### PREDICTED ENERGY ASSESSMENT



Apartment 4 - Onslow Mills, Trout Road, West Drayton, UB7 7RR

Dwelling type: Flat, End-Terrace

Date of assessment: 01/06/2022

Produced by: Alexander Pelling

Total floor area: 67.54 m<sup>2</sup>

DRRN: 6123-9608-0022

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<sub>2</sub>) 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 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 CO<sub>2</sub> emissions (92 plus) A (81-91) B (69-80) C (55-68) D (39-54) E (1-20) Not environmentally friendly - higher CO<sub>2</sub> emissions England 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 (CO<sub>2</sub>) 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)**



roperty Reference	ONSLOW MILLS 4				Issued on Date	01/06/202
ssessment	As-Designed			Prop Type Ref		
eference						
roperty	Apartment 4 - On	slow Mills, Tro	ut Road, West Drayto	on, UB7 7RR		
AP Rating		82	2 B DER	14.62	TER	20.27
nvironmental		89	9 B % DER <ter< td=""><td></td><td>27.86</td><td></td></ter<>		27.86	
O <sub>2</sub> Emissions (t/ye	ear)	0.	76 DFEE	60.12	TFEE	58.01
eneral Requireme	ents Compliance	Fa	% DFEE <tf< td=""><td>EE</td><td>-3.64</td><td></td></tf<>	EE	-3.64	
ssessor Details	Mr. Alexander Pelling	, Alexander Pe	lling, Tel: 017328082	238,	Assessor ID	T297-000
	alex@arcarch.co.uk					
lient	David Butler, DEVCO	N				
JMARY FOR INPU	T DATA FOR New Build	(As Designed)				
iterion 1 – Achiev	ing the TER and TFEE r	ate				
TER and DER						
Fuel for main heating			lains gas			
Fuel factor		=	.00 (mains gas)			
Target Carbon Dioxide Emission Rate (TER)		ER) 2	0.27		kgCO <sub>2</sub> /m <sup>2</sup>	
Dwelling Carbon Dioxide Emission Rate (DER)		(DER)	4.62	kgCO <sub>2</sub> /m <sup>2</sup>	Pass	
		-5	5.65 (-27.9%)		kgCO₂/m²	
TFEE and DFEE		_				
Target Fabric Energy Efficiency (TFEE)		_	8.01	kWh/m²/yr		
Dwelling Fabric Energy Efficiency (DFEE)		´	0.12	kWh/m²/yr		
Excess energy		2.	.1 (3.6%)		kWh/m²/yr	Fail
iterion 2 – Limits	on design flexibility					
Limiting Fabric S	tandards					
2 Fabric U-value	<u>s</u>					
Element		Average		Highest		
External v		0.18 (max. 0	•	0.19 (max. 0.70	0)	Pass
		0.00 (max. 0	•	-		Pass
Party wall			\ 2 \ \	0.18 (max. 0.70	<b>)</b> )	Pass
Floor		0.18 (max. 0	•	•	•	
•		0.18 (max. 0 1.67 (max. 2	•	1.70 (max. 3.30	•	Pass

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5.00 (design value)

10.0



3 Air permeability

Maximum

**4 Heating efficiency** 

Air permeability at 50 pascals

**Limiting System Efficiencies** 



 $m^3/(h.m^2)$  @ 50 Pa  $m^3/(h.m^2)$  @ 50 Pa

Pass

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



Main heating system	Boiler system with radiators or underfloor - Mains gas Data from database Ideal LOGIC COMBI ESP1 30 Combi boiler Efficiency: 89.6% SEDBUK2009 Minimum: 88.0% None		
Secondary heating system			
	None		
5 Cylinder insulation	Alexandra de a		
Hot water storage	No cylinder		
<u>6 Controls</u>			
Space heating controls	Time and temperature zone control		
Hot water controls	No cylinder		
Boiler interlock	Yes		Pass
7 Low energy lights		_	
Percentage of fixed lights with low-energy fittings	100	%	
Minimum	75	%	Pass
8 Mechanical ventilation			
Not applicable			
Criterion 3 – Limiting the effects of heat gains in sum	nmer		
9 Summertime temperature			
Overheating risk (Thames Valley)	Slight		Pass
Based on:			
Overshading	Average		
Windows facing North East	10.23 m², No overhang		
Windows facing South East	1.94 m², No overhang		
Windows facing North West	8.23 m², No overhang		
Air change rate	6.00 ach		
Blinds/curtains	Light-coloured curtain or roller blind, closed 100% of daylight hours		
Criterion 4 – Building performance consistent with D			
Party Walls	PER UNA DI EL TUCC		
•	U-value		
Type Filled Cavity with Edge Sealing	0.00	W/m²K	Pass
Air permeability and pressure testing	0.00	_ vv/III K	PdSS
3 Air permeability and pressure testing			
Air permeability at 50 pascals	5.00 (design value) m <sup>3</sup> /	(h.m²) @ 50 Pa	
	,		Dass
Maximum	10.0 m <sup>3</sup> /	(h.m²) @ 50 Pa	Pass
10 Key features	0.00	7 14//22//	
Party wall U-value	0.00	U/m²K I	
Photovoltaic array	1.00	kW	

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