

City of Walnut Creek
 Community Development Department
Building Division
 Phone (925)943-5834
 Fax (925)256-3500

DWELLING UNIT ELECTRICAL LOAD CALCULATION¹

Permit Number _____ Service Amperes _____
 Job Address _____ Feeder Amperes _____

Quantity	Load Item	Minimum Rate	Column 1	Column 2
	Dwelling Square Footage	3w/sq.ft.		
	Small Appl. (2 min)	1500 V-A/ea.		
	Electric-cook top(s)	5100		
	Electric oven(s)	8000		
	Dish Washer	1200		
	Garbage Disposal	800		
	Laundry circuit	1500		
	Forced air unit	550		
	Air Conditioner(s)			
	Pool Equipment			
	Individual space heating			
	Microwave	1600		
	Electric Clothes Dryer	5000		
	TOTALS			

First 8,000* V-A at 100% _____ 8,000*

Column 1 (minus 8,000*) x 40% _____

Column 2 at 100% _____

Calculated Volt-Amperes _____

Divide watts by 240 _____

Calculated Amperes _____

COMPARE Calculated Amperes to Service and Feeder Amperes to determine upgrade.

*Use the first 8,000 Volt-Amperes for additional loads to existing dwellings. Use 10,000 Volt-Amperes in calculations for new dwelling units. NEC Article 220.83

Preparer's Name _____ Phone # (_____) _____

¹ This form is based on Article 220 of the National Electrical Code. This is intended as a guide for those desiring to prepare their own plans. Because of varying conditions from project to project loads given in this form may not meet requirements of the Electrical Code. A representative of the City of Walnut Creek Building Inspection Division will be happy to provide assistance upon request.