PREDICTED ENERGY ASSESSMENT



Blk B Plot 75, St Michael's Road, Croydon, CR0 1UA Dwelling type:
Date of assessment:

Flat, Mid-Terrace

Produced by:

James Darby

04/08/2020

Total floor area:

51.16 m²

DRRN:

3052-7884-0013

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.

Very energy efficient - lower running costs (92 plus) A (81-91) B (69-80) C (55-68) D (39-54) E (21-38) F (1-20) G Not energy efficient - higher running costs England EU Directive 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.

Very environmentally friendly - lower CO₂ emissions (92 plus) A (81-91) B (69-80) C (55-68) D (39-54) E (21-38) F (1-20) G Not environmentally friendly - higher CO₂ emissions EU Directive 2002/91/EC

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.





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



Property Reference	20LSSMB075 Issued on Date 04/0						
Assessment	PEA Prop Type Ref Plot B-075						
Reference							
Property	Blk B Plot 75, St Michael'	s Road, Croydo	on, CRO 1UA				
SAP Rating		85 B	DER	9.68	TER	17.02	
Environmental		94 A	% DER <ter< td=""><td></td><td>43.12</td><td></td></ter<>		43.12		
CO₂ Emissions (t/year)		0.42	DFEE	40.04	TFEE	39.72	
General Requirements Compliance		Fail	% DFEE <tfee< td=""><td></td><td>-0.81</td><td></td></tfee<>		-0.81		
Assessor Details M	اr. Daniel Hilsdon, Hilsdon ۱	Holmes Limited	d, Tel: 01579 38220)2,	Assessor ID	W966-0001	
d	anhilsdon@btinternet.com						
Client	ondon Square, LS						
SUMARY FOR INPUT D	ATA FOR New Build (As De	signed)					
Criterion 1 – Achieving	the TER and TFEE rate						
1a TER and DER							
Fuel for main heating							
Fuel factor		Mains gas (c) 1.00 (mains gas)					
Target Carbon Diox	17.02	17.02 kgCO ₂ /m ²					
Dwelling Carbon Dioxide Emission Rate (DER)		9.68			kgCO ₂ /m ²	Pass	
	, ,			-7.34 (-43.1%)			
1b TFEE and DFEE							
Target Fabric Energ	39.72	39.72 kWh/m²/yr					
Dwelling Fabric Energy Efficiency (DFEE)		40.04	40.04				
Excess energy		0.3 (0.89	%)		kWh/m²/yr	Fail	
Criterion 2 – Limits on	design flexibility						
Limiting Fabric Star	ndards						
2 Fabric U-values							
Element	Aver	age	Hi	ghest			
External wal	0.16	(max. 0.30)	0.3	17 (max. 0.7	0)	Pass	
Party wall	0.00	(max. 0.20)	-			Pass	
Openings	1.35	(max. 2.00) 1.40 (max. 3.30)			Pass		
2a Thermal bridgin	g						
Thermal bridgin	g calculated from linear the	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		m ³ /(h.m ²) @ 50 Pa Pass			
Limiting System Eff	iciencies						
4 Heating efficiency	L						
Main heating sy	Commu	Community heating scheme					
Secondary heati	ng system	None					

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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 heating, programmer and TRVs			
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	12.22 m², No overhang			
Windows facing South	3.38 m², Overhang twice as wide as window, r	atio 1.60		
Air change rate	4.00 ach			
Blinds/curtains	None			
Criterion 4 – Building performance consistent with D	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			
Maximum	10.0 m ³ /(h	n.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 85	A 94	

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