BASIC COMPLIANCE REPORT Calculation Type: New Build (As Designed)					Design SAP elmhurst energy		
Property Reference Ground	Floor Flat 1			1	ssued on Date	22/03/2020	
Assessment Ground	Floor Flat1		P	Prop Type Ref	F Flat 1		
Reference							
Property							
SAP Rating		81 B	DER	22.15	TER	22.23	
Environmental		85 B	% DER <ter< td=""><td></td><td>0.34</td><td></td></ter<>		0.34		
CO <sub>2</sub> Emissions (t/year)		1.02	DFEE	50.32	TFEE	62.06	
General Requirements Complia	nce	Pass	% DFEE <tfee< td=""><td></td><td>18.92</td><td></td></tfee<>		18.92		
Assessor Details Miss Cristin	a Aloisio				Assessor ID	00	
Client					-		
SUMARY FOR INPUT DATA FOR I	New Build (As Desig	ned)					
Criterion 1 – Achieving the TER a	nd TFEE rate						
<u>1a TER and DER</u>							
Fuel for main heating		Mains g	gas				
Fuel factor		1.00 (m	iains gas)				
Target Carbon Dioxide Emissi	on Rate (TER)	22.23			kgCO <sub>2</sub> /m <sup>2</sup>		
Dwelling Carbon Dioxide Emis	sion Rate (DER)	22.15	2 (2)		kgCO <sub>2</sub> /m <sup>2</sup>	Pass	
1b TEEE and DEEE		-0.08 (-	0.4%)		kgCO <sub>2</sub> /m <sup>2</sup>		
Torget Fabric Energy Efficience		62.06			W/h/ha2/yr		
larget Fabric Energy Efficiency (TFEE)		62.06			KVVN/m <sup>-</sup> /yr		
Dweining Fabric Energy Enicle	ncy (DFEE)	-11.8 (-	19.0%)		KWI/III / yI	Pass	
Criterion 2 – Limits on design fle	vihility	-11.0 (-	19.0707			1 435	
Limiting Fabric Standards	Allollicy						
2 Febrie II velves							
<u>Z Fabric O-values</u>	Averag	•		lighest			
Evennen	0 12 /m	e	1	$\frac{12}{2}$		Pace	
External wall	0.12 (m	(ax, 0.50)	(	0.12 (IIIax. 0.70)		Pass	
Floor	0.00 (m	(ax, 0.20)	(	- 0.10 (max 0.70)		Pass	
Openings	1 13 (m	(ax, 0.25)		2.10 (max. 0.70)		Pass	
2a Thermal bridging	1.13 (11	107. 2.007	2	2.00 (110x: 5.50)		1 433	
Za memal bridging	ad using usar spacifi	od v valuo	of 0.090				
2 Air pormoshility	e using user-specifi	eu y-value	010.080				
<u>5 All permeability</u>	calc	2 02 (4					
Air permeability at 50 pas	JdIS	3.92 (ut	esign value)				
		10.0				Pass	
4 Heating emclency			and the second second				
Main heating system		Boiler s Data fro Worces Combi l Efficien Minimu	ystem with radiat om manufacturer ster boiler cy: 94.0% SEDBUk ım: 88.0%	ors or underfloo (2009	r - Mains gas	Pass	



## BASIC COMPLIANCE REPORT Calculation Type: New Build (As Designed)



Secondary heating system	None			
5 Cylinder insulation	<u> </u>			
Hot water storage	No cylinder			
6 Controls			]	
Space heating controls	Time and temperature zone central		Pace	
Space nearing controls		Pass		
Hot water controls				
Boller Interlock	Yes		Pass	
7 Low energy lights		_		
Percentage of fixed lights with low-energy fittings	100	%		
Minimum	75	%	Pass	
8 Mechanical ventilation				
Continuous extract system				
Specific fan power	0.70			
Maximum	0.7		Pass	
Criterion 3 – Limiting the effects of heat gains in su	mmer			
<u>9 Summertime temperature</u>				
Overheating risk (Thames Valley)	Not significant		Pass	
Based on:				
Overshading	Average			
Windows facing North	6.70 m <sup>2</sup> , No overhang			
Windows facing South	1.89 m <sup>2</sup> , No overhang			
Windows facing West	3.78 m <sup>2</sup> , No overhang			
Air change rate	6.00 ach			
Blinds/curtains	Light-coloured venetian blind, closed 100% of daylight hours			
Criterion 4 – Building performance consistent with	DER and DFEE rate			
Party Walls				
Туре	U-value			
Solid Wall	0.00	W/m²K	Pass	
Air permeability and pressure testing				
3 Air permeability				
Air permeability at 50 pascals	3.92 (design value)			
Maximum	10.0		Pass	
<u>10 Key features</u>				
External wall U-value	0.12	W/m²K		
External wall U-value	0.12	W/m²K		
External wall U-value	0.12	W/m²K		
External wall U-value	0.12	W/m²K		
Party wall U-value	0.00	W/m²K		
Floor U-value	0.10			
Window U-value	1.00	W/m²K		
Air permeability	3.9	 m³/m²h		
	L			





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

