

# TOWN OF COCHRANE

## Building Safety Codes

101 RancheHouse Rd.  
 Cochrane, AB T4C 2K8  
 Phone: 403-851-2572 Fax: 403-932-2935  
 Email: [safety.codes@cochrane.ca](mailto:safety.codes@cochrane.ca)



Fields marked with an \* are required

Contractor Electrical Permit Application	
CONTRACTOR INFORMATION	
CONTRACTOR*	Phone *
MAILING ADDRESS*	Email *
CITY & POSTAL CODE*	
OWNER INFORMATION	
Property Owner Name *	Phone *
Mailing Address *	Email *
City&Postal Code *	
Project Address*	Legal Description
	Lot/ Unit                      Block                      Plan
Construction Type *	Building Permit #
Volts	Amps
Service Connection Required                      Yes                      No	Installation Cost *
PERMIT FEES	
Residential Developed Floor Area	sq. ft.
<small>(NB Fees for new single family, semi-detached residential and accessory suites are based on the combined finished floor area. If the basement is developed that area is to be added.)</small>	
PROJECT DETAILS	
Estimated Completion Date	(mm,dd,yyyy)
Description of Work *	
APPLICANT INFORMATION	
<p><b>APPLICANT DECLARATION</b> I certify that this installation will be completed in accordance with the Alberta Safety Codes Act and Regulations and will commence within <b>90 days</b>. I understand contractor permits are to be completed within <b>180 days</b>.</p> <p>I also understand that by choosing the declaration checkbox I am applying for an electrical permit in the Town of Cochrane</p> <p>The personal information collected through this permit application will be used to process your application. The information relates directly to and is necessary for the operation of the program or activity applied for and may be input into an automated system to generate content or make decisions, recommendations, or predictions. This information is collected and used under the authority of Section 4(c) of the Protection of Privacy Act and managed in accordance with the Act. For questions about the collection of personal information, please contact <a href="mailto:ATI@cochrane.ca">ATI@cochrane.ca</a>.</p>	
Trade*	Master No.*
<p>I have read and understand the declaration</p> <p style="text-align: center;">_____</p> <p style="text-align: center;"><b>Master Electrician Name(Print)</b>                      <b>Application Date(mm,dd,yyyy)</b></p>	

# Electrical Load Calculation

## Residential Electrical Load Calculation Canadian Electrical Code (CEC) Rule 8-200(2)

Project Information					
Primary Dwelling Address:		Secondary Dwelling Address (if applicable):		Primary Dwelling (larger dwelling)	Secondary Dwelling (if applicable - smaller dwelling)
Area of Dwelling units			m <sup>2</sup>		m <sup>2</sup>
1	Add basic load of 5000W for first 90m <sup>2</sup> of total living area for each suite (90m <sup>2</sup> = 969 sq. ft)		W		W
2	Add 1000W for each additional 90m <sup>2</sup> + any portion in excess of 90m <sup>2</sup> of living area for that suite		W		W
<i>*Notes: - Air Conditioning loads are entered in line 10 - All electric space heating loads are entered in line 11</i>					
3	Electric range - 6000W (+ 40% of any amount by which the NAMEPLATE rating range exceeds 12 kW)		W		W
<i>*Note: If separate wall oven and cooktop, or gas range installed. Apply Note 2 in line 6</i>					
4	Electric Water heaters at 100% of the NAMEPLATE rating (identify each one in a separate line)		W		W
	Fully Electric Water Tank/heater		W		W
	Hot tubs, pool heater		W		W
	Steam shower heater		W		W
	Jet tub heater		W		W
	Other:		W		W
	Other:		W		W
5	Electric vehicle supply equipment		W		
<i>*Note: taken at 100% of the charge rate setting</i>					
6	Other Loads with a NAMEPLATE rating in excess of 1500 W - these loads are applied at:				
	Dryer		W		W
	Hot tub pool pumps total		W		W
	Wall oven - if no electric range or a gas range installed		W		W
	Electric Cooktop - if no electric range or a gas range installed		W		W
	Other:		W		W
	Other:		W		W
	Other:		W		W
	Other:		W		W
<i>*Note 1: - 25% of nameplate rating if there is an electric range in that suite *Note 2: - 100% of the combined load up to 6000 W plus 25% of the combined load that exceeds 6000 W if no range has been provided for (gas range or wall oven and cooktop combination) - Identify each load in a separate line</i>					
7	<b>TOTAL CALCULATED LOAD PER SUITE IN WATTS (Lines 1 to 6)</b>		W		W
<b>CALCULATED LOAD APPLIED TO THE SERVICE</b>					
8	Larger dwelling unit @ 100%				W
9	Smaller Dwelling (if applicable) - @ 65%				W
10	All air conditioning loads @ 100% - no matter which suite they are installed				W
11	All electric heating loads @ 100% - no matter which suite they are installed				W
					W
					W
12	Sum of all Electric Heating Loads				W
13	Electrical heat interlocked with A/C				Y/N
	Greater of A/C or Electric loads - ONLY when A/C and electrical heat are interlocked				W
	Sum of all A/C and Electric heating loads - ONLY when A/C and electrical heat are NOT interlocked				W
<i>*Notes - Identify each heating load in a separate line (includes electric fireplaces and garage heaters) - If air conditioning and electric heat are NOT interlocked, Both A/C and heat values must be used</i>					
14	<b>TOTAL CALCULATED LOAD IN WATTS</b>				W
15	Divide line 14 by 240 for MAIN SERVICE AMPACITY REQUIRED				A
16	What is the existing installed service size installed at this building?				A
<b>I have verified that the information contained within this document is correct</b>					
Master Electrician Name:				Signature	
Master Electrician Number:					
Date:					
Phone No.		Email:			

\*When a secondary suite is added to an existing property a service demand calculation must be completed and submitted as part of the permit application