

Passive House Verification

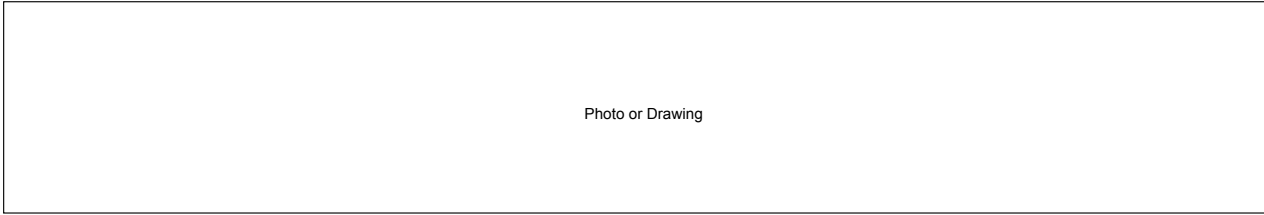


Photo or Drawing

Building: **The Den**
 Location and Climate: **Anstey, Dorset** **South England**
 Street: **Hartfoot Lane**
 Postcode/City: **DT2 7PN**
 Country: **Dorset**
 Building Type: **Private residence**
 Home Owner(s) / Client(s): **Dennis Merrigan, Principal Contractors**
 Street: **50 Webbs Road**
 Postcode/City: **London SW11 6SF**
 Architect: **Conker Conservation Ltd**
 Street: **6 The Stour Centre, 22-24 Stour Street**
 Postcode/City: **Canterbury CT1 2NZ**
 Mechanical System: **Green Building Store**
 Street:
 Postcode/City:
 Year of Construction: **2013**
 Number of Dwelling Units: **1** Interior Temperature: **20.0** °C
 Enclosed Volume V_e : **661.0** m³ Internal Heat Gains: **2.1** W/m²
 Number of Occupants: **4.5**

Specific Demands with Reference to the Treated Floor Area			
	Treated Floor Area:	Applied:	Monthly Method
	158.6 m ²		
Specific Space Heat Demand:		12	kWh/(m²a)
Pressurization Test Result:		0.6	h⁻¹
Specific Primary Energy Demand (DHW, Heating, Cooling, Auxiliary and Household Electricity):		90	kWh/(m²a)
Specific Primary Energy Demand (DHW, Heating and Auxiliary Electricity):		50	kWh/(m²a)
Specific Primary Energy Demand Energy Conservation by Solar Electricity:		31	kWh/(m²a)
Heating Load:		10	W/m²
Frequency of Overheating:		7	%
Specific Useful Cooling Energy Demand:			kWh/(m²a)
Cooling Load:		5	W/m²

PH Certificate:	Fulfilled?
15 kWh/(m²a)	Yes
0.6 h ⁻¹	Yes
120 kWh/(m ² a)	Yes
over 25 °C	
15 kWh/(m ² a)	

We confirm that the values given herein have been determined following the PHPP methodology and based on the characteristic values of the building. The calculations with PHPP are attached to this application.

Issued on:

signed: