

## Building and Inspection Services Information Bulletin

### Climatic and Seismic Data for the City of Victoria

The following climatic and seismic data provides values used within the boundaries of the City of Victoria. The BC Building Code provides this climatic and seismic data in Division B, Appendix C and this data is updated from time to time and the values contained in the current BC Building Code take precedence over information contained below where there is a discrepancy.

#### Climatic Data

Design Temperature				Degree Days Below 18°C
January		July 2.5%		
2.5% °C	1% °C	Dry °C	Wet °C	
-4	-6	24	17	2700

15 Min. Rain, mm	One Day Rain, 1/50, mm	Ann. Rain, mm	Moist. Index	Ann. Tot. Ppn, mm	Driving Rain Wind Pressure, Pa, 1/5
9	91	800	1.0	825	220

Snow Load kPa 1/50		Hourly Wind Pressures, kPa	
$S_s$	$S_r$	1/10	1/50
1.5	0.3	0.46	0.57

Alternatively, site specific climatic data from Environment Canada can be used. Email Environment Canada at [climate.services@ec.gc.ca](mailto:climate.services@ec.gc.ca) to obtain site specific climatic data. There is a user fee for providing site specific climatic data from Environment Canada.

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### Seismic Data

Seismic Data BC Building Code 2018							
S <sub>a</sub> (0.2)	S <sub>a</sub> (0.5)	S <sub>a</sub> (1.0)	S <sub>a</sub> (2.0)	S <sub>a</sub> (5.0)	S <sub>a</sub> (10.0)	PGA	PGV
1.3	1.16	0.676	0.399	0.125	0.044	0.580	0.834

Seismic Data BC Building Code 2024					
S <sub>max</sub> for Unknown Site Class	S <sub>max</sub> According to Site class				
	A	B	C	D	E
2.01	0.86	1.06	1.68	2	2.01

### Seismic Hazard for Part 9 BC Building Code 2024

- When a site class is determined by a Geotechnical Engineer, the Seismic Design Parameters, S<sub>max</sub>, for that specific site class can be used for the structural design of the building.
- When there are no letters of assurance from a Geotechnical Engineer, the S<sub>max</sub> of 2.01 for unknown site class shall be used for the structural design of the building.

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