May 2021

SURREY

CITY OF SURREY – ELECTRICAL SECTION

Electrical Demand Load Calculation

Single Family Dwelling & Detached Dwelling Unit

This form will <u>not</u> be collected from site and must be submitted with a CAF at the time of a service connection request to <u>e.inspections@surrey.ca</u>. Current BC Electrical Code and BCSA Bulletin IB-EL 2014-01 Take Precedence

| Permit # : Address : | | | Date : | | | | |
|--|----------------------------|----------------|--|-----------|---------------------------|-----------------------|--|
| Contractor : | FSR : | FSR | #: | Signatu | ıre: | | |
| * | | | | | | | |
| Basic load plus each 90m ² of remai | nder or portion of x 1000w | 1 | | (House) | 5000 + _ | W | |
| 1 st Rangekw (up to 12 kw r | emainder @40%) | | | (House) | 6000+ | W | |
| Electric Heating | | | | (House) | | W | |
| All Air Conditioning Loads | | | | (House) (| @ 100% <u> </u> | W | |
| Any Electric Vehicle Charging equ | ipment | | | (House) (| @ 100% <u> </u> | W | |
| | | | ouse Feeder Conducto ouse Feeder Conducto | | | □ (AL) (kcmil/AWG) | |
| House (minimum 24 000w or calculated | d) | | | (House) | | W | |
| * | | | | | | | |
| Detached Dwelling Unit - Basic load plus each 90m ² of remainder or portion of x 1000w | | | | (Suite) | 5000 + _ | <u> </u> | |
| Rangekw (up to 12 kw remo | ninder @40%) | | | (Suite) | 6000 + _ | <u> </u> | |
| Any Electric Heating | | | | (Suite) | | <u>W</u> | |
| Other loads | | | Suite Feeder Conducto | | □ (CU) | □ (AL) | |
| Datashad Dwalling Unit (wising | 1.1.100 | | Suite Feeder Conducto | | | (kcmil/AWG) | |
| Detached Dwelling Unit (minimum) | 14 400w, Greater than 80 i | m² 24 000 ❖ | w or caiculatea) | (Suite) | - | <u> </u> | |
| House (subtract heating load if | Fusad) | | 14/ | | @ 100% | 147 | |
| Detached Dwelling Unit (subt | • | <u>=</u> | w w | | @ 100% <u>_</u> @ 65 % | w w | |
| Total Demand with Heatin (Electric Heating 1st 10KW@10 | g =Amp | - <u></u> | Service Conductor Service Conductor | |] (CU) | □ (AL) kcmil/AWG) | |