BC BUILDING CODE INTERPRETATION COMMITTEE

A joint committee with members representing AIBC, EGBC, BOABC

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Interpretation Date:	December 10, 2024					
Building Code Edition:	BC Building Code 2024, Book II: Plumbing Systems (BCPC) and BC Building Code Book I: General					
Subject:	Sizing a Vent Stack					
Keywords:	Vent Stack, Vent Stack Sizing					
Building Code Reference(s):	2.5.8.4.(1) & (2), Table 2.5.8.4., 2.4.9.1.(1)(a)					

Question:

When sizing a vent stack in accordance with Table 2.5.8.4., which has a longer developed length than the maximum permitted in the table, can the vent stack be increased in size to accommodate this extra developed length?

Interpretation:

Yes (with conditions).

For this example, we will assume we are sizing a vent stack to serve a NPS 3 stack with a load of 100 FUs at its' base and a developed length of 200 m. See below for an excerpt from Table 2.5.8.4.

Table 2.5.8.4.
Size and Developed Length of Stack Vents and Vent Stacks⁽¹⁾
Forming Part of Sentences 2.5.8.4.(1) and (2)

	Total		Nominal Pipe Size of Stack Vent or Vent Stack, NPS								
Nominal Pipe Size of Stack, NPS ⁽²⁾	Hydraulic Load Being	11/4	1½	2	3	4	5	6	8	10	12
	Vented, fixture units	Maximum Length of Stack Vent or Vent Stack, m									
11/4	2	9	NL	NL	NL	NL	NL	NL	NL	NL	NL
1½	8	15	46	NL	NL	NL	NL	NL	NL	NL	NL
2	12	9	23	61	NL	NL	NL	NL	NL	NL	NL
	24	8	15	46	NL	NL	NL	NL	NL	NL	NL
3	10	NP	13	46	317	NL	NL	NL	NL	NL	NL
	21	NP	10	33.5	247	NL	NL	NL	NL	NL	NL
	53	NP	8	28.5	207	NL	NL	NL	NL	NL	NL
	102	NP	7.5	26	189	NL	NL	NL	NL	NL	NL

Patrick Shek, P.Eng., CP, FEC, Committee Chair

The views expressed are the consensus of the joint committee with members representing AIBC, EGBC and BOABC, which form the BC Building Code Interpretation Committee. The Building and Safety Standards Branch, Province of BC and the City of Vancouver participate in the committee's proceedings with respect to interpretations of the BC Building Code. The purpose of the committee is to encourage uniform province wide interpretation of the BC Building Code. These views should not be considered as the official interpretation of legislated requirements based on the BC Building Code, as final responsibility for an interpretation rests with the local *Authority Having Jurisdiction*. The views of the joint committee should not be construed as legal advice.

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Given the fixture unit load on the stack described above (100 FUs) and the developed length of the NPS 3 vent stack (200 m), it does not comply with Table 2.5.8.4. However, the designer, or installer, could choose to increase the vent stack to NPS 4. The maximum developed length for this vent stack is now noted as "NL" which the footnote to the Table says is "not limited" or unrestricted.

To comply with Clause 2.4.9.1.(1)(a), the size of the stack below the vent stack connection must be increased to NPS 4 while the stack above this connection can remain NPS 3.

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