



CITY OF ENCINITAS
 Development Services Department
 505 S. Vulcan Ave
 Encinitas, CA 92024
www.encinitasca.gov
 Phone: 760-633-2730
 Email: building@encinitasca.gov

ELECTRICAL SERVICE LOAD CALCULATION SINGLE FAMILY DWELLING

OPTIONAL METHOD CEC 220.80

As an alternative method, the STANDARD METHOD, found in ARTICLE 220 of the CA Electrical Code, may be used

1. GENERAL LIGHTING LOADS

Dwelling – 220.14(J), 220.82(B)(1) _____ sq. ft. x 3 VA = _____ VA
 Small appliance loads – 220.52(A), 220.82(B)(2) 1500 VA x _____ circuits = _____ VA
 Laundry Load – 220.52(B), 220.82(B)(2) 1500 VA x _____ circuits = _____ VA
General Lighting Total _____ **VA**

2. COOKING EQUIPMENT LOADS – Nameplate Value – 220.82(B)(3)(b)

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

3. ELECTRIC DRYER 220.54, 220.82(B)(3)(c) (Nameplate, 5000 VA minimum)

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

4. FIXED APPLIANCE LOADS 220.53, 220.82(B)(3)(a), 220.82(B)(4)

Dishwasher = _____ VA
 Disposal = _____ VA
 Compactor = _____ VA
 Water Heater = _____ VA
 Hydromassage Bathtub = _____ VA
 Microwave Oven = _____ VA
 Built-in Vacuum = _____ VA
 _____ = _____ VA
Fixed Appliance Total _____ **VA**

5. OPTIONAL SUBTOTAL (Add all the above totals) _____ **VA**

6. APPLYING DEMAND FACTORS – 220.82(B)(1)

Optional Subtotal (from line 5) { First 10,000 VA x 100% = 10,000 VA
 Remaining _____ VA x 40% = _____ VA

7. HEATING OR AC LOAD – 220.82(C)

Larger of the Heating or AC Load = _____ VA

8. OPTIONAL LOADS TOTAL (add totals from lines 6 and 7) = _____ VA

9. MINIMUM SERVICE SIZE

Optional Loads Total = _____ Ampere
 240 Volt

(Please put total on front of card under Computed Load)