

Electrical Inspection Load Calculation

Single Dwelling, House with a Secondary Suite or Garden Suite

(1) Principle Dwelling Unit Address :
(2) Secondary Suite Address:
(3) Garden Suite Address:

CEC Rule	(1) Principle m ²	(2) Secondary m ²	(3) Garden m ²	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 ² (1 square meter = 10.764 square feet)
(1)(a)(i) is a basic load of 5000 W for the first 90m ² of living area see Rule 8-110); <i>and</i>				
(1)(a)(ii) an additional 1000 W for each 90m ² or portion thereof in excess of 90m ² ; <i>and</i>				Contractor must provide accurate area (square meters), as calculated from the information in the Building Permit 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>				Book an inspection online when service is ready for connection: www.medicinehat.ca , enter "inspections" in search window.
(1)(a)(v) electric tankless water heaters or water heaters for steamers, swimming pools, hot tubs, or spas. 100%; <i>and</i>				
(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); OR				
(1)(b)(i) 100 A, exclusive of basement, is 80m ² or more; or (ii) 60A, exclusive of basement floor area, is less than 80m ²				
Total Calculated Load (W):	W(1)		W(2)	W(3)
Each Main Breaker, O/C. Type and size of Consumer's service conductors	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	100% Primary dwelling (1):		The size of a consumer's service conductors between the Supply Authority point of attachment and meter base is to be based on the calculated load obtained from Subrule (1)(a) or (b) and 8-202(3)(a)(i) to (ii); plus 8-202(3)(b)&(c). The main bus of the meter base must comply with Rule 8-200(2)&(1)	
	65% LWH (2)+(3)			
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)".				
Electric Space heating loads:				
	Air-conditioning loads:			
Total Calculated Load (1), (2) and (3), (W)				
	Watts	Amps	Size and Type of Service Conductors (AWG/kmil)	Meter Size

I have verified that the information contained within this document is correct.		When a Secondary Suite or Garden Suite is located on a property with a dwelling unit, a service demand calculation must be provided by the applicant.
Electrical Master Name	Certificate Number	
Email Address	Phone Number	When the calculated demand indicates an increase of the service is required from 100A to 200A, you must contact City Electric customer service (403-529-8262) to check availability of the increased service size.
Signature	Date	