

CODES

Currently there are several plumbing codes used in the USA; the International Plumbing Code (IPC), the Residential Plumbing Code (IRC), the Uniform Plumbing Code (UPC) and the National Standard Plumbing Code (NSPC). There are also many state and local codes as well as variations of these model codes.

INTERNATIONAL PLUMBING CODE (IPC) SECTION 917-AIR ADMITTANCE VALVES

917.1 General. Vent systems utilizing air admittance valves shall comply with this section. Stack-type air admittance valves shall conform to ASSE 1050. Individual and branch-type air admittance valves shall conform to ASSE 1051.

917.2 Installation. The valves shall be installed in accordance with the requirements of this section and the manufacturer's installation instructions. Air admittance valves shall be installed after the DWV testing required by Section 312.2 or 312.3 has been performed.

917.3 Where Permitted. Individual, branch, and circuit vents shall be permitted to terminate with a connection to an individual or branch-type air admittance valve. Stack vents and vent stacks shall be permitted to terminate to a stack-type air admittance valves. Individual and branch-type air admittance valves shall vent only fixtures that are on the same floor level and connect to a horizontal branch drain. The horizontal branch drain having individual and branch-type air admittance valves shall conform to Section 917.3.1 or 917.3.2. Stack-type air admittance valves shall conform to Section 917.3.3.

917.3.1 Location of branch. The horizontal branch drain shall connect to the drainage stack or building drain a maximum of four branch intervals from the top of the stack.

917.3.2 Relief vent. Where the horizontal branch is located more than four branch intervals from the top of the stack, the horizontal branch shall be provided with a relief vent that shall connect to a vent stack or stack vent or extend outdoors to the open air. The relief vent shall connect to the horizontal branch drain between the stack and the most downstream fixture drain connected to the horizontal branch drain. The relief vent shall be sized in accordance with Section 916.2 and installed in accordance with Section 905. The relief vent shall be permitted to serve as the vent for other fixtures.

917.3.3 Stack. Stack-type air admittance valves shall not serve as the vent terminal for vent stacks or stack vents that serve drainage stacks having more than 6 branch intervals.

917.4 Location. Individual and branch-type air admittance valves shall be located in a minimum of 4 inches (102mm) above the horizontal branch drain or fixture drain being vented. Stack-type air admittance valves shall be located not less than 6-inches (152mm) above the flood level rim of the highest fixture being vented. The air admittance valve shall be located within the maximum developed length permitted for the vent above the insulation materials.

917.5 Access and ventilation. Access shall be provided to all air admittance valves. The valve shall be located within a ventilated space that allows air to enter the valve.

917.6 Size. The air admittance valve shall be rated in accordance with the standard for the size of the vent to which the valve is connected.

917.7 Vent required. Within each plumbing system, a minimum of one stack vent or vent stack shall extend outdoors to the open air.

917.8 Prohibited installations. Air admittance shall not be installed in non-neutralized special waste systems as described in Chapter 8. Air admittance valves shall not be located in spaces utilized as supply or return plenums. Air admittance valves without an engineered design shall not be utilized to vent sump or tanks of any type.

SECTION 303 MATERIALS

303.1 Identification. Each length of pipe and pipe fitting, trap, fixture, material and device utilized in a plumbing system shall bear the identification of the manufacturer.

303.2 Installation of materials. All materials used shall be installed in strict accordance with the standards under which the materials are accepted and approved. In the absence of such installation procedures, the manufacturer's installation instructions shall be followed. Where the requirements of referenced standards or manufacturer's installation instructions do not conform to minimum provisions of this code, the provisions of this code shall apply.

303.3 Plastic pipe, fittings and components. All plastic pipe, fittings and components shall be third-party certified as conforming to NSF 14.

Section 406 Automatic Clothes

406.3 Waste Connection. The waste from an automatic clothes washer shall discharge through an air break into a standpipe in accordance with Section 802.4 or into a laundry sink. The trap and fixture drain for an automatic clothes washer standpipe shall be a minimum of 2 inches (51mm) in diameter. The automatic clothes washer fixture drain shall connect to a branch drain or drainage stack a minimum of 3 inches (76mm) in diameter.

Other Related Codes (see complete code information at www.ipscorp.com/Studor)

INTERNATIONAL RESIDENTIAL CODE (IRC) Section P 3114

UNIFORM PLUMBING CODE 301.2 alternate Materials and Methods of Construction Equivalency

NATIONAL STANDARD PLUMBING CODE (NSPC)

CANADIAN NATIONAL PLUMBING CODE DIVISION A DIVISION B