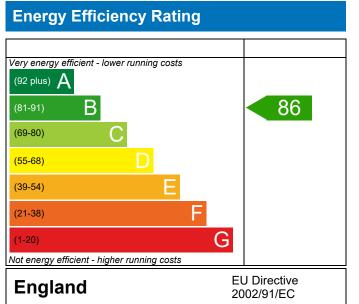


Blk B Plot 34, St Michael's Road, Croydon, CR0 1UA Dwelling type:FDate of assessment:04Produced by:JaTotal floor area:64DRRN:33

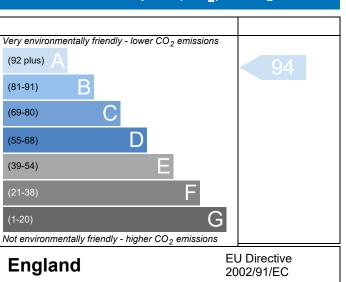
Flat, Mid-Terrace 04/08/2020 James Darby 68.85 m<sup>2</sup> 3254-2608-0204

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 (CO<sub>2</sub>) 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	20LSSMB034	20LSSMB034 Issued on Date 04/08/2						
Assessment	PEA		Prop Type Ref Plot B-034					
Reference								
Property	Blk B Plot 34, S	t Michael's	Road, Croydc	on, CR0 1UA				
SAP Rating			86 B	DER	8.68	TER	14.88	
Environmental			94 A	% DER <ter< td=""><td></td><td colspan="2">41.68</td></ter<>		41.68		
CO <sub>2</sub> Emissions (t/ye	ar)		0.51	DFEE	35.25	35.25 TFEE		
General Requirement	nts Compliance		Pass	% DFEE <tfee< td=""><td></td><td colspan="3">1.82</td></tfee<>		1.82		
Assessor Details	Mr. Daniel Hilsdon danhilsdon@btinte		Holmes Limited, Tel: 01579 382202, Assessor ID W96					
Client	London Square, LS							
SUMARY FOR INPUT	DATA FOR New Bu	ild (As Desi	gned)					
Criterion 1 – Achievi			<u> </u>					
1a TER and DER								
Fuel for main heating Mains gas (c)								
Fuel factor			1.00 (mains gas)					
Target Carbon Dioxide Emission Rate (TER)			14.88			kgCO <sub>2</sub> /m <sup>2</sup>		
Dwelling Carbon Dioxide Emission Rate (DER)			8.68			kgCO <sub>2</sub> /m <sup>2</sup>	Pass	
			-6.20 (-41.7%)			kgCO <sub>2</sub> /m <sup>2</sup>		
1b TFEE and DFEE								
Target Fabric Energy Efficiency (TFEE)			35.90			kWh/m²/yr		
Dwelling Fabric Energy Efficiency (DFEE)		EE)	35.25			kWh/m²/yr		
			-0.6 (-1.7	7%)		kWh/m²/yr	Pass	
Criterion 2 – Limits o	n design flexibility							
Limiting Fabric St	andards							
2 Fabric U-values								
Element		Avera	ge		Highest			
External w	all	0.17 (r	nax. 0.30) 0.17		0.17 (max. 0.70	7 (max. 0.70)		
Party wall 0.00 (		0.00 (1	max. 0.20)				Pass	
Openings 1.36 (		max. 2.00)		1.40 (max. 3.30	3.30) Pass			
<u>2a Thermal bridg</u>	ing							
Thermal bridg	ing calculated from	linear ther	mal transmitt	ances for each j	unction			
<u>3 Air permeabilit</u>	Y							
Air permeability at 50 pascals			5.00 (de	sign value)	m³/(h.m²) @ 50 Pa			
Maximum			10.0		m³/(h.m²) @ 50 Pa	Pass		
Limiting System E	fficiencies							
4 Heating efficien	icy							
Main heating system			Community heating scheme				-	
Secondary heating system None								
5 Cylinder insulat	ion							

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)



Hot water storage	Nominal cylinder loss: 0.12 kWh/day Permitted by DBSCG 0.32	Pass	
Primary pipework insulated	No primary pipework		
<u>6 Controls</u>			
Space heating controls	Charging system linked to use of con 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		
9 Summertime temperature			
Overheating risk (Thames Valley)	Slight		Pass
Based on:			
Overshading	Average		]
Windows facing East	6.35 m <sup>2</sup> , No overhang		]
Windows facing South	13.14 m <sup>2</sup> , No overhang		
Air change rate	6.00 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	5.00 (design value)	m³/(h.m²) @ 50 Pa	
Maximum	10.0	m³/(h.m²) @ 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	

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.





## 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 94	

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.



