PREDICTED ENERGY ASSESSMENT



Blk B Plot 60, St Michael's Road, Croydon,

CR0 1UA

Dwelling type: Flat, Mid-Terrace Date of assessment: 04/08/2020

Produced by: James Darby 49.98 m² Total floor area:

DRRN: 9200-7183-4021

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 (CO₂) emissions.

Energy Efficiency Rating Very energy efficient - lower running costs (92 plus) **A** (81-91) 85 (69-80)(55-68)(39-54)(21-38)Not energy efficient - higher running costs **EU Directive England** 2002/91/EC

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 Very environmentally friendly - lower CO₂ emissions (92 plus) (81-91) (69-80)(55-68)(39-54)Not environmentally friendly - higher CO₂ emissions **EU Directive England**

The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide (CO₂) 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.





2002/91/EC

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



Property Reference	20LSSMB060				Issued on Date	04/08/2020	
Assessment	PEA	Plot B-060					
Reference							
Property	Blk B Plot 60, St Michael	's Road, Croyd	on, CR0 1UA				
SAP Rating		85 B	DER	9.69	TER	16.60	
Environmental		94 A	% DER <ter< td=""><td></td><td></td></ter<>				
CO₂ Emissions (t/year)		0.42	DFEE	40.38	TFEE	36.84	
General Requirements Compliance		Fail	% DFEE <tfee< td=""><td></td><td>-9.59</td><td></td></tfee<>		-9.59		
	Mr. Daniel Hilsdon, Hilsdon danhilsdon@btinternet.com		d, Tel: 01579 38220	02,	Assessor ID	W966-0001	
Client	ondon Square, LS						
SUMARY FOR INPUT	DATA FOR New Build (As Do	esigned)					
Criterion 1 – Achieving	g the TER and TFEE rate						
1a TER and DER							
Fuel for main heati	ng	Mains g	as (c)				
Fuel factor		1.00 (ma	1.00 (mains gas)				
Target Carbon Dioxide Emission Rate (TER)		16.60		kgCO ₂ /m²			
Dwelling Carbon Dioxide Emission Rate (DER)		9.69		kgCO ₂ /m ²	Pass		
		-6.91 (-4	11.6%)		kgCO₂/m²		
1b TFEE and DFEE							
Target Fabric Energy Efficiency (TFEE)		36.84					
Dwelling Fabric Energy Efficiency (DFEE)		40.38		kWh/m²/yr			
Excess energy		3.6 (9.89	%)	kWh/m²/yr	Fail		
Criterion 2 – Limits on	-						
Limiting Fabric Sta	ndards						
2 Fabric U-values							
Element	Ave	rage	Hi	ghest			
External wa	External wall 0.17 (r		0.1	17 (max. 0.70))	Pass	
Party wall	Party wall 0.00 (-			Pass	
Openings	Openings 1.36 (max.			(. 2.00) 1.40 (max. 3.30)			
2a Thermal bridging							
Thermal bridgir	ng calculated from linear th	ermal transmit	tances for each jun	nction			
3 Air permeability							
Air permeability at 50 pascals		5.00 (de	sign value)	m³/(h.m²) @ 50 Pa			
Maximum	10.0	10.0 m³/(h.m²) @ 50 Pa					
Limiting System Ef	ficiencies						
4 Heating efficienc	У						
Main heating sy	Commu	Community heating scheme					
Secondary heat	ing system	None	None				
E Cylindor insulation							

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5 Cylinder insulation



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Hot water storage	Nominal cylinder loss: 0.12 kWh/day	Pass
	Permitted by DBSCG 0.32	
Primary pipework insulated	No primary pipework	
<u>6 Controls</u>		
Space heating controls	Charging system linked to use of community hea	ating, Pass
	programmer and TRVs	
Hot water controls	No cylinderstat	
7 Low energy lights		
Percentage of fixed lights with low-energy fittings	100 %	, 0
Minimum	75	6 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 su	mmer	
9 Summertime temperature		
Overheating risk (Thames Valley)	Slight	Pass
Based on:		
Overshading	Average	
Windows facing South	6.77 m ² , No overhang	
Windows facing West	12.22 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 V	V/m²K Pass
Air permeability and pressure testing		
3 Air permeability		
Air permeability at 50 pascals	5.00 (design value) m ³ /(h.n	n²) @ 50 Pa
Maximum	10.0 m ³ /(h.n	n ²) @ 50 Pa Pass
10 Key features		
Party wall U-value	0.00 V	V/m²K
Door U-value	1.00 V	V/m²K
Community CHP, Mains gas	N/A	
Photovoltaic array	0.06 k	·W

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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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