

Property Reference	5832 Pl	5832 Plot 12 Iss						ไรรเ	ued on D	ate	19/04/20	23	
Assessment Reference	As Desi	As Designed Prop Type Ref											
Property													
SAP Rating		81	В	DER		3.6	7		TER		9.53		
Environmental		96	A	% DER •	< TER						61.49		
CO ₂ Emissions (t/year)		0.6	62	DFEE		42.4	18		TFEE		42.80		
Compliance Check		Se	e BREL	% DFEE	< TFEE						0.74		
% DPER < TPER		23	.54	DPER		38.2	25		TPER		50.03		
Assessor Details	Mr. Mark Rol	perts							Asses	sor ID	P471	-0001	
Client													
SUMMARY FOR INP	UT DATA FOR	: New Build (As	Designed)										
Orientation		No	orth										
Property Tenture		NE											
Transaction Type		6											
Terrain Type			Iburban										
1.0 Property Type		Ho	ouse, Detached										
Which Floor		0											
2.0 Number of Storeys		2											
3.0 Date Built		20	23										
4.0 Sheltered Sides		0	0										
5.0 Sunlight/Shade			Average or unknown										
6.0 Thermal Mass Parameter			Precise calculation										
Thermal Mass			A						kJ/m²K				
7.0 Electricity Tariff		Sta	andard										
Smart electricity meter fitted			s										
Smart gas meter fitted		Ye	s										
7.0 Measurements			Basement Ground floor 1st Storey 2nd Storey 3rd Storey 4th Storey 5th Storey 6th Storey 7th Storey		0.00 m 44.51 m 53.32 m 0.00 m 0.00 m 0.00 m 0.00 m 0.00 m 0.00 m	1	er Int	0.0 85.7 94.7 0.0 0.0 0.0 0.0 0.0	Floor Are 0 m ² 70 m ² 76 m ² 0 m ² 0 m ² 0 m ² 0 m ² 0 m ² 0 m ²	ea A	2.3 2.6 0.0 0.0 0.0 0.0 0.0	orey 0 m 5 m 4 m 0 m 0 m 0 m 0 m 0 m	Height
8.0 Living Area		85	.70						m²				
9.0 External Walls Description Brickwork Boarded Plinth Democr	Timber Frame Timber Frame Timber Frame	Construction Fimber framed wall (one la Fimber framed wall (one la Fimber framed wall (one la	ayer of plasterboard) ayer of plasterboard)	U-Value (W/m²K) (0.15 0.15 0.15	kJ/m²K) A 9.00 9.00 9.00 9.00	140.05 33.56 18.54	Area (m²) 110.64 27.72 18.54	Shelter Res 0.00 0.00 0.00	Shel Nor Nor Nor	ne ne	5.84 E 0.00 E	Ty nter Gr nter Gr nter Gr	pe oss Area oss Area oss Area
9.2 Internal Walls	Timber Frame	Fimber framed wall (one la	ayer or plasterboard)	0.18	9.00	7.35	5.70	0.00	Nor	10	1.65 E	nter Gr	oss Area
Description		Construction									Kappa (kJ/m²k		ea (m²)
GF FF		Plasterboard o Plasterboard o									9.00 9.00	໌ 1	01.07 60.78
10.0 External Roofs Description	Туре	Construction			alue Ka m²K)(kJ/		Gross Area(m²)	Nett Area (m²)		Shelte Facto	er Calculat r Type	ionOp	pening
Sloped	External Slope	Plasterboard, insu	lated slope	0.	15 9	.00	30.42	0.00	None	0.00	Enter Gr	oss	0.00
Ceiling	Roof External Plane Roof	Plasterboard, insu	lated at ceiling leve	el 0.	11 9	.00	60.12	0.00	None	0.00	Area Enter Gr Area	oss	0.00



Flat	External Flat Roof	Plasterbo	ard, ir	sulated flat roof	0.15	9.00	4.22 0.	00 None	0.00	Enter Gros Area	ss 0.00
10.2 Internal Ceilings Description Internal Ceiling 1		Storey ₋owest occu	ıpied	Construction Plasterboard ceiling,	carpeted chipt	ooard floo	r				ea (m²) 35.70
11.0 Heat Loss Floors	_	.		• • •							• • • •
Description Beam & Block	Type Ground Floor - Soli	Storey Inde		Construction Suspended concrete floor, o	arneted	(W/r	alue m² K) 12	Shelter Code	F	helter Kap actor (kJ/r 0.00 75.	
Garage	Exposed Floor - Timber	+1	picu	Timber exposed floor, insula			17	None		0.00 20.	
11.2 Internal Floors Description FF		Storey Index		struction	ad abiabaard f	00F				Kappa (kJ/m²K 9.00	
			Plas	terboard ceiling, carpete		001				9.00	85.70
2.0 Opening Types Description	Data Source	Туре		Glazing		Glazing	Filling	G-value	Frame	Frame	U Value
Window	Manufacturer	Window		Double Low-E Sc	oft 0.05	Gap	Type Air Filled	0.63	Type Wood	Factor 0.70	(W/m²K) 1.20
Door Half Glazed Door	Manufacturer Manufacturer	Solid Doo Half Glaz					Air Filleo Air Filleo	0.00	Wood Wood	0.70 0.70	1.20 1.20
3.0 Openings							7 11 1 1100	0.00	moou	0.10	1.20
Name E Win Brick E Door Brick E Win Boarded E Win Dormer S Win Brick S HD Brick W Win Brick N Win Brick N Win Boarded	Opening Ty Window Door Window Window Half Glazed Window Window Window			Location Brickwork Brickwork Boarded Dormer Brickwork Brickwork Brickwork Brickwork Boarded		No No No Ea So W	atation orth orth orth orth ast ast outh est est	Area (6.8 1.8 4.1 1.6 1.4 1.9 14.8 2.4 1.6	8 9 8 5 4 1 36 3	Ρ	itch 0 0 0 0 0 0 0 0 0 0 0 0
4.0 Conservatory			1	None				_			
-			l I	100				%			
15.0 Draught Proofing			l	No				70			
I6.0 Draught Lobby			l	INO							
I7.0 Thermal Bridging I7.1 List of Bridges			[Calculate Bridges							
Bridge Type E2 Other lintels (includi E3 Sill E4 Jamb E5 Ground floor (norma E6 Intermediate floor w E20 Exposed floor (nor E10 Eaves (insulation a E11 Eaves (insulation a E12 Gable (insulation a E13 Gable (insulation a E14 Flat roof E16 Corner (normal) E17 Corner (inverted – external area)	al) vithin a dwelling mal) at ceiling level) at rafter level) at ceiling level) at rafter level)		Inde 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 e K1 - Default pendently assessed pendently assessed	Length 25.26 23.45 56.83 44.51 53.32 21.57 23.16 18.24 12.90 15.72 8.40 38.69 19.71	Psi 0.17 0.03 0.04 0.12 0.12 0.07 0.05 0.07 0.06 0.16 0.06 -0.01	Adjuster 0.17 0.03 0.04 0.12 0.07 0.05 0.07 0.06 0.16 0.06 -0.01	I Reference TRADA TRADA TRADA TRADA TRADA TRADA TRADA TRADA TRADA TRADA TRADA	:		Imported Yes Yes Yes No No No No No No No
Y-value				0.07				W/m²K			
8.0 Pressure Testing	_	_	[Yes					_	_	_
Designed AP ₅₀			[4.00				m³/(h.m	²) @ 50	Pa	
Property Tested?			[Yes							
Test Method			[Blower Door							
As Built AP ₅₀		ĺ	0.10				m³/(h.m	²) @ 50	Pa		
9.0 Mechanical Ventilati	on										
Mechanical Ventilatio											
Mechanical Venti	lation System Pre	sent	[Yes							
Approved Installa	ition		Ī	Yes							
Mechanical Venti	lation data Type		Ī	Database				1			
Туре			ĺ	Mechanical extract ven	tilation - decer	tralised		=			
Туре											



Duct Ty		Flexible		7	
	Efficiency	0.00		 	
Wet Ro	-	6		 	
SFP from Installer Commissioning Certificate		No			
	<u> </u>				
19.1 Mechanical SFP	l extract ventilation - Decentralised Fan/Room Type Count				
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 7 Other Wet Room				
20.0 Fans, Open	n Fireplaces, Flues				
21.0 Fixed Cooli	ing System	No			
22.0 Lighting					
No Fixed Ligh	hting	No			_
		NameEfficacyLighting 192.86	Power 7	Capacity 650	Count 50
24.0 Main Heatir	ng 1	Database			
Percentage o	of Heat	100.00		%	
Database Re	f. No.	105744			
Fuel Type		Electricity			
SAP Code		0			
In Winte	er	0.00			
In Sum	mer	0.00			
Model Name		WH-MDC09J3E5			
Manufacturer	r	Panasonic HVAC UK Ltd			
System Type		Heat Pump			
Controls SAP	P Code	2210			
Delayed Star	t Stat	No			
Burner Contro	ol	Modulating			
HETAS appro	oved System	No			
Oil Pump Insi	ide	No			
FI Case		0.00			
Flue Type		None or Unknown			
Fan Assisted	Flue	No			
Is MHS Pump	ped	Pump in heated space			
Heating Pum	p Age	2013 or later			
Heat Emitter		Radiators and Underfloor			
Underfloor He		Yes - Pipes in thin screed			
Flow Tempera	ature	Enter value			
Flow Tempera		55.00			
Boiler Interloo		No			
Combi boiler		No Combi			
Combi keep ł	hot type	None			
25.0 Main Heatir	ng 2	None			
26.0 Heat Netwo	orks	None]	



Heat Source

Fuel Type Heating Use

Use Efficiency Percentage Of

/ Percentage Of Heat Heat Heat Power Ratio

Electrical 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	2
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
Bath	Vented hot water system	7.00		No	
Ens 1	Vented hot water system	7.00		No	
Ens 2	Vented hot water system	7.00		No	

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder	Hot Water Cylinder			
Cylinder Stat	Yes			
Cylinder In Heated Space	Yes			
Independent Time Control	Yes			
Insulation Type	Measured Loss			
Cylinder Volume	270.00	L		
Loss	1.58	kWh/day		
Pipes insulation	Fully insulated primary pipework			
In Airing Cupboard	No			
31.0 Thermal Store	None			
34.0 Small-scale Hydro	None			
Electricity Generated	0.00			
Apportioned	0.00	kWh/Year		
Connected to dwelling's electricity meter	Yes			
Electricity Generation	Annual			
Jan Feb Mar Apr	May Jun Jul Aug Sep	Oct Nov Dec		

Recommendations Lower cost measures

None

Further measures to achieve even higher standards

None