

ELECTRICAL LOAD ESTIMATING WORKSHEET FOR ROOM ADDITIONS

(Calculate the house and the addition as one)

Number of:

1) Square footage of total living area X 3 watts/sq ft. = watts

2) 20 amp small appliance branch circuits @ 1500 watts each = watts
(A minimum of 2 small appliance circuits for the kitchen is required)

3) Laundry circuits @ 1500 watts each = watts

4) Electrical appliances at nameplate value (rate):

	a. Range	12000 each or rate		watts
	b. Cooktop	5100 each or rate		watts
	c. Oven	8000 each or rate		watts
	d. Garbage disposal	800 each		watts
	e. Clothes dryer	5500 each		watts
	f. Dishwasher	1200 each		watts
	g. Swimming pool	1000 each		watts
	h. Other:			watts
	i. Other:			watts

(Spa, welder, out-building(s), other loads, etc.)

5) Sub Total (Add Lines 1-4) watts

6) First 8,000 watts @ 100% watts

7) Balance @40% ((Line 5 subtract 8000) multiplied by 40%(.4)) watts

8) Air conditioning @ 100% 1600 per ton or rate* watts

9) Central space heating 550 each watts

10) Space heaters @100% Label rating watts

*12000 BTUs = 1 Ton

11) Sub total (Add lines 8-10) watts

12) Total watts (Add line 6, 7 & 11) watts

Convert to amps by dividing by 240 volts (A=W/V)

13) (Divide line 12 by 240 volts) Total amps required = amps

Minimum Service Size is 100amp, 125amp, 150amp, 200amp or larger amp

Notes:
