

The purpose of this document is to advise that the climatic design data for the construction of buildings and structures or parts thereof, in the City of Maple Ridge, shall be those listed in Division B, Appendix C of the BC Building Code current edition.

## Design Data

The following climatic design data shall be utilized for the design of **Buildings** in the Municipality:

January 2 1/2 percent Design Temperature: - 9°C

January 1 percent Design Temperature: -11°C

July 2 1/2 percent Design Drybulb Temperature: 30°C

July 2 1/2 percent Design Wetbulb Temperature: 20°C

Annual Total Degree-days below 18°C: 2840

Maximum Fifteen-minute rainfall: 10mm

Maximum One-day rainfall 1/50: 134mm

Annual Rain: 1800mm

Annual Total Precipitation: 1950mm

Moisture Index: 1.86

Driving Rain Wind Pressure Pa, 1/5: 160 Pa

Ground snow load (kPa):

**0-45 metres elevation:** 1/50  $S_S = 2.4 \text{ kPa}$  (design weight based on snow depth)

$S_R = 0.2 \text{ kPa}$  (design weight added for rain)

$C_b = 0.45$  for entire roofs not exceeding 4.3 m / 0.55 m  
for all other roofs

**Above 45 Metres:**  $0.008 \times (\text{Site elev. in Metres}) + 2.4 \text{ kPa} = S_S$

$0.001 \times (\text{Site elev. in Metres}) + 0.2 \text{ kPa} = S_R$

$C_b S_S + S_R = \text{specified snow load}$

Hourly Wind Pressures: Probability 1/10 = 0.34kPa

Probability 1/50 = 0.44kPa

Seismic Data:

$S_a (0.2) = 0.691$

$S_a (0.5) = 0.602$

$S_a (1.0) = 0.352$

$S_a (2.0) = 0.217$

$S_a (5.0) = 0.071$

$S_a (10.0) = 0.025$

PGA = 0.301

PGV = 0.452

"This information is provided for convenience only and is not a substitution of applicable City Bylaws, Provincial or Federal Codes or Laws. You must satisfy yourself that any existing or proposed construction or other works complies with such Bylaws, Codes or other laws."