



## DIRECTIVE

### VENT AND CHIMNEY SIZING

*This directive is being issued by a provincial safety manager pursuant to section 30 of the Safety Standards Act.*

**Date of Issue:** November 07, 2016

**Directive No:** D-G5 071030 6

**Revision:** 01

#### General Details

This directive is being issued to address the application of the requirements for vent sizing in CSA B149.1 clause 8.13.

#### Specific Details

When using the tables in Annex C to size vents for Category I appliances installed in locations where the outdoor design temperatures in the BC Building Code (extracted in enclosed table) are  $-10^{\circ}\text{C}$  or lower, the smallest permitted vent size shall be used. The smallest vent size improves venting and reduces the potential for condensation promoting effective venting and facilitating conformance with B149.1 8.10.1.

For locations where an outdoor design temperature is not listed in the BC Building Code the outdoor design temperature of the closet location should be used.

A handwritten signature in black ink, appearing to read "Brad Wyatt".

Brad Wyatt  
Provincial Safety Manager - Gas

#### References:

Safety Standards Act  
Gas Safety Regulation  
CSA B149.1 - Natural gas and propane installation code  
BC Building Code - 2012

For more information about British Columbia Safety Authority, please visit our website at:  
[www.safetyauthority.ca](http://www.safetyauthority.ca)



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Outdoor Design Temperatures extracted from BC Building Code 2012 Edition

Reference: 2.5% January design temperature value ordinarily used in the design of heating systems

Location	Temp (°C)	Location	Temp (°C)	Location	Temp (°C)
100 Mile House	-30	Kelowna	-17	Sidney	-4
Abbotsford	-8	Kimberley	-25	Smith River	-45
Agassiz	-9	Kitimat Plant	-16	Smithers	-29
Alberni	-5	Kitimat Townsite	-16	Sooke	-1
Ashcroft	-24	Ladysmith	-7	Squamish	-9
Bamfield	-2	Langford	-4	Stewart	-17
Beaton River	-37	Lillooet	-21	Tahsis	-4
Bella Bella	-5	Lytton	-17	Taylor	-35
Bella Coola	-14	Mackenzie	-34	Terrace	-19
Burns Lake	-31	Masset	-5	Tofino	-2
Cache Creek	-24	McBride	-29	Trail	-14
Campbell River	-5	McLeod Lake	-35	Ucluelet	-2
Carmi	-24	Merritt	-24	<b>Vancouver Region</b>	
Castlegar	-18	Mission City	-9	Burnaby (Simon Fraser Univ.)	-7
Chetwynd	-35	Montrose	-16	Cloverdale	-8
Chilliwack	-9	Nakusp	-20	Haney	-9
Comox	-7	Nanaimo	-6	Ladner	-6
Courtenay	-7	Nelson	-18	Langley	-8
Cranbrook	-26	Ocean Falls	-10	New Westminister	-8
Crescent Valley	-18	Osoyoos	-14	North Vancouver	-7
Crofton	-4	Parksville	-6	Richmond	-7
Dawson Creek	-38	Penticton	-15	Surrey (88 Ave & 156 St.)	-8
Dease Lake	-37	Port Alberni	-5	Vancouver	-7
Dog Creek	-28	Port Alice	-3	(City Hall)	
Duncan	-6	Port Hardy	-5	Vancouver	-6
Elko	-28	Port McNeill	-5	(Granville & 41 Ave)	
Fernie	-27	Port Renfrew	-3	West Vancouver	-7
Fort Nelson	-39	Powell River	-7	Vernon	-20
Fort St. John	-35	Prince George	-32	<b>Victoria Region</b>	
Glacier	-27	Prince Rupert	-13	Victoria	-4
Gold River	-8	Princeton	-24	(Gonzales Hts)	
Golden	-27	Qualicum Beach	-7	Victoria	-6
Grand Forks	-19	Queen Charlotte City	-6	(Mt Tolmie)	
Greenwood	-20	Quesnel	-31	Victoria	-4
Hope	-13	Revelstoke	-20	Whistler	-17
Jordan River	-1	Salmon Arm	-19	White Rock	-5
Kamloops	-23	Sandspit	-4	Williams Lake	-30
Kaslo	-17	Sechelt	-6	Youbou	-5