PREDICTED ENERGY ASSESSMENT



Plot 42 (Affordable - S/O), Pluckley Road,

Smarden, Ashford, Kent.

TN278

Dwelling type: House, Semi-Detached

Date of assessment: 13/03/2019

Produced by: Hilsdon Holmes Limited

Total floor area: 94.8 m²

RRN: 5327-9407-9614

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 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 (1-20) G

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.

Not environmentally friendly - higher CO₂ emissions

England

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EU Directive

2002/91/EC

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



Property Reference	19CSPR0042			1			ed on Date	13/03/2019
Assessment	001	Prop Type Ref HT 3BH AFF						
Reference	Plot 42 (Affordable - S/O), Pluckley Road, Smarden, Ashford, Kent, TN27 8							
Property	Plot 42 (Allordable	e - 3/0), Pluc	кіеў коа	u, Smaruen, Asm	ora, kent, in	2/8		
SAP Rating			84 B	DER	16.98	Т	ER	17.78
Environmental			86 B	% DER <ter< td=""><td></td><td></td><td>4.49</td><td></td></ter<>			4.49	
CO₂ Emissions (t/year)			1.32	DFEE	46.06	Т	FEE	52.33
General Requirements Compliance			Pass	% DFEE <tfee< td=""><td></td><td></td><td>11.99</td><td></td></tfee<>			11.99	
	Mr. Daniel Hilsdon, Hil danhilsdon@btinterne		s Limited	d, Tel: 01579 382	202,	Α	ssessor ID	L030-0001
Client	Countryside, CS							
SUMARY FOR INPUT	DATA FOR New Build	(As Designe	d)					
	g the TER and TFEE ra							
1a TER and DER								
Fuel for main heating Mains gas								
Fuel factor			1.00 (mains gas)					
Target Carbon Dioxide Emission Rate (TER)			17.78				kgCO ₂ /m ²	
Dwelling Carbon Dioxide Emission Rate (DER)			16.98				kgCO ₂ /m ²	Pass
		Ī	-0.80 (-4	.5%)			kgCO ₂ /m ²	
1b TFEE and DFEE							-	
Target Fabric Ener	gy Efficiency (TFEE)		52.33				kWh/m²/yr	
Dwelling Fabric Energy Efficiency (DFEE)			46.06				kWh/m²/yr	
		[-6.2 (-11	9%)			kWh/m²/yr	Pass
Criterion 2 – Limits o	n design flexibility							
Limiting Fabric Sta	andards							
2 Fabric U-values								
Element		Average		ı	Highest			
External wa	all	0.22 (max.	. 0.30)	0.22 (max. 0.70)		0)		Pass
Party wall		0.00 (max.	. 0.20)	-				Pass
Floor		0.15 (max.	. 0.25)	0.15 (max. 0.70				Pass
Roof		0.11 (max.	. 0.20)	0) 0.11 (max. 0.35				Pass
Openings		1.17 (max		. 2.00) 1.20 (max. 3.3		0)		Pass
2a Thermal bridgi	ng							
Thermal bridgi	ng calculated from line	ear thermal	transmit	tances for each ju	unction			
3 Air permeability	!							
Air permeabilit	ty at 50 pascals	[5.00 (de	sign value)		m³/((h.m²) @ 50 Pa	
Maximum		Ī	10.0			m³/((h.m²) @ 50 Pa	Pass

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Limiting System Efficiencies

4 Heating efficiency



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Main heating system	Boiler system with radiators or underflood Data from database	Pass	
	Potterton Assure 25 Combi		
	Combi boiler		
	Efficiency: 89.0% SEDBUK2009		
Consequence of the second of	Minimum: 88.0%	<u> </u>	
Secondary heating system	None		
5 Cylinder insulation			
Hot water storage	No cylinder		
<u>6 Controls</u>			
Space heating controls	Time and temperature zone control	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 supply and extract system			
Specific fan power	0.76		
Maximum	1.5		Pass
MVHR efficiency	91	%	
Minimum	70	%	Pass
Criterion 3 – Limiting the effects of heat gains in su	mmer		
9 Summertime temperature			
Overheating risk (South East England)	Slight		Pass
Based on:			
Overshading	Average		
Windows facing North East	0.61 m ² , No overhang		
Windows facing South East	3.44 m², No overhang		
Windows facing North West	9.45 m², No overhang]	
Air change rate	4.00 ach	<u> </u> -	
Blinds/curtains	None		
Criterion 4 – Building performance consistent with	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		m ³ /(h.m ²) @ 50 Pa	
Maximum	10.0	m ³ /(h.m ²) @ 50 Pa	Pass

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10 Key features

Party wall U-value Roof U-value Door U-value

0.00	W	/m²K
0.11	W	/m²K
1.00	W	/m²K

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