PREDICTED ENERGY ASSESSMENT

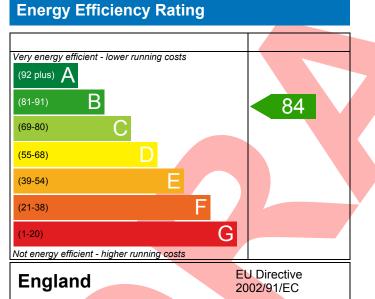


Plot 073, 3 Bed, K, B, WC Dwelling type: Date of assessment: Produced by: Total floor area:

House, Semi-Detached 30/07/2019 Andrew McManus 83.72 m²

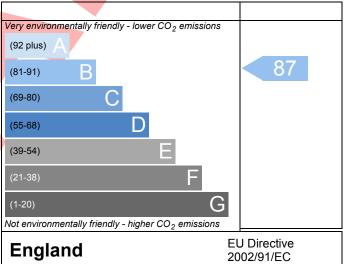
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance 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.

Environmental Impact (CO₂) Rating



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.

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



Reference					S325v1 - Semi (As)	
Property	Plot 073, 3 Bed, K, B, V	VC				
SAP Rating		84 B	DER	16.71	TER	17.58
invironmental		87 B	% DER <ter< th=""><th></th><th>4.94</th><th></th></ter<>		4.94	
CO₂ Emissions (t/year))	1.15	DFEE	43.61	TFEE	49.05
General Requirements	s Compliance	Pass	% DFEE <tfee< td=""><td></td><td>11.10</td><td></td></tfee<>		11.10	
	lr. Andrew McManus, Ar ndrew.mcmanus@aessc		, Tel: 01455 8832	50,	Assessor ID	P638-0001
Client	ovis South West					
JMARY FOR INPUT D	ATA FOR New Build (As	Designed)				
iterion 1 – Achieving	the TER and TFEE rate					
a TER and DER						
Fuel for main heatir	Ig	Mains g	as			
Fuel factor		1.00 (m	ains gas)			
Target Carbon Dioxi	de Emission Rate (TER)	17.58			kgCO ₂ /m ²	
Dwelling Carbon Dioxide Emission Rate (DER)		R) 16.71			kgCO ₂ /m ²	Pass
		-0.87 (-4	1.9%)		kgCO ₂ /m ²	
D TFEE and DFEE						
Target Fabric Energy Efficiency (TFEE)		49.05			kWh/m²/yr	
Dwelling Fabric Ene	rgy Efficiency (DFEE)	43.61			kWh/m²/yr	
		-5.5 (-11	1.2%)		kWh/m²/yr	Pass
riterion 2 – Limits on	design flexibility		_			
Limiting Fabric Stan	dards					
2 Fabric U-values						
Element	A	verage		Highest		
External wall	0.	25 (max. 0.30)		0.25 (max. 0.70)	Pass
Party wall	0.	00 (max. 0.20)		-		Pass
Floor	0.	18 (max. 0.25)	(0.18 (max. 0.70)	Pass
Roof	0.	12 (max. 0.20)	(0.12 (max. 0.35)	Pass
Openings	1.	34 (max. 2.00)	:	1.40 (max. 3.30)	Pass
2a Thermal bridging	g					
Ed Inclina on aging	g calculated from linear	thermal transmit	tances for each j	unction		
	-		-			
Thermal bridging		5.00 (design value)				
Thermal bridging <u>3 Air permeability</u>	at 50 pascals	5.00 (de	sign value)		$m^{3}/(h.m^{2}) @ 50 Pa$	
Thermal bridging	at 50 pascals	5.00 (de	sign value)		m ³ /(h.m ²) @ 50 Pa m ³ /(h.m ²) @ 50 Pa	

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



Main heating system	Boiler system with radiators or underfloor - Mains gas Data from database Potterton Assure 30 Combi Combi boiler Efficiency: 89.0% SEDBUK2009 Minimum: 88.0%	Pass
Secondary heating system	None	
5 Cylinder insulation		
Hot water storage	No cylinder	
6 Controls		
Space heating controls	Programmer, room thermostat and TRVs	Pass
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		
Continuous extract system (decentralised)		
Specific fan power	0.1900 0.1800	
Maximum	0.7	Pass
Criterion 3 – Limiting the effects of heat gains in su	mmer	
<u>9 Summertime temperature</u>		
Overheating risk (Southern England)	Slight	Pass
Based on:		
Overshading	Average	
Windows facing North	5.92 m ² , No overhang	
Windows facing East Windows facing South	1.53 m ² , No overhang 7.58 m ² , No overhang	
Air change rate	4.00 ach	
Blinds/curtains	None	=
Criterion 4 – Building performance consistent with		
Party Walls		
Туре	U-value	
Filled Cavity with Edge Sealing	0.00 W/m²K	Pass
Air permeability and pressure testing		L
3 Air permeability		
Air permeability at 50 pascals	5.00 (design value) m ³ /(h.m ²) @ 50 Pa	
Maximum	10.0 m³/(h.m²) @ 50 Pa	Pass
<u>10 Key features</u>		
Party wall U-value	0.00 W/m²K	
Roof U-value	0.12 W/m²K	
Door U-value	0.90 W/m²K	

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RECOMMENDATIONS





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