### **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 14:07:02

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

<b>Dwelling Details</b>			
Assessment Type	As designed	Total Floor Area	80 m <sup>2</sup>
Site Reference	4907-YO71-6328-1085	Plot Reference	1085
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 ra	to	
Fuel for main heating system	Mains gas	
Target carbon dioxide emission rate	11.44 kgCO <sub>2</sub> /m <sup>2</sup>	
Dwelling carbon dioxide emission rate	10.65 kgCO <sub>2</sub> /m <sup>2</sup>	OK
1b Target primary energy rate and dwelling primary energy		
Target primary energy	59.8 kWh <sub>PE</sub> /m <sup>2</sup>	
Dwelling primary energy	58.03 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/m²	
Dwelling fabric energy efficiency	32.2 kWh/m <sup>2</sup>	OK

2a Fabric U-values	2a Fabric U-values				
Element	Maximum permitted average U-Value [W/m²K]	Dwelling average U-Value [W/m²K]	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	

2b Envelope elements (better than typically expected values are flagged with a subsequent (!))		
Name	Net area [m <sup>2</sup> ]	U-Value [W/m <sup>2</sup> K]
Exposed wall: Walls (1)	75.2061	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 East	N/A	1.1 (!)
Front, Window	0.414	South East	1.0	1.3
Front, Window	1.3104	South East	1.0	1.3
Front, Window	1.3104	South East	1.0	1.3
Front, Window	1.4976	South East	1.0	1.3
Rear, Window	1.3104	North West	1.0	1.3
Rear, Window	1.092	North West	1.0	1.3
Rear, Window	1.4976	North West	1.0	1.3
Rear French, French Door	3.0933	North West	1.0	1.4

Od Thermal bridging (better then trainable synested values are flagged with a subsequent (IV)
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
i Dullullu Dall I <b>- Maili Dwellilu</b> . Tiletilai Diluullu Calculateu Holli lileai tiletilai transilittalices ioi each luilciion

Main element	Junction detail	Source	Psi value [W/mK]	Drawing / reference
External wall	E2: Other lintels (including other steel lintels)	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	0.02 (!)	E5-12831 (Perp)
External wall	E6: Intermediate floor within a dwelling	Calculated by person with suitable expertise	0.001 (!)	E6-12833
External wall	E10: Eaves (insulation at ceiling level)	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 dwellings	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 permeability (better than typically expected values are flagged with a subsequent (!))		
Maximum permitted air permeability at 50Pa	8 m³/hm²	
Dwelling air permeability at 50Pa	5.01 m <sup>3</sup> /hm <sup>2</sup> , Design value	OK
Air permeability test certificate reference		

4 Space heating		
Main heating system 1: Boiler with radia	ators or underfloor heating - Mains gas	
Efficiency	92.5%	
Emitter type	Radiators	
Flow temperature	55°C	
System type	Combi boiler	
Manufacturer	Ideal Boilers	
Model	LOGIC COMBI	
Commissioning		
Secondary heating system: N/A		
Fuel	N/A	
Efficiency	N/A	
Commissioning		

5 Hot water			
Cylinder/store - type: N/A			
Capacity	N/A		
Declared heat loss	N/A		
Primary pipework insulated	N/A		
Manufacturer			
Model			
Commissioning			
Waste water heat recovery system 1 -	Waste water heat recovery system 1 - type: Instantaneous		
Efficiency	69.8%		
Manufacturer	Q-Blue B.V.		
Model	QB1-21		

6 Controls							
Main heating 1 - type: Programmer, room	m thermostat, and TF	RVs					
Function							
Ecodesign class							
Manufacturer							
Model							
Water heating - type: N/A	'						
Manufacturer							
Model							
7 Lighting	75 1 (14)						
Minimum permitted light source efficacy	75 Im/W		01/				
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/(I/s)		ОК				
Minimum permitted heat recovery	N/A						
efficiency							
Heat recovery efficiency	N/A		N/A				
Manufacturer/Model	Lo-Carbon NBR dMEV C 100, 498095						
Commissioning							
9 Local generation							
Technology type: Photovoltaic system							
Peak power	0.8 kWp						
Orientation	North East						
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							
	enfirmation that the ac	entanta of this DDEL Compliance Depart					
		ontents of this BREL Compliance Report					
		nformation submitted for this dwelling for					
		and that the supporting documentary					
evidence (SAP Conventions, Appendi							
documentary evidence required) has	been reviewed in the	course of preparing this BREL					
Compliance Report.							
Signed:		Assessor ID:					
Name:		Date:					
b. Client Declaration							
N/A							



Property Reference	4907-	YO71-6328-1085						Issued	Issued on Date			18/06/2024		
Assessment Reference	1085				Prop <sup>*</sup>	Type F	Ref	Eveleigh	Eveleigh - Semi TF					
Property	Plot, 3	Bed												
SAP Rating			89 B	DER		10.6	5		ΓER	11	.44			
Environmental			91 B	% DER	< TER					6.				
CO <sub>2</sub> Emissions (t/year)			0.75	DFEE		32.2	1		TFEE		5.31			
Compliance Check			See BREL	% DFE	E < TFEE						78			
% DPER < TPER			2.96	DPER		58.0	3	1	TPER		9.80			
Assessor Details	Mr. Sean H	lunter							Assesso	r ID V	071-00	nn1		
Client	Wii. Ocaii i	iuntoi									37 1-00	70 1		
SUMMARY FOR INPUT	DATA FOI	R: New Build (	As Designed)											
Prientation			Southeast											
roperty Tenture			ND											
ransaction Type			6											
errain Type			Suburban											
.0 Property Type			House, End-Terrac	Δ										
Which Floor			0											
.0 Number of Storeys			2											
-			2019											
.0 Date Built			2019											
.0 Property Age Band			L											
.0 Sheltered Sides			2											
.0 Sunlight/Shade			Average or unknow	'n										
i.0 Thermal Mass Parameter			Precise calculation											
Thermal Mass			N/A					k	J/m²K					
.0 Electricity Tariff			Standard											
Smart electricity meter fitte	d		No											
Smart gas meter fitted			No											
7.0 Measurements				llast	Lana Davi			4aal Fla	A	A	. 04			
			Baseme	ent:	Loss Peri 0.00 m		ın	ternal Flo 0.00 n	n²	Average	0.00 ı			
			Ground flo 1st Sto		18.03 m 18.03 m			40.18 ا 40.18 ا			2.31 i			
			2nd Stor 3rd Stor	ey:	0.00 m 0.00 m			0.00 n 0.00 n	n²		0.00			
			4th Sto	ey:	0.00 m			0.00 n	n²		0.00 ı	m		
			5th Sto 6th Sto		0.00 m 0.00 m			0.00 n 0.00 n			0.00			
			7th Sto	ey:	0.00 m			0.00 n	n²		0.00	m		
3.0 Living Area			17.84					m	l <sup>2</sup>					
0.0 External Walls		•			.,	_			<u> </u>		_			
Description Ty  140mm TF Tin		Construction Timber framed wall	(one layer of placetons and	U-Value (W/m²K)	(kJ/m²K) Aı	rea(m²)	Nett Area (m²)	Res	Shelter None			Calculation Type Ilate Wall A		
	nber Frame	rimber tramed wall	(one layer of plasterboard)	0.22	9.00	88.71	75.21	0.00	ivone	13.50	Calcu	nate vvali A		
.1 Party Walls  Description	Туре	Constru	ction				U-Value	Карра	Area	Shelter	S	helter		
E-WT-2 (With a fully filled)	Filled Cav Edge Sea	ity with Double p	lasterboard on both s out sheathing board	ides, twin t	imber f ram			( <b>kJ/m²K)</b> 20.00		<b>Res</b> 0.00		None		
.2 Internal Walls Description		Construc	tion							Kai	ора	Area (r		
Timber GF		Plasterboa	ard on timber frame							( <b>kJ/i</b> 9.	<b>n²K)</b> 00	47.43		
Timber FF  0.0 External Roofs		Plasterboa	ard on timber frame							9.	UU	69.92		
v.v ∟Aterriar NUUIS														

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Plane Ceiling-500mm L Roll	oftExternal Plane Roof	Plasterbo	oard,	insulated at ceiling level	0.09	9.00 4		<b>m²)</b> 0.18	None	0.00	Calculate Wall Area	
10.2 Internal Ceilings  Description Internal Ceiling		Storey 1		<b>Construction</b> Other								e <b>a (m²)</b> 0.18
11.0 Heat Loss Floors  Description	Туре	Storey Inde	ex	Construction		U-Va		Shelt	er Code		helter Kapı	
FP McCann System	Ground Floor - Solid	Lowest occu	upied	Suspended concrete floor, car	peted	( <b>W</b> /n		Ν	lone		<b>actor (kJ/m</b> 0.00 75.0	
11.2 Internal Floors												
Description		Storey Index	Coi	nstruction							Kappa (kJ/m²K)	Area (m²
Internal Floor		mucx	Oth	er							12.60	40.18
12.0 Opening Types												
Description	Data Source	Type		Glazing		Glazing Gap	Filling Type	G-	-value	Frame Type	Frame Factor	U Value (W/m²K)
Solid Door	Manufacturer	Solid Do		D 11 1 50 6	0.05	Cap	None		0.00	Wood	0.70	` 1.10 <i>´</i>
Half Glaze Window	Manufacturer BFRC, BSI or	Half Glaz Window	zed D	oor Double Low-E Soft Double Low-E Soft			None None		0.71 0.47	Wood Wood	0.70 1.00	1.10 1.30
Window Type 2	CERTASS data Manufacturer	a Window		Double Low-E Soft	0.05		None		0.63	Wood	0.70	0.90
Window Type 3	Manufacturer	Window		Double Low-E Soft	0.05		None	(	0.71	Wood	0.70	1.30
French Door	BFRC, BSI or CERTASS data	Window a		Double Low-E Hard	10.2		None	(	0.40	Wood	1.00	1.40
French Door Type 2 Roof Window	Manufacturer Manufacturer	Window Roof Win	ndow	Double Low-E Soft Double Low-E Soft			None None		0.63 0.71	Wood Wood	0.70 0.70	1.50 1.80
Roof Window Type 2	Manufacturer	Roof Win		Double Low-E Soft			None		0.63	Wood	0.70	1.50
13.0 Openings												
Name Front	Opening Ty Solid Door	pe		Location 140mm TF			<b>tation</b> East		<b>Area</b> 1.9			<b>tch</b> 0
Front	Window			140mm TF		South	ı East		4.5	3		0
Rear Rear French	Window French Dooi	-		140mm TF 140mm TF			West West		3.9 3.0			0 0
14.0 Conservatory				None								
15.0 Draught Proofing				100					%			
16.0 Draught Lobby				No					70			
				INO								
17.0 Thermal Bridging				Calculate Bridges								
17.1 List of Bridges			0		141-	D-1	A	-l D6		_		1
Bridge Type E2 Other lintels (includi	ng other steel linte	ls)		urce Type ependently assessed	<b>Length</b> 10.03	<b>Psi</b> 0.03	Adjuste 0.03		12826	•		Imported No
E3 Sill E4 Jamb				ependently assessed ependently assessed	7.61 23.70	0.01 -0.05	0.01 -0.05		12827 12843			No No
E5 Ground floor (norma	al)			ependently assessed	8.06	0.05	0.05		12830 (	Para)		No
E5 Ground floor (norma E6 Intermediate floor wi				ependently assessed ependently assessed	9.97 18.03	0.02 0.00	0.02 0.00		12831 ( 12833	Perp)		No No
E10 Eaves (insulation a				le K1 - Default	8.06	0.12	0.12		) - Defa	ult - FF		No
E12 Gable (insulation a	t ceiling level)			ependently assessed	9.97	0.03	0.03		2-12897			No
E16 Corner (normal) E18 Party wall between	dwellinas			ependently assessed ependently assessed	9.84 9.84	-0.03 -0.01	-0.03 -0.01		S-12838 S-12841			No No
P1 Party wall - Ground	floor		Inde	ependently assessed	8.06	0.09	0.09	P1	- Briary	Calc		No
P2 Party wall - Intermed P4 Party wall - Roof (in				le K1 - Default ependently assessed	8.06 8.06	0.00 0.02	0.00 0.02		Default 12842			No No
Y-value	-	<u> </u>		0.00					W/m²K			
18.0 Pressure Testing				Yes				$\overline{}$				
Designed AP <sub>50</sub>				5.01				$\dashv$	m³/(h m	ı²) @ 50 F	Pa	
Property Tested?				Yes				=	/(11.11	, w 50 F	u .	
Test Method				Blower Door				$\dashv$				
As Built APso				15.00				=	m³//h m	ı²) @ 50 F	Da.	
				10.00					/(11.11	1 ) W 30 F	и 	
19.0 Mechanical Ventilation												
Mechanical Ventilation  Mechanical Ventil	<b>n</b> ation System Pres	ent		Yes								
	•	O. IL						$\dashv$				
Approved Installat				Yes				=				
Mechanical Ventil	ation data Type			Database								
Туре				Mechanical extract ventila	ation - decer	ntralised						
MV Reference Nu	ımber			500776								

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Configuration Uninsulated Ducts MVHR Duct Insulated 0.00 Manufacturer SFP **Duct Type** Rigid **MVHR** Efficiency 0.00 Wet Rooms 4 SFP from Installer Commissioning Certificate No 19.1 Mechanical extract ventilation - Decentralised Fan/Room Type Count In Room Fan Kitchen 0.11 In Room Fan Other 3 Wet Room 0.00 In Duct Fan Kitchen 0 In Duct Fan Other Wet Room Through Wall Fan 0.08 Kitchen Through Wall Fan Other Wet Room 0.08 20.0 Fans, Open Fireplaces, Flues No 21.0 Fixed Cooling System 22.0 Lighting No Fixed Lighting No Efficacy Power Capacity Count Name PL1 8.5 watt bayonet 90.00 cap lamp PL1LED3K-BC 99.00 5 4 **GL-HEXHAM** 495 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 87.30 In Summer Model Name LOGIC COMBI Manufacturer Ideal Boilers Combi boiler System Type 2106 Controls SAP Code 0 **PCDF Controls Delayed Start Stat Burner Control** Modulating 200005 **Boiler Compensator HETAS** approved System No No Oil Pump Inside FI Case 0.00 FI Water 0.00 Flue Type Balanced Unknown Smoke Control Area Fan Assisted Flue Is MHS Pumped Pump in heated space Heating Pump Age 2013 or later **Heat Emitter** Radiators

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Enter value

Flow Temperature



Flow Temperature Value	55.00	I
Boiler Interlock	Yes	
	0.00	
Electric CPSU Temperature	Standard Combi	
Combi boiler type	-	
Combi keep hot type	None	
25.0 Main Heating 2	None	
26.0 Heat Networks	None	
Heat Source Fuel Type Heating U		ctrical Fuel Factor Efficiency type
	Heat Power Ratio	
Heat source 1 None Heat source 2 None		.00 .00
Heat source 3 None	0.00 0.00 0.00 0.00 0	.00
Heat source 4 None Heat source 5 None		.00 .00
28.0 Water Heating	0.00 0.00 0.00 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	
		ı
28.1 Showers  Description  Shower Typ	Flow Rate Rated Power C	Connected Connected To
•	[l/min] [kW]	
	or unvented hot water system 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 Efficiency: 0 Utilisation factor: 0.973	
Dedicated Storage Volume	0	
29.0 Hot Water Cylinder	None	<u> </u>
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	
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32.0 Photovoltaic Unit			One Dwelling						
Export Capable Meter?			Yes						
Connected To Dwelling			Yes						
Diverter			No						
Battery Capacity [kWh]			0.00						
PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overs Factor	hading	MCS Certificate Reference	Panel Manufacturer
0.80	North East	45°	None Or Little	No	No	1.00		Reference	
34.0 Small-scale Hydro			None						
Electricity Generated			0.00						
Apportioned			0.00				kWh/Ye	ar	
Connected to dwelling's electric	city meter		Yes						
Electricity Generation			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

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### Predicted Energy Assessment



Plot, 3 Bed

Dwelling type:
Date of assessment:
Produced by:
Total floor area:
DRRN:

House, End-Terrace 18/06/2024 Sean Hunter 80.36 m<sup>2</sup>

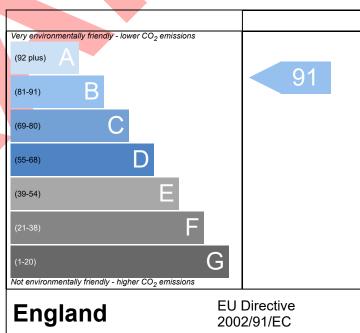
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance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

# Very energy efficient - lower running costs (92 plus) A (81-91) B (69-80) C (55-68) (1-20) F Not energy efficient - higher running costs England EU Directive 2002/91/EC

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.

### Environmental Impact (CO<sub>2</sub>) Rating



The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide (CO<sub>2</sub>) emissions. The higher the rating the less impact it has on the environment.

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# Thermal Bridging



Property Reference	4907-YO71-6328-1085		Issued on Date	18/06/2024				
Assessment Reference	1085		Pro	p Type Ref	End-Terrace House			
Property	Plot, 3 Bed							
SAP Rating		89 B	DER	10.65	TER	11.44		
Environmental		91 B	% DER < TER			6.91		
CO <sub>2</sub> Emissions (t/year)		0.75	DFEE	32.21	TFEE	35.31		
Compliance Check		See BREL	% DFEE < TFE	Ε		8.78		
% DPER < TPER		2.96	DPER	58.03	TPER	59.80		
Assessor Details	л. Sean Hunter				Assessor 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	10.03	0.25	E2-12826
External wall	E3 Sill	Independently assessed	0.010	7.61	0.08	E3-12827
External wall	E4 Jamb	Independently assessed	-0.050	23.70	-1.19	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 Intermediate floor within a dwelling	Independently assessed	0.001	18.03	0.02	E6-12833
External wall	E10 Eaves (insulation at ceiling level)	Table K1 - Default	0.120	8.06	0.97	E10 - Default - FF
External wall	E12 Gable (insulation at ceiling level)	Independently assessed	0.027	9.97	0.27	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 wall - Roof (insulation at ceiling level)	Independently assessed	0.021	8.06	0.17	P4-12842

Total: 139.29 W/mK: Y-Value: 0.00 W/m²K:

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