



Building Division, Planning and Development Department
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Electrical Load Calculations

R1 - Intake Checklist

PROJECT ADDRESS:

Please complete the appropriate table cells and check boxes accordingly. Review the load summary table, footnotes and figures attached to this form.

CE Code Rule 8-200 2)		A	B	C	D	E	Supplementary requirements and noteworthy details	
Rule 8-200 1) a)		Principal Dwelling	Principal Dwelling	Principal Dwelling	Principal Dwelling	Secondary Suite(s)		
Number of Primary Units (per dwelling)		<input type="checkbox"/> 1 or <input type="checkbox"/> 2	<input type="checkbox"/> 1 or <input type="checkbox"/> 2	<input type="checkbox"/> 1 or <input type="checkbox"/> 2	<input type="checkbox"/> 1 or <input type="checkbox"/> 2	Number Secondary Suites per Primary Unit <input type="checkbox"/> 1 <input type="checkbox"/> 2 or <input type="checkbox"/> 3	If individual meter is required for suite(s) a separate basic load calculation(s) is required per unit.	
Rule 8-110, total living area of single dwelling		m ²	m ²	m ²	m ²	m ²	BC Hydro may restrict 400A services in some areas.	
i) a basic load of 5000 W for the first 90 m ² or less of living area; plus								
ii) 1000 W for each 90 m ² or portion thereof; plus								
iii) any electric space-heating loads using the demand factors from Rule 62-118. Baseboard heat: 100% of the first 10kW, plus 75% for any amount over 10 kW. Electric thermal storage heating system, duct heater, or electric furnace: 100%; plus any air-conditioning loads with demand factor of 100%, subject to Rule 8-106 3); or any heat pump motor loads with demand factors as permitted in Section 28; plus	Baseboard Heaters:		Baseboard Heaters:	Baseboard Heaters:	Baseboard Heaters:	Baseboard Heaters:	Other heating loads includes: - Heating cable sets - Heating panel sets - Heat pump auxiliary element - Patio heaters - Duct heaters - Electric furnace	
	Other:		Other:	Other:	Other:	Other:		
iv) any electric range load: 6000 W for a single range plus 40% of any amount by which the rating of the range exceeds 12 kW; plus							Specify if gas range is provided Specify if load is controlled. See load summary table.	
v) any electric <i>tankless</i> water heaters or electric water heaters for steamers, swimming pools, hot tubs, or spas with a demand factor of 100%; plus							See load summary table	
vi) except as permitted by Rule 8-106 11), any electric vehicle supply equipment loads with a demand factor of 100%; plus							EVSE loads may be controlled by a means as per CE Code. See load summary table.	
vii) any loads provided for that have a rating in excess of 1500 W, 25% of the rating of each load, if an electric range has been provided for, or 100% of the combined load up to 6000 W, plus 25% of the combined load that exceeds 6000 W, if an electric range has not been provided for.	Dryer:		Dryer:	Dryer:	Dryer:	Dryer:		
	HWT:		HWT:	HWT:	HWT:	HWT:		
	Other:		Other:	Other:	Other:	Other:		
	Total:		Total:	Total:	Total:	Total:		
Secondary suite load from column E ADDED to the associated column(s) (A thru D) when <i>unmetered</i>		From Column E:	From Column E:	From Column E:	From Column E:	Add total unmetered load below associated column(s) A thru D	See load summary table, footnote (c).	
Total Calculated Loads Add unmetered secondary suite load to principal unit		W	W	W	W	W		
Main Circuit Breaker – Amps (No greater than calculated)		<input type="checkbox"/> 100 <input type="checkbox"/> 125 <input type="checkbox"/> 150 <input type="checkbox"/> 200 <input type="checkbox"/> Other _____	<input type="checkbox"/> 100 <input type="checkbox"/> 125 <input type="checkbox"/> 150 <input type="checkbox"/> 200 <input type="checkbox"/> Other _____	<input type="checkbox"/> 100 <input type="checkbox"/> 125 <input type="checkbox"/> 150 <input type="checkbox"/> 200 <input type="checkbox"/> Other _____	<input type="checkbox"/> 100 <input type="checkbox"/> 125 <input type="checkbox"/> 150 <input type="checkbox"/> 200 <input type="checkbox"/> Other _____	<input type="checkbox"/> 60 <input type="checkbox"/> 100 <input type="checkbox"/> Other _____	A precise rating or next higher standard rating of O/C must be used, if not, size the service for the anticipated ampere rating of devices. See footnote (c)	
Type & Size of Service and/or Feeder <small>AWG / kcmil Cu / Al</small>							Select cable size from 75 °C column of Table 2 or 4	
Calculated load for the main consumer's service supplying the dwelling units, plus service installation details								
Meters	1	100% next unit load:	exclude any electric space heating, air-conditioning/heat pump/EV supply equipment		Service Characteristics:		<input type="checkbox"/> Overhead <input type="checkbox"/> Underground	
	2	65% next unit load:	exclude any electric space heating, air-conditioning/heat pump/EV supply equipment				Type & size of service conductors	
	3	65% next unit load:	exclude any electric space heating, air-conditioning/heat pump/EV supply equipment		Main Consumer's Service:		AWG/kcmil cu/Al	
	4	40% next unit load:	exclude any electric space heating, air-conditioning/heat pump/EV supply equipment				<input type="checkbox"/> 200 Amp <input type="checkbox"/> 400 Amp	
Footnotes		Baseboard heating load,100% of the first 10kW plus 75% for any amount over 10 kW:			Voltage:	Phase:	# of Electric Meters:	
		Electric Space-Heating loads:	As per Section 62		(b)	EVEMS deduction - as approved by the Supervisor of Electrical Inspections only. Identify specific deducted loads; equal or greater. Submit a detailed proposal.	minus	
	(a)	Air-Conditioning Loads:	Subject to Rule 8-106 (3)					
		Heat Pump Motor Loads:	Subject to Rule 8-106 (3)					
		EV Supply Equipment:	Subject to Rule 8-106 (11)					

Total Amps: _____

Total Watts: _____

Electrical Contractor Name & license Number

Email

Phone Number

FSR Name & Registration Number

Signature

Date