#### **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 14:06:58

Project Information			
Assessed By	Sean Hunter	Building Type	House, Mid-terrace
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-YO71-6328-1054	Plot Reference	1054
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	10.4 kgCO <sub>2</sub> /m <sup>2</sup>						
Dwelling carbon dioxide emission rate	9.05 kgCO <sub>2</sub> /m <sup>2</sup>	OK					
1b Target primary energy rate and dwelling primary energy							
Target primary energy	54.17 kWh <sub>PE</sub> /m <sup>2</sup>						
Dwelling primary energy	48.66 kWh <sub>PE</sub> /m <sup>2</sup>	OK					
1c Target fabric energy efficiency and dwelling fabric energy	1c Target fabric energy efficiency and dwelling fabric energy efficiency						
Target fabric energy efficiency	30.3 kWh/m <sup>2</sup>						
Dwelling fabric energy efficiency	27.1 kWh/m <sup>2</sup>	ОК					

2a Fabric U-values	3			
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,	1.6	1.29	Rear French (1.4)	OK
and roof windows				
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)	35.4461	0.22
Party wall: Party Wall (1)	79.35	0 (!)
Ground floor: FP McCann System, FP McCann System	40.18	0.11
Exposed roof: Roof (1)	40.180000305175	0.09 (!)
	78	

Name	Area [m <sup>2</sup> ]	Orientation	Frame factor	U-Value [W/m <sup>2</sup> K]
Front, Solid Door	1.9782	North West	N/A	1.1 (!)
Front, Window	0.414	North West	1.0	1.3
Front, Window	1.3104	North West	1.0	1.3
Front, Window	1.3104	North West	1.0	1.3
Front, Window	1.4976	North West	1.0	1.3
Rear, Window	1.3104	South East	1.0	1.3
Rear, Window	1.092	South East	1.0	1.3
Rear, Window	1.4976	South East	1.0	1.3
Rear French, French Door	3.0933	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 (includin steel lintels)	g 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	E6: Intermediate floor wit dwelling	hin a	Calculated by person with suitable expertise	0.001 (!)	E6-12833			
External wall	E10: Eaves (insulation at level)	ceiling	SAP table default	0.12	E10 - Default - FF			
External wall	E18: Party wall between	dwellings	Calculated by person with suitable expertise	-0.008 (!)	E18-12841			
Party wall	P1: Ground floor		Calculated by person with suitable expertise		P1 - Briary Calc			
Party wall	P2: Intermediate floor wit dwelling		SAP table default	0 (!)	P2-Default			
Party wall	P4: Roof (insulation at ce level)	eiling	Calculated by person with suitable expertise	0.021 <b>(!)</b>	P4-12842			
3 Air permeabil	ity (better than typically e	expected	values are flagged with a subseque	uent (!))				
	tted air permeability at 50P		8 m <sup>3</sup> /hm <sup>2</sup>					
	neability at 50Pa		5.01 m <sup>3</sup> /hm <sup>2</sup> , Design value		OK			
Air permeability	test certificate reference							
4 Space heating	N		•					
	stem 1: Boiler with radiato	are or und	orfloor booting Mains gas					
Efficiency		2.5%	emoti heating - Mains gas					
Emitter type		Radiators						
Flow temperatur		5°C						
System type		Combi boil	er					
Manufacturer		deal Boile						
Model		OGIC CO	DMBI					
Commissioning								
Secondary heat	ting system: N/A							
Fuel		I/A						
Efficiency	N	I/A						
Commissioning								
5 Hot water	·							
Cylinder/store -	· type: N/A							
Capacity		I/A						
Declared heat lo		I/A						
Primary pipewor		I/A						
Manufacturer								
Model								
Commissioning								
	at recovery system 1 - typ		taneous					
Efficiency	6	9.8%						
Manufacturer		Q-Blue B.V	·					
Model	C	QB1-21						
6 Controls								
	- type: Programmer, room	thermosta	t, and TRVs					
Function								
Ecodesign class								
Manufacturer								
Model								
Water heating -	type: N/A							
Manufacturer	- <u>yr</u> -•							
Model								

7 Lighting Minimum permitted light source efficacy	75 lm/W		
Lowest light source efficacy	90 lm/W		OK
External lights control	N/A		
	I		
8 Mechanical ventilation			
System type: Decentralised mechanical			
Maximum permitted specific fan power	0.7 W/(I/s)		01/
Specific fan power	0.16 W/(l/s)		OK
Minimum permitted heat recovery	N/A		
efficiency	N1/A		
Heat recovery efficiency Manufacturer/Model	N/A Lo-Carbon NBR dM	EV/ C 100 100005	N/A
	LO-Carbon NBR divi	EV C 100, 498095	
Commissioning			
9 Local generation			
Technology type: Photovoltaic system	(1)		
Peak power	0.8 kWp		
Orientation	South East		
Pitch	30°		
Overshading	None or very little		
Manufacturer			
MCS certificate			
10 Heat networks			
IN/A			
N/A			
11 Supporting documentary evidence			
11 Supporting documentary evidence			
11 Supporting documentary evidence N/A 12 Declarations			
11 Supporting documentary evidence         N/A         12 Declarations         a. Assessor Declaration	nfirmation that the cc	ntents of this BREL Compliance Report	
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		6328-1054						15500	d on Date	10/0	6/2024	
Assessment Reference	1054				Prop Type Ref Evel				Eveleigh - Semi TF			
Property	Plot, 3 Bed											
SAP Rating			91 B	DER		9.0	5		TER	1	0.40	
Environmental			92 A	% DER	< TER						2.98	
CO <sub>2</sub> Emissions (t/year)			0.63	DFEE		27.1	11		TFEE		0.30	
Compliance Check			See BREL	% DFE	E < TFEE					1	0.50	
% DPER < TPER			10.17	DPER		48.6	36		TPER	5	4.17	
Assessor Details	Ir. Sean Hunter								Assessor	ID Y	071-00	01
Client												
SUMMARY FOR INPUT D	ATA FOR: Ne	w Build (	As Designed)									
Drientation			Northwest									
Property Tenture			ND									
ransaction Type			6									
Ferrain Type			Suburban									
.0 Property Type			House, Mid-Terrace									
Which Floor			0									
2.0 Number of Storeys			2									
3.0 Date Built			2019									
8.0 Property Age Band			L									
.0 Sheltered Sides			2									
.0 Sunlight/Shade			Average or unknown									
6.0 Thermal Mass Parameter			Precise calculation									
Thermal Mass			N/A					k	J/m²K			
7.0 Electricity Tariff			Standard									
Smart electricity meter fitted			No									
Smart gas meter fitted			No									
7.0 Measurements				Heat	Loss Pe	rimete	r In	ternal Flo	or Area	Averag	e Stor	y Heiat
			Basemen	t:	0.00 m			0.00	m²	Averag	0.00 r 2.31 r	n
			Ground floo 1st Store	y:	9.95 m 9.95 m			40.18 40.18	m²		2.61 r	n
			2nd Store 3rd Store		0.00 m 0.00 m			0.00 I 0.00 I			0.00 r 0.00 r	
			4th Store 5th Store	y:	0.00 m 0.00 m			0.00 0.00			0.00 r 0.00 r	
			6th Store	y:	0.00 m			0.00	m²		0.00 r	n
			7th Store	y:	0.00 m			0.00	m²		0.00 r	n
3.0 Living Area			17.84					r	n²			
0.0 External Walls Description Type	Con	struction		U-Value	Карра	Gross	Nett Area	Shelter	Shelter	Openin	is Aroa	Calculatio
			one layer of plasterboard)		(kJ/m <sup>2</sup> K) / 9.00			Res 0.00	None	13.50		Type ate Wall A
0.1 Party Walls				0.22		. 5.50	20.70				20100	
•	Гуре	Constru	ction					Kappa	Area	Shelter	Sł	nelter
	Filled Cavity with		lasterboard on both sid out sheathing board	es, twin ti	mber f ra	me	<b>(W/m²K)</b> 0.00	20.00 (kJ/m²K	( <b>m²)</b> 79.35	<b>Res</b> 0.00	Ν	lone
.2 Internal Walls	<u> </u>		<u> </u>									
Description		Construct	tion								ppa m²K)	Area (n
Timber GF Timber FF			ard on timber frame ard on timber frame							. 9.	00 00 00	47.43 69.92
0.0 External Roofs												



Roll	oftExternal Plane Roof	Plasterbo	ard, ir	nsulated at ceiling level	0.09	9.00 4		<b>n²)</b> ).18 None	9.00	Calculate Wall Area	
10.2 Internal Ceilings Description Internal Ceiling	S +	<b>torey</b> 1		Construction Other							e <b>a (m²)</b> 0.18
11.0 Heat Loss Floors Description	Туре	Storey Index	ĸ	Construction		U-Val (W/m		Shelter Code		elter Kapp actor (kJ/m	oa Area (m² ²K)
FP McCann System	Ground Floor - Solid	Lowest occu	pied	Suspended concrete floor, carpe	ted	0.1		None		0.00 75.0	
11.2 Internal Floors		_									
Description Internal Floor		Storey Index	Con Othe	struction er						Kappa (kJ/m <sup>2</sup> K) 12.60	<b>Area (m<sup>2</sup>)</b> 40.18
2.0 Opening Types											
Description	Data Source	Туре		Glazing		Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Solid Door Half Glaze Window	Manufacturer Manufacturer BFRC, BSI or CERTASS data	Solid Doo Half Glaze Window		or Double Low-E Soft 0 Double Low-E Soft 0			None None None	0.00 0.71 0.47	Wood Wood Wood	0.70 0.70 1.00	1.10 1.10 1.30
Window Type 2 Window Type 3 French Door	Manufacturer Manufacturer BFRC, BSI or CERTASS data	Window Window Window		Double Low-E Soft 0 Double Low-E Soft 0 Double Low-E Hard	.05		None None None	0.63 0.71 0.40	Wood Wood Wood	0.70 0.70 1.00	0.90 1.30 1.40
French Door Type 2 Roof Window Roof Window Type 2	Manufacturer Manufacturer Manufacturer	Window Roof Wind Roof Wind		Double Low-E Soft 0 Double Low-E Soft 0 Double Low-E Soft 0	.05		None None None	0.63 0.71 0.63	Wood Wood Wood	0.70 0.70 0.70	1.50 1.80 1.50
13.0 Openings											
<b>Name</b> Front	<b>Opening Ty</b> Solid Door	be		Location 140mm TF		Orient North		Area	<b>(m²)</b> 98		<b>tch</b> 0
Front	Window			140mm TF		North	West	4.	53		0
Rear Rear French	Window French Door			140mm TF 140mm TF		South South			90 09		0 0
4.0 Conservatory				None							
15.0 Draught Proofing				100				%			
16.0 Draught Lobby			İ	No							
17.0 Thermal Bridging 17.1 List of Bridges				Calculate Bridges							
Bridge Type E2 Other lintels (includin E3 Sill E4 Jamb E5 Ground floor (norma E6 Intermediate floor wi E10 Eaves (insulation a E18 Party wall between P1 Party wall - Ground f P2 Party wall - Intermed P4 Party wall - Roof (ins	l) thin a dwelling t ceiling level) dwellings floor liate floor within a d	dwelling	Inde Inde Inde Inde Table Inde Table	rce Type pendently assessed pendently assessed pendently assessed pendently assessed e K1 - Default pendently assessed e K1 - Default pendently assessed e K1 - Default	Length 10.03 7.61 23.70 9.96 9.97 19.68 16.12 16.12 16.12	<b>Psi</b> 0.03 0.01 -0.05 0.05 0.00 0.12 -0.01 0.09 0.00 0.02	0.03 0.01 -0.05	d Referenc: E2-12826 E3-12827 E4-12843 E5-12830 E6-12833 E10 - Defa E18-1284 P1 - Brian P2-Defaul P4-12842	(Para) ault - FF 1 / Calc t		Imported No No No No No No No No
Y-value				0.00				W/m²k	(		
8.0 Pressure Testing				Yes							
Designed AP50				5.01				m³/(h.r	n²) @ 50 P	а	
Property Tested?			İ	Yes							
Test Method			İ	Blower Door							
As Built AP50			ĺ	15.00				m³/(h.r	m²) @ 50 P	а	
9.0 Mechanical Ventilatio	n										
Mechanical Ventilation	ı										
Mechanical Ventila	ation System Prese	ent		Yes							
Approved Installat	ion			Yes							
Mechanical Ventil	ation data Type			Database							
Туре			i	Mechanical extract ventilat	ion - decen	tralised					
- 71											
MV Reference Nu	mber			500776							



MVHR Du	ct Insulated	Uninsulated Ducts				
Manufactu	irer SFP	0.00				
Duct Type		Rigid				
MVHR Effi	iciency	0.00				
Wet Room	IS	4				
SFP from	Installer Commissioning Certificate	No				
19.1 Mechanical ex	ktract ventilation - Decentralised					
SFP 0.14 0.11 0.00 0.00 0.08 0.08 20.0 Fans, Open Fi	Fan/Room TypeCountIn Room Fan1Kitchen1In Room Fan Other3Wet Room1In Duct Fan Kitchen0In Duct Fan Other0Wet Room0Through Wall Fan0Kitchen0Through Wall Fan0Other Wet Room0					
21.0 Fixed Cooling	System	No				
22.0 Lighting No Fixed Lightin		No			_	
NO FIXed Lightin	ng	Name PL1 8.5 watt bayonet cap lamp PL1LED3K-BC GL-HEXHAM	Efficacy 90.00 99.00	Power 9 5	Capacity 810 495	Count 11 4
24.0 Main Heating	1	Database				
Percentage of H	leat	100.00			%	
Database Ref. N	No.	17929				
Fuel Type		Mains gas				
SAP Code		104				
In Winter		89.00				
In Summe	r	87.30				
Model Name		LOGIC COMBI				
Manufacturer		Ideal Boilers				
System Type		Combi boiler				
Controls SAP C	ode	2106				
PCDF Controls		0				
Delayed Start S	tat	No				
Burner Control		Modulating				
Boiler Compens	ator	200005			=	
HETAS approve	ed System	No			=	
Oil Pump Inside		No			=	
FI Case		0.00			=	
FI Water		0.00				
Flue Type		Balanced				
Smoke Control	Area	Unknown				
Fan Assisted Flu	ue	Yes				
Is MHS Pumped	1	Pump in heated spa	ace			
Heating Pump A		2013 or later				
Heat Emitter		Radiators			$\exists$	
Flow Temperatu	ire	Enter value				
Flow Temperatu		55.00				



	Ye	es								
Temperature	0.0	00								
pe	St	Standard Combi								
ot type	No	one								
12	No	one								
ks	Να	one								
Heat Source	Fuel Type Heating Use	Efficiency	Percentage Of Heat	Heat	Heat Power Ratio	Electrical	Fuel Factor	Efficiency type		
None		0.00	0.00	0.00	0.00	0.00				
None		0.00	0.00	0.00	0.00	0.00				
None		0.00	0.00	0.00	0.00	0.00				
None		0.00	0.00	0.00	0.00	0.00				
None		0.00	0.00	0.00	0.00	0.00				
	Temperature pe t type 2 ts Heat Source None None None None None None	Temperature 0. pe St t type No 2 No Ks None None None None None None None	Temperature 0.00 pe Standard Combi t type None 2 None Heat Source Fuel Type Heating Use Efficiency None 0.00 None 0.00 None 0.00 None 0.00	Temperature         0.00           pe         Standard Combi           t type         None           2         None           cs         None           Heat Source Fuel Type Heating Use Efficiency Percentage Of Heat           None         0.00         0.00           None         0.00         0.00	Temperature         0.00           pe         Standard Combi           t type         None           2         None           cs         None           Heat Source Fuel Type Heating Use Efficiency Percentage Of Heat Heat           None         0.00         0.00           None         0.00         0.00         0.00	Temperature         0.00           pe         Standard Combi           t type         None           2         None           ss           Heat Source Fuel Type Heating Use Efficiency Percentage Of Heat Heat Power Ratio           None         0.00         0.00         0.00           None         0.00         0.00         0.00         0.00           None         0.00         0.00         0.00         None           None         0.00         0.00         0.00         0.00           None         0.00         0.00         0.00         0.00           None         0.00         0.00         0.00         0.00           None         0.00         0.00         0.00         0.00	Temperature         0.00           pe         Standard Combi           t type         None           2         None           ss           Heat Source Fuel Type Heating Use Efficiency Percentage Of Heat         Heat Power Ratio           None         0.00         0.00         0.00         0.00           None         0.00         0.00         0.00         0.00         0.00	Temperature       0.00         pe       Standard Combi         t type       None         2       None         Iss         Mone         Iss         Mone         Iss         None         None         Iss         None         None         None         None       0.00       0.00       0.00       0.00         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 [l/min]	Rated Power [kW]	Connected	Connected To
Shower 1	Combi boiler or unvented hot water s		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 E	fficiency: 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 Photovoltaic Unit	One Dwelling				



Export Capab	le Meter?			Yes							
Connected To	Dwelling			Yes							
Diverter				No							
Battery Capac	ty [kWh]			0.00							
PV Cell	s kWp	Orientation	Elevation	Over	shading	FGHRS	MCS Certificate	Overs Facto	shading r	MCS Certificate Reference	Panel Manufacturer
0.80		South East	30°	None	e 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 elect	tricity meter		Yes							
Electricity Ger	neration			Annual							
Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	t Nov	Dec

Recommendations

Lower cost measures

None Further measures to achieve even higher standards None

#### **Predicted Energy Assessment**

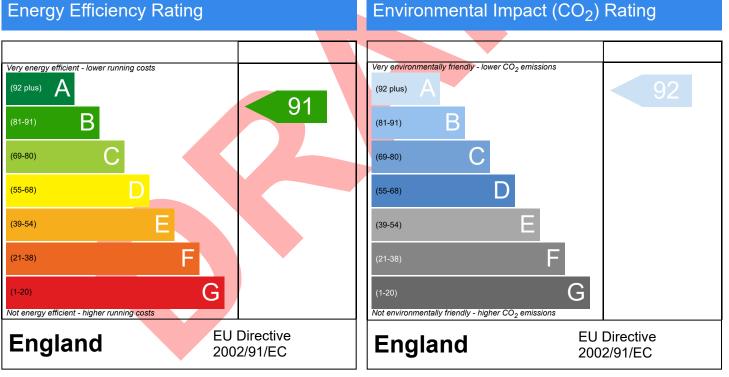


Plot, 3 Bed

Dwelling type: Date of assessment: Produced by: Total floor area: DRRN: House, Mid-Terrace 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 Refe	erence	4907-YO71-6328-1054 Issued on Date 18/							8/06/2024	
Assessment	Reference	1054 Ргор Туре				Type Ref	Mid-Terrace House			
Property	Plot, 3 Bed									
SAP Rating			91 B	DER	DER 9.05				10.40	
Environment	al		92 A % DER < TER					12.98		
CO <sub>2</sub> Emission	ns (t/year)		0.63	DFEE		27.11	TFEE		30.30	
Compliance (	Check		See BREL	% DFEE	< TFEE				10.50	
% DPER < TP	ER		10.17	DPER		48.66	TPER		54.17	
Assessor Det	tails Mr.	Sean Hunter					Asse	ssor ID	Y071-0001	
Client										
	Junction de	Junction details			Source Type		Length (m)	Result	Reference	
External wall	E2 Other lintels (including other steel lintels)			Independently assessed		0.025	10.03	0.25	E2-12826	
External wall	E3 Sill			Independe assesse	2	0.010	7.61	0.08	E3-12827	
External wall	E4 Jamb			Independe assesse	5	-0.050	23.70	-1.19	E4-12843	
External wall	E5 Ground fl	E5 Ground floor (normal)			ently ed	0.046	9.96	0.46	E5-12830 (Para)	
External wall	E6 Intermediate floor within a dwelling			Independe assesse	2	0.001	9.96	0.01	E6-12833	
External wall	E10 Eaves (i	10 Eaves (insulation at ceiling level)			efault)	0.120	9.97	1.20	E10 - Default - FF	
External wall	E18 Party wa	all between dwellings	Independe assesse		-0.008	19.68	-0.16	E18-12841		
Party wall		Party wall - Ground floor			Independently assessed		16.12	1.39	P1 - Briary Calc	
Party wall	P2 Party wall - Intermediate floor within a dwelling			Table K1 - Default 0.00		0.000	16.12	0.00	P2-Default	
Party wall	P4 Party wal level)	I - Roof (insulation at	ceiling	Independe assesse		0.021	16.12	0.34	P4-12842	

Total:	139.28	W/mK:
Y-Value:	0.00	W/m²K: