

**ICC-ES PMG Listing****PMG-1047***Effective Date: August 1, 2008**This listing is subject to re-examination in one year.***www.icc-es.org/pmg | (800) 423-6587 | (562) 699-0543***A Subsidiary of the International Code Council®*

CSI: DIVISION: 15—MECHANICAL  
Section: 15151—Air Admittance Valves

Product: SURE-VENT® (6 DFU, 20 DFU, 160 DFU and 500 DFU) Air Admittance Valves

Listee: Oatey Company  
4700 West 160<sup>th</sup> Street  
Cleveland, Ohio 44135  
[www.oatey.com](http://www.oatey.com)

Compliance with the following codes:

2006 *International Plumbing Code*® (IPC)  
2006 *International Residential Code*® (IRC)

Compliance with the following standards:

ASSE 1050  
ASSE 1051  
NSF Standard 14

Identification:

The SURE-VENT® air admittance valves described in this listing must be identified by molded or pad-printed lettering on the lid, indicating the name and size of the product, the manufacturer's name (Oatey Company), and either the ICC-ES evaluation report number (ESR-1664) or the ICC-ES PMG listing number (PMG-1047) and/or the ICC-ES PMG listing mark.

Installation:

SURE-VENT® air admittance valves must be installed in accordance with the requirements of IPC Section 917 or IRC Section P3114, as applicable, and the manufacturer's published installation instructions.

A minimum of one vent must terminate in the open air outdoors for each building drain when air admittance valves are installed.

Installation of SURE-VENT® air admittance valves to vent a special waste or chemical waste system is outside the scope of this listing.

Models: SURE-VENT® air admittance valves consist of a body, cap and slide and diaphragm. The body, cap and slide are manufactured from virgin polyvinyl-chloride (PVC) plastic. The diaphragm is manufactured from nitrile (NRB) elastomer or chloroprene (CR) elastomer (Neoprene).

### 6 DFU SURE-VENT®

6 DFU SURE-VENT® is available with a 1½-inch-diameter (38 mm) male pipe thread connection for connection to 1½-inch-diameter (38 mm) vent pipes. Adapters are available for solvent cementing to 1½-inch-diameter (38 mm) Schedule 40 DWV pipe in ABS (acrylonitrile-butadiene-styrene) and PVC. Also, adapters are available for tubular connection in 1½-inch-diameter (38 mm) slip joints in both black and white polypropylene.

### 20 DFU SURE-VENT®

20 DFU SURE-VENT® is available with a 2-inch-diameter (51 mm) male pipe thread connection for connection to 2-inch-diameter (51 mm) vent pipes. Adapters are available for solvent cementing to 1½- and 2-inch-diameter (38 and 51 mm) Schedule 40 DWV pipe in ABS and PVC.

### 160 DFU SURE-VENT®

160 DFU SURE-VENT® is available with a 2-inch-diameter (51 mm) male pipe thread connection for connection to 3-inch-diameter (76 mm) vent pipes. Adapters are available for solvent cementing to 2- and 3-inch-diameter (51 and 76 mm) Schedule 40 DWV pipe in ABS and PVC.

### 500 DFU SURE-VENT®

500 DFU SURE-VENT® is available with a 3-inch-diameter (76 mm) male pipe thread connection for connection to 4-inch-diameter (102 mm) vent pipes. Adapters are available for solvent cementing to 3- and 4-inch-diameter (76 and 102 mm) Schedule 40 DWV pipe in ABS and PVC.

#### Conditions of Listing:

1. Each SURE-VENT® air admittance valve must be located a minimum of 4 inches (102 mm) above the weir of the fixture trap when providing trap seal protection for fixtures or branches. When serving as vent terminals for stack vents or vent stacks, the valves must be a minimum of 6 inches (152 mm) above the flood level rim of the highest fixture served.
2. Each SURE-VENT® air admittance valve must be accessible for service, repair and replacement.
3. The SURE-VENT® air admittance valve must be located to allow adequate air to enter the valve. When located in a wall space or attic space, ventilation openings must be provided into the space. When in an attic space, they must be located a minimum of 6 inches (152 mm) above any ceiling insulation.
4. The air-admittance valve must be installed in the vertical upright position. The maximum offset from the vertical upright position must not exceed 15 degrees.
5. Each vent must connect to the drain with a vertical connection to maintain an unblocked opening in the piping to the air admittance valves.
6. A minimum of one vent stack or stack vent must extend outdoors to the open air for every building plumbing drainage system unless specifically engineered.
7. SURE-VENT® air admittance valves are permitted to be installed as the vent termination for a vent stack or stack vent with six branch intervals or less.
8. The air admittance valves must be installed after the drainage system has been pressure tested.
9. When a horizontal branch connects to a stack more than four branch intervals from the top of the stack, a relief vent must be provided. The relief vent must be located between the connection of the branch to the stack and the first fixture connecting to the branch. The relief vent may also serve as a vent for a single fixture. The relief vent must connect to the vent stack or stack vent and extend to the open air outside the building.