



CITY OF FOSTER CITY

Community Development Department

Building Division

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Residential Electrical Load Calculation Sheet

1. General Lighting: Table 220.12

_____ sq. ft. x 3 VA = _____ VA

Small Appliances: 220.52 (A)

1,500 VA x _____ Circuit(s) (Min. 2) = _____ VA

Laundry: 220.52 (B)

1,500 VA x 1 Circuit = _____ VA

Total Demand: _____ VA

Applying Demand Factors: Table 220.42

First 3,000 VA x 100% = _____ 3,000 VA

_____ x 35% = _____ VA

(Additional)

Total: _____ VA

2. Fixed Appliances 110V: 220.53

(It shall be permissible to apply a demand factor of 75% for 4+ appliances)

	(Min.)
Dishwasher	_____ (1,500) VA
Disposer	_____ (800) VA
Compactor	_____ (99) VA
Microwave	_____ (1,300) VA
Spa	_____ (12,000) VA
Refrigerator	_____ (400) VA
Freezer	_____ (800) VA
Attic Fan	_____ (1,600) VA
Insta-Hot	_____ VA
RV (20/30/50)	_____ VA
Other	_____ VA

Total: _____ VA x 75% = CDD - _____ VA

3. Fixed Appliances 220V: Table 220.54

Dryer (Min. 5,000 VA or Nameplate) _____ VA x 100% = _____ VA
Insta-Hot _____ VA x 100% = _____ VA
Steam Shower _____ VA x 100% = _____ VA
RV (20/30/50 amp) _____ VA x 100% = _____ VA
Other (Compressor, Welder, etc.) _____ VA x 100% = _____ VA

4. Cooking Equipment: Table 220.55

Col A _____ VA x 80% = _____ VA
Col B _____ VA x 75% = _____ VA
Col C _____ VA x 70% = _____ VA

Total: _____ VA

5. Heating or A/C: 220.60 (Non-Coincident Loads)

Heating Unit _____ VA x 100% = _____ VA
A/C Unit _____ VA x 100% = _____ VA
Heat Pump _____ VA x 100% = _____ VA

Largest Single Load: _____ VA

6. Largest Motor: 220.14 (C) = > 430.24 & 440.6 (from Sec. 5)

A/C Unit or Electric Dryer _____ VA x 25% = _____ VA

7. EV Charger: _____ VA x 1.25 (cont. duty) = _____ VA

(If connected using plug, calculate off breaker size. If hardwired, use charger maximum draw.)

Energy Management System: _____ Yes _____ No

8. Required Service Size:

Total Volt Amps = _____ VA
VA/240 = _____ Amps
Minimum Service Conductor Size # _____ Copper
Grounding Service Conductor Size # _____ Copper
Size of Existing Main Breaker _____ Amps