BASIC COMPLIANCE REPORT Calculation Type: New Build (As Designed)					Design SAP elmhurst energy		
<b>Property Reference</b>	The Hall P01				ls	sued on Date	17/11/2020
Assessment	Plot 01 R1			Pro	op Type Ref		
Reference							
Property	Plot 1, The Hall, Le	eatherhead I	Road, Ch	essington, KT9 2NB			
SAP Rating			102 A	DER	-0.02	TER	17.75
Environmental			102 A	% DER <ter< td=""><td></td><td>100.11</td><td></td></ter<>		100.11	
CO <sub>2</sub> Emissions (t/year)			-0.51	DFEE	53.54	TFEE	57.95
General Requireme	ents Compliance		Pass	% DFEE <tfee< td=""><td></td><td>7.61</td><td></td></tfee<>		7.61	
Assessor Details	Mr. Steven Leahy, Con info@countyinspection		ions, Tel	: 01455883250,		Assessor ID	A593-0001
Client	Prunus Developments	s, 8899					
SUMARY FOR INPUT	DATA FOR New Build	(As Designe	d)				
	ing the TER and TFEE ra						
1a TER and DER	0						
Fuel for main hea	ating		Mains g	tas			
Fuel factor	0		1.00 (mains gas)				
Target Carbon Di	oxide Emission Rate (T	ER)	17.75			kgCO <sub>2</sub> /m <sup>2</sup>	
Dwelling Carbon Dioxide Emission Rate (DER)		(DER)	-0.02			kgCO <sub>2</sub> /m <sup>2</sup>	Pass
			-17.77 (	-100.1%)		kgCO <sub>2</sub> /m <sup>2</sup>	
<b>1b TFEE and DFEE</b>							
Target Fabric Ene	Target Fabric Energy Efficiency (TFEE)					kWh/m²/yr	
Dwelling Fabric E	nergy Efficiency (DFEE	)	53.54			kWh/m²/yr	
			-4.5 (-7	.8%)		kWh/m²/yr	Pass
Criterion 2 – Limits o							
Limiting Fabric S	tandards						
2 Fabric U-values	5						
Element		Average		Hig	ghest		
External w	vall	0.18 (max			18 (max. 0.70)		Pass
Floor		0.13 (max			13 (max. 0.70)		Pass
Roof		0.13 (max			13 (max. 0.35)		Pass
Openings	-1	1.38 (max	. 2.00)	1.4	40 (max. 3.30)		Pass
2a Thermal bridg							
	ging calculated from lir	lear thermal	transmi	ttances for each jun	ction		
<u>3 Air permeabilit</u>							
Air permeability at 50 pascals		5.00 (design value)					
Maximum			10.0				Pass
Limiting System							
<u>4 Heating efficien</u>							
Main heating	system		1	ystem with radiator om manufacturer	s or underfloor	- Mains gas	Pass
			To Be Confirmed To Be Confirmed				
				cy: 90%			
			liviinimt	ım: 88%			



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



Secondary heating system	None		
5 Cylinder insulation			
Hot water storage	Measured cylinder loss: 2.30 kWh/day		Pass
	Permitted by DBSCG 2.30		
Primary pipework insulated	Yes		Pass
<u>6 Controls</u>			
Space heating controls	Time and temperature zone control		Pass
Hot water controls	Cylinderstat	Pass	
	Independent timer for DHW	Pass	
Boiler interlock	Yes		Pass
7 Low energy lights			
Percentage of fixed lights with low-energy fittings	100	%	
Minimum	75	%	Pass
8 Mechanical ventilation		-	
Not applicable			
Criterion 3 – Limiting the effects of heat gains in su	mmer		
<u>9 Summertime temperature</u>			
Overheating risk (Thames Valley)	Slight		Pass
Based on:			1
Overshading	Average	]	
Windows facing North	0.63 m <sup>2</sup> , No overhang		
Windows facing East	4.95 m <sup>2</sup> , No overhang		
Windows facing South	2.88 m <sup>2</sup> , No overhang		
Windows facing West	11.94 m <sup>2</sup> , No overhang	]	
Air change rate	5.00 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	5.00 (design value)	]	
Maximum	10.0	Pass	
<u>10 Key features</u>			
Photovoltaic array	5.09	kW	
	<u></u>		

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

