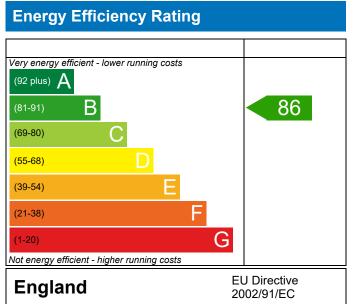


Blk B Plot 5, St Michael's Road, Croydon, CR0 1UA Dwelling type:FlaDate of assessment:04/Produced by:JarTotal floor area:69.DRRN:507

Flat, Mid-Terrace 04/08/2020 James Darby 69.44 m² 5072-3824-0073

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.

Very environmentally friendly - lower CO₂ emissions (92 plus) A (81-91) B (69-80) C (55-68) D (39-54) E (1-20) G Not environmentally friendly - higher CO₂ emissions Eu Directive 2002/91/EC

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.

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Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.12r02

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



Property Reference	20LSSMB005	20LSSMB005 Issued on Date 04/08/202						
Assessment	PEA		Prop Type Ref Plot B-005					
Reference								
Property	Blk B Plot 5, St Mi	chael's Ro	ad, Croydon	, CRO 1UA				
SAP Rating			86 B	DER	8.90	TER	15.28	
Environmental			93 A	% DER <ter< td=""><td></td><td>41.74</td><td></td></ter<>		41.74		
CO ₂ Emissions (t/year)			0.53	DFEE	37.15	TFEE	38.12	
General Requirements Compliance			Pass	% DFEE <tfee< th=""><th></th><th>2.53</th><th></th></tfee<>		2.53		
Assessor Details	Mr. Daniel Hilsdon, H danhilsdon@btintern		olmes Limited, Tel: 01579 382202, Assessor ID W966-0001					
Client	London Square, LS	ndon Square, LS						
SUMARY FOR INPUT	DATA FOR New Build	(As Desig	ned)					
Criterion 1 – Achievi	ng the TER and TFEE r	ate						
1a TER and DER								
Fuel for main heating			Mains gas (c)					
Fuel factor			1.00 (mains gas)					
Target Carbon Dioxide Emission Rate (TER)			15.28		kgCO ₂ /m ²			
Dwelling Carbon I	Dioxide Emission Rate	(DER)	8.90	8.90			Pass	
			-6.38 (-41.8%)			kgCO₂/m²		
<u>1b TFEE and DFEE</u>								
-	rgy Efficiency (TFEE)		38.12			kWh/m²/yr kWh/m²/yr		
Dwelling Fabric E	nergy Efficiency (DFEE)		37.15				
			-0.9 (-2.4	·%)		kWh/m²/yr	Pass	
Criterion 2 – Limits o								
Limiting Fabric St								
2 Fabric U-values								
Element		Averag			Highest			
External w	all		nax. 0.30) 0.17 (max. 0.70)		0)	Pass		
Party wall			max. 0.20) -		0)	Pass		
Floor			(max. 0.25) 0.20 (max. 0.70			Pass		
. –	Openings 1.36 (max. 2.00) 1.40 (max. 3.30) Pass 2a Thermal bridging 2					F 855		
	ing calculated from lir	oor thorm	al transmitt	ancos for oach i	unction			
<u>3 Air permeabilit</u>				ances for each j	unction			
			5 00 (40)	sign value)		m³/(h.m²) @ 50 Pa		
Air permeability at 50 pascals Maximum		10.0			$m^{3}/(h.m^{2}) @ 50 Pa$ m ³ /(h.m ²) @ 50 Pa			
Limiting System E	fficiencies		10.0				F 055	
4 Heating efficien								
Main heating	Community heating scheme							
Secondary heating system			None					
5 Cylinder insulation								
<u>5 Cynnuer msuldi</u>								

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Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.12r02

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



Hot water storage	Nominal cylinder loss: 0.12 kWh/da 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 co 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 South	13.14 m ² , No overhang]
Windows facing West	6.35 m², 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	

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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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