PREDICTED ENERGY ASSESSMENT



Type A Handed, Plot 3, Ashlawn Road, Rugby.

Warwickshire

Dwelling type: House, Detached

Date of assessment: 26/02/2020

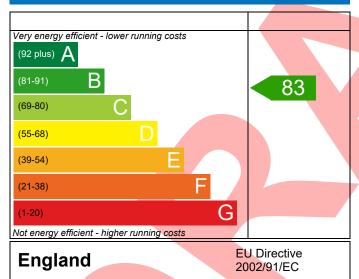
Produced by: Energy Surveys (PL) Ltd

Total floor area: 243.7 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.

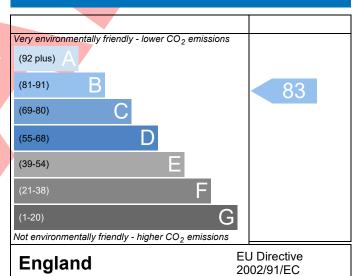
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.

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.

This report has not been submitted through the Elmhurst Energy members' portal, therefore results are subject to change when the dwelling is completed.



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



Property Reference CUR-11-19-03			Issued on Date	26/02/2020	
Assessment CUR-11-19-03		Prop Type Ref			
Reference	Dist 2 Ashlavia Dasal Disa	less NAZe most els els tree			
Property Type A Handed,	Plot 3, Ashlawn Road, Rug				
SAP Rating		DER 16.00	TER	16.29	
Environmental		6 DER <ter< td=""><td>1.80</td><td></td></ter<>	1.80		
CO ₂ Emissions (t/year)		DFEE 59.09	TFEE	67.12	
General Requirements Compliance Pass % DFEE <tfee 11.97<="" td=""></tfee>					
	Mr. Peter Loveday, Energy Surveys (PL) Ltd, Tel: 01885 488418, Assessor ID L623-0001				
Client	sales@energysurveysgb.co.uk				
SUMARY FOR INPUT DATA FOR New Buil					
Criterion 1 – Achieving the TER and TFEE	rate				
1a TER and DER					
Fuel for main heating	eting Mains gas				
Fuel factor	1.00 (mains	gas)			
Target Carbon Dioxide Emission Rate	(TER) 16.29		kgCO ₂ /m ²		
Dwelling Carbon Dioxide Emission Rat	te (DER) 16.00		kgCO ₂ /m ²	Pass	
	-0.29 (-1.8%	5)	kgCO ₂ /m ²		
1b TFEE and DFEE					
Target Fabric Energy Efficiency (TFEE)	67.12		kWh/m²/yr		
Dwelling Fabric Energy Efficiency (DFE			kWh/m²/yr		
	-8.0 (-11.9%)	kWh/m²/yr	Pass	
Criterion 2 – Limits on design flexibility					
Limiting Fabric Standards					
2 Fabric U-values					
Element	Average	Highest			
External wall	0.16 (max. 0.30)	0.16 (max. 0.7	70)	Pass	
Floor	0.16 (max. 0.25)	0.21 (max. 0.7	70)	Pass	
Roof	0.16 (max. 0.20)	0.16 (max. 0.3	35)	Pass	
Openings	1.31 (max. 2.00) 1.60 (max. 3.30)		Pass		
2a Thermal bridging					
Thermal bridging calculated from I	inear thermal transmittand	ces for each junction			
3 Air permeability					
Air permeability at 50 pascals	6.00 (design	6.00 (design value)			
Maximum	10.0		$m^3/(h.m^2) @ 50 Pa$ $m^3/(h.m^2) @ 50 Pa$	Pass	
			- '		
Limiting System Efficiencies					

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Main heating system	Boiler system with radiators or underfloor - Mains gas	Pass
	Data from database Worcester Greenstar 35 CDi Classic System	
	Workester Greenstar 33 CDI Classic System	
	Efficiency: 89.2% SEDBUK2009	
	Minimum: 88.0%	
Secondary heating system	Room heaters - Wood Logs	Pass
	Closed room heater	
	Efficiency: 65% Minimum: 65%	
5 Cylinder insulation	IVIIIIIIIIIIII 05%	_
	Nominal cylinder loss: 2.55 kWh/day	Pass
Hot water storage	Permitted by DBSCG 2.86	PdSS
Primary pipework insulated	Yes	Pass
6 Controls		
Space heating controls	Time and temperature zone control	Pass
Hot water controls	Cylinderstat	Pass
not water controls	Independent timer for DHW	Pass
Boiler interlock	Yes	Pass
7 Low energy lights	163	1 433
Percentage of fixed lights with low-energy	100 %	
fittings	100	
Minimum	75 %	Pass
8 Mechanical ventilation		
Not applicable		
Criterion 3 – Limiting the effects of heat gains in sur	nmer	
9 Summertime temperature		
Overheating risk (Midlands)	Slight	Pass
Based on:	5"54"	1 433
Overshading	Average	
Windows facing North	20.28 m², No overhang	=
Windows facing East	18.03 m², No overhang	
Windows facing South	15.03 m², No overhang	
Windows facing West	22.22 m², No overhang	
Air change rate	4.00 ach	
Blinds/curtains	None	
Criterion 4 – Building performance consistent with	DER and DFEE rate	
Air permeability and pressure testing		
3 Air permeability		
Air permeability at 50 pascals	6.00 (design value) m ³ /(h.m ²) @ 50 Pa	
Maximum	10.0 m³/(h.m²) @ 50 Pa	Pass
10 Key features		<u>—</u>
Secondary heating (wood logs)	N/A	
Secondary heating fuel:	wood logs	

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Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.12r02