PREDICTED ENERGY ASSESSMENT



Blk B Plot 20, St Michael's Road, Croydon,

CR0 1UA

Dwelling type: Flat, Mid-Terrace

Date of assessment: 04/08/2020 Produced by: James Darby Total floor area: 68.85 m²

DRRN: 7200-6488-4015

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	20LSSMB020 Issued on Date 04/08							
Assessment	PEA Prop Type Ref Plot B-020							
Reference	DIL D Dict 20 Ct Mai-le III	s Dood Carry	on CDO 4114					
Property	Blk B Plot 20, St Michael	s Koad, Croydo	DII, CKU TUA					
SAP Rating		85 B	DER	9.65	TER	16.64		
Environmental		93 A	% DER <ter< td=""><td></td><td>41.99</td><td></td></ter<>		41.99			
CO₂ Emissions (t/year	-	0.56 Pass	DFEE	43.43 TFEE 2.83		44.69		
General Requirement	General Requirements Compliance		% DFEE <tfee< td=""><td></td><td></td></tfee<>					
	1r. Daniel Hilsdon, Hilsdon I		d, Tel: 01579 38220)2,	Assessor ID	W966-0001		
	danhilsdon@btinternet.com							
	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 for main heating			Mains gas (c)				
Fuel factor		1.00 (ma	ains gas)					
Target Carbon Diox	16.64	16.64 kgCO ₂ /m ²						
Dwelling Carbon Dioxide Emission Rate (DER)		9.65			kgCO ₂ /m ²	Pass		
41	-6.99 (-4	2.0%)	kgCO ₂ /m ²					
1b TFEE and DFEE								
Target Fabric Energy Efficiency (TFEE)			44.69 kWh/m²/yr					
Dwelling Fabric Energy Efficiency (DFEE)		43.43	20/1		kWh/m²/yr	Doss		
Criterion 2 – Limits on	design flexibility	-1.3 (-2.9	^{7/0}		kWh/m²/yr	Pass		
Limiting Fabric Star								
	iuarus							
2 Fabric U-values	A	*250	112	abost				
	Element Avera		_		0)	Pass		
Party wall	External wall 0.17 (m		0.1	17 (max. 0.7)	O)	Pass Pass		
		(max. 0.20) (max. 2.00)	1 /	40 (max. 3.3)				
2a Thermal bridging		(11107. 2.00)	1	+0 (IIIax. 3.3)	~ <i>,</i>	1 033		
	ន g calculated from linear the	ermal transmit	tances for each iun	ction				
3 Air permeability	5 carculated Holli lilledi tile		tunces for each juli	CHOIT				
Air permeability at 50 pascals		5 00 (40	sign value)	m³/(h.m²) @ 50 Pa				
Maximum		10.0	sigii value)		m ³ /(h.m ²) @ 50 Pa Pass			
Limiting System Eff	iciencies	10.0			111 / (11.111) @ 30 Pa	r a 3 3		
4 Heating efficiency		Commi	Community hosting ochomo					
Main heating sy		Community heating scheme None						
Secondary heating 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	Pass		
	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	0.17			
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 North	13.14 m², No overhang			
Windows facing East	6.35 m², No overhang			
Air change rate	6.00 ach			
Blinds/curtains	None			
Criterion 4 – Building performance consistent with I	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 /			
Maximum	10.0 m ³ /	Pass		
10 Key features				
Party wall U-value	0.00	W/m²K		
Door U-value	1.00			
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 93	

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