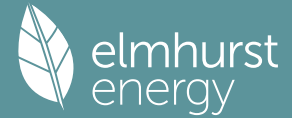


TECHNICAL NOTE													
TITLE		Planning Application Condition Review											
PROJECT		18 Parkside Road, Reading	JDP REF J1292										
ENGINEER(S)		DGM	DATE 22/12/2022										
CHECKED		KP / OCT	DATE 22/12/2022										
1.0	INTRODUCTION												
1.1	This purpose of this technical note is to review Planning Conditions which are related to Reading Borough Council Planning Application No. 210582, which pertains to the site address 18 Parkside Road, Reading. The Planning Conditions which are reviewed in this note are as follows: <table><tr><td>CONDITION</td><td>DESCRIPTION</td></tr><tr><td>17</td><td>35% improvement on Part L during design stage</td></tr><tr><td>18</td><td>35% improvement on Part L on completion, and prior to occupation</td></tr><tr><td>25</td><td>A minimum of 10% of car parking spaces shall have access to EV charger</td></tr><tr><td>27</td><td>The development shall be constructed in accordance with Part M4 (2) of the Building Regulations</td></tr></table>			CONDITION	DESCRIPTION	17	35% improvement on Part L during design stage	18	35% improvement on Part L on completion, and prior to occupation	25	A minimum of 10% of car parking spaces shall have access to EV charger	27	The development shall be constructed in accordance with Part M4 (2) of the Building Regulations
CONDITION	DESCRIPTION												
17	35% improvement on Part L during design stage												
18	35% improvement on Part L on completion, and prior to occupation												
25	A minimum of 10% of car parking spaces shall have access to EV charger												
27	The development shall be constructed in accordance with Part M4 (2) of the Building Regulations												
2.0	CONDITION 17												
2.1	The requirement is to exceed Part L compliance (DER vs TER) by 35% during the design stage. This can be demonstrated using the SAP calculations during the design. These are attached to this technical note for reference.												
2.2	Three SAP calculations have been prepared, which are representative of the development. These show and improvement on each of the three dwellings ranging from 52% to 57.7%. Assessments have been undertaken for Flats 1, 2 and 5.												
2.3	Whilst there is ongoing design development for final selections of plant, wall constructions and window details these final selections will tested against updated SAP calculations throughout the design period, with the Planning condition minimum target in mind in addition to Building Regulation compliance.												
2.4	It is our opinion that the design is compliant with the Planning condition.												
3.0	CONDITION 18												
3.1	This will be demonstrated using the EPC certificate, which uses the same SAP calculations with the as-built details. This condition cannot be discharged prior to construction, as such the condition is ‘prior to occupation’. No further action at this time.												
4.0	CONDITION 25												
4.1	The condition is that a minimum of 10% of car parking spaces shall have access to EV charger. A total of 10 No. parking spaces are proposed, which requires a single parking space to have an EV charger. It is proposed that 2 No. 7kW EV chargers are provided. These are proposed to be served by a single EV charging post. Final position to be determined.												
5.0	CONDITION 27												
5.1	All dwellings shall be designed in accordance with Part M4 (2). Details will be included within the Building Regulations compliance submission; however it can be noted that we are undertaking the design in line with the following: a) Lighting in communal areas shall be activated automatically and utilise fully diffused fixtures. b) Lighting in the dwelling entrance areas shall be activated automatically and utilise fully diffused fixtures. c) Consumer units mounted so that the switches have their centre line between 1350mm and 1450mm AFFL. d) Switches, sockets, stopcocks, and controls shall be between 450mm and 1200mm AFFL and a minimum of 300mm from an inside corner. e) Thermostats / programmers / heating controls shall be located between 900mm and 1200mm AFFL.												

Summary for Input Data



Property Reference	Flat One	Issued on Date	14/12/2022
Assessment Reference	Flat One	Prop Type Ref	Flat One
Property	Parkside Road, 18, Parkside Road, Reading, Reading, RG302DB		

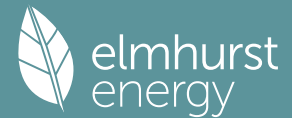
SAP Rating	76 C	DER	6.36	TER	14.79
Environmental	95 A	% DER < TER			57.00
CO ₂ Emissions (t/year)	0.39	DFEE	41.24	TFEE	42.55
Compliance Check	See BREL	% DFEE < TFEE			3.08
% DPER < TPER	14.80	DPER	66.55	TPER	78.11

Assessor Details	Miss Jessica James	Assessor ID	R564-0001
Client			

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

Orientation	North									
Property Tenure	ND									
Transaction Type	6									
Terrain Type	Urban									
1.0 Property Type	Flat, End-Terrace									
Position of Flat	Ground-floor flat									
Which Floor	0									
2.0 Number of Storeys	1									
3.0 Date Built	2024									
4.0 Sheltered Sides	0									
5.0 Sunlight/Shade	Average or unknown									
6.0 Thermal Mass Parameter	Enter TMP value									
Thermal Mass	100.00									kJ/m²K
7.0 Electricity Tariff	Standard									
Smart electricity meter fitted	No									
Smart gas meter fitted	No									
7.0 Measurements										
	Ground floor:	Heat Loss Perimeter	Internal Floor Area	Average Storey Height						
		33.60 m	65.20 m²	2.70 m						
8.0 Living Area	27.20									m²
9.0 External Walls										
Description	Type	Construction	U-Value (W/m²K)	Kappa (kJ/m²K)	Gross Area(m²)	Nett Area (m²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall	Cavity Wall	Other	0.15		67.77	55.86	0.00	None	11.91	Enter Gross Area
Wall to Stairs	Cavity Wall	Other	0.15		22.95	22.95	2.10	Stairwell	0.00	Enter Gross Area
9.1 Party Walls										
Description	Type	Construction	U-Value (W/m²K)	Kappa (kJ/m²K)	Area (m²)	Shelter Res	Shelter			
Party Wall 1	Solid Wall	Other	0.00		8.91		None			
10.1 Party Ceilings										
Description	Construction	Kappa (kJ/m²K)	Area (m²)							
Party Ceiling 1	Other	0.00	70.70							
11.0 Heat Loss Floors										
Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)		
Heatloss Floor 1	Ground Floor - Solid	Lowest occupied	Other	0.13	None	0.00	0.00	65.20		
11.1 Party Floors										
Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)						
Party Floor 1	Lowest occupied	Other	0.00	70.70						
12.0 Opening Types										
Description	Data Source	Type	Glazing	Glazing	Filling	G-value	Frame	Frame	U Value	

Summary for Input Data



Window	Manufacturer	Window	Triple glazed	Gap	Type	0.40	Type	Factor	(W/m²K)
								0.80	1.20

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Window	Window	External Wall	North	5.31	
Opening	Window	External Wall	South	4.40	
Opening	Window	External Wall	West	2.20	

14.0 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	Source Type	Length	Psi	Adjusted Reference:	Imported
E2 Other lintels (including other steel lintels)	Independently assessed	8.00	0.30	0.30	No
E3 Sill	Independently assessed	8.00	0.04	0.04	No
E4 Jamb	Independently assessed	19.44	0.04	0.04	No
E7 Party floor between dwellings (in blocks of flats)	Independently assessed	33.60	0.07	0.07	No
E16 Corner (normal)	Independently assessed	10.80	0.09	0.09	No
E17 Corner (inverted – internal area greater than external area)	Independently assessed	5.40	-0.09	-0.09	No
E18 Party wall between dwellings	Independently assessed	5.40	0.06	0.06	No
P1 Party wall - Ground floor	Independently assessed	3.30	0.16	0.16	No
E5 Ground floor (normal)	Independently assessed	33.60	0.16	0.16	No

Y-value 0.08 W/m²K

18.0 Pressure Testing

Yes

Designed AP₅₀ 3.00 m³/(h.m²) @ 50 Pa

Test Method Blower Door

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present Yes

Mechanical Ventilation data Type Data Sheet

Type Balanced mechanical ventilation (no heat recovery)

Manufacturer SFP 0.60

Duct Type Rigid

Wet Rooms 2

Brand, Model tbc

SFP from Installer Commissioning Certificate No

20.0 Fans, Open Fireplaces, Flues

21.0 Fixed Cooling System

No

22.0 Lighting

No Fixed Lighting No

Name	Efficacy	Power	Capacity	Count
Lighting 1	90.00	9	810	20

24.0 Main Heating 1

Database

Percentage of Heat 100.00 %

Database Ref. No. 104528

Fuel Type Electricity

In Winter 0.00

In Summer 0.00

Model Name F730

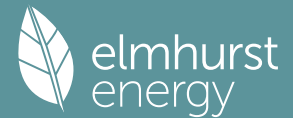
Manufacturer NIBE Energy Systems Ltd

System Type Heat Pump

Controls SAP Code 2207

Is MHS Pumped Pump in heated space

Summary for Input Data



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

25.0 Main Heating 2

26.0 Heat Networks
Space Community Heating

Heat Source	Fuel Type	Heating Use	Efficiency	Percentage Of Heat	Heat	Heat Power Ratio	Electrical	Fuel Factor	Efficiency type
Heat source 1									
Heat source 2									
Heat source 3									
Heat source 4									
Heat source 5									

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	No
Cold Water Source	From mains
Bath Count	1
Immersion Only Heating Hot Water	No

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
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28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

Internal Store	
Insulation Type	Measured Loss
Cylinder Volume	180.00 L
Loss	2.02 kWh/day
In Airing Cupboard	No

34.0 Small-scale Hydro

None											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Recommendations

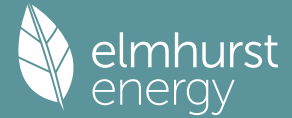
Lower cost measures

None

Further measures to achieve even higher standards

Typical Cost	Typical savings per year	Ratings after improvement SAP rating	Environmental Impact
		0	0
		0	0
		0	0

Summary for Input Data



Property Reference	Flat Two	Issued on Date	14/12/2022
Assessment Reference	Flat Two	Prop Type Ref	Flat Two
Property	Parkside Road, 18, Parkside Road, Reading, Reading, RG302DB		

SAP Rating	76 C	DER	5.82	TER	12.89
Environmental	95 A	% DER < TER			54.85
CO ₂ Emissions (t/year)	0.45	DFEE	37.13	TFEE	38.55
Compliance Check	See BREL	% DFEE < TFEE			3.69
% DPER < TPER	10.25	DPER	60.98	TPER	67.94

Assessor Details	Miss Jessica James	Assessor ID	R564-0001
Client			

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

Orientation	West									
Property Tenure	ND									
Transaction Type	6									
Terrain Type	Urban									
1.0 Property Type	Flat, End-Terrace									
Position of Flat	Ground-floor flat									
Which Floor	0									
2.0 Number of Storeys	1									
3.0 Date Built	2024									
4.0 Sheltered Sides	0									
5.0 Sunlight/Shade	Average or unknown									
6.0 Thermal Mass Parameter	Enter TMP value									
Thermal Mass	100.00									kJ/m²K
7.0 Electricity Tariff	Standard									
Smart electricity meter fitted	No									
Smart gas meter fitted	No									
7.0 Measurements										
	Ground floor:	Heat Loss Perimeter	Internal Floor Area	Average Storey Height						
		35.80 m	81.90 m²	2.70 m						
8.0 Living Area	26.70									m²
9.0 External Walls										
Description	Type	Construction	U-Value (W/m²K)	Kappa (kJ/m²K)	Gross Area(m²)	Nett Area (m²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall	Cavity Wall	Other	0.15		95.85	86.58	0.00	None	9.27	Enter Gross Area
Wall to Stairs	Cavity Wall	Other	0.15		0.81	0.81	2.10	Stairwell	0.00	Enter Gross Area
9.1 Party Walls										
Description	Type	Construction	U-Value (W/m²K)	Kappa (kJ/m²K)	Area (m²)	Shelter Res	Shelter			
Party Wall 1	Solid Wall	Other	0.00		8.91		None			
10.1 Party Ceilings										
Description	Construction	Kappa (kJ/m²K)	Area (m²)							
Party Ceiling 1	Other	0.00	81.90							
11.0 Heat Loss Floors										
Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)		
Heatloss Floor 1	Ground Floor - Solid	Lowest occupied	Other	0.13	None	0.00	0.00	81.90		
11.1 Party Floors										
Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)						
Party Floor 1	Lowest occupied	Other	0.00	70.70						
12.0 Opening Types										
Description	Data Source	Type	Glazing	Glazing	Filling	G-value	Frame	Frame	U Value	

Summary for Input Data



Window	Manufacturer	Window	Triple glazed	Gap	Type	0.40	Type	Factor	(W/m²K)
								0.80	1.20

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Window	Window	External Wall	West	4.87	
Opening	Window	External Wall	East	1.76	
Opening	Window	External Wall	South	2.64	

14.0 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	Source Type	Length	Psi	Adjusted Reference:	Imported
E2 Other lintels (including other steel lintels)	Independently assessed	6.70	0.30	0.30	No
E3 Sill	Independently assessed	6.70	0.04	0.04	No
E4 Jamb	Independently assessed	17.40	0.04	0.04	No
E7 Party floor between dwellings (in blocks of flats)	Independently assessed	35.80	0.07	0.07	No
E16 Corner (normal)	Independently assessed	10.80	0.09	0.09	No
E17 Corner (inverted – internal area greater than external area)	Independently assessed	2.70	-0.09	-0.09	No
E18 Party wall between dwellings	Independently assessed	5.40	0.06	0.06	No
P1 Party wall - Ground floor	Independently assessed	3.30	0.16	0.16	No
E5 Ground floor (normal)	Independently assessed	35.80	0.16	0.16	No

Y-value 0.07 W/m²K

18.0 Pressure Testing

Yes

Designed AP₅₀ 3.00 m³/(h.m²) @ 50 Pa

Test Method Blower Door

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present Yes

Mechanical Ventilation data Type Data Sheet

Type Balanced mechanical ventilation (no heat recovery)

Manufacturer SFP 0.60

Duct Type Rigid

Wet Rooms 2

Brand, Model tbc

SFP from Installer Commissioning Certificate No

20.0 Fans, Open Fireplaces, Flues

21.0 Fixed Cooling System

No

22.0 Lighting

No Fixed Lighting No

Name	Efficacy	Power	Capacity	Count
Lighting 1	90.00	9	810	20

24.0 Main Heating 1

Database

Percentage of Heat 100.00 %

Database Ref. No. 104528

Fuel Type Electricity

In Winter 0.00

In Summer 0.00

Model Name F730

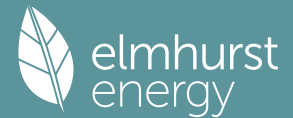
Manufacturer NIBE Energy Systems Ltd

System Type Heat Pump

Controls SAP Code 2207

Is MHS Pumped Pump in heated space

Summary for Input Data



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

25.0 Main Heating 2

26.0 Heat Networks
Space Community Heating

Heat Source	Fuel Type	Heating Use	Efficiency	Percentage Of Heat	Heat	Heat Power Ratio	Electrical	Fuel Factor	Efficiency type
Heat source 1									
Heat source 2									
Heat source 3									
Heat source 4									
Heat source 5									

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	No
Cold Water Source	From mains
Bath Count	2
Immersion Only Heating Hot Water	No

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
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28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

Internal Store	
Insulation Type	Measured Loss
Cylinder Volume	180.00 L
Loss	2.02 kWh/day
In Airing Cupboard	No

34.0 Small-scale Hydro

None											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Recommendations

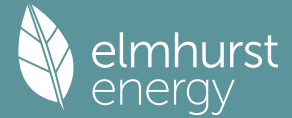
Lower cost measures

None

Further measures to achieve even higher standards

Typical Cost	Typical savings per year	Ratings after improvement SAP rating	Environmental Impact
		0	0
		0	0
		0	0

Summary for Input Data



Property Reference	Flat Five	Issued on Date	14/12/2022
Assessment Reference	Flat Five	Prop Type Ref	Flat Five
Property	Parkside Road, 18, Parkside Road, Reading, Reading, RG302DB		

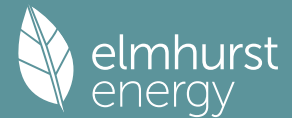
SAP Rating	76 C	DER	6.29	TER	13.16
Environmental	95 A	% DER < TER			52.20
CO ₂ Emissions (t/year)	0.38	DFEE	36.90	TFEE	34.35
Compliance Check	See BREL	% DFEE < TFEE			-7.41
% DPER < TPER	5.12	DPER	65.93	TPER	69.48

Assessor Details	Miss Jessica James	Assessor ID	R564-0001
Client			

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

Orientation	West									
Property Tenure	ND									
Transaction Type	6									
Terrain Type	Urban									
1.0 Property Type	Flat, Mid-Terrace									
Position of Flat	Mid-floor flat									
Which Floor	1									
2.0 Number of Storeys	1									
3.0 Date Built	2024									
4.0 Sheltered Sides	0									
5.0 Sunlight/Shade	Average or unknown									
6.0 Thermal Mass Parameter	Enter TMP value									
Thermal Mass	100.00									kJ/m²K
7.0 Electricity Tariff	Standard									
Smart electricity meter fitted	No									
Smart gas meter fitted	No									
7.0 Measurements										
	Ground floor:	Heat Loss Perimeter	Internal Floor Area	Average Storey Height						
		27.10 m	64.30 m²	2.50 m						
8.0 Living Area	23.00									m²
9.0 External Walls										
Description	Type	Construction	U-Value (W/m²K)	Kappa (kJ/m²K)	Gross Area (m²)	Nett Area (m²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall	Cavity Wall	Other	0.15		35.25	26.66	0.00	None	8.59	Enter Gross Area
Wall to Corridor	Cavity Wall	Other	0.15		32.50	30.50	0.70	Stairwell Access Corridor 3	2.00	Enter Gross Area
9.1 Party Walls										
Description	Type	Construction	U-Value (W/m²K)	Kappa (kJ/m²K)	Area (m²)	Shelter Res	Shelter			
Party Wall 1	Solid Wall	Other	0.00		8.91		None			
10.1 Party Ceilings										
Description	Construction	Kappa (kJ/m²K)	Area (m²)							
Party Ceiling 1	Other	0.00	64.30							
11.0 Heat Loss Floors										
Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)		
Exposed Floor	Ground Floor - Solid	Lowest occupied	Other	0.15	None	0.00	0.00	48.20		
11.1 Party Floors										
Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)						
Party Floor 1	Lowest occupied	Other	0.00	70.70						
12.0 Opening Types										

Summary for Input Data



Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Window	Manufacturer	Window	Triple glazed			0.40		0.80	1.20
Door	Manufacturer	Solid Door							1.40

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Window	Window	External Wall	West	5.75	
Opening	Window	External Wall	North	1.96	
Opening	Window	External Wall	South	0.88	
Door	Door	Wall to Corridor	North	2.00	

14.0 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	Source Type	Length	Psi	Adjusted Reference:	Imported
E2 Other lintels (including other steel lintels)	Independently assessed	5.70	0.30	0.30	No
E3 Sill	Independently assessed	5.70	0.04	0.04	No
E4 Jamb	Independently assessed	13.60	0.04	0.04	No
E7 Party floor between dwellings (in blocks of flats)	Independently assessed	35.80	0.07	0.07	No
E16 Corner (normal)	Independently assessed	10.00	0.09	0.09	No
E17 Corner (inverted – internal area greater than external area)	Independently assessed	5.00	-0.09	-0.09	No
E7 Party floor between dwellings (in blocks of flats)	Independently assessed	40.10	0.16	0.16	No

Y-value

0.10

W/m²K

18.0 Pressure Testing

Yes

Designed AP₅₀

3.00

m³/(h.m²) @ 50 Pa

Test Method

Blower Door

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present

Yes

Mechanical Ventilation data Type

Data Sheet

Type

Balanced mechanical ventilation (no heat recovery)

Manufacturer SFP

0.60

Duct Type

Rigid

Wet Rooms

2

Brand, Model

tbc

SFP from Installer Commissioning Certificate

No

20.0 Fans, Open Fireplaces, Flues

21.0 Fixed Cooling System

No

22.0 Lighting

No Fixed Lighting

No

Name	Efficacy	Power	Capacity	Count
Lighting 1	90.00	9	810	20

24.0 Main Heating 1

Database

Percentage of Heat

100.00

 %

Database Ref. No.

104528

Fuel Type

Electricity

In Winter

0.00

In Summer

0.00

Model Name

F730

Manufacturer

NIBE Energy Systems Ltd

System Type

Heat Pump

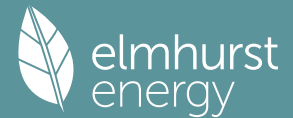
Controls SAP Code

2207

Is MHS Pumped

Pump in heated space

Summary for Input Data



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

25.0 Main Heating 2

26.0 Heat Networks
Space Community Heating

Heat Source	Fuel Type	Heating Use	Efficiency	Percentage Of Heat	Heat	Heat Power Ratio	Electrical	Fuel Factor	Efficiency type
Heat source 1									
Heat source 2									
Heat source 3									
Heat source 4									
Heat source 5									

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	No
Cold Water Source	From mains
Bath Count	2
Immersion Only Heating Hot Water	No

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
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28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

Internal Store	
Insulation Type	Measured Loss
Cylinder Volume	180.00 L
Loss	2.02 kWh/day
In Airing Cupboard	No

34.0 Small-scale Hydro

None											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

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
		0	0
		0	0
		0	0