

kJ/m²K

Property Reference	5832 Plot 01		Issued on Date	19/04/2023		
Assessment Reference	As Designed (Timber F	Frame)		Prop Type Ref		
Property	IP9 1DW					
SAP Rating		83 B	DER	3.98	TER	8.74
Environmental		96 A	% DER < 1	ſER		54.46
CO ₂ Emissions (t/year)		0.35	DFEE	42.82	TFEE	43.35
Compliance Check	See BREL	% DFEE <	TFEE		1.22	
% DPER < TPER	11.14	DPER	41.84	TPER	47.09	
Assessor Details	Mr. Mark Roberts				Assessor ID	P471-0001
Client						
SUMMARY FOR INPUT	DATA FOR: New Build	(As Designed)				
Drientation		South				
roperty Tenture		ND				
Fransaction Type		6				
Terrain Type		Suburban				
.0 Property Type	Bungalow, Detache	ed				
Which Floor		0				

2023

Average or unknown
Precise calculation

2

N/A

Yes

Standard Yes

Smart gas meter fitted

3.0 Date Built 4.0 Sheltered Sides

5.0 Sunlight/Shade

Thermal Mass

7.0 Electricity Tariff

6.0 Thermal Mass Parameter

Smart electricity meter fitted

7.0 Measurements													
			Basement		t Loss P 0.00		er In		Floor Are 0 m²	ea A		• Stor 0.00 r	ey Heigh
			Ground floor:		44.48				98 m²			2.35 r	
			1st Storey:		0.00				0 m²			0.001	
			2nd Storey:		0.00				0 m²			1 00.0	n
			3rd Storey:		0.00				0 m²			1 00.0	
			4th Storey:		0.00				0 m²			1 00.0	
			5th Storey:		0.00 0.00				0 m² 0 m²			1 00.0 1 00.0	
			6th Storey: 7th Storey:		0.00				0 m²			1 00.0	
8.0 Living Area			18.99						m²				
9.0 External Walls													
Description	Туре	Construction		U-Value (W/m ² K)		Gross Area(m ²	Nett Area (m²)	Shelter Res	Shel	ter	Opening	s Area	Calculatio
Timber Frame Brickwork			one layer of plasterboard)	`0.15 <i>´</i>	9.00	60.70	35.84	0.00	Nor		24.86		r Gross Are
Timber Frame Boarded Timber Frame Plinth			one layer of plasterboard) one layer of plasterboard)	0.15 0.15	9.00 9.00	11.14 16.39	9.05 16.39	0.00 0.00	Nor Nor		2.09 0.00		r Gross Are r Gross Are
Garage Wall Sheltered			one layer of plasterboard)	0.15	9.00	10.09	10.09	0.00	Nor		0.00		r Gross Are
9.2 Internal Walls													
Description		Construct	ion								Kaj (kJ/i		Area (m
GF Timber Frame		Plasterboa	rd on timber frame								9.		158.23
10.0 External Roofs													
Description	Туре	Construction			Value I //m²K)(k		Gross Area(m²)	Nett Area (m²)	Shelter Code			ulation /pe	Opening
Flat Ceiling	External Plane Roof	e Plasterboard,	insulated at ceiling leve	I	0.11	9.00	92.98	0.00	None	0.00		Gross rea	s 0.00
11.0 Heat Loss Floors													
Description	Туре	Storey Index	Construction			-	-Value V/m²K)	She	elter Code		Shelter Factor	Kapp (kJ/m ²	oa Area(n ²K)



	nd Floor - Solic	LOWEST OCCU	pied	Suspended concrete floor, car	pelea	0.1	12	None	0	.00 75.0	92.98
2.0 Opening Types Description Da	ta Source	Туре		Glazing		Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
	anufacturer anufacturer	Window Solid Doo	r	Double Low-E Soft	0.05		Air Filled Air Filled		Wood Wood	0.70 0.70	1.20 1.20
3.0 Openings											
S Window Boarded S Window Brickwork S Door Brickwork W Window Brickwork N Window Brickwork	Opening Ty Window Window Door Window Window Window	/pe		Location Timber Frame Boarded Timber Frame Brickwork Timber Frame Brickwork Timber Frame Brickwork Timber Frame Brickwork		Orien So So So No Ea	uth uth uth est rth	Area 2.0 2.9 1.9 2.7 12.4 4.8	9 2 1 5 46		tch 0 0 0 0 0 0 0
4.0 Conservatory				None							
15.0 Draught Proofing				100				%			
16.0 Draught Lobby				No							
17.0 Thermal Bridging				Calculate Bridges							
17.1 List of Bridges											
Bridge Type E2 Other lintels (including oth E3 Sill E4 Jamb E5 Ground floor (normal) E10 Eaves (insulation at ceilin E12 Gable (insulation at ceilin E13 Gable (insulation at rafte E16 Corner (normal) E17 Corner (inverted – internation external area) E11 Eaves (insulation at rafte	ng level) ng level) r level) al area grea	,	Inde Inde Inde Inde Inde Inde Inde	rce Type pendently assessed pendently assessed pendently assessed pendently assessed pendently assessed pendently assessed pendently assessed pendently assessed pendently assessed pendently assessed	Length 15.59 14.69 35.12 44.48 12.92 22.51 5.42 12.76 10.84 4.05	Psi 0.17 0.03 0.04 0.14 0.07 0.06 0.05 -0.01 0.05	Adjusted 0.17 0.03 0.04 0.14 0.07 0.07 0.06 0.05 -0.01 0.05	I Reference TRADA Tir TRADA Tir TRADA Tir TRADA Tir TRADA Tir TRADA Tir TRADA Tir NHBC Tim TRADA Tir TRADA Tir	nber Fram nber Fram nber Fram nber Fram nber Fram nber Fram ber Frame nber Fram	e Details e Details e Details e Details e Details e Details e Details e Guide e Details	Imported Yes Yes Yes No No No No No
Y-value				0.05				W/m²K			
18.0 Pressure Testing				Yes							
Designed AP50				4.00				m³/(h.n	n²) @ 50 P	а	
Property Tested?				Yes							
Test Method				Blower Door							
As Built AP 50				0.10				m³/(h.n	n²) @ 50 P	a	
19.0 Mechanical Ventilation											
Mechanical Ventilation											
Mechanical Ventilation S	System Pres	sent		Yes							
Approved Installation				Yes							
Mechanical Ventilation of	data Type			Database							
Туре				Mechanical extract ventila	ation - decen	tralised					
MV Reference Number				500769							
Duct Type				Rigid							
MVHR Efficiency				0.00							
Wet Rooms				3							
SFP from Installer Com	missioning (Certificate		No							
Installation Engineer				TBC							
Commissioning Certifica	ate			ТВС							
19.1 Mechanical extract ventila	tion - Dece	ntralised									
SFP Fan/Roo 0.15 In Room Kitchen	om Type	Count 0									

SFP	Fan/Room Type	Cour
0.15	In Room Fan	0
	Kitchen	
0.11	In Room Fan Other	0
	Wet Room	
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other	0
	Wet Room	
0.11	Through Wall Fan	0
	Kitchen	
0.09	Through Wall Fan	4
	Other Wet Room	



20.0 Fans, Open Fireplaces, Flues

21.0 Fixed Cooling System	No			
22.0 Lighting				
No Fixed Lighting	No			
	NameEfficacLighting 190.00	y Power 7	Capacity 630	Count 25
24.0 Main Heating 1	Database			
Percentage of Heat	100.00		%	
Database Ref. No.	104368			
Fuel Type	Electricity			
SAP Code	0		_	
In Winter	0.00		_	
In Summer	0.00		7	
Model Name	AE080RXYDEG		7	
Manufacturer	Samsung Electronics Air Cond	itioner Europe B.V.	7	
System Type	Heat Pump	•	\exists	
Controls SAP Code	2210			
Delayed Start Stat	No			
HETAS approved System	No		=	
Oil Pump Inside	No			
FI Case	0.00			
Flue Type	None or Unknown			
Fan Assisted Flue	No			
Is MHS Pumped	Pump in heated space			
Heating Pump Age	2013 or later			
Heat Emitter	Underfloor			
Underfloor Heating	Yes - Pipes in thin screed			
Flow Temperature	Enter value			
Flow Temperature Value	45.00			
Boiler Interlock	No			
25.0 Main Heating 2	None			
26.0 Heat Networks	None			
Heat Source Fuel Type Heating U	e Efficiency Percentage (Heat	Df Heat E Power Ratio	lectrical Fuel Factor	Efficiency type
Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None Heat source 5 None				
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	No			
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
Supplementary Immersion	No
Immersion Only Heating Hot Water	No

28.1 Showers											
Description			Shower Ty	ype			w Rate /min]	Rated Power [kW]	Connected	Connected To	
Ensuite			Instantane	ous electric s	shower	Γ.	1	9.30	No		
28.3 Waste Wat	er Heat Reco	overy System									
29.0 Hot Water	Cylinder			Hot Wate	er Cylinder						
Cylinder Stat	:			Yes							
Cylinder In H	leated Space			Yes							
Independent	Time Control			Yes							
Insulation Ty	ре			Measure	d Loss						
Cylinder Volu	ıme			150.00					L		
Loss				1.50					kWh/day		
Pipes insulat	ion			Fully insu	ulated primar	y pipework					
In Airing Cup	board			No							
31.0 Thermal St	ore			None							
34.0 Small-scal	e Hydro			None							
Electricity Ge	enerated			0.00							
Apportioned				0.00					kWh/Yea	r	
Connected to	o dwelling's e	lectricity meter		Yes							
Electricity Ge	eneration			Annual							
Jan	Feb	Mar	Apr	Мау	Jun	Jul	Au	g Sep	Oct	Nov	Dec

Recommendations

Lower cost measures None

Further measures to achieve even higher standards

None