

The Steddles, Yapton

Initial Specification and SAP Report

Part L1A of The Building Regulations (2013)

Job No	S1826
Revision	-
Issue Purpose	For Initial Comment
Assessor	Ed Coate
Approved By	Neil Rothon
Date of Issue	08/10/2021

Disclaimer

This Report is based on information provided by third parties except for any assumptions made to gain compliance

NRG Consulting cannot be held liable for any information pertained in this Report that was provided by a third party. All information within the Report is information input specifically to alter the calculation in order to achieve compliance. There are further default inputs that are not contained within this report

TABLE – PART L SPECIFICATION – FABRIC

ELEMENT	U-VALUES (W/m ² K)	SPECIFICATION NOTES	INFORMATION SOURCE/REFERENCE
Ground Floor	0.11 W/m ² K	U-value calculated for each type using perimeter to area ratio 150mm PIR with a conductivity of 0.022 W/mk	Proposed U-Value to be met.
External Wall	0.15 W/m ² K	100mm Kingspan K108 to 150mm cavity	Proposed U-Value to be met.
Party Walls	0 W/m ² K	To be fully filled and sealed – no air cavity	
Roof (Insulated at flat ceiling)	0.10 W/m ² K	400mm mineral wool between and over joists	Proposed U-Value to be met.
Windows	1.3 W/m ² K	Manufacturer to be made aware. U-Value for whole window (frame and glazing)	
Air Permeability	3 m ³ /hm ² @50Pa	All Plots to be Tested	
Thermal Bridging		CBA details to be followed – see separate worksheets. To be supplied to site, completed and signed copies required at conclusion of build.	

TABLE – PART L SPECIFICATION – BUILDING SERVICES

ELEMENT	PROPOSED DETAILS	FURTHER INFORMATION	INFORMATION SOURCE
Ventilation	System 1 - Natural	Intermittent extract fans and trickle vents	
Heating - Houses	Mains Gas Boiler	Combi Boiler to be a minimum of 89.5% efficient	Please inform NRG of proposed boiler details before purchasing so we can check efficiency in SAP as this is a major contributor to the 10% reduction
Heating Controls	Time and Temp Zone Control	Properties to be split into two heating zones, each with their own independent programmer and thermostat controls	NRG requirement to contribute to the 10% CO2 reduction
Heat Emitters	Radiators		
Domestic Hot Water	From boiler		
Lighting	100% Low Energy		Compliance

Plot Identification	DER < TER	DFEE < TFEE	Passes Part L	EPC Rating
Plot 1	10.73%	28.37%	Yes	84 (B)
Plot 2	12.42%	30.09%	Yes	85 (B)
Plot 3	12.46%	30.14%	Yes	85 (B)
Plot 4	11.61%	29.52%	Yes	84 (B)
Plot 5	10.08%	26.05%	Yes	84 (B)
Plot 6	9.75%	25.60%	Yes	83 (B)
Plot 7	10.75%	28.36%	Yes	84 (B)

Plot Identification	DER < TER	DFEE < TFEE	Passes Part L	EPC Rating
Plot 8	11.72%	29.15%	Yes	85 (B)
Plot 9	12.34%	29.12%	Yes	86 (B)
Plot 10	12.42%	29.07%	Yes	86 (B)
Plot 11	11.78%	29.37%	Yes	84 (B)

TABLE – PART L SPECIFICATION – RESULTS