

**RESIDENTIAL ELECTRICAL LOAD WORKSHEET**

OWNER: _____

ADDRESS: _____

LIGHTING LOAD

Art. 220 - 3(a) Total square footage of habitable living area : _____ @ 3 watts per sqft = _____ watts

Art. 220 - 16(a) Two small appliance circuits @ 1500 watts each : _____ 2 _____ @ 1500 watts each = _____ 3000 _____ watts

Art. 220 - 16(a) Additional small appliance circuits each : _____ @ 1500 watts each = _____ watts

Art. 220 - 16(b) Laundry circuit (washing machine) @ 1500 watts ea. _____ @ 1500 watts = _____ watts

Lighting Load Subtotal = _____ watts

Table 220 - 11

First 3000 watts of lighting load subtotal: _____ @ 100% = _____ 3000 _____ watts

Remainder from 3001 to 120,000 watts: _____ @ 35% = _____ watts

Remainder over 120,000 watts: _____ @ 25% = _____ watts

LIGHTING LOAD TOTAL = _____ watts

APPLIANCE LOAD

Art. 220 - 17 Disposal: _____ X 600 watts = _____ watts

Microwave: _____ X 1500 watts = _____ watts

Compactor: _____ X 1200 watts = _____ watts

Dishwasher: _____ X 1200 watts = _____ watts

Food Center: _____ X 600 watts = _____ watts

_____: _____ X _____ watts = _____ watts

_____: _____ X _____ watts = _____ watts

Appliance Subtotal = _____ watts

APPLIANCE TOTAL

Art. 220 - 17 Appliance subtotal: _____ watts X _____ = _____ watts

[Less than 4 units @ 100%; 4 or more units @ 75%]

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ELECTRIC CLOTHES DRYER

Art. 220 - 18 5000 watts OR nameplate rating: [Whichever is larger] DRYER TOTAL = _____ watts

WATER HEATER (if electric)

Art. 220 - 3(b) @ Nameplate rating : WATER HEATER LOAD = _____ watts

HOUSEHOLD COOKING EQUIPMENT

Table 220 - 19 Cooking Units - Includes ranges, wall mounted ovens, countertop units, and other household cooking units.

Number of Units -

ONE unit use	8,000 watts:
TWO units use	11,000 watts:
THREE units use	14,000 watts:
FOUR units use	17,000 watts:
FIVE units use	20,000 watts:

COOKING TOTAL = _____ watts

SPACE HEATING / AIR CONDITIONING

Art. 220 - 4(a) Air conditioner nameplate rating [@ 125%] : _____ watts X 125% = _____ watts

Art. 220 - 21 OR [Whichever is larger]

Art. 220 - 15 Electric heat nameplate rating [@ 100%] :

HEAT PUMP

Art. 220 - 4(a) Largest condensing unit nameplate [@ 125%] : _____ watts X 125% = _____ watts

Art. 440 - 33 AND

Art. 220 - 15 Supplementary heat (resistance) [@ 100%] : _____ watts X 100% = _____ watts

ADDITIONAL HVAC EQUIPMENT

Art. 440 - 33 Condensing units or A/C's : > _____ watts X 100% = _____ watts

SPACE HEATING/AIR CONDITIONING TOTAL = _____ watts

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OPTIONAL EQUIPMENT

Art. 220 - 3(b) SWIMMING POOL and/or SPA: >

Art. 430 - 24 Largest motor nameplate :

watts X 125% = _____ watts

Remaining motor(s) nameplate(s) :

watts X 100% = _____ watts

Lights and other misc. equipment :

watts X 100% = _____ watts

POOL/SPA TOTAL = _____ watts

Art. 220 - 3(b) WELDERS, KILNS, ETC.

1. Name or description of equipment :

@ rated nameplate :

watts X 100% = _____ watts

2. Name or description of equipment :

@ rated nameplate :

watts X 100% = _____ watts

3. Name or description of equipment :

@ rated nameplate :

watts X 100% = _____ watts

MISCELLANEOUS EQUIPMENT TOTAL = _____ watts**TOTAL DEMAND ON SYSTEM**

Art. 220 - 10 Sum of all totals :

LIGHTING LOAD TOTAL = _____ watts

APPLIANCE TOTAL = _____ watts

DRYER TOTAL = _____ watts

WATER HEATER TOTAL = _____ watts

COOKING TOTAL = _____ watts

SPACE HEATING/AIR CONDITIONING TOTAL = _____ watts

POOL/SPA TOTAL = _____ watts

MISCELLANEOUS EQUIPMENT TOTAL = _____ watts

TOTAL LOAD FOR DWELLING = _____ watts

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MAIN SERVICE SIZING

Art. 220 - 2 TOTAL LOAD _____ DIVIDED BY: _____ volts = _____ Amps
 [NOTE: For 120/240 Volt systems use 240 volts; for 120/208 Volt systems use 208 volts]

Art. 220 - 10 MINIMUM SERVICE SIZE _____ AMPS

Table 310 - 16 SERVICE ENTRANCE CONDUCTORS _____ AWG, Cu, _____ AWG, Al.

Table 250 - 94 GROUNDING ELECTRODE CONDUCTOR _____ AWG Copper

OPTIONAL CALCULATION FOR DWELLING UNIT

Table 220 - 30 100% of the nameplate rating(s) of the air conditioning _____ watts

100% of the first 10 kVA of all other load _____ watts

40% of the remainder of all other load _____ watts

TOTAL OPTIONAL LOAD _____ watts

Art. 220 - 2 TOTAL OPTIONAL LOAD: _____ DIVIDED BY: _____ volts = _____ Amps
 [NOTE: For 120/240 Volt systems use 240 volts; for 120/208 Volt systems use 208 volts]

Art. 220 - 10 MINIMUM SERVICE SIZE _____ AMPS

Table 310 - 16 SERVICE ENTRANCE CONDUCTORS _____ AWG, Cu, _____ AWG, Al.

Table 250 - 94 GROUNDING ELECTRODE CONDUCTOR _____ AWG Copper