



City of Burnaby
 Building Division, Planning and Development Department
 4949 Canada Way, Burnaby, BC V5G 1M2
 Phone: 604-294-7130

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 an 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						Other heating loads includes: - Heating cable sets - Heating panel sets - Heat pump auxiliary element - Patio heaters - Duct heaters - Electric furnace
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	Baseboard Heaters:	Baseboard Heaters:	Baseboard Heaters:	Baseboard Heaters:	Baseboard Heaters:	
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	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						Provide actual air conditioner or heat pump motor loads: Calculate NAMEPLATES FLA x Volts = Watts
v) any electric tankless water heaters or electric water heaters for steamers, swimming pools, hot tubs, or spas with a demand factor of 100%; plus						Specify if gas range is provided Specify if load is controlled. 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						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:	EVSE loads may be controlled by a means as per CE Code. See load summary table.
	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 unmetered	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 AWG / kcmil Cu / Al						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% heaviest load: exclude any electric space heating, air-conditioning/heat pump		Service Characteristics: Type & Size of service conductors Main Consumer's Service:	<input type="checkbox"/> Overhead <input type="checkbox"/> Underground	AWG/kcmil cu/Al
	2	65% next unit load: exclude any electric space heating, air-conditioning/heat pump				
	3	65% next unit load: exclude any electric space heating, air-conditioning/heat pump				
	4	40% next unit load: exclude any electric space heating, air-conditioning/heat pump				
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)				
Amps:				Total Watts:		

Electrical Contractor Name & license Number _____

Email _____

Phone Number _____

FSR Name & Registration Number _____

Signature _____

Date _____