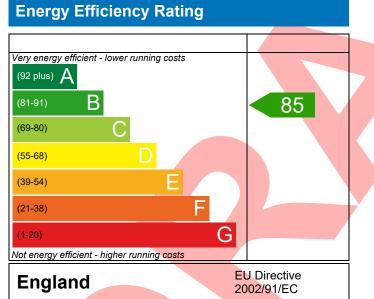


Burnet , Plot 116, 4 Bed, K, WC, B, ES Dwelling type: Date of assessment: Produced by: Total floor area:

House, Semi-Detached 24/10/2023 Jennifer Bantin 120.54 m²

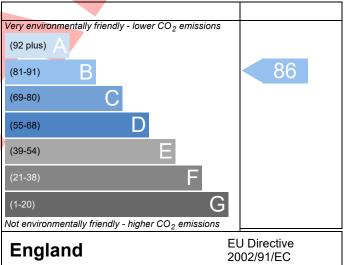
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance Certificate will be created for the property. This will include more detailed information about the energy performance of the completed property.

The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO_2) emissions.



The energy efficiency rating is a measure of the overall efficiency of a home. The higher the rating the more energy efficient the home is and the lower the fuel bills are likely to be.

Environmental Impact (CO₂) Rating



The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide (CO_2) emissions. The higher the rating the less impact it has on the environment.

This report has not been submitted through the Elmhurst Energy members' portal, therefore results are subject to change when the dwelling is completed.



Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.14r19

BUILDING REGULATION COMPLIANCE Calculation Type: New Build (As Designed)



| Assessment Reference | 116 | | | | | Burnet Semi AS | |
|---|--|------------|-------------|--|----------------|--|-----------|
| Property | Burnet , Plot 116, 4 | Bed, K, W | C, B, ES | | | | |
| SAP Rating | | | 85 B | DER | 15.78 | TER | 16.21 |
| Environmental | | | 86 B | % DER <ter< th=""><th></th><th>2.67</th><th></th></ter<> | | 2.67 | |
| CO ₂ Emissions (t/year) |) | | 1.57 | DFEE | 45.35 | TFEE | 50.46 |
| General Requirements | s Compliance | | Pass | % DFEE <tfee< td=""><td></td><td>10.12</td><td></td></tfee<> | | 10.12 | |
| | Irs. Jennifer Bantin, Je nnifer.bantin@aessc. | | tin, Tel: 0 | 1884242050, | | Assessor ID | AM89-0002 |
| Client | | | | | | | |
| JMARY FOR INPUT D | ATA FOR New Build (# | As Designe | ed) | | | | |
| riterion 1 – Achieving | the TER and TFEE rat | e | | | | | |
| a TER and DER | | | | | | | |
| Fuel for main heatin | ng | | Mains ga | as | | | |
| Fuel factor | | | 1.00 (ma | ains gas) | | | |
| Target Carbon Dioxi | ide Emission Rate (TEF | R) | 16.21 | | | kgCO ₂ /m ² | |
| Dwelling Carbon Dic | oxide Emission Rate (D | PER) | 15.78 | | | kgCO ₂ /m ² | Pass |
| | | | -0.43 (-2 | .7%) | | kgCO ₂ /m ² | |
| b TFEE and DFEE | | | | | | | |
| Target Fabric Energy | y Efficiency (TFEE) | | 50.46 | | | kWh/m²/yr | |
| Dwelling Fabric Ene | rgy Efficiency (DFEE) | | 45.35 | | | kWh/m²/yr | |
| | | | -5.2 (-10 | .3%) | | kWh/m²/yr | Pass |
| riterion 2 – Limits on | design flexibility | | | | | | |
| Limiting Fabric Stan | ndards | | | | | | |
| 2 Fabric U-values | | | | | | | |
| Element | | Average | | | Highest | | |
| External wall | | 0.25 (max | (. 0.30) | | 0.25 (max. 0.7 | 0) | Pass |
| Party wall | | 0.00 (max | . 0.20) | | - | | Pass |
| Floor | | 0.18 (max | . 0.25) | | 0.18 (max. 0.7 | 0) | Pass |
| Roof | | 0.17 (max | . 0.20) | | 0.17 (max. 0.3 | 5) | Pass |
| Root | | 1.34 (max | (. 2.00) | | 1.40 (max. 3.3 | 0) | Pass |
| Openings | | | | | | | |
| | g | | | | | | |
| Openings 2a Thermal bridging | g g calculated from lines | ar thermal | transmit | tances for each j | unction | | |
| Openings 2a Thermal bridging | | ar thermal | transmit | tances for each j | unction | | |
| Openings 2a Thermal bridging Thermal bridging 3 Air permeability | g calculated from lines | ar thermal | | | unction | m³/(h.m²) @ 50 Pa | |
| Openings <u>2a Thermal bridging</u> Thermal bridging | g calculated from lines | ar thermal | | tances for each j sign value) | unction | m³/(h.m²) @ 50 Pa m³/(h.m²) @ 50 Pa | |

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BUILDING REGULATION COMPLIANCE Calculation Type: New Build (As Designed)



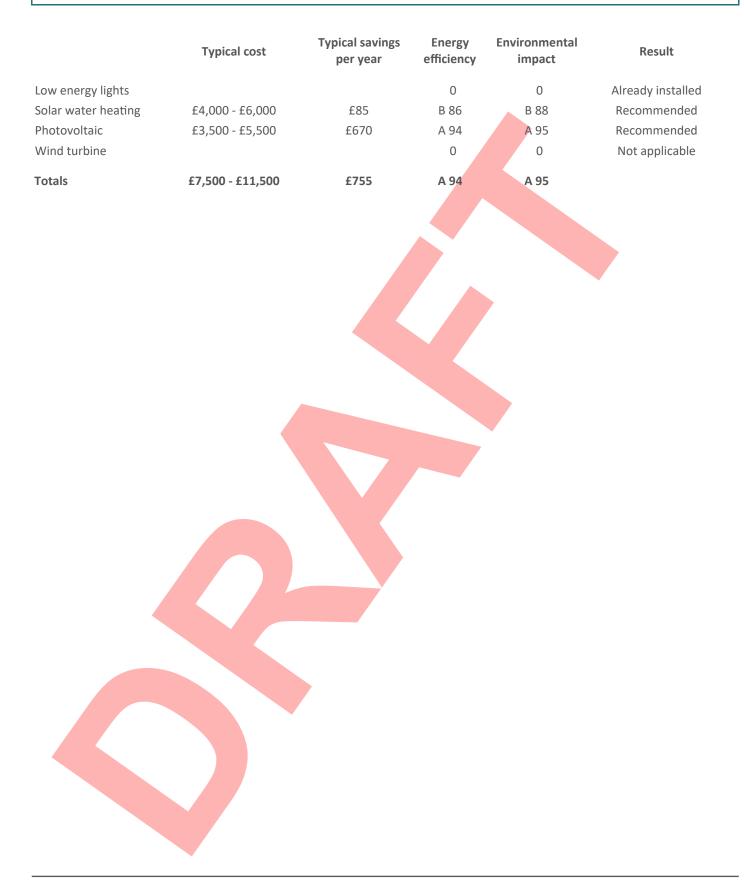
| | Detter such as with an distance in the Constant | |
|--|--|------|
| Main heating system | Boiler system with radiators or underfloor - Mains gas Data from database | Pass |
| | Ideal LOGIC COMBI ESP1 35 | |
| | Combi boiler | |
| | Efficiency: 89.6% SEDBUK2009 | |
| | Minimum: 88.0% | |
| Secondary heating system | None | |
| 5 Cylinder insulation | | |
| Hot water storage | No cylinder | |
| <u>6 Controls</u> | | |
| Space heating controls | Programmer, room thermostat and TRVs | Pass |
| Hot water controls | No cylinder | |
| Boiler interlock | Yes | Pass |
| 7 Low energy lights | | |
| Percentage of fixed lights with low-energy | 100 % | |
| fittings | | |
| Minimum | 75 % | Pass |
| 8 Mechanical ventilation | | |
| Continuous extract system (decentralised) | | |
| Specific fan power | 0.1700 0.1800 | |
| Maximum | 0.7 | Pass |
| Criterion 3 – Limiting the effects of heat gains in su | mmer | |
| 9 Summertime temperature | | |
| Overheating risk (Thames Valley) | Slight | Pass |
| Based on: | | |
| Overshading | Average | |
| Windows facing North East | 9.13 m ² , No overhang | |
| Windows facing South West | 6.25 m ² , No overhang | |
| Air change rate | 4.00 ach | |
| Blinds/curtains | None | |
| Criterion 4 – Building performance consistent with | DER and DFEE rate | |
| Party Walls | | |
| Туре | U-value | |
| Filled Cavity with Edge Sealing | 0.00 W/m²K | Pass |
| Air permeability and pressure testing | | |
| <u>3 Air permeability</u> | | |
| Air permeability at 50 pascals | 5.01 (design value) m ³ /(h.m ²) @ 50 Pa | 3 |
| Maximum | 10.0 m³/(h.m²) @ 50 Pa | Pass |
| 10 Key features | | |
| Party wall U-value | 0.00 W/m ² K | |
| Door U-value | 0.90 W/m²K | |
| Window U-value | 0.90 W/m²K | |
| Thermal bridging y-value | 0.034 W/m²K | |

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RECOMMENDATIONS





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