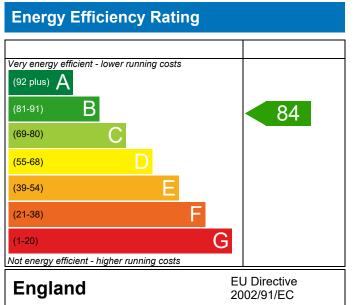


Plot 46 (Affordable - S/O), Pluckley Road, Smarden, Ashford, Kent, TN27 8 Dwelling type: Date of assessment: Produced by: Total floor area: RRN: House, Semi-Detached 13/03/2019 Hilsdon Holmes Limited 94.8 m² 0767-9907-9514

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 Very environmentally friendly - lower CO2 emissions (92 plus) A (81-91) B (69-80) C (55-68) D (39-54) E (21-38) F (1-20) G Not environmentally friendly - higher CO2 emissions England

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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Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.09r14

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



Property Reference		19CSPR0046 Issued on Date 13/03/2019					13/03/2019			
Assessment		001		Prop Type Ref HT 3BH AFF side entry					1	
Reference										
Property Plot 46 (Affordable - S/O), Pluckley Road, Smarden, Ashford, Kent, TN27 8										
SAP Rating				84 B	DER	16.3	4	TER	17.24	
Environmental				87 B	% DER <ter< th=""><th></th><th colspan="2">5.20</th><th></th></ter<>		5.20			
CO ₂ Emissions (t/year)				1.29	DFEE	44.6	3	TFEE	51.31	
General Requirements Compliance				Pass	% DFEE <tfee< th=""><th></th><th></th><th>13.03</th><th></th></tfee<>			13.03		
Assessor Details		. Daniel Hilsdon, Hilso hhilsdon@btinternet.		olmes Limited, Tel: 01579 382202,				Assessor ID	L030-0001	
Client	Со	untryside, CS								
SUMARY FOR INPUT DATA FOR New Build (As Designed)										
Criterion 1 – Achievi	ng t	he TER and TFEE rate	9							
1a TER and DER										
Fuel for main heating				Mains gas						
Fuel factor				1.00 (mains gas)						
Target Carbon Dioxide Emission Rate (TER)				17.24			kgCO ₂ /m ²			
Dwelling Carbon	Dio	kide Emission Rate (D	ER)	16.34				kgCO ₂ /m ²	Pass	
				-0.90 (-5.2%)				kgCO ₂ /m ²		
<u>1b TFEE and DFEE</u>										
Target Fabric Ene	rgy	Efficiency (TFEE)		51.31				kWh/m²/yr		
Dwelling Fabric E	ner	gy Efficiency (DFEE)		44.63				kWh/m²/yr		
				-6.7 (-13	.1%)			kWh/m²/yr	Pass	
Criterion 2 – Limits o	on d	esign flexibility								
Limiting Fabric St	anc	lards								
2 Fabric U-values										
Element			Avera	ge		Highest				
External w	all		0.22 (r	0.22 (max. 0.30)		0.22 (max. 0.70)			Pass	
Party wall			0.00 (r	nax. 0.20)		-			Pass	
Floor			0.15 (r	0.15 (max. 0.25)		0.15 (max. 0.70)			Pass	
Roof	Roof 0.1			nax. 0.20)	0.11 (max. 0.35)			Pass		
Openings 1.18			1.18 (r	(max. 2.00) 1.20 (max. 3			3.30)		Pass	
<u>2a Thermal bridg</u>	ing									
Thermal bridg	ing	calculated from linea	r therr	nal transmitt	ances for each j	unction				
<u>3 Air permeabilit</u>	У									
Air permeability at 50 pascals				5.00 (design value)				m³/(h.m²) @ 50 Pa		
Maximum				10.0			I	m³/(h.m²) @ 50 Pa	Pass	
Limiting System E	Effic	iencies								
4 Heating efficier										

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Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.09r14

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



Main heating system	Boiler system with radiators or underfl Data from database Potterton Assure 25 Combi Combi boiler Efficiency: 89.0% SEDBUK2009 Minimum: 88.0%	oor - Mains gas	Pass
Secondary heating system	None		
5 Cylinder insulation			
Hot water storage	No cylinder		
6 Controls			_
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		7
Maximum	1.5		Pass
MVHR efficiency	91	%	
Minimum	70	%	Pass
Criterion 3 – Limiting the effects of heat gains in su	mmer		
<u>9 Summertime temperature</u>			
Overheating risk (South East England)	Slight		Pass
Based on:			
Overshading	Average		
Windows facing North East	9.45 m ² , No overhang]	
Windows facing South East	6.46 m ² , No overhang		
Windows facing South West	4.77 m ² , No overhang		
Air change rate	4.00 ach		
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			
<u>3 Air permeability</u>		2/11 22	
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

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



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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