

The Town of Cochrane Electrical Inspection

Single Family Dwelling Permit
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 Ac	ddress (SF	·D):								
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. (1)(a)(i) a basic load of 5000 Wfor the first 90 m² of living area (see Rule 8-110); plus	SFD	m²		SS m²			LWH	l m²	(1 squa	a in m² re meter = square feet)
(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									accur calculat	or to provide ate m² as ed per info Building or
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									Developr for the pu	nent permit, Irpose of CEC Rule -110.
(1)(a)(v) <u>electric</u> tanklesswater heaters or water heaters for steamers, swimming pools, hot tubs, or spas. 100%; plus (1)(a)(vi) electric vehiclecharging										n inspection
equipment loads. 100%; plus (1)(a)(vii) additional loads: electric range provided-25% X (>1500 W), or no electric range provided-100% of									for the cor	rice is ready inection, call 111
(>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.									and branch a panel bo SS or SFD not be lo	e panelboard circuits from ard of SFD or with SS must ocated and to outlets or
Total calculated									electrical equipment in the Backyard Suite. CEC Rules 26-402(1) 26-724(a).	
demand loads (watts)		W		1	W	W		W		
Each Main Breaker, O/C. Type & size of consumer's service conductors.	Amps	Cu/Al AWG/kcmil	Amp	os AW	Cu/Al /G/kcmil	An	nps	Cu/Al AWG/kcmil	20	, z 1(u).
CEC Rule 8-200(2)		Der	mand App	lication)					
8-200(2)(a) excluding any electric space-heating & air-cond loads:	100% SFD:						The size of consumer's service conductors between the Supply			
8-202(3)(a)(i)-100% of calculated load of unit with heaviest load; + (3)(a)(ii)-65% of next twounits.	65% LWH: 65% SS:						Authority point of attachment and meter base to be based on the calculated load obtained fromSubrule			
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-heatingloads: Air-conditioning loads: (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).						main bus of			
Total Calculated Load: Watt	atts. Ar			nps.	Size & Type of Service Conductors: Meter size (AWG/kcmil, Cu/Al)					

Electrical Master Name & License#	Email Address	Phone Number				
		Date: / /				
Signature		Year Month Day				

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

- When a Secondary Suite or Laneway Houses is added to an existing property a service demand calculation is to be completed by applicant
- 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 <u>Fortis Alberta at: 310-WIRE (9473) or 1-866-717-3113</u> to check if the increased service size is available