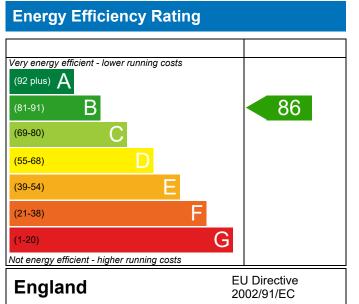


Blk B Plot 4, St Michael's Road, Croydon, CR0 1UA Dwelling type:FlatDate of assessment:30/2Produced by:JamTotal floor area:91.2DRRN:227

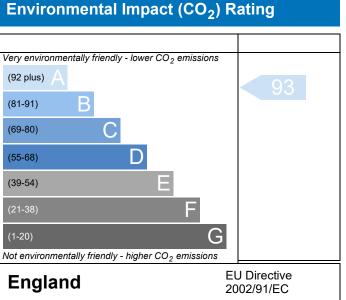
Flat, Mid-Terrace 30/11/2020 James Darby 91.11 m² 2270-5896-0921

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						

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)



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	

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 93	

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.



