK
Windows, doors,	1.6	1.28	Rear (1.4)	OK
and roof windows				
Rooflights	2.2	N/A	N/A	N/A

2b Envelope elements (better than typically expected values are flagged with a subsequent (!))									
Name	Net area [m ²]	U-Value [W/m ² K]							
Exposed wall: Walls (1)	137.3219	0.22							
Ground floor: FP McCann System, FP McCann System	63.53	0.11							
Exposed roof: Roof (1)	62.32	0.09 (!)							
Exposed roof: Roof (2)	1.21	0.16							

2c Openings (better than typ	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 (!)						
Left, Half Glaze	1.9782	North West	N/A	1.1 (!)						
Front, Window	3.66	South West	1.0	1.3						
Front, Window	1.4976	South West	1.0	1.3						
Front, Window	1.4976	South West	1.0	1.3						
Front, Window	1.4976	South West	1.0	1.3						
Front, Window	0.71925	South West	1.0	1.3						
Right, Window	1.1385	South	1.0	1.3						
Left, Window	1.1385	West	1.0	1.3						
Rear, French Door	3.0933	North East	1.0	1.4						
Rear, Window	1.9005	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						

Neme	Aroa [m ²]	Orientetien	Eromo footor	
Name	Area [m]	Orientation	Frame factor	U-Value [W/m ² K]
Rear, Window	0.71925	North East	1.0	1.3

Rear, Window		0.71925	North East 1.0		1.3
2d Thermal bri	idging (b <u>etter than typic</u>	ally <u>expect</u>	ted values are flagged with a sub	sequent (!))	
Building part 1	- Main Dwelling: Therma	l bridging ca	alculated from linear thermal transm	ittances for eac	ch junction
Main element	Junction detail		Source	Psi value	Drawing /
				[W/mK]	reference
External wall	E2: Other lintels (includ	ding other	Calculated by person with suitable		E2-12826
External trail	steel lintels)	ang other	expertise	0.020 (.)	22 12020
External wall	/		Calculated by person with suitable	e 0.01 (l)	E3-12827
External trail	20.011		expertise		20 12021
External wall	E4: Jamb		Calculated by person with suitable	e -0.05	E4-12843
			expertise	0.00	2112010
External wall	E4: Jamb		SAP table default	0.1	E4-Default
External wall	E5: Ground floor (norm	nal)	Calculated by person with suitable	-	E5-12830
		iai)	expertise	0.010	(Para)
External wall	E5: Ground floor (norm	nal)	Calculated by person with suitable	<u>0 02 (I)</u>	E5-12831
		iai)	expertise	0.02 (.)	(Perp)
External wall	E6: Intermediate floor	within a	Calculated by person with suitable	> 0.001 (I)	E6-12833
	dwelling	within a	expertise		2012000
External wall	E10: Eaves (insulation	at coiling	SAP table default	0.12	E10 - Default ff
	level)	at cening		0.12	
External wall	E24: Eaves (insulation	at ceiling	SAP table default	0.15	E24 - Default
	level - inverted)	aroenny		0.15	
External wall	E12: Gable (insulation	at coiling	Calculated by person with suitable	0.027 (I)	E12-12897 - FF
		arcenng	expertise		E12-12097 - FF
External wall	E10: Eaves (insulation	at acilian	1	0.000 (I)	
External wall	•	°		0.026 (!)	E10 - EW02 -
Eutomol well			expertise	0.004 (I)	RE01
External wall	E16: Corner (normal)		Calculated by person with suitable	-0.034 (!)	E16-12838
Extornal wall	E17: Corpor (invorted	internal	expertise Calculated by person with suitable	0.114	E17 10000
External wall	E17: Corner (inverted -			-0.114	E17-12839
	area greater than exter	nai area)	expertise		
3 Air permeab	ility (better than typicall	y expected	values are flagged with a subse	quent (!))	
Maximum perm	nitted air permeability at 5	0Pa	$8 m^3/hm^2$		
Dwelling air per	meability at 50Pa		4.5 m ³ /hm ² , Design value		OK
Air permeability	test certificate reference				
4 Space heating					
		ators or und	lerfloor heating - Mains gas		
Efficiency	System 1. Doller with radio	92.5%	lemoor heating - Mains gas		
Emitter type		Radiators			
Flow temperatu		55°C			
System type		Combi boi	ler		
Manufacturer		Ideal Boile			
Model		LOGIC CC			
Commissioning					
	ating system: N/A	I			
Fuel		N/A			
Efficiency		N/A			
Commissioning					
		L			
5 Hot water					
Cylinder/store	- type: N/A				
Capacity		N/A			
Declared heat I		N/A			
Primary pipewo	ork insulated	N/A			
Manufacturer					
Model					
Commissioning					
	eat recovery system 1 -		ntaneous		
Efficiency		69.8%			
Manufacturer		Q-Blue B.	V.		
Model		QB1-21			

6 Controls			
	ature zone control by	arrangement of plumbing and electrical s	ervices
Function			
Ecodesign class			
Manufacturer			
Model			
Water heating - type: Cylinder thermost	at and HW separately	v timed	
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		
9 Machanical vantilation	•		
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		UN
efficiency			
Heat recovery efficiency	N/A		N/A
Manufacturer/Model	Lo-Carbon NBR dM	EV C 100 498095	
Commissioning			
-			
9 Local generation			
Technology type: Photovoltaic system			
Peak power	1.2 kWp		
Orientation	South West		
Pitch	45°		
Overshading	None or very little		
Manufacturer			
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.		Γ	
O'rear a d			
Signed:		Assessor ID:	
Name:		Date:	
b. Client Declaration			
N/A			



Assessment Reference Property SAP Rating Environmental	1038													
SAP Rating							Prop	Type R	lef	Pembro	ke TF			
-	Plot, 4	4 Bed												
-				91 B		DER		9.24			TER		9.61	
Environmental				91 B			R < TER	9.24					3.85	
CO ₂ Emissions (t/year)				1		DFEE		35.27	7		TFEE		38.01	
Compliance Check				See BR			E < TFEE						7.22	
% DPER < TPER						DPER			<u>`````````````````````````````````````</u>		TPER		50.15	
/ DPER STPER				1.49		DPER		49.40)		IFER		50.15	
Assessor Details	Mr. Sean H	Hunter									Assessor	' ID	Y071-	0001
Client														
SUMMARY FOR INPU	T DATA FO	R: New I	Build (A	s Desig	gned)									
Drientation				Southwe	est									
Property Tenture				ND										
Transaction Type				6										
Terrain Type				Suburba	an									
.0 Property Type				House,	Detached									
Which Floor				0										
2.0 Number of Storeys				2										
3.0 Date Built				2019										
3.0 Property Age Band				L										
.0 Sheltered Sides				2										
5.0 Sunlight/Shade				Average	e or unknown									
5.0 Thermal Mass Paramet	ter				calculation									
Thermal Mass				N/A						I	⟨J/m²K			
7.0 Electricity Tariff				Standar	d									
Smart electricity meter fi	tted			No										
Smart gas meter fitted				No										
7.0 Measurements					Basemer Ground floo 1st Store 2nd Store 3rd Store 4th Store 5th Store 6th Store 7th Store	nt: y: y: y: y: y: y: y:	t Loss Pe 0.00 m 32.89 r 31.59 r 0.00 m 0.00 m 0.00 m 0.00 m 0.00 m	1	In	ternal Fla 0.00 63.53 62.32 0.00 0.00 0.00 0.00 0.00 0.00 0.00	m ² m ² m ² m ² m ² m ² m ² m ²	Aver	rage Sto 0.00 2.38 2.6 ² 0.00 0.00 0.00 0.00 0.00 0.00	3 m 1 m 0 m 0 m 0 m 0 m 0 m
3.0 Living Area				18.11							m²			
	Туре	Construct				(W/m²K	Kappa (kJ/m²K) A		Nett Area (m²)	Shelter Res	Shelter		-	ea Calculatio Type
•	Timber Frame	Timber fra	med wall (or	ne layer of	plasterboard)	0.22		160.73	137.32	0.00	None	23	.41 Cal	culate Wall A
0.1 Party Walls Description	Туре	c	Construct	tion						e Kappa) (kJ/m²K		Shelte Res	r	Shelter
E-WM-30	Filled Cav Edge Sea		Plasterboa sides, AAC		bs mounted cavity	on ceme	nt render o			45.00	43.70	0.00		None
.2 Internal Walls														
Description		Co	onstructio	on									Kappa kJ/m²K)	Area (m
Timber GF Timber 1F Structural Timber		Pla	asterboard asterboard asterboard	d on timb	oer frame							(9.00 9.00 9.00 9.00	77.30 134.35 41.27



Description	Туре	Construc	ion		U-Value (W/m²K)(Kappa (kJ/m²K)A	rea(m²) A	rea C	helter Code	Shelter Factor	r Calculatio Type	nOpening
Plane Ceiling-500mm Lo	oftExternal Plane	Plasterboa	ırd, insul	ated at ceiling level	0.09	9.00		m²) 2.32 ♪	None	0.00	Enter Gros	s 0.00
Roll Bay	Roof External Plane Roof	Plasterbo	ırd, insul	ated at ceiling level	0.16	9.00	1.21 1	.21 1	None	0.00	Area Enter Gros Area	s 0.00
10.2 Internal Ceilings Description Internal Ceiling	S +	torey		construction Other								e a (m²) 2.32
11.0 Heat Loss Floors	•	1									0	2.52
Description	Type	Storey Index		nstruction		(W/I	/alue m²K)	Shelter			Shelter Kapp Factor (kJ/m	²K)
FP McCann System	Ground Floor - Solid	Lowest occup	ied Su	spended concrete floor, car	peted	0.	.11	Nor	ne		0.00 75.0	0 63.53
11.2 Internal Floors		Chamar	C								Kanna	A
Description Internal Floor		Storey Index	Constru Other	iction							Kappa (kJ/m²K) 13.80	Area (m ²) 62.32
12.0 Opening Types												
Description	Data Source	Туре		Glazing		Glazing	Filling	G-va	alue	Frame	Frame	U Value
-				5		Gap	Туре			Туре	Factor	(W/m²K)
Solid Door Half Glaze	Manufacturer Manufacturer	Solid Doo Half Glaze		Double Low-E Soft	0.05		None None	0.0 0.7		Wood Wood	0.70 0.70	1.10 1.10
Window	BFRC, BSI or	Window		Double Low-E Soft	0.05		None	0.4	47	Wood	1.00	1.30
Window Type 2	CERTASS data Manufacturer	a Window		Double Low-E Soft	0.05		None	0.6	53	Wood	0.70	0.90
Window Type 3 French Door	Manufacturer BFRC, BSI or CERTASS data	Window Window		Double Low-E Soft Double Low-E Harc			None None	0.7 0.4		Wood Wood	0.70 1.00	1.30 1.40
French Door Type 2	Manufacturer	Window		Double Low-E Soft	0.05		None	0.6	53	Wood	0.70	1.50
Roof Window Roof Window Type 2	Manufacturer Manufacturer	Roof Wind Roof Wind		Double Low-E Soft Double Low-E Soft			None None	0.7 0.6		Wood Wood	0.70 0.70	1.80 1.50
13.0 Openings												
Name	Opening Ty	ре		cation			itation		Area (I			tch
Front Left	Solid Door Half Glaze)mm Knauf Supafil 34)mm Knauf Supafil 34			n West n West		1.98 1.98			0 0
Front	Window		10	0mm Knauf Supafil 34		South	n West		8.87			0
Right Left	Window Window)mm Knauf Supafil 34)mm Knauf Supafil 34			outh 'est		1.14 1.14			0 0
Rear	French Door		10)mm Knauf Supafil 34		North	n East		3.09)		0
Rear	Window		100	0mm Knauf Supafil 34		North	n East		5.21			0
14.0 Conservatory			No									
15.0 Draught Proofing			100)				%				
16.0 Draught Lobby			No									
17.0 Thermal Bridging			Ca	culate Bridges								
17.1 List of Bridges												
Bridge Type		-	Source		Length	Psi	Adjuste					Imported
E2 Other lintels (includin E3 Sill	ig other steel linter	is)		dently assessed dently assessed	12.44 13.04	0.03 0.01	0.03 0.01	E2-12 E3-12				No No
E4 Jamb			Indeper	dently assessed	30.90	-0.05	-0.05	E4-12	2843			No
E4 Jamb E5 Ground floor (normal)			1 - Default dently assessed	3.00 16.13	0.10 0.05	0.10 0.05	E4-De	efault 2830 (F	Dara)		No No
E5 Ground floor (normal				dently assessed	16.76	0.02	0.02		2831 (F			No
E6 Intermediate floor wit				dently assessed	29.71	0.00	0.00	E6-12				No
E10 Eaves (insulation at E24 Eaves (insulation at		erted)		1 - Default 1 - Default	16.13 2.35	0.12 0.15	0.12 0.15		Defau Defau			No No
E12 Gable (insulation at	ceiling level)	,	Indeper	dently assessed	15.46	0.03	0.03	E12-1	2897 -	- FF		No
E10 Eaves (insulation at E16 Corner (normal)	ceiling level)			dently assessed dently assessed	2.81 21.76	0.03 -0.03	0.03 -0.03	E10 - E16-1		- RE01		No No
E17 Corner (inverted – i external area)	nternal area great	er than		dently assessed	1.80	-0.11	-0.11	E10-1				No
,				0					/m21/			
Y-value			0.0	U					/m²K			
18.0 Pressure Testing			Yes									
Designed AP ₅₀			4.5					m [:]	³/(h.m²)@50	Ра	
Property Tested?			Yes									
Test Method			RIC	wer Door								
As Built AP ₅₀			15.	00					3//h ~?) @ 50	Pa	



Mechanical Ventilation System Present	Yes
Approved Installation	Yes
Mechanical Ventilation data Type	Database
Туре	Mechanical extract ventilation - decentralised
MV Reference Number	500776
Configuration	0
MVHR Duct Insulated	Uninsulated Ducts
Manufacturer SFP	0.00
Duct Type	Rigid
MVHR Efficiency	0.00
Wet Rooms	5
SEP 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	4
	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	0
	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 cap lamp PL1LED3K-BC GL-HEXHAM	Efficacy 90.00 99.00	Power 9 5	Capacity 810 495	Count 15 4
24.0 Main Heating 1	Database			\neg	
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	2110				
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				



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	
Flow Temperature	Enter value	
Heat Emitter	Radiators	
Heating Pump Age	2013 or later	
Is MHS Pumped	Pump in heated space	
Fan Assisted Flue	Yes	

26.0 Heat Networks

None

	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		

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 [l/min]	Rated Power [kW]	Connected	Connected To Instantaneous System 1	
Shower 1	Combi boiler or unvented hot water system	8.00	0.00	Yes		
28.3 Waste Water Heat Recovery System Instantaneous System 1						
Database ID	80116					
Brand Model	Showersave, QB1-21					
Details	Year: 2017 + current Efficient	y: 0 Utilisation	factor: 0.973			
Dedicated Storage Volume	0					
29.0 Hot Water Cylinder	None					
Cylinder Stat	Yes					
Cylinder In Heated Space	Yes					
Independent Time Control	Yes					
Insulation Type	Measured Loss					
Insulation Thickness	0					
Cylinder Volume	250.00					



Loss				1.61				kWh/da	ау	
Pipes insulation	on			Fully insulated prir	nary pipework					
In Airing Cupb	oard			No						
31.0 Thermal Sto	ore			None						
Thermal Store	Pipework			within a single cas	ing					
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
1.20		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	ear	
Connected to	dwelling's ele	ctricity meter		Yes						
Electricity Ger	neration			Annual						
Jan	Feb	Mar	Apr	May Jun	Jul	Aug	Sep	Oc	t Nov	Dec

Recommendations

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

Predicted Energy Assessment

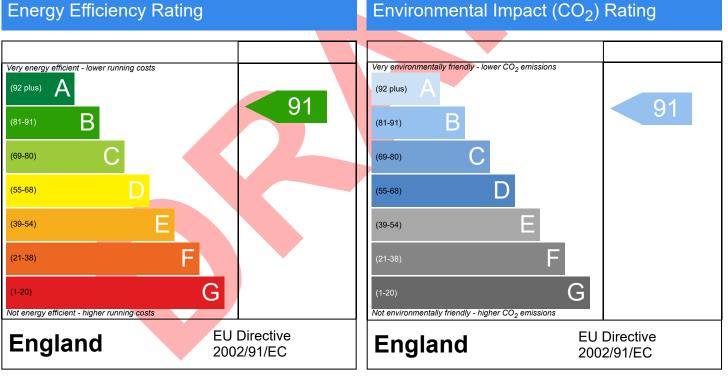


Plot, 4 Bed

Dwelling type: Date of assessment: Produced by: Total floor area: DRRN: House, Detached 18/06/2024 Sean Hunter 125.85 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 Ret	ference	4907-YO71-6328-1038 Issued						18/06/2024
Assessment	Reference	1038		Prop	Type Ref	Detached Ho	ouse	
Property		Plot, 4 Bed						
SAP Rating 91 B				DER	9.24	TER		9.61
Environmen	tal		91 B	% DER < TER				3.85
CO ₂ Emissio	ons (t/year)		1	DFEE	35.27	TFE	1	38.01
Compliance	Check		See BREL	% DFEE < TFEE	Ξ			7.22
% DPER < T	PER		1.49	DPER	49.40	TPE	र	50.15
Assessor De	etails Mi	r. Sean Hunter				Asse	ssor ID	Y071-0001
Client								
	Junction details			Source Type	Psi (W/mK)	Length (m)	Result	Reference
External wall	E2 Other lintels (including other steel lintels)			Independently assessed	0.025	12.44	0.31	E2-12826
External wall	E3 Sill			Independently assessed	0.010	13.04	0.13	E3-12827
External wall	E4 Jamb			Independently assessed	-0.050	30.90	-1.54	E4-12843
External wall	E4 Jamb			Table K1 - Defaul	lt 0.100	3.00	0.30	E4-Default
External wall	E5 Ground fl	oor (normal)		Independently assessed	0.046	16.13	0.74	E5-12830 (Para)
External wall	E5 Ground fl	oor (normal)		Independently assessed	0.020	16.76	0.34	E5-12831 (Perp)
External wall	E6 Intermedi	ate floor within a dwell	ling	Independently assessed	0.001	29.71	0.03	E6-12833
External wall	E10 Eaves (i	nsulation at ceiling lev	el)	Table K1 - Defaul	lt 0.120	16.13	1.94	E10 - Default ff
External wall	E24 Eaves (insulation at ceiling level - inverted)			Table K1 - Defaul	lt 0.150	2.35	0.35	E24 - Default
External wall	E12 Gable (insulation at ceiling level)			Independently assessed	0.027	15.46	0.42	E12-12897 - FF
External wall	E10 Eaves (insulation at ceiling level)			Independently assessed	0.026	2.81	0.07	E10 - EW02 - RE01
External wall	E16 Corner (normal)			Independently assessed	-0.034	21.76	-0.74	E16-12838
External wall	E17 Corner (external area	inverted – internal area i)	a greater than	Independently assessed	-0.114	1.80	-0.21	E17-12839

Total: 182.29 W/mK: Y-Value: 0.00 W/m²K: