

ELECTRICAL CALCULATION WORKSHEET

GENERAL LOADS

GENERAL LIGHTING LOAD: _____ Sq. Ft. X 3 volt-amps (VA) The calculated floor area shall not include porches, garages or unused/unfinished spaces not adaptable for future use – such as attics and crawl spaces, but shall include unfinished basements. The 3 VA per sq. ft. unit is based on minimum load calculations and 100% power factor and may not provide sufficient capacity for the installation proposed.				(1)	VA
SMALL APPLIANCE LOAD: _____ X 1,500 VA (2 MINIMUM)				(2)	VA
LAUNDRY LOAD: _____ X 1,500 VA (1 MINIMUM)				(3)	VA
TOTAL NAMEPLATE VA RATING OF ALL FASTENED IN PLACE, PERMANENTLY CONNECTED, OR LOCATED TO BE ON A SPECIFIC CIRCUIT – INCLUDE ALL MOTORS AND ALL LOW POWER FACTOR LOADS					
RANGE(S)	QUANTITY: _____	(4)	VA		
WALL-MOUNTED OVEN(S)	QUANTITY: _____	(5)	VA		
COUNTER MOUNTED COOKING UNIT(S)	QUANTITY: _____	(6)	VA		
MICROWAVE(S)	QUANTITY: _____	(7)	VA		
COOKING EXHAUST HOOD(S)	QUANTITY: _____	(8)	VA		
CLOTHES DRYER(S)	QUANTITY: _____	(9)	VA		
WATER HEATER(S)	QUANTITY: _____	(10)	VA		
DISHWASHER(S)	QUANTITY: _____	(11)	VA		
TRASH COMPACTOR(S)	QUANTITY: _____	(12)	VA		
GARBAGE DISPOSAL(S)	QUANTITY: _____	(13)	VA		
CEILING FAN(S)	QUANTITY: _____	(14)	VA		
BATHROOM/LAUNDRY EXHAUST FAN(S)	QUANTITY: _____	(15)	VA		
GARAGE DOOR OPENER(S)	QUANTITY: _____	(16)	VA		
HYDROMASSAGE BATHTUB(S)	QUANTITY: _____	(17)	VA		
WELL PUMP(S)	QUANTITY: _____	(18)	VA		
SUMP PUMP(S)	QUANTITY: _____	(19)	VA		
ELEVATOR(S)	QUANTITY: _____	(20)	VA		
ELECTRIC WELDER(S)	QUANTITY: _____	(21)	VA		
AIR COMPRESSOR(S)	QUANTITY: _____	(22)	VA		
OTHER: SPECIFY: (Central vacuum system(s), electric fireplace(s), gas fireplace blower unit(s), etc.)	QUANTITY: _____	(23)	VA		
OTHER: SPECIFY: (Attic fan(s), freezer(s), water heater recirculating pump, electric stream unit, etc.)	QUANTITY: _____	(24)	VA		
GENERAL LOADS SUBTOTAL (ADD LINES 1 THRU 24)				(25)	VA
APPLY DEMAND FACTOR TO GENERAL LOADS SUBTOTAL (LINE 25) AND ADD RESULTS AS FOLLOWS:					
FIRST 10,000 VA OF GENERAL LOADS SUBTOTAL (LINE 25) AT 100% :					
GENERAL LOADS SUBTOTAL (UP TO AND INCLUDING 10,000 VA) _____ VA X 1.00				(26)	VA
REMAINDER OVER 10,000 VA AT 40%:					
GENERAL LOADS SUBTOTAL (LINE 25) _____ VA X 0.40				(27)	VA
GENERAL LOADS TOTAL (ADD LINES 26 THRU 27)				(28)	VA
INDICATE ALL OF THE FOLLOWING HEATING AND AIR CONDITIONING LOADS AS APPLICABLE:					
100% OF THE NAMEPLATE RATING(S) OF THE AIR CONDITIONING AND COOLING				(29)	VA
100% OF THE NAMEPLATE RATING(S) OF THE HEATING WHEN A HEAT PUMP IS USED WITHOUT ANY SUPPLEMENTAL ELECTRIC HEATING				(30)	VA
100% OF THE NAMEPLATE RATINGS OF ELECTRIC THERMAL STORAGE AND OTHER HEATING SYSTEMS WHERE THE USUAL LOAD IS EXPECTED TO BE CONTINUOUS AT THE FULL NAMEPLATE VALUE. SYSTEMS QUALIFYING UNDER THIS SELECTION SHALL NOT BE CALCULATED UNDER ANY OTHER SELECTION				(31)	VA
100% OF THE NAMEPLATE RATING(S) OF THE HEAT PUMP COMPRESSOR AND 65% OF THE SUPPLEMENTAL ELECTRIC HEATING FOR CENTRAL ELECTRIC SPACE HEATING SYSTEMS. IF THE HEAT PUMP COMPRESSOR IS PREVENTED FROM OPERATING AT THE SAME TIME AS THE SUPPLEMENTARY HEAT, IT DOES NOT NEED TO BE ADDED TO THE SUPPLEMENTARY HEAT FOR THE TOTAL CENTRAL SPACE HEATING LOAD				(32)	VA
65% OF THE NAMEPLATE RATING(S) OF ELECTRIC SPACE HEATING IF LESS THAN FOUR SEPARATELY CONTROLLED UNITS				(33)	VA
40% OF THE NAMEPLATE RATING(S) OF ELECTRIC SPACE HEATING IF FOUR OR MORE SEPARATELY CONTROLLED UNITS				(34)	VA
TOTAL HEATING AND AIR-CONDITIONING LOAD (INDICATE THE LARGEST LINE ITEM VA FROM LINES 29 THRU 34 ABOVE)				(35)	VA
CALCULATE LOAD FOR SERVICE SIZE:					
TOTAL LOAD (ADD LINES 28 AND 35):					
LINE 28	VA + LINE 35	VA		(36)	VA
DIVIDE LINE 36 BY 240-VOLTS (V):					
LINE 36	VA / 240 V			(37)	VA
STANDARD AMPERE RATING:					
THE STANDARD AMPERE RATINGS FOR FUSES AND INVERSE TIME CIRCUIT BREAKERS SHALL BE CONSIDERED 100 (MINIMUM FOR ONE FAMILY DWELLINGS), 110, 125, 150, 175, 200, 225, 250, 300, 350, 400, 450, 500, 600 AMPERES					