

Climatic Data

To be used within City of Langford – per BC Building Code 2018

Location	Elev., m	Design Temperature				Degree-Days Below 18°C	15 Min. Rain, mm	One Day Rain, 1/50, mm	Ann. Rain, mm	Moist. Index	Ann. Tot. Ppn., mm	Driving Rain Wind Pressure s, Pa, 1/5	Snow Load, kPa, 1/50		Hourly Wind Pressures, kPa	
		January		July 2.5%									S _s	S _r	1/10	1/50
		2.5% °C	1% °C	Dry °C	Wet °C											
Langford	80	-4	-6	27	19	2750	9	135	1095	1.22	1125	220	1.8	0.3	0.31	0.40

Refer to Building Bylaw 1160.9 for snow loads at varying elevations / locations within the City of Langford

- 9.0.2 (1) Except as provided in 9.0.2(3), the ground snow load (S_s) for the design of buildings in Langford is:
- 1.8 Kpa for those areas in Langford having a ground elevation up to 125 meters,
 - 2.3 Kpa for those areas in Langford having a ground elevation above 125 meters and up to 165 meters,
 - 2.5 Kpa for those areas in Langford having a ground elevation above 165 meters and up to 230 meters, and for those areas located north of the intersection of the Trans-Canada Highway and Finlayson Arm Road, and
 - 3.3 Kpa for those areas in Langford having a ground elevation above 230 meters.
- (2) Where a parcel consists of land with ground elevations in more than one of the categories set out in 9.0.2(1) above, the applicable ground snow load for that entire parcel is the highest of those amounts.
- (3) The ground snow load (S_s) for the design of buildings in Langford is 2.5 Kpa for those areas located north of the intersection of the Trans-Canada Highway and Finlayson Arm Road.
- 9.0.3 (1) For the purposes of 9.0.1 and 9.0.2, the elevation of ground for any parcel in Langford shall be as taken from the latest topographical data as shown on the Langford GIS mapping system and as updated from time to time, or as otherwise site measured and reported by a BC Land Surveyor using geodetic elevations.

Seismic Data

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Location	Seismic Data							PGA	PGV
	S _a (0.2)	S _a (0.5)	S _a (1.0)	S _a (2.0)	S _a (5.0)	S _a (10.0)			
Langford	1.32	1.19	0.697	0.415	0.130	0.045	0.590	0.852	

** Alternatively, site specific climatic data from Environment Canada can be used. Email climate.services@ec.gc.ca to obtain site specific data. A user fee is applicable for this service from Environment Canada.