PREDICTED ENERGY ASSESSMENT



FT-04, Plot 174, 179, Dwelling type: Flat, Mid-Terrace

Reading, Date of assessment: 16/03/2019
Berkshire Produced by: Southern F

Produced by: Southern Energy Consultants

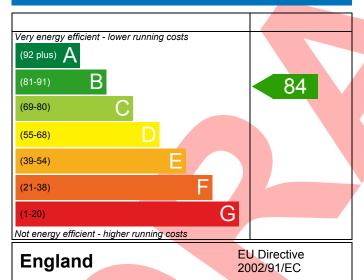
Limited

Total floor area: 51.09 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.

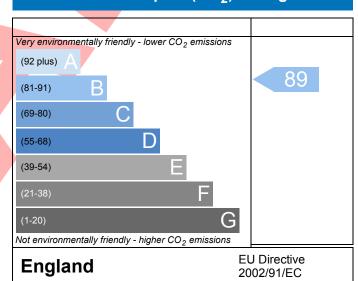
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.

Energy Efficiency Rating



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 (CO₂) 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)



Property Refe						Issued on Date	16/03/2019			
Assessment Reference	001	001 Prop Type Ref MFF								
Property	FT-04, Plot 174,	179, Readin	ıg, Berkshire	е						
SAP Rating			84 B	DER	17.55	TER	19.06			
Environmenta	l		89 B	% DER <ter< td=""><td></td><td>7.91</td><td></td></ter<>		7.91				
CO₂ Emissions (t/year)			0.75	DFEE	39.24	TFEE	42.90			
General Requi	rements Compliance		Pass	% DFEE <tfee< td=""><td></td><td>8.54</td><td></td></tfee<>		8.54				
Assessor	Stephen Smith, Tel: 016	35261582				Assessor ID	d168-0001			
Client	Bellway Homes Thames	Valley								
JMARY FOR I	NPUT DATA FOR New Buil	d (As Desig	ned)							
riterion 1 – Ac	chieving the TER and TFEE	rate								
a TER and DEF	<u>R</u>									
Fuel for mai	in heating		Mains g	as						
Fuel factor			1.00 (ma	ains gas)						
Target Carbon Dioxide Emission Rate (TER)			19.06			kgCO₂/m²				
Dwelling Carbon Dioxide Emission Rate (DER)			17.55			kgCO ₂ /m ²	Pass			
			-1.51 (-7	7.9%)		kgCO ₂ /m ²				
b TFEE and DF										
Target Fabric Energy Efficiency (TFEE) Dwelling Fabric Energy Efficiency (DFEE)			42.90			kWh/m²/yr				
			39.24			kWh/m²/yr				
ritorion 2 li	mits on design flexibility		-3.7 (-8.0	0%)		kWh/m²/yr	Pass			
	oric Standards									
2 Fabric U-v										
		Average			Highest					
			ax. 0.30)		0.25 (max. 0.7	Pass				
			iax. 0.20)		- (IIIax. 0.7	Pass				
			iax. 0.20)		0.15 (max. 0.3	Pass				
	nings		max. 2.00)		1.30 (max. 3.3	Pass				
		=:== (;;;	,		,	- 1	233			
2a Thermal		near therm	ıal transmit	tances for each	junction					
2a Thermal	bridging calculated from li	mear them.			•					
2a Thermal		illear therif								
2a Thermal Thermal 3 Air perme	eability	illear them	5.00 (de	sign value)		m³/(h,m²) @ 50 Pa	3			
2a Thermal Thermal 3 Air perme	pability neability at 50 pascals	mear them		sign value)		m³/(h.m²) @ 50 Pa				
2a Thermal Thermal 3 Air perme Air perm Maximu	pability neability at 50 pascals	inear them	5.00 (de	sign value)		m³/(h.m²) @ 50 Pa m³/(h.m²) @ 50 Pa				

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Main heating system	Boiler system with radiators or underfloor - Mains gas	Pass
	Data from database	
	Ideal LOGIC COMBI ESP1 35	
	Combi boiler	
	Efficiency: 89.6% SEDBUK2009 Minimum: 88.0%	
Secondary heating system	None	
5 Cylinder insulation	None	
Hot water storage	No cylinder	
_	No cylinder	
6 Controls	Due suggested as a second the suggested and TDVs	Desa
Space heating controls Hot water controls	Programmer, room thermostat and TRVs No cylinder	Pass
Boiler interlock	Yes	Pass
7 Low energy lights	Tes	F ass
	100	
Percentage of fixed lights with low-energy fittings	100 %	
Minimum	75 %	Pass
8 Mechanical ventilation		
Continuous extract system (decentralised)		
Specific fan power	0.1600 0.1600	
Maximum	0.7	Pass
Criterion 3 – Limiting the effects of heat gains in sur	mmer	
9 Summertime temperature		
Overheating risk (Thames Valley)	Slight	Pass
Based on:		
Overshading	Average	
Windows facing South	6.42 m², No overhang	
		⊣
Air change rate	4.00 ach	\exists
Blinds/curtains	None	
	None	
Blinds/curtains	None	
Blinds/curtains Criterion 4 – Building performance consistent with	None DER and DFEE rate U-value	
Blinds/curtains Criterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing	None DER and DFEE rate	Pass
Blinds/curtains Criterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing	None DER and DFEE rate U-value	Pass
Blinds/curtains Criterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability	None DER and DFEE rate U-value 0.00 W/m²K	Pass
Criterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals	None DER and DFEE rate U-value 0.00 W/m²K 5.00 (design value)	
Criterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum	None DER and DFEE rate U-value 0.00 W/m²K	Pass
Criterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals	None DER and DFEE rate U-value 0.00 W/m²K 5.00 (design value) 10.0	
Criterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum 10 Key features Party wall U-value	None DER and DFEE rate U-value 0.00 W/m²K	
Criterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum 10 Key features	None DER and DFEE rate U-value 0.00 W/m²K 5.00 (design value) 10.0	

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Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.08r10

RECOMMENDATIONS



	Typical cost	Typical savings per year	Energy efficiency	Environmenta I 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	f0	£0	B 84	B 89	



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