

## Electrical Inspection Load Calculation

**This form is required for the addition of a Garden or Basement Suite and any Air Conditioner, Hot Tub or Electric Vehicle charging.**



City of St Albert Business License Number:
(1) Principle Dwelling Unit Address :
(2) Secondary Suite Address:
(3) Garden Suite Address:

CEC Rule	(1) Principle m <sup>2</sup>	(2) Secondary m <sup>2</sup>	(3) Garden m <sup>2</sup>	Notes
Rule 8-200(2) Minimum ampacity of service feeder conductors from a main supplying two or more dwelling units; <i>and</i>				Area in m <sup>2</sup> (1 square meter = 10.764 square feet)
(1)(a)(i) is a basic load of 5000 W for the first 90m <sup>2</sup> of living area (see Rule 8-110); <i>and</i>				
(1)(a)(ii) an additional 1000 W for each 90m <sup>2</sup> or portion thereof in excess of 90m <sup>2</sup> ; <i>and</i>				Contractor must provide accurate m <sup>2</sup> as calculated from the information in the Building or Development Permit, for the purpose of CEC Rule 8-110
(1)(a)(iii) any electric space heating loads (Section 62); <i>and</i>				
(1)(a)(iii) any AC (Rule 8-106(3)); <i>and</i>				
(1)(a)(iv) single electric range: 6000 W + 40% exceeds 12 kW; <i>and</i>				
(1)(a)(v) electric tankless water heaters or water heaters for steamers, swimming pools, hot tubs, or spas. 100%; <i>and</i>				To book an inspection when the service is ready for the connection, call 780-418-6601
(1)(a)(vi) electric vehicle charging equipment loads 100%; <i>and</i>				CEC Rules 26-402(1) 26-724(a)The service panelboard in any dwelling cannot be in a closet, bathroom, stairways or undesirable locations. Main service panelboard must be located within the principle dwelling or common area. Branch circuits from a panelboard within the principle dwelling/secondary suite must not be located and connected to outlets or electrical equipment in the Garden Suite.
(1)(a)(vii) additional loads: electric range provided-25%X (>1500 W), or no electric range provided-100% of (>1500 W) up to 6000 W, +25% X (>6000 W); <b>OR</b>				
(1)(b)(i) 100 A, exclusive of basement, is 80m <sup>2</sup> or more; or (ii) 60A, exclusive of basement floor area, is less than 80m <sup>2</sup>				
<b>Total Calculated Load (W):</b>	<b>W(1)</b>	<b>W(2)</b>	<b>W(3)</b>	
<b>Each Main Breaker, O/C. Type and size of Consumer's service conductors</b>	A AWG/kcmil	A AWG/kcmil	A AWG/kcmil	

CEC rule 8-200 (2)	Demand Application		
8-200 (2)(a) excluding any electric space-heating and air conditioner loads: 8-202(3)(a)(i)-100% of calculated load of unit with heaviest load; + (3)(a)(ii)-65% of next two units	<b>100% Primary dwelling (1):</b>		
	<b>65% LWH (2)+(3)</b>		
8-200(2)(a)(b). 8-202(3)(b)(c). Electric space-heating loads "Section 62, subject to Rule 8-106(4)" and 100% air conditioning loads "subject to Rule 8-106(4)".	<b>Electric Space heating loads:</b>		
	<b>Air-conditioning loads:</b>		
<b>Total Calculated Load (1), (2) and (3), (W)</b>	Watts	Amps	Size and Type of Service Conductors (AWG/kcmil) Meter Size

<b>I have verified that the information contained within this document is correct.</b>		When a Secondary Suite or a Garden suite is located on a property with a dwelling unit, a service demand calculation is to be provided by the applicant.  When the calculated demand indicates that an increase of the service is required, you must contact Fortis at 310-9473 (wire) to check availability of the increased service size.
Electrical Master Name and Certificate Number	_____	
Email Address	Phone Number	
Signature	Date	