



ELECTRICAL LOAD CALCULATION

CITY OF SANTEE PLANNING & BUILDING DEPARTMENT
10601 Magnolia Ave, Santee, CA 92071
(619) 258-4100 Ext. 154 or 155

Inspector: _____

Date of Inspection : _____

GENERAL INFORMATION:

1. PERMIT #: _____ PROJECT ADDRESS: _____

2. CONTRACTOR: _____ PHONE #: _____ CA LICENSE #: _____

CERTIFICATION:

I certify that the information on the calculations and tables below is accurate and complete. I also certify that the electrical installation on this project conforms to the current requirements of the California Electrical Code as well as industry standards.

SIGNATURE: _____ PRINTED NAME: _____ DATE: _____

PHONE #: (_____) _____ E-MAIL ADDRESS: _____

LOAD CALCULATION: Electrical Service Load Calculation – Optional Method CEC 220.80 & .82

The Standard Method found in Article 220 of the NEC may be used

1. General Lighting Loads

Dwelling _____ sq. ft. x 3 VA = _____ VA
Small appliance loads 1500 VA x _____ circuits = _____ VA
Laundry load 1500 VA x _____ circuits = _____ VA
General Lighting Total = _____ VA

2. Cooking Equipment Loads (Nameplate value)

Range _____ VA = _____ VA
Cooktop _____ VA = _____ VA
Oven(s) _____ VA = _____ VA
Cooking Equipment Total = _____ VA

3. Electric Dryer Load

(Nameplate value – 5000 VA minimum)

Dryer _____ VA **Dryer Total** = _____ VA

4. Fixed Appliance Loads (Nameplate value)

Dishwasher _____ VA = _____ VA
Disposal _____ VA = _____ VA
Compactor _____ VA = _____ VA
Water Heater _____ VA = _____ VA
Microwave _____ VA = _____ VA

All other fixed appliances _____ VA
Fixed Appliance Total = _____ VA

5. Subtotal Categories 1-4 = _____ VA

6. Demand Factors

First 10,000 VA from subtotal above @ 100% = 10,000 VA

Remaining VA from Subtotal above @40% = _____ VA

7. Heating or A/C Load = _____ VA

Larger of Heating or A/C Load

8. EV Charger = _____ VA

Electrical Vehicle Charger

9. Load Total = _____ VA

Add Line 6,7, and 8

10. Minimum Service Size = _____ VA

Divide Load Total (Item #8) by 240 Volts

Divide Load Total (Item #8) by 240 Volts

MINIMUM RECOMMENDED SERVICE PANEL _____ AMPS

PANEL: _____ A.I.C. _____ VOLTS _____ Ø _____ WIRE

LOCATION	CKT	BKR SIZE	WIRE		MISC	LTG	REC	REC	LTG	MISC	WIRE		BKR SIZE	CKT	LOCATION
			SIZE	TYPE							SIZE	TYPE			
	1													2	
	3													4	
	5													6	
	7													8	
	9													10	
	11													12	
	13													14	
	15													16	
	17													18	
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
	31													32	
	33													34	
	35													36	
	37													38	
	39													40	
	41													42	

MAIN: _____ AMP BRK/FUSE MAIN LUG ONLY

BUS: _____ AMP

Service entrance or feeder conductors:

- A) Size: No. _____ B) Type: CU AL
 C) Insulation: _____ D) Conduit Size: _____

Service Grounding Electrode Conductor/Bond: CEC 250

- A) Size GEC: No. _____ B) Type Wire: CU AL
 Concrete Encased (UFER) 250.52(3)
 Ground Rod(s) 250.52(5)
 Supplemental 250.53
 D) Size Bond: No. _____ E) Type Wire: CU AL
 Water Pipe 250.104(a)

GFCI locations 210.8, 680.21(c) 680.22-23 680.56(a)

- Bathroom(s) Kitchen/Other Sinks Pools/
 Garages(s) Hydromassage Tub Indoor
 Dishwasher(s) Outdoor Wet Locations

AFCI Protected Circ. 210.12 (A)(B)(C)

- Bed, Family, Dining, Living, Halls, and Similar Rooms.

Branch circuits required:

- A) Lighting Circuits 220.12 220.14(j)
 B) Two Small Appliance Circuits 210.11(c)(1)
 C) Laundry Circuit 220.11(c)(2)
 D) Central Heating Equipment 422.12
 E) Bathroom 210.52(d)

REMARKS: _____

I certify that all terminations have been torqued in accordance with manufacturer's instructions and that the work shown on this circuit card represents the full extent of the work performed under this permit.

OWNER NAME: _____
 CONTRACTOR NAME: _____
 SIGNATURE: _____ DATE: _____