# Summary for Input Data

| | | | |
|---|---|---|---|
| Property Reference | P22691(3) Mount P | Issued on Date | 13/06/2025 |
| Assessment Reference | As Built | Prop Type Ref | |
| Property | 42, Mount Pleasant, Reading, RG1 2TD | | |

| | | | | | |
|---|---|---|---|---|---|
| SAP Rating | 90 B | DER | 9.64 | TER | 12.26 |
| Environmental | 92 A | % DER < TER | | | 21.37 |
| $CO_2$ Emissions (t/year) | 0.63 | DFEE | 34.00 | TFEE | 35.73 |
| Compliance Check | See BREL | % DFEE < TFEE | | | 4.85 |
| % DPER < TPER | 13.77 | DPER | 55.38 | TPER | 64.23 |

| | | | |
|---|---|---|---|
| Assessor Details | Mr. Malcolm Lisle | Assessor ID | P736-0001 |
| Client | JZ, Jay Zaman | | |

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

| | | |
|---|---|---|
| **Orientation** | South | |
| **Property Tenture** | ND | |
| **Transaction Type** | 6 | |
| **Terrain Type** | Suburban | |
| **1.0 Property Type** | House, Mid-Terrace | |
| **2.0 Number of Storeys** | 3 | |
| **3.0 Date Built** | 2023 | |
| **4.0 Sheltered Sides** | 2 | |
| **5.0 Sunlight/Shade** | Average or unknown | |
| **6.0 Thermal Mass Parameter** | Precise calculation | |
| Thermal Mass | 175.08 | kJ/m²K |
| **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:** | 15.80 m | 29.56 m² | 2.50 m |
| **1st Storey:** | 15.80 m | 31.08 m² | 2.80 m |
| **2nd Storey:** | 12.20 m | 17.76 m² | 2.90 m |

**8.0 Living Area** 27.56 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 | Timber Frame | Timber framed wall (one layer of plasterboard) | 0.13 | 9.00 | 62.68 | 42.31 | 0.00 | None | 20.37 | 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 | Filled Cavity with Edge Sealing | Single plasterboard on both sides, dense cellular blocks, cavity | 0.00 | 70.00 | 108.24 | | None |

**9.2 Internal Walls**

| Description | Construction | Kappa (kJ/m²K) | Area (m²) |
|---|---|---|---|
| Internal Walls - Timber | Plasterboard on timber frame | 9.00 | 105.30 |

**10.0 External Roofs**

| Description | Type | Construction | U-Value (W/m²K) | Kappa (kJ/m²K) | Gross Area(m²) | Nett Area (m²) | Shelter Code | Shelter Factor | Calculation Type | Openings |
|---|---|---|---|---|---|---|---|---|---|---|
| External Roof - Sloping | External Slope Roof | Plasterboard, insulated slope | 0.18 | 9.00 | 23.18 | 19.12 | None | 0.00 | Enter Gross Area | 4.06 |
| External Roof - Flat Roof | External Flat Roof | Plasterboard, insulated flat roof | 0.15 | 9.00 | 13.32 | 13.32 | None | 0.00 | Enter Gross Area | 0.00 |

**10.2 Internal Ceilings**

| Description | Storey | Construction | Area (m²) |
|---|---|---|---|
| Internal Ceiling - G Floor | Lowest occupied | Plasterboard ceiling, carpeted chipboard floor | 29.56 |
| Internal Ceiling - 1st Floor | +1 | Plasterboard ceiling, carpeted chipboard floor | 17.76 |

# Summary for Input Data

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### 11.0 Heat Loss Floors

| Description | Type | Storey Index | Construction | U-Value (W/m²K) | Shelter Code | Shelter Factor | Kappa (kJ/m²K) | Area (m²) |
|---|---|---|---|---|---|---|---|---|
| Ground Floor | Ground Floor - Solid | Lowest occupied | Slab on ground, screed over insulation | 0.13 | None | 0.00 | 110.00 | 29.56 |

### 11.2 Internal Floors

| Description | Storey Index | Construction | Kappa (kJ/m²K) | Area (m²) |
|---|---|---|---|---|
| Internal Floor - 1st Floor | | Plasterboard ceiling, carpeted chipboard floor | 9.00 | 29.56 |
| Internal Floor - 2nd Floor | | Plasterboard ceiling, carpeted chipboard floor | 9.00 | 17.76 |

### 12.0 Opening Types

| Description | Data Source | Type | Glazing | Glazing Gap | Filling Type | G-value | Frame Type | Frame Factor | U Value (W/m²K) |
|---|---|---|---|---|---|---|---|---|---|
| Windows/Doors | BFRC, BSI or CERTASS data | Window | Double Low-E Soft 0.05 | | | 0.63 | | | 1.50 |
| Rooflights | Manufacturer | Roof Window | Double Low-E Soft 0.05 | | | 1.00 | | 0.70 | 1.70 |

### 13.0 Openings

| Name | Opening Type | Location | Orientation | Area (m²) | Pitch |
|---|---|---|---|---|---|
| Windows | Windows/Doors | External Wall | North | 3.16 | |
| Windows | Windows/Doors | External Wall | South | 6.50 | |
| Glazed Doors | Windows/Doors | External Wall | North | 4.32 | |
| Glazed Doors | Windows/Doors | External Wall | South | 6.39 | |
| Rooflights | Rooflights | External Roof - Sloping | East | 4.06 | 40 |

| | | |
|---|---|---|
| **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 |
|---|---|---|---|---|---|
| E1 Steel lintel with perforated steel base plate | Independently assessed | 10.40 | 0.11 | 0.11 | No |
| E3 Sill | Independently assessed | 5.90 | 0.06 | 0.06 | No |
| E4 Jamb | Independently assessed | 37.60 | 0.05 | 0.05 | No |
| E5 Ground floor (normal) | Independently assessed | 8.20 | 0.05 | 0.05 | No |
| E6 Intermediate floor within a dwelling | Independently assessed | 14.80 | 0.13 | 0.13 | No |
| E13 Gable (insulation at rafter level) | Independently assessed | 9.60 | 0.06 | 0.06 | No |
| E15 Flat roof with parapet | Table K1 - Default | 3.70 | 0.30 | 0.30 | No |
| E16 Corner (normal) | Independently assessed | 2.50 | 0.03 | 0.03 | No |
| E18 Party wall between dwellings | Independently assessed | 2.50 | 0.03 | 0.03 | No |
| E25 Staggered party wall between dwellings | Independently assessed | 29.20 | 0.02 | 0.02 | No |
| P1 Party wall - Ground floor | Independently assessed | 15.20 | 0.05 | 0.05 | No |
| P2 Party wall - Intermediate floor within a dwelling | Table K1 - Default | 26.40 | 0.00 | 0.00 | No |
| P4 Party wall - Roof (insulation at ceiling level) | Independently assessed | 6.60 | 0.08 | 0.08 | No |
| P5 Party wall - Roof (insulation at rafter level) | Independently assessed | 9.60 | 0.07 | 0.07 | No |
| R1 Head of roof window | Independently assessed | 3.10 | 0.02 | 0.02 | No |
| R2 Sill of roof window | Independently assessed | 3.10 | 0.02 | 0.02 | No |
| R3 Jamb of roof window | Independently assessed | 4.80 | 0.02 | 0.02 | No |
| R4 Ridge (vaulted ceiling) | Independently assessed | 4.80 | 0.01 | 0.01 | No |
| E17 Corner (inverted – internal area greater than external area) | Independently assessed | 2.50 | -0.00 | -0.00 | No |
| E11 Eaves (insulation at rafter level) | Independently assessed | 4.80 | 0.05 | 0.05 | No |

| | | |
|---|---|---|
| Y-value | 0.08 | W/m²K |

### 19.0 Mechanical Ventilation

**Mechanical Ventilation**

| | |
|---|---|
| Mechanical Ventilation System Present | No |

### 20.0 Fans, Open Fireplaces, Flues

| | |
|---|---|
| Number of open chimneys | 0 |
| Number of open flues | 0 |
| Number of chimneys/flues attached to closed fire | 0 |
| Number of flues attached to solid fuel boiler | 0 |
| Number of flues attached to other heater | 0 |
| Number of blocked chimneys | 0 |
| Number of intermittent extract fans | 3 |
| Number of passive vents | 0 |
| Number of flueless gas fires | 0 |

| | |
|---|---|
| **21.0 Fixed Cooling System** | No |

# Summary for Input Data

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| | | |
|---|---|---|
| **22.0 Pressure Testing** | Yes | |
| Designed $AP_{50}$ | 5.50 | m³/(h.m²) @ 50 Pa |
| Property Tested? | Yes | |
| Test Method | Blower Door | |
| As Built $AP_{50}$ | 3.21 | m³/(h.m²) @ 50 Pa |

**22.0 Lighting**

| | |
|---|---|
| No Fixed Lighting | No |

| Name | Efficacy | Power | Capacity | Count |
|---|---|---|---|---|
| Lighting 1 | 91.67 | 12.00 | 1100.00 | 16 |

| | | |
|---|---|---|
| **24.0 Main Heating 1** | Database | |
| Description | Heat Pump | |
| Percentage of Heat | 100.00 | % |
| Database Ref. No. | 18763 | |
| Fuel Type | Mains gas | |
| In Winter | 89.00 | |
| In Summer | 87.30 | |
| Model Name | ATLANTIC COMBI | |
| Manufacturer | Ideal Boilers | |
| System Type | Combi boiler | |
| Controls SAP Code | 2110 | |
| Delayed Start Stat | No | |
| Flue Type | Balanced | |
| Fan Assisted Flue | Yes | |
| Is MHS Pumped | Pump in heated space | |
| Heating Pump Age | 2013 or later | |
| Heat Emitter | Radiators | |
| Flow Temperature | Unknown | |
| Boiler Interlock | Yes | |
| Combi boiler type | Standard Combi | |
| Combi keep hot type | None | |
| **25.0 Main Heating 2** | None | |
| **26.0 Heat Networks** | None | |
| **27.0 Secondary Heating** | 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 |
| Cold Water Source | From mains |
| Bath Count | 1 |

**28.1 Showers**

| Description | Shower Type | Flow Rate [l/min] | Rated Power [kW] | Connected | Connected To |
|---|---|---|---|---|---|
| Shower Above Bath | Instantaneous electric shower | | 9.30 | No | |

**28.3 Waste Water Heat Recovery System**

# Summary for Input Data

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| | |
|---|---|
| **29.0 Hot Water Cylinder** | None |
| In Airing Cupboard | No |

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

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

| | |
|---|---|
| **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 |
| | | B 90 | A 93 |
| | | 0 | 0 |
| | | 0 | 0 |