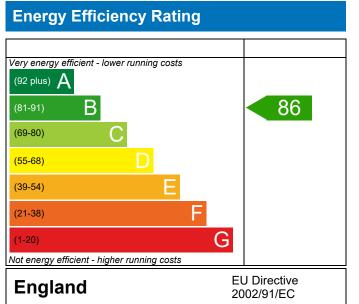


Blk B Plot 4, St Michael's Road, Croydon, CR0 1UA Dwelling type:FlatDate of assessment:30/2Produced by:JamTotal floor area:91.2DRRN:227

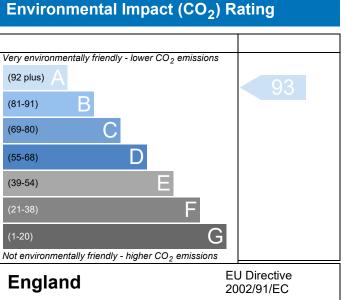
Flat, Mid-Terrace 30/11/2020 James Darby 91.11 m² 2270-5896-0921

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.



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 been produced by an accredited Elmhurst member whose work is subject to quality assurance audits. The data used to produce the report has been verified by the Elmhurst members' portal.





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



| Property Reference | 20LSSM0133 Issued on Date 30/11/ | | | | | | 30/11/2020 | | |
|----------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------|-------------------------|----------------------------------------------------------|-----------------------------------|-----------|------------|--|--|
| Assessment | PEA v2, Nov 2020 | | | | | | | | |
| Reference | | | | | | | | | |
| Property | Blk B Plot 4, St Mic | hael's Ro | ad, Croydon | , CRO 1UA | | | | | |
| SAP Rating | | | 86 B | DER | 8.49 | TER | 14.13 | | |
| Environmental | | | 93 A | 93 A % DER <ter< th=""><th colspan="2">39.93</th></ter<> | | | 39.93 | | |
| CO ₂ Emissions (t/year) | | | 0.66 | DFEE 39.33 | | TFEE | 38.66 | | |
| General Requirements Compliance | | | Fail | Fail % DFEE <tfee< th=""><th></th></tfee<> | | | | | |
| Assessor Details | Ar. James Darby, James Darby, Tel: 07546245946, jd@hilsdonholmes.co.uk Assessor ID W966-0001 | | | | | | | | |
| Client London Square, LS | | | | | | | | | |
| SUMARY FOR INPUT | DATA FOR New Build | (As Desig | ned) | | | | | | |
| Criterion 1 – Achievi | ng the TER and TFEE ra | ite | | | | | | | |
| 1a TER and DER | - | | | | | | | | |
| Fuel for main hea | iting | | Mains ga | Mains gas (c) | | | | | |
| Fuel factor | 0 | | 1.00 (ma | | | | | | |
| Target Carbon Die | oxide Emission Rate (TE | ER) | 14.13 | | | | | | |
| Dwelling Carbon | Dioxide Emission Rate | (DER) | 8.49 | | | | Pass | | |
| | | | -5.64 (-3 | 9.9%) | kgCO ₂ /m ² | | | | |
| 1b TFEE and DFEE | | | | | | | | | |
| Target Fabric Energy Efficiency (TFEE) | | 38.66 | 38.66 | | | | | | |
| Dwelling Fabric E | nergy Efficiency (DFEE) | | 39.33 | | kWh/m²/yr | | | | |
| Excess energy | | | 0.6 (1.6%) | | | kWh/m²/yr | Fail | | |
| Criterion 2 – Limits o | on design flexibility | | | | | | | | |
| Limiting Fabric St | andards | | | | | | | | |
| 2 Fabric U-values | <u>i</u> | | | | | | | | |
| Element | | Average | e | Highest | | | | | |
| External w | all 0.17 (ma | | ax. 0.30) | x. 0.30) 0.17 (max. 0.70) | | | Pass | | |
| Party wall | | 0.00 (m | ax. 0.20) | x. 0.20) - | | | Pass | | |
| Openings | | 1.38 (m | ax. 2.00) | x. 2.00) 1.40 (max. 3.30) | | | Pass | | |
| 2a Thermal bridg | ing | | | | | | | | |
| Thermal bridg | ing calculated from line | ear therm | al transmitt | ances for each ju | nction | | | | |
| <u>3 Air permeabilit</u> | ¥ | | | | | | | | |
| Air permeability at 50 pascals | | 5.00 (des | sign value) | m³/(h.m²) @ 50 Pa | | | | | |
| Maximum | | | 10.0 | 10.0 n | | | Pass | | |
| Limiting System I | Efficiencies | | | | | | | | |
| 4 Heating efficier | ncy | | | | | | | | |
| Main heating system | | Commur | - | | | | | | |
| Secondary heating system | | | None | | | | | | |
| 5 Cylinder insulation | | | | | | | | | |
| Hot water storage | | Nominal cylinder loss: 0.12 kWh/day | | | | | | | |
| | | | Permitted by DBSCG 0.32 | | | | | | |

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



| Primary pipework insulated | No primary pipework | |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------|
| <u>6 Controls</u> | | |
| Space heating controls | Charging system linked to use of community heating, programmer and TRVs | Pass |
| Hot water controls | No cylinderstat | |
| 7 Low energy lights | | |
| Percentage of fixed lights with low-energy fittings | 100 % | |
| Minimum | 75 % | Pass |
| 8 Mechanical ventilation | | |
| Continuous extract system | | |
| Specific fan power | 0.17 | |
| Maximum | 0.7 | Pass |
| Criterion 3 – Limiting the effects of heat gains in su | mmer | |
| <u>9 Summertime temperature</u> | | |
| Overheating risk (Thames Valley) | Slight | Pass |
| Based on: | | |
| Overshading | Average | |
| Windows facing South | 17.01 m ² , No overhang | |
| Windows facing West | 14.76 m ² , No overhang | |
| Air change rate | 6.00 ach | |
| Blinds/curtains | None | |
| $\label{eq:criterion} \mbox{ Criterion 4-Building performance consistent with }$ | DER and DFEE rate | |
| Party Walls | | |
| Туре | U-value | |
| Filled Cavity with Edge Sealing | 0.00 W/m²K | Pass |
| Air permeability and pressure testing | | |
| 3 Air permeability | | |
| Air permeability at 50 pascals | 5.00 (design value) m ³ /(h.m ²) @ 50 F | Ра |
| Maximum | 10.0 m³/(h.m²) @ 50 F | Pa Pass |
| <u>10 Key features</u> | | |
| Party wall U-value | 0.00 W/m²K | |
| Door U-value | 1.00 W/m²K | |
| Community CHP, Mains gas | N/A | |
| Photovoltaic array | 0.06 kW | |
| | | |

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RECOMMENDATIONS



| | Typical cost | Typical savings per year | Energy efficiency | Environmental impact | Result |
|---------------------|--------------|--------------------------|----------------------|-------------------------|-------------------|
| Low energy lights | | | 0 | 0 | Already installed |
| Solar water heating | | | 0 | 0 | Not applicable |
| Photovoltaic | | | 0 | 0 | Not applicable |
| Wind turbine | | | 0 | 0 | Not applicable |
| Totals | £0 | £0 | B 86 | A 93 | |

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