

HANDOUT: Finding Information in Codes: Plumbing (4 pages)

Skill Builders: Key Words & Phrases, Skimming, Scanning, Navigating Regulations

IN THE WORKPLACE: The National Plumbing Code of Canada sets out technical provisions for the design and installation of new plumbing systems and also applies to the extension, alteration, and repair of existing plumbing systems. Provinces and territories can adopt the National Code or adapt it to their own jurisdictions. It is the responsibility of workers to be certain their work is consistent with the latest version of the Code.

Refer to the excerpt of the **BC Plumbing Code** to complete the tasks and locate answers to the questions.

- Using the following structure, complete the table below using the information in the excerpt. Locate and use the first example that allows you to complete every line in the structure. The first line is done for you.

3	Part
3-5	Section
3-5.2	Sub-section
3-5.2.1	Article
3-5.2.1 (2)	Sentence
3-5.2.1 (2) (a)	Clause
3-5.2.1.(2) (a) (i)	Subclause

Division	B: Acceptable Solutions
Part	
Section	
Sub-section	
Article	
Sentence	
Clause	
Subclause	

- What are the 3 main categories of information in section 2.5?

3. Angles brackets < > are used to indicate changes between the current and previous versions of the Code. How many changes are indicated in 2.5.2 and what do they refer to?

4. What is the full rule number that governs outlet pipes of less than 2 inches?

5. Under what circumstances does a trap not need to be protected by a vent pipe?

6. What size offset is permitted for pipes larger than 2 inches?

7. Where can you find more information on additional protections for drainage systems?

8. How many clauses are identified in 2.5.2.1?

9. What is the maximum number of fixtures that can be connected to a combined relief and circuit vent? Provide the full rule number where you found the answer.

10. What 3 rules refer to emergency floor drains?

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DIVISION B
ACCEPTABLE SOLUTIONS

Part 2 — Plumbing Systems

Section 2.5 Venting Systems**2.5.1. VENTING FOR TRAPS**

2.5.1.1. Venting for Traps

- 1) Except as provided in Sentences (3) and (4), every *trap* shall be protected by a *vent pipe*.
- 2) *Drainage systems* may require additional protection as provided in Subsection 2.5.4.
- 3) A *trap* that serves a floor drain need not be protected where
 - a) the *size* of the *trap* is not less than 3 inches,
 - b) the length of the *fixture drain* is not less than 450 mm, and
 - c) the fall on the *fixture drain* does not exceed its *size*.
- 4) A *trap* need not be protected by a *vent pipe*
 - a) where it serves
 - i) a *subsoil drainage pipe*, or
 - ii) a *storm drainage system*, or
 - b) where it forms part of an indirect *drainage system*. (See also Clause 2.4.2.3.(2)(b).)

2.5.2. WET VENTING

2.5.2.1. Wet Venting

- 1) A *soil-or-waste pipe* may serve as a *wet vent* provided that
 - a) the hydraulic load is in accordance with Table 2.5.8.1,
 - b) the number of wet-vented water closets does not exceed 2,
 - c) where 2 water closets are installed, they are connected at the same level by means of a double sanitary T fitting if the *vent pipe* is vertical and by means of a double Y fitting if the *vent pipe* is horizontal,
 - d) the water closets are installed downstream of all other *fixtures*,
 - e) *trap arms* and *fixture drains* connected to the *wet vent* do not exceed 2 inches in *size*, except for connections from *emergency floor drains* in accordance with Sentence 2.5.1.1.(3),

- f) the total hydraulic load on the *wet vent* does not exceed the limits stated in Table 2.5.8.1, when separately vented *branches* or *fixture drains* in the same *storey*, having a total hydraulic load not greater than 2 *fixture units*, are connected to the *wet vent* or a wet-vented water closet *trap arm*,
- g) the hydraulic load of separately vented *fixtures* that drain into the *wet vent* are not included when sizing the *continuous vent* that serves the *wet vent*,
- h) where a *wet vent* extends through more than one *storey*, the total discharge from any one *storey* above the first *storey* does not exceed 4 *fixture units*,
- i) there is not more than one *nominally horizontal offset* in the *wet vent*, and
- i) the *offset* does not exceed 1.2 m for pipes 2 inches or less in *size*, or ii) the *offset* does not exceed 2.5 m for pipes larger than 2 inches in *size*,
- j) the wet-vented portion is not reduced in *size* except for the portion that is upstream of *emergency floor drains* in accordance with Sentence 2.5.1.1.(3), and
- k) the length of the *wet vent* is not limited.

2.5.3. CIRCUIT VENTING

2.5.3.1. Circuit Venting

- 1)** A section of horizontal *branch* may be circuit-vented provided
- a *circuit vent* is connected to it,
 - all *fixtures* served by the *circuit vent* are located in the same *storey*, and
 - no *soil-or-waste stack* is connected to it upstream of a circuit-vented *fixture*.
- 2)** *Fixtures* with *fixture outlet pipes* less than 2 inches in *size* shall be separately vented or separately circuit-vented.
- 3)** Except as provided in Sentences (4) and (5), a *relief vent* shall be connected to the *branch* that forms part of a circuit-vented system, downstream of the connection of the most downstream circuit-vented *fixture*.
- 4)** A symmetrically connected *relief vent* may serve as a combined *relief vent* for a maximum of 2 *branches* that are circuit-vented, provided there are not more than 8 circuit-vented *fixtures* connected between the combined *relief vent* and each *circuit vent*.

Ref: BC Publications. (2012). Section 2.5. Venting Systems. In Part 2 Venting Systems.
<http://free.bcpublishings.ca/civix/document/id/public/vpbl2014/ep001002.5>