

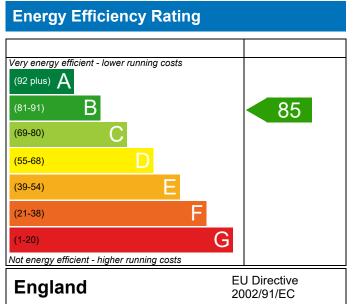
Blk B Plot 69, St Michael's Road, Croydon, **CR0 1UA**

Dwelling type: Date of assessment: Produced by: Total floor area: DRRN:

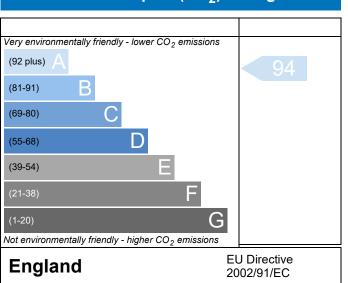
Flat, Mid-Terrace 04/08/2020 James Darby 51.16 m² 0734-2508-0304

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 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.

Page 1 of 4





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



Property Reference	20	20LSSMB069 Issued on Date 04/08/202						04/08/2020		
Assessment	PE	PEA Prop Type Ref Plot B-069								
Reference		Blk B Plot 69, St Michael's Road, Croydon, CR0 1UA								
Property	BI	K B Plot 69, St Mic	nael's R	oad, Croydo	on, CRU 1UA					
SAP Rating				85 B	DER	9.6	8	TER	17.02	
Environmental				94 A	% DER <ter< td=""><td></td><td></td><td>-</td></ter<>			-		
CO ₂ Emissions (t/year)				0.42	DFEE	40.0	4	TFEE	39.72	
General Requirements Compliance				Fail	% DFEE <tfee< td=""><td></td><td colspan="3">-0.81</td></tfee<>		-0.81			
Assessor Details		aniel Hilsdon, Hilso sdon@btinternet.		mes Limited	l, Tel: 01579 38	579 382202, Assessor ID W96				
Client	Londo	n Square, LS	, LS							
SUMARY FOR INPUT DATA FOR New Build (As Designed)										
Criterion 1 – Achievi	ng the	TER and TFEE rate	2							
1a TER and DER										
Fuel for main heating				Mains gas (c)						
Fuel factor				1.00 (ma	ins gas)					
Target Carbon Dioxide Emission Rate (TER))	17.02	17.02			kgCO ₂ /m ²		
Dwelling Carbon Dioxide Emission Rate (DER)			ER)	9.68				kgCO₂/m²	Pass	
				-7.34 (-43.1%)			kgCO ₂ /m ²			
<u>1b TFEE and DFEE</u>				20.72						
Target Fabric Energy Efficiency (TFEE)				<u>39.72</u> 40.04				kWh/m²/yr kWh/m²/yr		
Dwelling Fabric Energy Efficiency (DFEE) Excess energy				0.3 (0.8%)				kWh/m²/yr	Fail	
Criterion 2 – Limits on design flexibility				0.5 (0.67					Tun	
Limiting Fabric St										
2 Fabric U-values										
Element	1		Averag	e		Highest				
External w			0	max. 0.30)		0.17 (max. 0.70)			Pass	
			max. 0.20)		-			Pass		
			1.35 (m	ax. 2.00)	1.40 (max. 3) (max. 3.30)				
<u>2a Thermal bridg</u>	ing									
Thermal bridg	ing cal	culated from linea	r therm	al transmitt	ances for each	junction				
<u>3 Air permeabilit</u>	У									
Air permeability at 50 pascals			5.00 (design value)			r	m³/(h.m²) @ 50 Pa	a		
Maximum				10.0	10.0			m³/(h.m²) @ 50 Pa	a Pass	
Limiting System E	fficien	cies								
4 Heating efficiency										
Main heating system				Community heating scheme				-		
Secondary heating system None										
5 Cylinder insulat	tion									

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Hot water storage	Nominal cylinder loss: 0.12 kWh/day Permitted by DBSCG 0.32	Pass
Primary pipework insulated	No primary pipework	
6 Controls		
Space heating controls	Charging system linked to use of community heat programmer and TRVs	ing, 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	0.16	
Maximum	0.7	Pass
Criterion 3 – Limiting the effects of heat gains in sun	nmer	
9 Summertime temperature		
Overheating risk (Thames Valley)	Slight	Pass
Based on:		
Overshading	Average	
Windows facing East Windows facing South	12.22 m ² , No overhang 3.38 m ² , Overhang twice as wide as window, ratio	1.60
Air change rate	4.00 ach	
Blinds/curtains	None	
Criterion 4 – Building performance consistent with I	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	5.00 (design value) m ³ /(h.m ²) @ 50 Pa
Maximum	10.0 m ³ /(h.m ²) @ 50 Pa Pass
10 Key features		
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	1

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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 85	A 94	

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