

Identification of document.

VARIANCE (Replaces Variance P01.02 dated May 14, 2002)

Date of Issue.

August 8, 2005

Authority Under which the variance is being issued

Under the authority of the *Safety Codes Act*, Chapter S-1 Section 38(1).

Where the variance applies.

This Variance applies throughout the Province of Alberta

Details of Variance

**Revised NPC
2.2.10.16 (1)**

***Air Admittance Valves* for use as an alternate method to a vent pipe that is terminated in open air. These Air Admittance Valves shall be certified to ASSE 1051, "Individual and Branch Type Air Admittance Valves for Sanitary Drainage Systems", and under the listed terms and conditions are acceptable for installation in Alberta as part of a plumbing system.**

TERMS AND CONDITIONS:

1. Air Admittance Valve as a Vent Terminal

**Alberta requirement
and
Revised NPC 2.5.9.2 (1)**

- 1.1** Except for fixtures located in island counters, *air admittance valves* shall **not** be used in new construction.
- 1.2** Individual vents may terminate with a connection to an *air admittance valve* in accordance with the requirements listed in this variance

2. Air Admittance Valves

**Revised NPC 2.5.9.2 (1)
and
Revised for Alberta**

- 2.1** Air admittance valves shall only be used to vent
- a) fixtures located in island counters,
 - b) fixtures in one and two family dwellings undergoing renovation, where the installation of conventional vent systems is not practical or readily accessible; or
 - c) fixtures in existing buildings where they are added or relocated during partial renovations and the installation of conventional vent systems is not practical or readily accessible;

and where acceptable to the **authority having jurisdiction**.

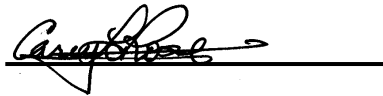
Revised NPC 2.5.9.2 (2)	<p>2.2 The air admittance valve shall be located:</p> <ul style="list-style-type: none"> a) at the highest level consistent with the available space and shall extend not less than 100 mm above the horizontal branch drain or fixture drain being vented, b) within the maximum developed length permitted for the vent, and c) not less than 150 mm above any insulation materials.
Revised	3. Installation Conditions
NPC 2.5.9.3 (1)	3.1 <i>Air admittance valves</i> shall not be installed in supply or return air plenums, or in locations where they may be exposed to freezing temperatures.
NPC 2.5.9.3 (2)	3.2 <i>Air admittance valves</i> shall be installed in accordance with the manufacturer's installation instructions.
NPC 2.5.9.3 (3)	3.3 <i>Air admittance valve</i> shall be rated for the size of vent pipe to which they are connected.
NPC 2.5.9.3 (4)	3.4 Installed <i>air admittance valves</i> shall be <ul style="list-style-type: none"> a) accessible, and b) located in a space that allows air to enter the valve.
NPC 2.5.9.3 (5)	3.5 Every drainage system shall have one vent that terminates to the outdoors in conformance with Sentence 2.5.6.5.(1).
Alta requirement and NPC 2.5.8.4 (5)	3.6 Every building drain shall be provided a stack vent not smaller than 75 mm nominal pipe size as per Sentence 5.8.4. (4) in the National Plumbing Code 1995 as amended for Alberta (Plumbing Code Regulation - AR219/97).
Manufacturers Instructions	<p>3.7 <i>Air admittance valves</i> shall not be installed to serve fixtures that discharge; corrosive or acid waste systems, grease and oil interceptors installations.</p> <p>3.8 <i>Air admittance valves</i> shall not be installed in areas where temperatures exceed 65°C (150°F).</p> <p>3.9 <i>Air admittance valves</i> shall be installed in a vertical position not exceeding 15 degrees from plumb.</p> <p>3.10 <i>Air admittance valves</i> shall not be used as relief vents.</p>

This will serve to verify that the installation of **Air Admittance Valves** shall be in accordance with the manufacturer's installation instructions and the terms and conditions of this Variance.

This Variance is partially based on the proposed revisions to the next edition of the National Plumbing Code of Canada that has been approved by the Canadian Commission on Building and Fire Codes, and recent acceptance by the Safety Codes Plumbing Technical Council.

This variance does not make or imply any assurance or guarantee with respect to life expectancy, durability or performance of these devices.

Identification of person
Issuing the Variance



Signature
Carey LaRose
Plumbing Technical Administrator
Certification No. S 000474

Employer of Administrator

Alberta Municipal Affairs
Plumbing & Gas Safety

Procedure for submission of a variance

A signed copy of the variance will be submitted to:

Safety Codes Council
Suite 800, 10707 - 100 Avenue
Edmonton, Alberta T5J 3M1

Advisement of Offence

Non-Compliance with the instructions contained in this variance is an offence under the Safety Codes Act.