PREDICTED ENERGY ASSESSMENT



Plot 19, 9, School View, Askam in Furness, Cumbria, LA16 7FN Dwelling type: Date of assessment: Produced by: Total floor area:

Bungalow, Semi-Detached 09/08/2023 BREW Compliance Ltd 69.29 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 SAP2012 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 (CO_2) 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.

Environmental Impact (CO₂) Rating



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.

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Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.14r19

BUILDING REGULATION COMPLIANCE Calculation Type: New Build (As Designed)



Property Reference		Plot 19					Issued on Date	09/08/2023		
Assessment		As Built		Prop Type Ref Bungalow						
Reference										
Property		Plot 19, 9, School Vi	ew, Asl	kam in Furne	ss, Cumbria, LA	16 /FN				
SAP Rating				83 B	DER	18.96	5 TER	19.87		
Environmental				86 B	% DER <ter< td=""><td></td><td>4.59</td><td></td></ter<>		4.59			
CO ₂ Emissions (t/ye	ar)			1.23	DFEE	50.83	TFEE	55.06		
General Requireme	nts	Compliance		Pass	% DFEE <tfee< th=""><th></th><th>7.69</th><th></th></tfee<>		7.69			
Assessor Details		. Kieran Abadie, BRE ran@brewcompliand		•	Геl: 07943 063 9	981,	Assessor ID	AX84-0001		
Client	Mc	orsolve Limited, Mo	orsolve							
SUMARY FOR INPUT	DA	TA FOR New Build (/	As Desi	gned)						
Criterion 1 – Achievi	ng t	he TER and TFEE rat	e							
1a TER and DER										
Fuel for main hea	ating	5		Mains ga	is					
Fuel factor				1.00 (ma	ins gas)					
Target Carbon Di	oxid	e Emission Rate (TEF	R)	19.87			kgCO ₂ /m ²	2		
Dwelling Carbon	Dio>	kide Emission Rate (D	PER)	18.96	Pass					
				-0.91 (-4	.6%)		kgCO ₂ /m ²	2		
<u>1b TFEE and DFEE</u>										
Target Fabric Ene	rgy	Efficiency (TFEE)		55.06			kWh/m²/	yr		
Dwelling Fabric E	ner	gy Efficiency (DFEE)		50.83			kWh/m²/y			
				-4.3 (-7.8	3%)		kWh/m²/	yr Pass		
Criterion 2 – Limits c	on d	esign flexibility								
Limiting Fabric St	tand	lards								
2 Fabric U-values	5									
Element			Avera	ge		Highest				
External w	/all		0.20 (r	nax. 0.30)		0.20 (max. 0.	.70)	Pass		
Party wall			0.00 (r	nax. 0.20)		-		Pass		
Floor			0.12 (r	nax. 0.25)		0.12 (max. 0.	.70)	Pass		
Roof			0.11 (max. 0.20) 0.11 (max. 0.35)							
Openings	ings 1.43 (max. 2.00) 1.44 (max. 3.30)						Pass			
2a Thermal bridg	ing									
Thermal bridg	ging	calculated from line	ar therr	nal transmitt	ances for each	junction				
<u>3 Air permeabilit</u>	y									
Air permeabil	ity a	it 50 pascals		5.10 (des	sign value)		m³/(h.m²) @ 50	Ра		
Maximum				10.0			m³/(h.m²) @ 50	Pa Pass		
Limiting System I	Effic	iencies								
4 Heating efficier										
	-1									

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BUILDING REGULATION COMPLIANCE Calculation Type: New Build (As Designed)



Main heating system	Boiler system with radiators or Data from database Ideal LOGIC COMBI ESP1 30 Combi boiler Efficiency: 89.6% SEDBUK2009 Minimum: 88.0%	-	Pass
Secondary heating system	None		
5 Cylinder insulation			
Hot water storage	No cylinder		
<u>6 Controls</u>			
Space heating controls	Time and temperature zone co	ontrol	Pass
Hot water controls	No cylinder		
Boiler interlock	Yes		Pass
7 Low energy lights			
Percentage of fixed lights with low-energy fittings	100	%	
Minimum	75	%	Pass
8 Mechanical ventilation			
Summertime temperature			
riterion 3 – Limiting the effects of heat gains in su Summertime temperature Overheating risk (North West England) ased on: Overshading Windows facing North East Windows facing South East	Not significant Average 2.79 m ² , No overhang 0.73 m ² , No overhang		Pass
riterion 3 – Limiting the effects of heat gains in su Summertime temperature Overheating risk (North West England) ased on: Overshading Windows facing North East Windows facing South East Windows facing South West	Not significant Average 2.79 m ² , No overhang 0.73 m ² , No overhang 5.27 m ² , No overhang		Pass
riterion 3 – Limiting the effects of heat gains in su <u>Summertime temperature</u> Overheating risk (North West England) ased on: Overshading Windows facing North East Windows facing South East Windows facing South West Air change rate	Not significant Average 2.79 m², No overhang 0.73 m², No overhang 5.27 m², No overhang 8.00 ach		Pass
riterion 3 – Limiting the effects of heat gains in su <u>Summertime temperature</u> Overheating risk (North West England) ased on: Overshading Windows facing North East Windows facing South East Windows facing South West Air change rate Blinds/curtains	Not significant Average 2.79 m², No overhang 0.73 m², No overhang 5.27 m², No overhang 8.00 ach None		Pass
riterion 3 – Limiting the effects of heat gains in su <u>Summertime temperature</u> Overheating risk (North West England) ased on: Overshading Windows facing North East Windows facing South East Windows facing South West Air change rate Blinds/curtains riterion 4 – Building performance consistent with	Not significant Average 2.79 m², No overhang 0.73 m², No overhang 5.27 m², No overhang 8.00 ach None		Pass
riterion 3 – Limiting the effects of heat gains in su <u>Summertime temperature</u> Overheating risk (North West England) ased on: Overshading Windows facing North East Windows facing South East Windows facing South West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls	Not significant Average 2.79 m², No overhang 0.73 m², No overhang 5.27 m², No overhang 8.00 ach None DER and DFEE rate		Pass
riterion 3 – Limiting the effects of heat gains in su <u>Summertime temperature</u> Overheating risk (North West England) ased on: Overshading Windows facing North East Windows facing South East Windows facing South West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls Type	Not significant Average 2.79 m ² , No overhang 0.73 m ² , No overhang 5.27 m ² , No overhang 8.00 ach None DER and DFEE rate U-value		
riterion 3 – Limiting the effects of heat gains in su <u>Summertime temperature</u> Overheating risk (North West England) ased on: Overshading Windows facing North East Windows facing South East Windows facing South West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing	Not significant Average 2.79 m², No overhang 0.73 m², No overhang 5.27 m², No overhang 8.00 ach None DER and DFEE rate		Pass
riterion 3 – Limiting the effects of heat gains in su Summertime temperature Overheating risk (North West England) ased on: Overshading Windows facing North East Windows facing South East Windows facing South West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing	Not significant Average 2.79 m ² , No overhang 0.73 m ² , No overhang 5.27 m ² , No overhang 8.00 ach None DER and DFEE rate U-value		
riterion 3 – Limiting the effects of heat gains in su <u>Summertime temperature</u> Overheating risk (North West England) ased on: Overshading Windows facing North East Windows facing South East Windows facing South West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing	Not significant Average 2.79 m ² , No overhang 0.73 m ² , No overhang 5.27 m ² , No overhang 8.00 ach None DER and DFEE rate U-value	W/m²K	Pass
riterion 3 – Limiting the effects of heat gains in su <u>Summertime temperature</u> Overheating risk (North West England) ased on: Overshading Windows facing North East Windows facing South East Windows facing South West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing <u>Air permeability and pressure testing</u> <u>3 Air permeability</u>	Not significant Average 2.79 m ² , No overhang 0.73 m ² , No overhang 5.27 m ² , No overhang 8.00 ach None DER and DFEE rate U-value 0.00	m³/(h.m²) @ 5	
riterion 3 – Limiting the effects of heat gains in su Summertime temperature Overheating risk (North West England) ased on: Overshading Windows facing North East Windows facing South East Windows facing South West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum	Not significant Average 2.79 m², No overhang 0.73 m², No overhang 5.27 m², No overhang 8.00 ach None DER and DFEE rate U-value 0.00 5.10 (design value)		
riterion 3 – Limiting the effects of heat gains in su Summertime temperature Overheating risk (North West England) ased on: Overshading Windows facing North East Windows facing South East Windows facing South West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum 0 Key features	Not significantAverage2.79 m², No overhang0.73 m², No overhang5.27 m², No overhang8.00 achNoneDER and DFEE rateU-value0.005.10 (design value)10.0	m³/(h.m²) @ 5 m³/(h.m²) @ 5	
riterion 3 – Limiting the effects of heat gains in su Summertime temperature Overheating risk (North West England) ased on: Overshading Windows facing North East Windows facing South East Windows facing South West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals	Not significant Average 2.79 m², No overhang 0.73 m², No overhang 5.27 m², No overhang 8.00 ach None DER and DFEE rate U-value 0.00 5.10 (design value)	m³/(h.m²) @ 5	

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THERMAL BRIDGING Calculation Type: New Build (As Designed)



Property Reference	e Plot 19	Plot 19				09/08/2023			
Assessment	As Built		Pro	op Type Ref	Type Ref Bungalow				
Reference									
Property	Plot 19, 9, School View, A	skam in Furne	ss, Cumbria, LA16	7FN					
CAD Doting		02.0	DED	10.00	TED	19.87			
SAP Rating		83 B	DER	18.96	18.96 TER				
Environmental		86 B	% DER <ter< th=""><th colspan="3">4.59</th></ter<>	4.59					
CO ₂ Emissions (t/ye	ear)	1.23	DFEE	50.83	50.83 TFEE				
General Requireme	ents Compliance	Pass	% DFEE <tfee< th=""><th colspan="4">7.69</th></tfee<>	7.69					
Assessor Details	Mr. Kieran Abadie, BREW Cor	Ir. Kieran Abadie, BREW Compliance Ltd, Tel: 07943 063 981, Assessor ID AX84-0001							
	kieran@brewcompliance.co.u	ieran@brewcompliance.co.uk							
Client	Moorsolve Limited, Moorsolv	oorsolve Limited, Moorsolve							

	Junction detail	Source Type	Psi (W/mK)	Length (m)	Result	Reference
External wall	E2 Other lintels (including other steel lintels)	Table K1 - Approved	0.300	7.14	2.14	
External wall	E3 Sill	Table K1 - Approved	0.040	4.35	0.17	
External wall	E4 Jamb	Table K1 - Approved	0.050	17.52	0.88	
External wall	E5 Ground floor (normal)	Table K1 - Approved	0.160	25.79	4.13	
External wall	E10 Eaves (insulation at ceiling level)	Table K1 - Approved	0.060	14.40	0.86	
External wall	E12 Gable (insulation at ceiling level)	Table K1 - Approved	0.240	19.96	4.79	
External wall	E16 Corner (normal)	Table K1 - Approved	0.090	7.20	0.65	
External wall	E17 Corner (inverted – internal area greater than external area)	Table K1 - Approved	-0.090	2.40	-0.22	
External wall	E18 Party wall between dwellings	Table K1 - Approved	0.060	4.80	0.29	
Party wall	P1 Party wall - Ground floor	Table K1 - Default	0.160	8.57	1.37	
Party wall	P4 Party wall - Roof (insulation at ceiling level)	Table K1 - Default	0.240	8.57	2.06	

Total:	17.12	W/mK:
Y-Value:	0.085	W/m²K:



	/IPLIANCE R n Type: Nev	_	_	igned)		Design S elmhurst en	
Property Reference	Plot 19				Issu	ed on Date	09/08/2023
Assessment	As Built			Prop	Type Ref Bung	galow	
Reference		1.1.2					
Property	Plot 19, 9, Schoo	ol View, Askar	n in Furness, (Cumbria, LA16 7	FN		
SAP Rating			83 B D	ER	18.96	TER	19.87
Environmental				DER <ter< td=""><td></td><td>4.59</td><td>-</td></ter<>		4.59	-
CO ₂ Emissions (t/yea				FEE	50.83	TFEE	55.06
General Requirement	nts Compliance		Pass %	DFEE <tfee< td=""><td></td><td>7.69</td><td></td></tfee<>		7.69	
Client	Mr. Kieran Abadie, E kieran@brewcompl Moorsolve Limited,	iance.co.uk Moorsolve		07943 063 981,		Assessor ID	AX84-0001
SUMARY FOR INPUT	DATA FOR New Buil	d (As Designe	ed)				
Criterion 1 – Achievi	ng the TER and TFEE	rate					
<u>1a TER and DER</u>							
Fuel for main hea	ting		Mains gas				
Fuel factor			1.00 (mains				
Target Carbon Dic	oxide Emission Rate (TER)	19.87		kgCO ₂ /m ²		
Dwelling Carbon I	Dioxide Emission Rat	e (DER)	18.96			kgCO₂/m²	Pass
			-0.91 (-4.6%))		kgCO ₂ /m ²	
<u>1b TFEE and DFEE</u>							
0	rgy Efficiency (TFEE)	-)	55.06		kWh/m²/yr		
Dwelling Fabric Er	nergy Efficiency (DFE	E)	50.83			kWh/m²/yr	
			-4.3 (-7.8%)			kWh/m²/yr	Pass
Criterion 2 – Limits o	-						
Limiting Fabric St							
2 Fabric U-values							
Element		Average		High			
External w	all	0.20 (max) (max. 0.70)		Pass
Party wall		0.00 (max		-	(120.01)		Pass
Floor Roof			max. 0.25) 0.12 (max. 0.70) max. 0.20) 0.11 (max. 0.35)				Pass
		0.11 (max 1.43 (max			(max. 0.35) (max. 3.30)		Pass
Openings 2a Thermal bridg	ing	т.45 (IIId)	n. 2.00j	1.44	r (1107. 3.30)		Pass
-				aa fax aa ah iyoo d	L'an		
_	ing calculated from I	mear therma	Transmittanc	es for each junc	LIUTI		
<u>3 Air permeability</u>			F 10/-1				
-	ty at 50 pascals		5.10 (design	value)			
Maximum			10.0				Pass
Limiting System E							



BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Designed)



Main heating system	Boiler system with radiators or underfloor - Data from database Ideal LOGIC COMBI ESP1 30 Combi boiler Efficiency: 89.6% SEDBUK2009 Minimum: 88.0%	Mains gas	Pass
Secondary heating system	None		
5 Cylinder insulation			
Hot water storage	No cylinder		
6 Controls	L		
Space heating controls	Time and temperature zone control		Pass
Hot water controls	No cylinder		
Boiler interlock	Yes		Pass
7 Low energy lights			
Percentage of fixed lights with low-energy fittings	100	%	
Minimum	75	%	Pass
8 Mechanical ventilation			
Not applicable			
Criterion 3 – Limiting the effects of heat gains in su	mmer		
9 Summertime temperature			
Overheating risk (North West England)	Not significant		Pass
Based on:			
Overshading	Average		
Windows facing North East	2.79 m ² , No overhang		7
Windows facing South East	0.73 m ² , No overhang		
Windows facing South West	5.27 m ² , No overhang		
Air change rate	8.00 ach		
Blinds/curtains	None		
Criterion 4 – Building performance consistent with	DER and DFEE rate		
Party Walls			
Туре	U-value		
Filled Cavity with Edge Sealing	0.00	W/m²K	Pass
Air permeability and pressure testing <u>3 Air permeability</u>			
	E 10 (decige value)		٦
Air permeability at 50 pascals Maximum	5.10 (design value) 10.0		Pass
	10.0		Pass
10 Key features	0.00	\//m ² /	
Party wall U-value Roof U-value	0.00	W/m²K W/m²K	
Floor U-value	0.11	W/m ⁻ K	
	0.12	VV/III N	

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SUMMARY FOR INPUT DATA Calculation Type: New Build (As Designed)

Design SAP elmhurst energy

Property Reference	Plot 19						Iss	ued on Date	09/08/202	3
Assessment	As Built	As Built					Bun	galow		
Reference										
Property Plot 19, 9, School View, Askam in Furness, Cumbria, LA16 7FN										
SAP Rating			83 B	DER		18.96		TER	19.87	
Environmental			86 B	% DER <ter< th=""><th></th><th></th><th></th><th>4.59</th><th></th><th></th></ter<>				4.59		
CO₂ Emissions (t/yea	r)		1.23	DFEE		50.83		TFEE	55.06	
General Requirement	ts Compliance		Pass	% DFEE <tfe< th=""><th>E</th><th></th><th></th><th>7.69</th><th></th><th></th></tfe<>	E			7.69		
	/Ir. Kieran Abao			Tel: 07943 063	981,			Assessor ID	AX84-0001	1
	ieran@brewco									
Client	Aoorsolve Limi	ted, Moorsol	ve							
SUMMARY FOR INPUT	DATA FOR: N	ew Build (As	Designed)							
Orientation		North East								
Property Tenure		Owner-occup	pied							
Transaction Type		New dwelling	7							
Terrain Type		Suburban								
1.0 Property Type		Bungalow, Se	emi-Detached							
2.0 Number of Storeys		1								
3.0 Date Built		2023								
4.0 Sheltered Sides		2								
5.0 Sunlight/Shade		Average or u	nknown							
6.0 Measurements										
		Gr	ا ound Floor:	leat Loss Perime 25.79 m	eter	Internal	Floor 29 m²		erage Storey Heig 2.40 m	;ht
				25.79111		09.	29 111		2.40 111	
7.0 Living Area		17.55			m²					
8.0 Thermal Mass Param	leter	Simple calcul	le calculation - Low							
Thermal Mass		100.00			kJ/m	1²K				
9.0 External Walls										
Description	Туре							Gross Area		
External Wall	Timber Fra	mo					.20	(m²) 61.91	(m²) 51.06	
						0	.20	01.91	51.00	
9.1 Party Walls	-	6							A	
Description	Туре	Cons	truction					U-Value (W/m²K)	Area (m²)	
Party Wall	Filled Cavit	ty with						0.00	20.56	
	Edge Seali	ng								
10.0 External Roofs										
Description	Туре						/alue /m²K)	Gross Area	Nett Area	
External Roof	(W/m²K) (m²) (m² External Plane Roof 0.11 69.29 69.2					69.29				
11.0 Heat Loss Floors										
Description	Туре	Cons	truction					U-Value	Area	
	a							(W/m²K)	(m²)	
Ground Floor	Ground Eld	oor - Solid						0.12	69.29	

12.0 Opening Types



SUMMARY FOR INPUT DATA Calculation Type: New Build (As Designed)



Description	Data Source	Туре	Glazing		Glazing Gap	Argon Filled			rame Type	Frame Factor	U Value (W/m²K
Glazing	Manufacture	e Window	Double Low-E	Soft 0.05			0.63		11.2	0.70	1.44
Doors	r Manufacture	e Solid Door					2.00				
	r		De la la	دمد م							1.40
1/2 Doors	Manufacture r	e Half Glazed Doc	or Double Low-E	soπt 0.05			0.63			0.70	1.40
L3.0 Openings									-		
Name	Opening Type	Location	Orientation	Curtain Type	Overhang Ratio	Wide Overhan		Height (m)	Count	Area (m²)	Curtain Closed
Front	Window	[1] External Wall	North East	None	0.00	e : e	5 ()	(,		2.79	0.0000
Rear	Window	[1] External Wall	South West	None	0.00					5.27	
Entrance	Solid Door	[1] External Wall	North East							2.06	
Side	Window	[1] External Wall	South East	None	0.00					0.73	
4.0 Conservatory		None									
15.0 Draught Proof	fing	100				%					
L6.0 Draught Lobb	У	No									
17.0 Thermal Bridg	ing	Calculate	Bridges								
17.0 Thermar Bridges	-	Carculate	5.10503								
Source Type	Bridge	туре			Length	Psi	Imported				
Table K1 - Approv	ved E2 Oth	ner lintels (includin	g other steel lintels	s)	7.14	0.300	No				
Table K1 - Approv	ved E3 Sill				4.35	0.040	No				
Table K1 - Approv					17.52	0.050	No				
Table K1 - Approv		ound floor (normal	,		25.79	0.160	No				
Table K1 - Approv Table K1 - Approv		aves (insulation at a ble (insulation at			14.40 19.96	0.060 0.240	No No				
Table K1 - Approv		orner (normal)	centrig level)		7.20	0.240	No				
Table K1 - Approv		, ,	nternal area greate	r than		-0.090	No				
	extern	al area)	-		4.90	0.060	No				
Table K1 - Approv Table K1 - Defaul		arty wall between ty wall - Ground fl	-		4.80 8.57	0.060 0.160	No No				
Table K1 - Defaul		,	oor Ilation at ceiling lev	vel)	8.57 8.57	0.160	No				
Y-value		0.085				W/m²K					
L8.0 Pressure Testi	ing	Yes									
Designed AP₅o	5	5.10				m³/(h.m²	²) @ 50 Pa				
Property Tester	d ?	0.10				,	,				
As Built AP ₅₀						m³/(h.m²	²) @ 50 Pa				
L9.0 Mechanical V	antilation	<u> </u>				/ (,				
Summer Overh											
	pen in hot weathe	er Wind	ows fully open								
	lation possible	Yes				=					
Night Venti		No				=					
Air change		8.00									
Mechanical Ve		0.00				1					
	/entilation System P	resent No									
20.0 Fans, Open Fi	replaces, Flues	MHS	SHS		Other	Total					
Number of Chir	nnevs	0	5115		0	0					
Number of ope		0			0	0					
Number of inte	rmittent fans					2					



SUMMARY FOR INPUT DATA Calculation Type: New Build (As Designed)



Number of flueless gas fires		0
21.0 Fixed Cooling System	No	
22.0 Lighting		
Internal		
Total number of light fittings	10	
Total number of L.E.L. fittings	10	
Percentage of L.E.L. fittings	100.00	%
External		
External lights fitted	No	
23.0 Electricity Tariff	Standard	
24.0 Main Heating 1	Database	
Description	Combination Boiler	
Percentage of Heat	100	%
Database Ref. No.	17956	
Fuel Type	Mains gas	
Main Heating	BGW	
SAP Code	104	
In Winter	90.5	
In Summer	87.3	
Controls	CBI Time and temperature zone control	
PCDF Controls	0	
Delayed Start Stat	No	
Sap Code	2110	
Flue Type	Balanced	
Fan Assisted Flue	Yes	
Is MHS Pumped	Pump in heated space	
Heat Emitter	Radiators	
Flow Temperature	Normal (> 45°C)	
Combi boiler type	Standard Combi	
Combi keep hot type	None	
25.0 Main Heating 2	None	

Community Heating	None
28.0 Water Heating	HWP From main heating 1
Water Heating	Main Heating 1
Flue Gas Heat Recovery System	No
Waste Water Heat Recovery	No
Instantaneous System 1	
Waste Water Heat Recovery	No
Instantaneous System 2	
Waste Water Heat Recovery	No
Storage System	
Solar Panel	No
Water use <= 125 litres/person/day	Yes
SAP Code	901





29.0 Hot Water Cylinder

None

Recommendations

Lower cost measures

None

Further measures to achieve even higher standards

	Typical Cost	Typical savings per year	Ratings after improvement	
			SAP rating	Environmental Impact
Solar water heating	£4,000 - £6,000	£76	B 84	
	Typical Cost	Typical savings	Ratings after improvement	
		per year	SAP rating	Environmental Impact
Solar photovoltaic panels, 2.5 kWp	£3,500 - £5,500	£679	A 96	

