



CIRCUIT CARD AND LOAD SUMMARY

CITY OF IMPERIAL BEACH
 BUILDING DEPARTMENT
 825 IMPERIAL BEACH BLVD.
 IMPERIAL BEACH, CA 91932
 (619) 628-1357

THIS CARD MUST BE FILLED OUT AND AVAILABLE AT THE SERVICE EQUIPMENT FOR THE ROUGH INSPECTION

Address: _____		Permit Number: _____
Owner: _____	Phone: _____	Area in Sq. Ft. _____
Contractor: _____	Phone: _____	

PANEL: _____							VOLTS _____ Ø _____					WIRE _____		
LOCATION	CKT	BKR SIZE	WIRE		MISC	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	

<p>MAIN: <input type="checkbox"/> _____ AMP BRK/FUSE <input type="checkbox"/> MLO</p> <p>BUS: _____ AMP</p> <p>Service entrance or feeder conductors:</p> <p>A) Size: No. _____ B) Type: <input type="checkbox"/> CU <input type="checkbox"/> AL</p> <p>C) Insulation: _____ D) Conduit Size: _____</p> <p>Service ground:</p> <p>A) Size: No. _____</p> <p><input type="checkbox"/> UFER</p> <p><input type="checkbox"/> Water Pipe</p> <p><input type="checkbox"/> Ground Rods</p> <p>Bonding:</p> <p><input type="checkbox"/> Water piping _____</p> <p><input type="checkbox"/> Gas piping _____</p> <p><input type="checkbox"/> Sprinkler system _____</p> <p><input type="checkbox"/> Structural Steel _____</p>	<p>Computed Load _____ AMPS</p> <p style="text-align: center;"><i>See Calculation Worksheet on back</i></p> <p>Branch circuits required:</p> <p>A) Lighting Circuits 220 – 3(b), 4(d)</p> <p>B) Two Small Appliance Circuits 210 – 11(e)</p> <p>C) Laundry Circuit 220 – 16(b)</p> <p>D) Central Heating Equipment 422 – 12</p> <p>E) Bathroom 210 - 52(d)</p> <p>Indicate all GFCI and AFCI circuits on panel schedule</p> <p>Remarks: _____</p> <p>_____</p> <p>_____</p> <p><i>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.</i></p> <p><input type="checkbox"/> Owner _____</p> <p><input type="checkbox"/> Contractor _____</p> <p><input type="checkbox"/> Signed _____ Date _____</p>
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**SINGLE FAMILY DWELLING
ELECTRICAL SERVICE LOAD CALCULATION**

OPTIONAL METHOD NEC 220-30

*As an alternative method, the STANDARD METHOD
found in ARTICLE 220 of the National Electric Code, may be used*

1. GENERAL LIGHTING LOADS

Dwelling _____ sq. ft. x 3 VA = 220-3(a) _____ VA
 Small appliance loads – 220-16(a) 1500 VA x _____ circuits = _____ VA
 Laundry load – 220-16(b) 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 220-18 (Nameplate, 5000 VA minimum)

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

4. FIXED APPLIANCE LOADS 230-30 (b) (3)

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 of the above totals)

_____ VA

6. APPLYING DEMAND FACTORS – TABLE 220-30

First 10,000 VA x 100% = 10,000 VA

Optional Subtotal (from line 5) { Remaining _____ VA x 40% = _____ VA

7. HEATING OR AC LOAD – TABLE 220-30

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)