

# Summary for Input Data

|                      |          |                |               |
|----------------------|----------|----------------|---------------|
| Property Reference   | Plot 13  | Issued on Date | 22/01/2024    |
| Assessment Reference | 2B4P Apt | Prop Type Ref  | Benchill Road |
| Property             |          |                |               |

|                                    |          |               |       |      |       |
|------------------------------------|----------|---------------|-------|------|-------|
| SAP Rating                         | 92 A     | DER           | 1.61  | TER  | 10.92 |
| Environmental                      | 99 A     | % DER < TER   |       |      | 85.26 |
| CO <sub>2</sub> Emissions (t/year) | 0.11     | DFEE          | 29.08 | TFEE | 30.91 |
| Compliance Check                   | See BREL | % DFEE < TFEE |       |      | 5.92  |
| % DPER < TPER                      | 54.66    | DPER          | 25.89 | TPER | 57.10 |

|                  |                    |             |           |
|------------------|--------------------|-------------|-----------|
| Assessor Details | Mr. Steven Johnson | Assessor ID | Z708-0001 |
| Client           |                    |             |           |

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

|                                |                     |
|--------------------------------|---------------------|
| Orientation                    | Southeast           |
| Property Tenure                | 1                   |
| Transaction Type               | 6                   |
| Terrain Type                   | Urban               |
| 1.0 Property Type              | Flat, Mid-Terrace   |
| Position of Flat               | Ground-floor flat   |
| Which Floor                    | 0                   |
| 2.0 Number of Storeys          | 1                   |
| 3.0 Date Built                 | 2023                |
| 4.0 Sheltered Sides            | 2                   |
| 5.0 Sunlight/Shade             | Average or unknown  |
| 6.0 Thermal Mass Parameter     | Precise calculation |
| 7.0 Electricity Tariff         | Standard            |
| Smart electricity meter fitted | No                  |
| Smart gas meter fitted         | No                  |

|                  |               |                     |                      |                       |
|------------------|---------------|---------------------|----------------------|-----------------------|
| 7.0 Measurements |               | Heat Loss Perimeter | Internal Floor Area  | Average Storey Height |
|                  | Ground floor: | 15.40 m             | 69.68 m <sup>2</sup> | 2.77 m                |

|                 |       |                |
|-----------------|-------|----------------|
| 8.0 Living Area | 15.17 | m <sup>2</sup> |
|-----------------|-------|----------------|

| Description     | Type         | Construction | U-Value (W/m <sup>2</sup> K) | Kappa (kJ/m <sup>2</sup> K) | Gross Area(m <sup>2</sup> ) | Nett Area (m <sup>2</sup> ) | Shelter Res | Shelter | Openings | Area Calculation Type |
|-----------------|--------------|--------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|---------|----------|-----------------------|
| External Wall 1 | Timber Frame | Other        | 0.16                         | 0.00                        | 42.66                       | 33.36                       | 0.00        | None    | 9.30     | Calculate Wall Area   |

| Description  | Type       | Construction                                                  | U-Value (W/m <sup>2</sup> K) | Kappa (kJ/m <sup>2</sup> K) | Area (m <sup>2</sup> ) | Shelter Res | Shelter |
|--------------|------------|---------------------------------------------------------------|------------------------------|-----------------------------|------------------------|-------------|---------|
| Party Wall 1 | Solid Wall | Dense plaster both sides, dense blocks, cavity or cavity fill | 0.00                         | 180.00                      | 55.92                  |             | None    |

| Description     | Construction | Kappa (kJ/m <sup>2</sup> K) | Area (m <sup>2</sup> ) |
|-----------------|--------------|-----------------------------|------------------------|
| Internal Wall 1 | Other        | 75.00                       | 30.00                  |

| Description     | Construction                                    | Kappa (kJ/m <sup>2</sup> K) | Area (m <sup>2</sup> ) |
|-----------------|-------------------------------------------------|-----------------------------|------------------------|
| Party Ceiling 1 | Precast concrete planks floor, screed, carpeted | 30.00                       | 69.68                  |

| Description      | Type                 | Storey Index    | Construction | U-Value (W/m <sup>2</sup> K) | Shelter Code | Shelter Factor | Kappa (kJ/m <sup>2</sup> K) | Area (m <sup>2</sup> ) |
|------------------|----------------------|-----------------|--------------|------------------------------|--------------|----------------|-----------------------------|------------------------|
| Heatloss Floor 1 | Ground Floor - Solid | Lowest occupied | Other        | 0.11                         | None         | 0.00           | 0.00                        | 69.68                  |

| Description | Data Source | Type | Glazing | Glazing Gap | Filling Type | G-value | Frame Type | Frame Factor | U Value (W/m <sup>2</sup> K) |
|-------------|-------------|------|---------|-------------|--------------|---------|------------|--------------|------------------------------|
|-------------|-------------|------|---------|-------------|--------------|---------|------------|--------------|------------------------------|

# Summary for Input Data

|        |                           |            |               |      |      |
|--------|---------------------------|------------|---------------|------|------|
| Window | BFRC, BSI or CERTASS data | Window     | Double glazed | 0.40 | 1.40 |
| Door   | Manufacturer              | Solid Door |               |      | 1.00 |

## 13.0 Openings

| Name    | Opening Type | Location        | Orientation | Area (m²) | Pitch |
|---------|--------------|-----------------|-------------|-----------|-------|
| Opening | Window       | External Wall 1 | South East  | 3.78      |       |
| Opening | Window       | External Wall 1 | North West  | 3.38      |       |
| Opening | Door         | External Wall 1 | South East  | 2.14      |       |

## 14.0 Conservatory

## 15.0 Draught Proofing

 %

## 16.0 Draught Lobby

## 17.0 Thermal Bridging

## 17.1 List of Bridges

| Bridge Type                                                               | Source Type | Length | Psi | Adjusted Reference: | Imported |
|---------------------------------------------------------------------------|-------------|--------|-----|---------------------|----------|
| E2 Other lintels (including other steel lintels)                          |             | 7.47   |     |                     | No       |
| E3 Sill                                                                   |             | 6.45   |     |                     | No       |
| E4 Jamb                                                                   |             | 15.00  |     |                     | No       |
| E5 Ground floor (normal)                                                  |             | 15.40  |     |                     | No       |
| E16 Corner (normal)                                                       |             | 5.55   |     |                     | No       |
| E7 Party floor between dwellings (in blocks of flats)                     |             | 15.40  |     |                     | No       |
| E17 Corner (inverted – internal area greater than external area)          |             | 2.78   |     |                     | No       |
| E18 Party wall between dwellings                                          |             | 5.55   |     |                     | No       |
| P1 Party wall - Ground floor                                              |             | 20.15  |     |                     | No       |
| P3 Party wall - Intermediate floor between dwellings (in blocks of flats) |             | 20.15  |     |                     | No       |

Y-value  W/m²K

Description

## 18.0 Pressure Testing

Designed AP<sub>50</sub>  m³/(h.m²) @ 50 Pa

Test Method

## 19.0 Mechanical Ventilation

### Mechanical Ventilation

|                                              |                                                                                 |
|----------------------------------------------|---------------------------------------------------------------------------------|
| Mechanical Ventilation System Present        | <input type="text" value="Yes"/>                                                |
| Approved Installation                        | <input type="text" value="No"/>                                                 |
| Mechanical Ventilation data Type             | <input type="text" value="Database"/>                                           |
| Type                                         | <input type="text" value="Balanced mechanical ventilation with heat recovery"/> |
| MV Reference Number                          | <input type="text" value="500484"/>                                             |
| Manufacturer SFP                             | <input type="text" value="0.62"/>                                               |
| Duct Type                                    | <input type="text" value="Rigid"/>                                              |
| MVHR Efficiency                              | <input type="text" value="87.00"/>                                              |
| Wet Rooms                                    | <input type="text" value="2"/>                                                  |
| SFP from Installer Commissioning Certificate | <input type="text" value="No"/>                                                 |
| MVHR System Location                         | <input type="text" value="Inside heated envelope (installed exclusively)"/>     |
| Duct Installation Specification              | <input type="text" value="Level 2"/>                                            |

## 20.0 Fans, Open Fireplaces, Flues

## 21.0 Fixed Cooling System

## 22.0 Lighting

No Fixed Lighting

| Name       | Efficacy | Power | Capacity | Count |
|------------|----------|-------|----------|-------|
| Lighting 1 | 75.00    | 4     | 300      | 10    |

## 24.0 Main Heating 1

Percentage of Heat  %

Fuel Type

SAP Code

In Winter

# Summary for Input Data

|                   |        |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|--------|--|--|--|--|--|--|--|--|--|--|--|
| In Summer         | 337.71 |  |  |  |  |  |  |  |  |  |  |  |
| Controls SAP Code | 2705   |  |  |  |  |  |  |  |  |  |  |  |

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|                            |               |  |  |  |  |  |  |  |  |  |  |   |
|----------------------------|---------------|--|--|--|--|--|--|--|--|--|--|---|
| <b>25.0 Main Heating 2</b> | Database      |  |  |  |  |  |  |  |  |  |  |   |
| Percentage of Heat         | 0.00          |  |  |  |  |  |  |  |  |  |  | % |
| Database Ref. No.          | 190006        |  |  |  |  |  |  |  |  |  |  |   |
| Fuel Type                  | Electricity   |  |  |  |  |  |  |  |  |  |  |   |
| In Winter                  | 0.00          |  |  |  |  |  |  |  |  |  |  |   |
| In Summer                  | 337.71        |  |  |  |  |  |  |  |  |  |  |   |
| Model Name                 | EDL200UK-630  |  |  |  |  |  |  |  |  |  |  |   |
| Manufacturer               | GDC Group Ltd |  |  |  |  |  |  |  |  |  |  |   |
| Controls                   | 2100          |  |  |  |  |  |  |  |  |  |  |   |

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|                           |      |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------|------|--|--|--|--|--|--|--|--|--|--|--|
| <b>26.0 Heat Networks</b> | None |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------|------|--|--|--|--|--|--|--|--|--|--|--|

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|                                                  |                |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------------------|----------------|--|--|--|--|--|--|--|--|--|--|--|
| <b>28.0 Water Heating</b>                        | Main Heating 2 |  |  |  |  |  |  |  |  |  |  |  |
| SAP Code                                         | 914            |  |  |  |  |  |  |  |  |  |  |  |
| Flue Gas Heat Recovery System                    | No             |  |  |  |  |  |  |  |  |  |  |  |
| Waste Water Heat Recovery Instantaneous System 1 | Yes            |  |  |  |  |  |  |  |  |  |  |  |
| 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            |  |  |  |  |  |  |  |  |  |  |  |
| Cold Water Source                                | From mains     |  |  |  |  |  |  |  |  |  |  |  |
| Bath Count                                       | 1              |  |  |  |  |  |  |  |  |  |  |  |
| Immersion Only Heating Hot Water                 | No             |  |  |  |  |  |  |  |  |  |  |  |

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|---------------------|--------------------|--------------------------|-------------------------|------------------|---------------------|--|--|--|--|--|--|--|
| <b>28.1 Showers</b> |                    |                          |                         |                  |                     |  |  |  |  |  |  |  |
| <b>Description</b>  | <b>Shower Type</b> | <b>Flow Rate [l/min]</b> | <b>Rated Power [kW]</b> | <b>Connected</b> | <b>Connected To</b> |  |  |  |  |  |  |  |

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|                                                                     |                                                                 |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------------------------------------------|-----------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| <b>28.3 Waste Water Heat Recovery System Instantaneous System 1</b> | 80137                                                           |  |  |  |  |  |  |  |  |  |  |  |
| Database ID                                                         | RECOUP, Easyfit+                                                |  |  |  |  |  |  |  |  |  |  |  |
| Brand Model                                                         | Year: 2017 + current Efficiency: 43.6 Utilisation factor: 0.972 |  |  |  |  |  |  |  |  |  |  |  |
| Details                                                             |                                                                 |  |  |  |  |  |  |  |  |  |  |  |

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|                                |                |  |  |  |  |  |  |  |  |  |  |         |
|--------------------------------|----------------|--|--|--|--|--|--|--|--|--|--|---------|
| <b>29.0 Hot Water Cylinder</b> | Internal Store |  |  |  |  |  |  |  |  |  |  |         |
| Insulation Type                | Measured Loss  |  |  |  |  |  |  |  |  |  |  |         |
| Cylinder Volume                | 201.00         |  |  |  |  |  |  |  |  |  |  | L       |
| Loss                           | 1.61           |  |  |  |  |  |  |  |  |  |  | kWh/day |
| In Airing Cupboard             | No             |  |  |  |  |  |  |  |  |  |  |         |

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|                               |              |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------------|--------------|--|--|--|--|--|--|--|--|--|--|--|
| <b>32.0 Photovoltaic Unit</b> | One Dwelling |  |  |  |  |  |  |  |  |  |  |  |
| Export Capable Meter?         | Yes          |  |  |  |  |  |  |  |  |  |  |  |
| Connected To Dwelling         | Yes          |  |  |  |  |  |  |  |  |  |  |  |
| Diverter                      | No           |  |  |  |  |  |  |  |  |  |  |  |
| Battery Capacity [kWh]        | 0.00         |  |  |  |  |  |  |  |  |  |  |  |

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|                     |                    |                  |                    |              |                        |                           |                                  |                           |
|---------------------|--------------------|------------------|--------------------|--------------|------------------------|---------------------------|----------------------------------|---------------------------|
| <b>PV Cells kWp</b> | <b>Orientation</b> | <b>Elevation</b> | <b>Overshading</b> | <b>FGHRS</b> | <b>MCS Certificate</b> | <b>Overshading Factor</b> | <b>MCS Certificate Reference</b> | <b>Panel Manufacturer</b> |
| 2.00                | South West         | 30°              | None Or Little     |              | No                     | 1.00                      |                                  |                           |

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|                               |            |            |            |            |            |            |            |            |            |            |            |  |
|-------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
| <b>34.0 Small-scale Hydro</b> | None       |            |            |            |            |            |            |            |            |            |            |  |
| <b>Jan</b>                    | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>Jun</b> | <b>Jul</b> | <b>Aug</b> | <b>Sep</b> | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> |  |

Recommendations

# Summary for Input Data



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                    |