

McCarthy & Stone

Berneslai Close, Barnsley - Part L1a SAP Summary (Design Stage)

10.06.2019



Focus Offices

Nottingham

Focus House
Millennium Way West
Phoenix Business Park
Nottingham
NG8 6AS
Tel: 0115 976 5050
E-mail: enquiries@focus-consultants.com
Website: www.focus-consultants.co.uk

Leicester

56 Business Box
3 Oswin Road
Leicester
LE3 1HR
Tel: 0116 275 8315
E-mail: leicesterenquiries@focus-consultants.com
Website: www.focus-consultants.co.uk

Lincolnshire

Focus House
Resolution Close
Endeavour Park
Boston
Lincolnshire
PE21 7TT
Tel: 01205 355 207
E-mail: bostonenquiries@focus-consultants.com
Website: www.focus-consultants.co.uk

London

605 Elizabeth House
39 York Road
London
SE1 7NQ
Tel: 0203 096 9717
E-mail: londonenquiries@focus-consultants.com
Website: www.focus-consultants.co.uk



@FocusLLP

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Client: McCarthy & Stone

Aspen House
Wykenham Road
Northminster Business Park
Upper Poppleton
York
YO26 6QW

Client Lead: Ian Ward

Tel: 01904 444262

Email: ian.ward@mccarthyandstone.co.uk

Prepared By:

Focus Consultants
56 Business Box
3 Oswin Road
Leicester
LE3 1HR

Focus Contact: Ben Matthews

Tel: 0116 275 8315

Email: ben.matthews@focus-consultants.com

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Authorised By: Jason Redfearn, Partner

Signature:

CONTENTS

	Page Nr
1.0 Part L1a Summary.....	2
1.1 Clarifications.....	4
1.2 Thermal Bridges.....	4
1.3 Design Stage.....	4

APPENDICES

Appendix 1	-	SAP Summary Sheet (Apartments)
Appendix 2	-	Block Compliance
Appendix 3	-	Dwelling Types Sign Off Sheet

1.0 Part L1a Summary

This short report provides a summary of the inputs used in the SAP Calculations on this project. SAP Summary within Appendix 1 should reflect the Dwelling Sign Off Sheets attached in Appendix 2. The Dwelling Sign Off Sheets are generated directly from the SAP Software, they represent different dwelling types for the project. A representative plot for each floor is attached and where appropriate to the project a block compliance sheet is appended.

The Dwelling Sign Off Sheets should be reviewed in conjunction with the SAP Summary by the Design Team. Comments should be provided where deviation is noted from the proposed design so the SAP assessor can update their calculations.

Dependent upon the project stage the SAP calculations will need to be updated if detailed design is yet to occur. We recommend the project team notify the SAP assessor when RIBA stage 4/Technical Design is achieved, the calculation if necessary can then be updated to reflect the detailed design.

Please note at the point of notification by the team of detailed design the update a project can be subject to significant change in results dependent upon the extent of changes noted.

1.1 Clarifications

The SAP calculations are limited to specifying systems for HVAC services. They are not a confirmation that they will meet requirements of compliance and should not be relied upon for the purposes of design of M & E services.

It is for the Design Team to confirm the suitability of the above system to achieve DHW demand, Space Heating, Heat load requirements and minimum ventilation requirements.

1.2 Thermal Bridges

Thermal bridges should be reviewed within the Dwelling Sign Off Sheets to confirm representative.

1.3 Design Stage Specification Confirmation

The Dwelling Type Sign Off Sheets should be reviewed in conjunction with the SAP Summary by the Design Team. Comments should be provided where deviation is noted from the proposed design so the SAP assessor can update their calculations.

Appendix 1

SAP Summary



		PROPOSED SPECIFICATION	Notes
BLOCK TER		23.85	
BLOCK DER		23.55	
% Change		-1.26%	
BLOCK TFEE		35.20	
BLOCK DFEE		30.44	
% Change		-13.52%	

EXTERNAL ELEMENT	VALUE		Notes
External Doors	U Value (W/m2K)	N/A	All unit doors are to heated spaces
Door Glazing	U Value (W/m2K)	N/A	
Door Glazing G Value	Solar Factor	N/A	
Window 1	U Value (W/m2K)	1.40	
Window G Value	Solar Factor	0.63	Target/Default Figures for Low E Soft Coating Windows
Window Frame Factor	FF	0.70	Target/Default Figures
Main External Wall	U Value (W/m2K)	0.21	Brick outer, 150mm full fill Knauf Dritherm 34, Dense Block Inner (GF) / Medium Block (Upper)
Party Wall to Dwelling	U Value (W/m2K)	0.00 (solid or fully filled cavity & sealed)	
Party Wall to Heated Communal Areas	U Value (W/m2K)	0.00 (solid or fully filled cavity & sealed)	In accordance with the convention it is assumed that all communal areas are heated with controlled fixed heaters and that stairwells are an open space with fixed heater(s).
Internal Walls	U Value (W/m2K)	0.00	
Plane Roof	U Value (W/m2K)	0.11	TBC
Sloping Roof	U Value (W/m2K)	N/A	
Flat Roof	U Value (W/m2K)	0.11	TBC
Exposed Floor 1	U Value (W/m2K)	0.18	Exposed floor to Lower Units
Exposed Floor 2	U Value (W/m2K)	N/A	
Ground Floor	U Value (W/m2K)	0.11	Based on use of 225mm Kay Metzeler Insulation
Thermal Mass Parameter	TMP Value	Simple	6
Thermal Bridge	Y-value	See Note	2
Air Permeability	m3/h.m2	4.50	1

SERVICES		Element	Notes
Main Heating 1	Item	Electric Panel Heaters	
Controls	Item	Programmer & Appliance Thermostat	
Additional		N/A	
Lighting	Item	100% Low Energy Light Fittings	3
External Lighting	Item	Assumes External Lighting Fitted	Low Energy Fittings with Daylight Sensors
Ventilation 1	Item	MVHR - Vent Axia Sentinel Kinetic Advance S	7
Ventilation 2	Item	N/A	
Water Heating 1	Item	Cylinder 120 litres and 1.12 kWh/day losses	
Water Heating 2	Item	Dual Immersion Water Heating	

LZC / RENEWABLE TECHNOLOGY			
Solar PV	kW Peak	N/A	5

The SAP calculations are limited to specifying systems for HVAC services. They are not a confirmation that they will meet requirements of compliance and should not be relied upon for the purposes of design of M & E services.

It is for the Design Team to confirm the suitability of the above system to achieve DHW demand, Space Heating, Heat load requirements and minimum ventilation requirements.

1. Pressure test target - 4.50 m3/h.m2 for all units.
2. Thermal Bridges Calculated in accordance with the bespoke calculations provided for Masonry Construction with 150mm Dritherm 34 insulation.
3. Dedicated minimum 100% Low Energy Light Fittings
4. N/A
5. No PV required for SAP Compliance
6. Thermal Mass Parameter Simple Calculation - High for GF / Medium for upper floors
7. Installation by Approved installer • Rigid Ducting • MVHR Ducting Insulated please note that MVHR operates at optimum efficiencies below an air pressure test of 5.00 m3/h.m2.

Appendix 2

Block Compliance

BLOCK COMPLIANCE

Calculation Type: New Build (As Designed)

Block Reference	000027	Issued on Date	
Block Name	Barnsley		
Assessor Details	Mr. Benjamin Matthews, Benjamin Matthews, Tel: 0116 275 8315 , ben.matthews@focus-consultants.com	Assessor ID	P388-0001
Client			

Block Compliance Report - DER

Block Reference: 000027		Block Name: Barnsley		
Property-Assessment Reference	Multiplier	Floor Area (m ²)	DER (kgCO ₂ /m ²)	TER (kgCO ₂ /m ²)
R1078 Barnsley Plot 01-001	1	55.79	29.46	28.08
R1078 barnsley Plot 02-001	1	51.9	26.13	25.87
R1078 Barnsley Plot-03-001	1	51.9	28.58	27.55
R1078 Barnsley Plot-04-001	1	68.45	23.74	23.53
R1078 barnsley Plot-05-001	1	50.89	25.36	25.34
R1078 Barnsley Plot-06-001	1	72.76	30.23	27.10
R1078 Barnsley Plot-07-001	1	51.1	26.77	26.25
R1078 Barnsley Plot-08-001	1	51.1	26.47	26.01
R1078 Barnsley Plot-09-001	1	66.81	24.67	24.34
R1078 Barnsley Plot-10-001	1	62.28	21.39	22.44
R1078 Barnsley Plot-11-001	1	51.42	21.30	22.44
R1078 Barnsley Plot-12-001	1	51.42	22.71	23.50
R1078 Barnsley Plot-13-001	1	68.45	20.07	21.06
R1078 Barnsley Plot-14-001	1	50.89	21.71	23.17
R1078 Barnsley Plot-15-001	1	72.76	22.22	22.68
R1078 Barnsley Plot-16-001	1	66.17	30.48	27.42
R1078 Barnsley Plot-17-001	1	52.29	21.12	22.40
R1078 Barnsley Plot-18-001	1	51.1	21.18	22.56
R1078 Barnsley Plot-19-001	1	51.1	21.02	22.36
R1078 Barnsley Plot-20-001	1	66.81	19.46	20.75
R1078 Barnsley Plot-21-001	1	62.28	21.94	23.27
R1078 Barnsley Plot-22-001	1	51.42	20.94	22.25
R1078 Barnsley Plot-23-001	1	51.42	23.19	23.95
R1078 Barnsley Plot-24-001	1	68.45	20.64	21.62
R1078 Barnsley Plot-25-001	1	50.89	21.48	23.04
R1078 Barnsley Plot-26-001	1	72.76	21.95	22.79
R1078 Barnsley Plot-27-001	1	66.17	21.38	22.11
R1078 Barnsley Plot-28-001	1	52.29	21.12	22.40
R1078 Barnsley Plot-29-001	1	51.1	21.18	22.56
R1078 Barnsley Plot-30-001	1	51.1	21.02	22.36
R1078 Barnsley Plot-31-001	1	66.81	19.49	20.76
R1078 Barnsley Plot-32-001	1	62.28	20.15	21.93
R1078 Barnsley Plot-33-001	1	51.42	20.93	22.25
R1078 Barnsley Plot-34-001	1	51.42	23.50	24.08
R1078 Barnsley Plot-35-001	1	65.03	19.70	20.78
R1078 Barnsley Plot-36-001	1	48.24	20.86	22.46
R1078 Barnsley Plot-37-001	1	68.77	22.02	22.37

BLOCK COMPLIANCE

Calculation Type: New Build (As Designed)

R1078 Barnsley Plot-38-001	1	66.17	21.38	22.11
R1078 Barnsley Plot-39-001	1	52.29	25.97	27.16
R1078 Barnsley Plot-40-001	1	51.1	22.56	25.73
R1078 Barnsley Plot-41-001	1	51.1	25.15	25.55
R1078 Barnsley Plot-42-001	1	44.83	31.93	29.48
R1078 Barnsley Plot-43-001	1	62.66	28.42	26.16
R1078 Barnsley Plot-44-001	1	51.1	25.52	25.65
R1078 Barnsley Plot-45-001	1	51.1	28.89	27.27
R1078 Barnsley Plot-46-001	1	66.74	24.10	23.42
R1078 Barnsley Plot-47-001	1	48.11	25.25	25.03
R1078 Barnsley Plot-48-001	1	72.76	25.35	24.68
R1078 Barnsley Plot-49-001	1	65.86	26.28	25.24
Totals:	49	2841.06	1,156.36	1,173.29
Average DER = 23.55 kgCO ₂ /m ²			PASS	
Average TER = 23.85 kgCO ₂ /m ²				

Block Compliance Report - DFEE

Block Reference: 000027		Block Name: Barnsley		
Property-Assessment Reference	Multiplier	Floor Area (m ²)	DFEE (kWh/m ² /yr)	TTEE (kWh/m ² /yr)
R1078 Barnsley Plot 01-001	1	55.79	42.46	49.18
R1078 barnsley Plot 02-001	1	51.9	34.79	39.71
R1078 Barnsley Plot-03-001	1	51.9	39.70	45.35
R1078 Barnsley Plot-04-001	1	68.45	32.74	38.19
R1078 barnsley Plot-05-001	1	50.89	32.30	37.24
R1078 Barnsley Plot-06-001	1	72.76	46.97	51.66
R1078 Barnsley Plot-07-001	1	51.1	35.86	40.56
R1078 Barnsley Plot-08-001	1	51.1	35.22	39.67
R1078 Barnsley Plot-09-001	1	66.81	34.89	40.80
R1078 Barnsley Plot-10-001	1	62.28	27.72	33.53
R1078 Barnsley Plot-11-001	1	51.42	24.02	27.87
R1078 Barnsley Plot-12-001	1	51.42	27.26	31.54
R1078 Barnsley Plot-13-001	1	68.45	24.72	28.98
R1078 Barnsley Plot-14-001	1	50.89	24.56	29.18
R1078 Barnsley Plot-15-001	1	72.76	31.04	36.31
R1078 Barnsley Plot-16-001	1	66.17	45.87	50.09
R1078 Barnsley Plot-17-001	1	52.29	23.72	27.21
R1078 Barnsley Plot-18-001	1	51.1	23.46	27.14
R1078 Barnsley Plot-19-001	1	51.1	23.07	26.43
R1078 Barnsley Plot-20-001	1	66.81	23.67	27.96
R1078 Barnsley Plot-21-001	1	62.28	28.85	35.97
R1078 Barnsley Plot-22-001	1	51.42	22.83	26.34
R1078 Barnsley Plot-23-001	1	51.42	28.05	32.24
R1078 Barnsley Plot-24-001	1	68.45	26.10	31.65
R1078 Barnsley Plot-25-001	1	50.89	23.46	29.04
R1078 Barnsley Plot-26-001	1	72.76	30.49	36.68
R1078 Barnsley Plot-27-001	1	66.17	28.07	32.17

BLOCK COMPLIANCE

Calculation Type: New Build (As Designed)

R1078 Barnsley Plot-28-001	1	52.29	23.72	27.21
R1078 Barnsley Plot-29-001	1	51.1	23.46	27.14
R1078 Barnsley Plot-30-001	1	51.1	23.07	26.43
R1078 Barnsley Plot-31-001	1	66.81	23.76	28.06
R1078 Barnsley Plot-32-001	1	62.28	24.49	30.07
R1078 Barnsley Plot-33-001	1	51.42	22.82	26.32
R1078 Barnsley Plot-34-001	1	51.42	28.98	33.46
R1078 Barnsley Plot-35-001	1	65.03	22.91	26.45
R1078 Barnsley Plot-36-001	1	48.24	20.39	24.41
R1078 Barnsley Plot-37-001	1	68.77	29.16	33.55
R1078 Barnsley Plot-38-001	1	66.17	28.07	32.17
R1078 Barnsley Plot-39-001	1	52.29	34.24	43.34
R1078 Barnsley Plot-40-001	1	51.1	26.71	38.00
R1078 Barnsley Plot-41-001	1	51.1	32.27	37.40
R1078 Barnsley Plot-42-001	1	44.83	44.34	47.57
R1078 Barnsley Plot-43-001	1	62.66	41.66	45.40
R1078 Barnsley Plot-44-001	1	51.1	33.02	37.71
R1078 Barnsley Plot-45-001	1	51.1	39.75	43.20
R1078 Barnsley Plot-46-001	1	66.74	32.84	36.26
R1078 Barnsley Plot-47-001	1	48.11	30.91	33.40
R1078 Barnsley Plot-48-001	1	72.76	37.09	42.49
R1078 Barnsley Plot-49-001	1	65.86	37.77	42.62
Totals:	49	2841.06	1,483.31	1,715.30
Average DFEE = 30.44 kWh/m²/yr			PASS	
Average TFEE = 35.20 kWh/m²/yr				

Appendix 3

Dwelling Types Sign Off Sheet

DWELLING SIGN OFF REPORT

Section 1: Dwelling Information

Dwelling Address (Please confirm final postal address and post code of the dwelling.)

House Name		
House Number	R1078 Barnsley Plot 01	
Postcode		
Street		
Locality		
Town		
County		

Dwelling Orientation West (Please confirm orientation of main entrance door of the dwelling.)

Comments

Terrain Type Urban

Property Type Flat, End-Terrace

Comments

Overshading (called Sunlight/shade in assessment) Average or unknown

Comments

Section 2: Dwelling Construction Details

Thermal Mass Parameter Simple calculation

Thermal Mass 250.00 kJ/m²K

Comments

External Walls

Type Cavity Wall

Construction Cavity wall : plasterboard on dabs, dense block, filled cavity, any outside structure

U-value 0.21 W/m²K U-value calculations should be provided to verify the u-value entered in the survey.

Gross Area 46.95 m²

Comments

Party Walls

Type	Construction	U-Value (W/m ² K)	Area (m ²)
Solid Wall	Single plasterboard on dabs both sides, lightweight aggregate blocks, cavity or cavity fill	0.00	40.50

Comments

DWELLING SIGN OFF REPORT

Heat Loss Floors

Type	Ground Floor - Solid		
Construction	Slab on ground, screed over insulation		
U-value	0.11	W/m ² K	U-value calculations should be provided to verify the u-value entered in the survey.
Area	55.79	m ²	

Comments

Opening Types

Description	Type	Glazing	Frame Type	U Value (W/m ² K)
Window	Window	Double Low-E Soft 0.05		1.40
Comments				

Openings

Name	Opening Type	Location	Orientation	Area (m ²)
Opening 1	Window	[1] External Wall 1	East	4.62
Opening 2	Window	[1] External Wall 1	East	2.15
Opening 3	Window	[1] External Wall 1	South East	1.14
Opening 4	Window	[1] External Wall 1	North East	1.14
Comments				

Thermal Bridging

Calculate Bridges

List of Bridges

Bridge Type	Source Type	Length (m)	Psi (W/mK)	Reference
E2 Other lintels (including other steel lintels)	Table K1 - Approved	4.16	0.300	
E3 Sill	Independently assessed	4.16	0.027	
E4 Jamb	Independently assessed	21.80	0.024	
E5 Ground floor (normal)	Independently assessed	17.39	0.152	
E7 Party floor between dwellings (in blocks of flats)	Independently assessed	17.39	0.035	
E16 Corner (normal)	Independently assessed	16.20	0.057	
E17 Corner (inverted – internal area greater than external area)	Independently assessed	2.70	-0.089	
E25 Staggered party wall between dwellings	Independently assessed	5.40	0.044	
P1 Party wall - Ground floor	Independently assessed	15.10	0.146	
P3 Party wall - Intermediate floor between dwellings (in blocks of flats)	Table K1 - Default	15.10	0.000	

Y-value 0.080 W/m²K

Comments

DWELLING SIGN OFF REPORT

Where specific construction details have been used documentary evidence should be provided to the SAP assessor, usually in the form of signed checklists.

Pressure Testing

Yes

As Built AP₅₀

m³/(h.m²) @ 50 Pa

Where an air pressure test has been carried out a copy of the test certificate should be forwarded to the SAP assessor.

Comments

Section 3: Dwelling Systems

Mechanical Ventilation

Type

Balanced mechanical ventilation with heat recovery

Brand Model

Vent Axia Sentinel Kinetic Advance S

SFP

0.46

Efficiency

92.00

Duct Type

Rigid

Duct Brand Model

Number of Wet Rooms

2

Comments

Fans, Open Fireplaces, Flues

	MHS	SHS	Other	Total
Number of Chimneys	0		0	0
Number of open flues	0		0	0
Number of intermittent fans				0
Number of passive vents				0
Number of flueless gas fires				0

Comments

Internal Lighting

Total number of light fittings

11

Total number of L.E.L. fittings

11

Percentage of L.E.L. fittings

100.00

%

Comments

External Lighting

External lights fitted

Yes

Light and motion sensor

Yes

Comments

DWELLING SIGN OFF REPORT

Electricity Tariff

Standard

Comments

Main Heating 1

SAP table

Fuel Type

electricity

Main Heating

Electricity REA Panel, convector or radiant heaters

Efficiency (SAP Table)

100.0

%

Brand, Model

Flue Type

Fan Assisted Flue

Heat Emitter

Flow Temperature

Comments

Heating Controls

Description

CRC Programmer and appliance thermostats

Boiler Interlock

Delayed Start Stat

Compensator

Comments

Main Heating 2

None

Comments

Water Heating System

HEI Immersion

Water Heating

Independent

Supplementary Immersion

Comments

Hot Water Cylinder

Hot Water Cylinder

Independent Time Control

Cylinder Stat

Insulation Type

Measured Loss

DWELLING SIGN OFF REPORT

Insulation Thickness		
Cylinder Volume	120.00	L
Measured Loss	1.12	kWh/day
Pipes insulation		
Comments		

Section 4: Dwelling Renewable Energy

Section 5: Declaration

I confirm that all details provided above are accurate to the best of my knowledge.

Signed

Date

DWELLING SIGN OFF REPORT

Section 1: Dwelling Information

Dwelling Address (Please confirm final postal address and post code of the dwelling.)

House Name		
House Number	R1078 Barnsley Plot 30	
Postcode		
Street		
Locality		
Town		
County		

Dwelling Orientation East (Please confirm orientation of main entrance door of the dwelling.)

Comments

Terrain Type Urban

Property Type Flat, Mid-Terrace

Comments

Overshading (called Sunlight/shade in assessment) Average or unknown

Comments

Section 2: Dwelling Construction Details

Thermal Mass Parameter Simple calculation

Thermal Mass 250.00 kJ/m²K

Comments

External Walls

Type Cavity Wall

Construction Cavity wall : plasterboard on dabs, dense block, filled cavity, any outside structure

U-value 0.21 W/m²K U-value calculations should be provided to verify the u-value entered in the survey.

Gross Area 20.17 m²

Comments

Party Walls

Type	Construction	U-Value (W/m ² K)	Area (m ²)
Solid Wall	Single plasterboard on dabs both sides, lightweight aggregate blocks, cavity or cavity fill	0.00	61.89

Comments

DWELLING SIGN OFF REPORT

Opening Types

Description	Type	Glazing	Frame Type	U Value (W/m²K)
Window	Window	Double Low-E Soft 0.05		1.40
Comments				

Openings

Name	Opening Type	Location	Orientation	Area (m²)
Opening 1	Window	[1] External Wall 1	West	2.89
Opening 2	Window	[1] External Wall 1	West	3.17
Comments				

Thermal Bridging

Calculate Bridges

List of Bridges

Bridge Type	Source Type	Length (m)	Psi (W/mK)	Reference
E2 Other lintels (including other steel lintels)	Table K1 - Approved	3.63	0.300	
E3 Sill	Independently assessed	3.63	0.027	
E4 Jamb	Independently assessed	9.66	0.024	
E7 Party floor between dwellings (in blocks of flats)	Independently assessed	12.38	0.035	
E18 Party wall between dwellings	Independently assessed	5.40	0.028	
Y-value	0.099	W/m²K		

Comments

Where specific construction details have been used documentary evidence should be provided to the SAP assessor, usually in the form of signed checklists.

Pressure Testing

Yes

As Built AP₅₀

m³/(h.m²) @ 50 Pa

Where an air pressure test has been carried out a copy of the test certificate should be forwarded to the SAP assessor.

Comments

Section 3: Dwelling Systems

Mechanical Ventilation

Type	Balanced mechanical ventilation with heat recovery
Brand Model	Vent Axia Sentinel Kinetic Advance S
SFP	0.46

DWELLING SIGN OFF REPORT

Efficiency
Duct Type
Duct Brand Model
Number of Wet Rooms
Comments

Fans, Open Fireplaces, Flues

	MHS	SHS	Other	Total
Number of Chimneys	0		0	0
Number of open flues	0		0	0
Number of intermittent fans				0
Number of passive vents				0
Number of flueless gas fires				0
Comments				

Internal Lighting

Total number of light fittings
Total number of L.E.L. fittings
Percentage of L.E.L. fittings %
Comments

External Lighting

External lights fitted
Light and motion sensor
Comments

Electricity Tariff

Comments

Main Heating 1

Fuel Type
Main Heating
Efficiency (SAP Table) %
Brand, Model
Flue Type
Fan Assisted Flue
Heat Emitter
Flow Temperature
Comments

Heating Controls

DWELLING SIGN OFF REPORT

Description	CRC Programmer and appliance thermostats
Boiler Interlock	
Delayed Start Stat	
Compensator	

Comments

Main Heating 2

Comments

Water Heating System

Water Heating

Supplementary Immersion

Comments

Hot Water Cylinder

Independent Time Control

Cylinder Stat

Insulation Type

Insulation Thickness

Cylinder Volume

Measured Loss

Pipes insulation

Comments

Section 4: Dwelling Renewable Energy

Section 5: Declaration

I confirm that all details provided above are accurate to the best of my knowledge.

Signed

Date

DWELLING SIGN OFF REPORT

Section 1: Dwelling Information

Dwelling Address (Please confirm final postal address and post code of the dwelling.)

House Name		
House Number	R1078 Barnsley Plot 49	
Postcode		
Street		
Locality		
Town		
County		

Dwelling Orientation (Please confirm orientation of main entrance door of the dwelling.)

Comments

Terrain Type

Property Type

Comments

Overshading (called Sunlight/shade in assessment)

Comments

Section 2: Dwelling Construction Details

Thermal Mass Parameter

Thermal Mass kJ/m²K

Comments

External Walls

Type

Construction

U-value W/m²K U-value calculations should be provided to verify the u-value entered in the survey.

Gross Area m²

Type

Construction

U-value W/m²K U-value calculations should be provided to verify the u-value entered in the survey.

Gross Area m²

Comments

Party Walls

Type	Construction	U-Value (W/m ² K)	Area (m ²)
Solid Wall	Single plasterboard on dabs both sides, lightweight aggregate blocks, cavity or cavity fill	0.00	57.32

Comments

DWELLING SIGN OFF REPORT

External Roofs

Type	External Plane Roof		
Construction	Plasterboard, insulated at ceiling level		
U-value	0.11	W/m ² K	U-value calculations should be provided to verify the u-value entered in the survey.
Gross Area	65.86	m ²	

Comments

Opening Types

Description	Type	Glazing	Frame Type	U Value (W/m ² K)
Window	Window	Double Low-E Soft 0.05		1.40
Comments				

Openings

Name	Opening Type	Location	Orientation	Area (m ²)
Opening 2	Window	[1] External Wall 1	North	4.34
Opening 6	Window	[1] External Wall 1	North	3.17
Comments				

Thermal Bridging

Calculate Bridges

List of Bridges				
Bridge Type	Source Type	Length (m)	Psi (W/mK)	Reference
E2 Other lintels (including other steel lintels)	Table K1 - Approved	4.69	0.300	
E3 Sill	Independently assessed	4.69	0.027	
E4 Jamb	Independently assessed	12.39	0.024	
E7 Party floor between dwellings (in blocks of flats)	Independently assessed	2.52	0.035	
E7 Party floor between dwellings (in blocks of flats)	Table K1 - Default	10.40	0.140	
E12 Gable (insulation at ceiling level)	Table K1 - Approved	2.52	0.240	
E16 Corner (normal)	Independently assessed	2.70	0.057	
E25 Staggered party wall between dwellings	Independently assessed	5.40	0.044	
P3 Party wall - Intermediate floor between dwellings (in blocks of flats)	Table K1 - Default	21.23	0.000	
P4 Party wall - Roof (insulation at ceiling level)	Independently assessed	21.23	0.120	

DWELLING SIGN OFF REPORT

Y-value W/m²K
Comments

Where specific construction details have been used documentary evidence should be provided to the SAP assessor, usually in the form of signed checklists.

Pressure Testing

As Built AP₅₀ m³/(h.m²) @ 50 Pa

Where an air pressure test has been carried out a copy of the test certificate should be forwarded to the SAP assessor.

Comments

Section 3: Dwelling Systems

Mechanical Ventilation

Type
Brand Model
SFP
Efficiency
Duct Type
Duct Brand Model
Number of Wet Rooms
Comments

Fans, Open Fireplaces, Flues

	MHS	SHS	Other	Total
Number of Chimneys	0		0	0
Number of open flues	0		0	0
Number of intermittent fans				0
Number of passive vents				0
Number of flueless gas fires				0

Comments

Internal Lighting

Total number of light fittings
Total number of L.E.L. fittings
Percentage of L.E.L. fittings %
Comments

External Lighting

External lights fitted
Light and motion sensor

DWELLING SIGN OFF REPORT

Comments

Electricity Tariff

Standard

Comments

Main Heating 1

SAP table

Fuel Type

electricity

Main Heating

Electricity REA Panel, convector or radiant heaters

Efficiency (SAP Table)

100.0

%

Brand, Model

Flue Type

Fan Assisted Flue

Heat Emitter

Flow Temperature

Comments

Heating Controls

Description

CRC Programmer and appliance thermostats

Boiler Interlock

Delayed Start Stat

Compensator

Comments

Main Heating 2

None

Comments

Water Heating System

HEI Immersion

Water Heating

Independent

Supplementary Immersion

Comments

Hot Water Cylinder

Hot Water Cylinder

Independent Time Control

Cylinder Stat

DWELLING SIGN OFF REPORT

Insulation Type	Measured Loss	
Insulation Thickness		
Cylinder Volume	120.00	L
Measured Loss	1.12	kWh/day
Pipes insulation		
Comments		

Section 4: Dwelling Renewable Energy

Section 5: Declaration

I confirm that all details provided above are accurate to the best of my knowledge.

Signed

Date