

## Design Data for Whitchurch-Stouffville

In accordance with the Ontario Building Code Supplementary Standard SB-1, Table 1.2

Location	Design Temperature				Degree Days Below 18 °C	15 Min Rainfall mm	One Day Rainfall 1/50 mm	Annual Rainfall mm	Annual Total Precipitation mm	Driving Rain Wind Pressures Pa, 1/5	Snow Load kPa 1/50		Hourly Wind Pressures KPa		Seismic Data				
	January		July 2.5%								1/10	1/50	S <sub>a</sub> (0.2)	S <sub>a</sub> (0.5)	S <sub>a</sub> (1.0)	S <sub>a</sub> (2.0)	PGA		
	2.5% °C	1% °C	Dry °C	Wet °C							S <sub>s</sub>	S <sub>r</sub>	q						
Stouffville	-21	-23	30	23	4240	25	108	665	795	140	2.0	0.4	0.33	0.43	0.094	0.060	0.034	0.017	0.057

Character Key Referenced by Division B Part 4 of the Ontario Building Code and determined in accordance with the table above.

$S_s$  = 1-in-50-year ground snow load, in kPa

$S_r$  = 1-in-50-year associated rain load, in kPa

$q$  = the reference velocity pressure in kPa, based on a probability of being exceeded in any one year of 1 of 50

$S_a(T)$  = 5% damped spectral response acceleration, expressed as a ratio to gravitational acceleration, for a period of time (T), based on a probability of being exceeded in 50 years

PGA = Peak Ground Acceleration expressed as a ratio to gravitational acceleration, based on a probability of being exceeded in 50 years