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### **Residential Electrical Load Calculation Worksheet**

The residential load calculation worksheet

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calculates the electrical demand load in accordance with National Electrical Code. The worksheet helps to provide an accurate, consistent, and simplified method of determining the minimum size electrical service for a new or existing dwelling looking to add additional electrical load.

**Download Electrical**  
*Page 7/28*

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worksheets in the  
category - Electrical  
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of the worksheets  
displayed are  
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Standard method for  
dwelling service  
calculations, Handbook  
of electric power  
calculations,  
Residential hvac work,  
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Quantity volt amperes  
va g, Introduction to  
unit 1 electricians math  
and basic, Energy  
calculation work 2018.

**Electrical Load  
Calculation -  
Printable  
Worksheets**

Worksheet 1 (heating  
load larger than A/C  
load) and Worksheet 2  
(A/C load larger than  
heating load) use the  
optional calculation  
found in NEC 220.82

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for a new single-family dwelling. Worksheet 3 uses the optional calculation found in NEC 220.83 to compute the adequacy of the existing service when a room addition is built or other loads are added to an existing single-family dwelling.

**Residential Load**  
**Calculators - Central**  
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CALCULATIONS . Title:  
Residential Electrical  
Load Calculation  
Worksheet Author: ds1  
Created Date:  
8/18/2008 12:36:31 PM  
...

**Residential Electrical  
Load Calculation  
Worksheet**

Standard Method for  
Dwelling Service  
Calculations Worksheet  
for the EVITP Using the

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Standard Method

complete this

worksheet to perform a  
service load

calculation. An

example of standard  
loads is shown below.

3000 Sq. Ft. of Living  
Space 1-15 kW Electric

Range 3- Small

Appliance Branch

Circuits 1- 5 kW Wall

Mounted Oven

## **Standard Method for Dwelling Service Calculations ...**

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Residential Load

Calculation is designed to be simple and yet ...

3- Residential

Calculation worksheet:

see fig.1 Step (1):

Article 220.42 &

220.52 (see fig.3) fig (3

... KW from the drop

down box #2 and you

will get the electrical

load in VA for both strip

heater and blower

loads. 3- Select the

quantities for A/C

Condenser and/or fixed

...

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**Residential Load  
Calculation  
Spreadsheet ~  
Electrical Knowhow**

The Residential  
Electrical Load  
Calculator is Pre-  
Loaded with electrical  
information for you to  
chose from. Click on  
the Question Mark  
Buttons for more  
specific information  
relating to each section  
and entry. Step 2.

Appliances and Motor

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Type Loads are typically larger equipment used in the kitchen, laundry room, garage.

## **Electrical Load Calculations for Residential Panel ...**

P&P Electrical Load  
Calculation Form

Updated: 02/02/2017

(jhall) BUILDING &  
SAFETY DIVISION |  
PLANS AND PERMITS  
DIVISION  
DEVELOPMENT

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SERVICES CENTER  
Calculation  
**RESIDENTIAL  
ELECTRICAL LOAD  
CALCULATION SHEET**

20 Electrical MS Excel  
Spreadsheets. This  
section is dedicated to  
tools every electrical  
engineer can use in  
daily work. These  
spreadsheets below  
will make your job  
much more easier,  
allowing you to shorten  
the time used for  
endless calculations of



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cables, voltage drop,  
various selections of  
circuit breakers,  
capacitors, cable size  
and so on.. Just to  
mention that all  
calculation  
spreadsheets ...

## **10 Electrical MS Excel Spreadsheets (Calculations of ...**

Electrical tools (MS  
Excel Spreadsheets)

This section is  
dedicated to tools  
every electrical

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engineer can use in daily work. These spreadsheets below will make your job much more easier, allowing you to shorten the time used for endless calculations of cables, voltage drop, various selections of circuit breakers, capacitors, cable size and so on.

## **Electrical MS Excel Spreadsheets**

To illustrate the

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### Electrical Load

method for sizing an electrical service.

Contractor \_\_\_\_\_ Address \_\_\_\_\_  
... Single Family

Dwelling Load

Calculation - Step by Step Example (Optional Method) CEC 220.82.

2800 sq. ft. 14 ...

Compare the heating load to the AC load and take the larger of the two loads. AC load at ...

## **SINGLE FAMILY DWELLING ELECTRICAL LOAD**

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## **CALCULATION (O M**

The residential load calculation worksheet calculates the electrical demand load in

accordance with Article 220 of the 2017

National Electrical Code. The worksheet helps to provide an accurate, consistent, and simplified method of determining the minimum size electrical service for a new or existing dwelling looking to add

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additional electrical  
load.

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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 ... Residential  
Electrical Load

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Worksheet Author:  
mrivera Created Date:  
7/30/2003 8:03:40 AM  
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Document provide  
means of electrical  
load calculation

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according to National  
Electrical Code.

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**NEC- Residential  
Electrical Load Calc  
Worksheet | Home ...**

The residential load  
calculation worksheet  
calculates the electrical  
demand load in  
accordance with NEC  
Article 220. The  
worksheet helps to  
provide an accurate,  
consistent, and  
simplified method of  
determining the

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minimum size electrical service for a new or existing dwelling looking to add additional electrical load.

**Electrical  
Calculations Sheet  
-Main ~ Electrical  
Knowhow**

This spreadsheet can be used to calculate the load of:

1. Appliance demand
2. Dryer demand
3. Service demand
- 4.



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Range demand 5.

General lighting  
demand 6. Heating and  
CU Notes &

Instructions by the  
author included on the  
2nd sheet: "Residential  
Calculation."

\*Originally shared on el  
ectrical-engineering-  
portal.com\* This Best  
Practice includes

## **Residential Load Calculation Spreadsheet - Eloquens**

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### Electrical Load

In your feeder/service load calculation, include 1,500VA for the 20A laundry receptacle circuit [220.52(B)], as shown in Fig. 2. Feeder and service calculations. Occupants don't use all loads simultaneously under normal living conditions, so "demand factors" can be applied to many of the dwelling unit loads in order to size the service.

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**Dwelling Unit  
Calculations | EC&M**  
NEC Standard Method  
Single Family  
Residential - Electric  
Service Entrance Load  
Calculator Home > Site  
Map > Safety!>  
Contact Me ! > Enter  
plain numbers in cells  
without text or labels.  
If you leave any cells  
empty they will be  
calculated as zero.  
Total Square feet of  
dwelling Total # of  
Small Appliance Branch

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circuits (must be at least 2).

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