

SAP Calculation Summary Revision Schedule

Client Name: Metis Build Ltd

Project Name: Long Copse Lane, Emsworth

SAP Ref: SAP-1231

SAP Version: SAP 2012

DER/TER %
Improvement
Required: 19.0 %

Target FEE
Score: None



Plot No.	SAP 2012						Solar HW		Solar PV*		Air Perm Rating
	DER	TER	%	DFEE	TFEE	%	m²	Facing	kW Peak	Proposed Facing	
1	11.91	15.06	20.92	47.97	55.21	13.11	None	N/A	1.36	South	5.00
2	12.74	16.06	20.67	52.46	58.93	10.98	None	N/A	1.36	3 x S 1 x E	5.00
3	13.77	17.24	20.13	46.69	51.47	9.29	None	N/A	0.76	South	5.00
4	13.77	17.24	20.13	46.69	51.47	9.29	None	N/A	0.76	South	5.00
5	12.03	15.09	20.28	48.74	55.87	12.76	None	N/A	1.36	South	5.00
6	13.61	17.01	19.99	47.57	52.20	8.87	None	N/A	0.76	South	5.00
7	13.61	17.01	19.99	47.57	52.20	8.87	None	N/A	0.76	South	5.00
8	13.55	16.83	19.49	46.23	50.44	8.35	None	N/A	0.76	South	5.00
9	13.55	16.83	19.49	46.23	50.44	8.35	None	N/A	0.76	South	5.00
-											

Revision Date	12/04/2022
Revision Reference	Rev A
Revision Comments	Revision for client comments. Change to Gas Boiler & Solar PV to achieve a 19% improvement offered to HBC as part of planning negotiations.

Fabric	External Walls	U-Value = 0.19	External Finish, 150mm Knauf Dritherm 37, 100mm Durox Supabloc or similar, 12.5mm plasterboard on dabs with skim finish.
	Solid Garage Wall - Plot 2	U-Value = 0.17	U-Value Calculation provided by Dean Adams.
	Party Walls	U-Value = 0.00	Plasterboard on dabs to each side, based on dense concrete blocks. Filled cavity with edge sealing.
	Ground Floor	U-Value = 0.12	Block & Beam Floor, 150mm Celtoex XR4000, 75mm Screed.
	Ground Floor 1&5	U-Value = 0.12	Raft Slab, 150mm Celtoex XR4000, 75mm Screed.
Openings	Pitched Roofs	U-Value = 0.10	400mm Mineral Wool insulation to loft space.
	Front Door	U-Value = 1.60	U-Value not to exceed.
	Side Door	U-Value = 1.50	U-Value not to exceed.
	Personnel Door	U-Value = -	-
	Windows	U-Value = 1.40	U-Value not to exceed.
	French Doors	U-Value = 1.50	U-Value not to exceed.
	Roof Lights	U-Value = -	-
	Glazed Roofs	U-Value = -	-
HW & Heating	Boiler	Plots 1,2&5: Vaillant ecoTEC plus 618. Other Plots: Vaillant ecoTEC Sustain 28.	
	Emitter Type	Radiators throughout all plots.	
	Controls	1,2&5: Time and temperature zone controls. Other Plots: Programmer, Roomstat/s & TRV's	
	Cylinder Size	Plots 1,2&5 - 250 litres	
	Standing Loss	Plots 1,2&5 - Loss not to exceed 2.25 kwh/day	
Misc.	Secondary Heating	None currently specified.	
	Thermal Bridging	Calculated using Accredited Construction Details with Hi-Therm Lintels	
	Ventilation Type	System 3 - Based on Greenwood CIVGIP2 fans to all kitchens, utility rooms and wet rooms.	
	Renewables*	As detailed above.	
	Lighting	100% low energy lighting	
Other	Showers	Non Electric only.	
	Water Usage	Water usage not to exceed 110 litres/person/day.	

This revision schedule should be read in conjunction with your full SAP report, as this schedule only provides a brief overview of the project or plot. This revision schedule should be read in conjunction with your full SAP report, as this schedule only provides a brief overview of the project or plot, every effort has been made to ensure this summary is correct. However in no event shall BEAT Solutions be liable for any incidental, indirect, consequential or special damages of any kind, or any damages whatsoever, including, without limitation, those resulting from loss of profit, loss of contracts, goodwill, data, information, income, expected savings or business relationships, whether or not advised of the possibility of such damage, arising out of or in connection with the use of this document.

* kW Peak from proposed PV files/panels to be confirmed by specialist engineer taking into account site specific facings, overshadowing and elevations.