The City of Calgary
Electrical Inspection

Single Family Dwelling Permit
EP
Secondary/Laneway/Backyard Suite Permit
EP

Electrical Load Calculation for a Sub-division of a
Single Family Dwelling with Secondary Suite or Single Family Dwelling with a Laneway/Backyard Suite.
Canadian Electrical Code (CEC) Rule 8-200(2)

Single Family Dwelling Address (SFD):

Secondary Suite Address (SS):

Laneway/Backyard Suite Address (LWH):

CEC Rule 8-200(2) Minimum ampacity of service feeder conductors from a main supplying two or more dwelling units.	SFD m²	SS m²	LWH m²
(1)(a)(i) a basic load of 5000 W for the first 90 m² of living area (see Rule 8-110); plus			
(1)(a)(ii) an additional 1000 Wfor each 90 m² or portion thereof in excess of 90 m²; plus			
(1)(a)(iii) any electric space-heating loads (Section 62); plus			
(1)(a)(iii) any AC "Rule 8-106(4)"			
(1)(a)(iv) single electric range: 6000 W + 40%-exceeds 12 kW; plus			
(1)(a)(v) electric tankless water heaters or water heaters for steamers, swimming pools, hot tubs, or spas. 100%; plus			
(1)(a)(vi) electric vehicle charging equipment loads. 100%; plus			
(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 80 m² or more; or (ii) 60 A, exclusive of basement floor area, is less than 80 m².			
Total calculated demand loads (watts)	W	W	W
Each Main Breaker, O/C. Type & size of consumer's service conductors.	**Amps** / Cu/Al **AWG/kcmil**	**Amps** / Cu/Al **AWG/kcmil**	**Amps** / Cu/Al **AWG/kcmil**

***Area in m²** (1 square meter = 10.764 square feet)

***Contractor to provide accurate m² as calculated per info from Building or Development permit, for the purpose of CEC Rule 8-110.**

***To book an inspection when service is ready for the connection, call 311**

*The service panelboard and branch circuits from a panel board of SFD or SS or SFD with SS must not be located and connected to outlets or electrical equipment in the Backyard Suite. CEC Rules 26-402(1) 26-724(a).

CEC Rule 8-200(2)	Demand Application
8-200(2)(a) excluding any electric space-heating & air-cond loads: 8-202(3)(a)(i)-100% of calculated load of unit with heaviest load; + (3)(a)(ii)-65% of next twounits.	100% SFD:
	65% LWH:
	65% SS:
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:

The size of consumer's service conductors between the Supply Authority point of attachment and meter base 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).

Total Calculated Load: Watts. **Amps.**	**Size & Type of Service Conductors:** (AWG/kcmil, Cu/Al)	**Meter size**

I have verified that the information contained within this document is correct.

Electrical Master Name & License #	Email Address	Phone Number

Signature

Date: _____ / _____ / _____
Year Month Day

- When a secondary suite or laneway house is added to an existing property a service demand calculation is to be completed by applicant and submitted to electrical.inspection@calgary.ca

- When the calculated demand determines that an increase of the service is required from a 60 amp, 100 amp, or 200 amp service you must contact Enmax at getconnected@enmax.com to check if the increased service size is available