



**Community Development/Building Division
50 Natoma Street, Folsom, California 95630 (916) 351-3555**

STANDARD CALCULATION (2016 California Electrical Code)

1. **General Lighting Loads** 220.42 _____ sq. ft. x 3 VA = _____ VA
 Minimum number of circuits
 _____ VA ÷ 120 Volts = _____ Amperes
 _____ Amperes ÷ 15 or 20 amperes = circuits

2. **Small Appliance Branch Circuits** _____ x 1,500 VA = _____ VA
 220.52(A) (min. of two small appliance circuits required)

3. **Laundry Equipment Load** 220.52(B) _____ x 1,500 VA = _____ VA

4. **Total General Lighting**, Small appliance and Laundry Circuit Load (1+2+3)

5. **Application of Demand Factors** Table 220.54
 First 3,000 Volt-Amperes at 100% _____ 3,000 VA
 Total minus 3,000 VA = _____ at 35% _____ VA
 Net general lighting and small appliance load _____ VA

Appliance load – Dwelling Unit(s) 220.53

<u>Appliance</u>	<u>Nameplate Load</u>	
Dishwasher	_____	
Disposal	_____	
_____	_____	
_____	_____	
Total	_____	_____ VA
Four or more total	_____ x 75%	_____ VA

6. **Add Range and Dryer Loads**

Range Load	Table 220.55	_____ VA
Dryer Load	Table 220.54	_____ VA
	Total calculated load	_____ VA
Minimum size of ungrounded service entrance conductors		
	_____ VA ÷ 240 volts =	_____ AMPS

7. **Minimum Size of Grounded (Neutral Service Entrance Conductors)**

Lighting and small appliance load	_____ VA
Range Load of 8,000 Volt-amperes at 70%	_____ VA
Dryer load of 5,000 Volt-amperes at 70%	_____ 3,500 VA
Total for grounded service-entrance conductor	_____ VA
_____ Volt-amperes ÷ 240 volts =	_____ AMPS