



City of Burnaby
 Building Division, Planning and Development Department
 4949 Canada Way, Burnaby, BC V5G 1M2
 Phone: 604-294-7130 Fax: 604-294-7986

Electrical Load Calculations For Laneway Homes

PROJECT ADDRESS: _____

Please complete the appropriate table cells and check boxes accordingly.

CE Code Rule 8-200 2)	A	B	C	Supplementary requirements and noteworthy details
Rule 8-200 1) a)	Single or Two Family Principal Dwelling	Secondary Suite or Suite Ready	Laneway House	
Rule 8-110, total living area of single dwelling	m ²	The total living area and basic load for a one-family dwelling to include secondary suite	m ²	BC Hydro may restrict 400A services in some areas. An accurate detailed load calculation with careful planning may help to limit your total service size to 200A
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:	Other heating loads includes: - Heating cable sets - Heating panel sets - Heat pump auxiliary element - Patio heaters - Duct heaters - Electric furnace
	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.
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				
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.
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:	
	HWT:	HWT:	HWT:	
	Other:	Other:	Other:	
	Total:	Total:	Total:	
Secondary suite load from column B ADDED to column A when un-metered	From B	Add total un-metered load below to column A		
Total Calculated Loads <small>Add un-metered secondary suite load to principal unit</small>	W	W	W	When adding loads to an existing service, Rule 8-106 8) may apply. Provide BCH one year historical peak demand.
Main Circuit Breaker – Amps <small>(No greater than calculated)</small>	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"/> Other <input type="checkbox"/>	100 <input type="checkbox"/> 125 <input type="checkbox"/> 150 <input type="checkbox"/> 200 <input type="checkbox"/> Other <input type="checkbox"/>	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.
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% heaviest load:	exclude any electric space heating, air-conditioning/heat pump	Baseboard heating load, 100% of the first 10kW plus 75% for any amount over 10 kW:
	2	65% next unit load:	exclude any electric space heating, air-conditioning/heat pump	Electric Space-Heating Loads:
	3	65% next unit load:	exclude any electric space heating, air-conditioning/heat pump	Air-Conditioning Loads:
Service Characteristics:		<input type="checkbox"/> Overhead <input type="checkbox"/> Underground		Heat Pump Motor Loads:
Type & Size of service conductors		AWG/kcmil cu/Al		Voltage: Phase:
Main Consumer's Service:		<input type="checkbox"/> 200 A <input type="checkbox"/> 400 A Other: _____		
				# of Electric Meters:

Electrical Contractor Name & license Number	Email	Phone Number
FSR Name & Registration Number	Signature	Date