

# AIR ADMITTANCE VALVE WITH FIRE-RATED ACCESS BOX

»» 250 SERIES

TurboVent™

## SPECIFICATION

Sioux Chief 250 series TurboVent air-admittance valves with fire-rated access box shall be installed as vent terminal for secondary venting within the plumbing system. Valve shall connect to DWV system via Sch. 40 adapter, and be accessible after finish wall is installed. Valve shall incorporate an actuating device which spins upon activation to keep the sealing surface clean and free of debris. During drainage, actuating device shall raise under negative line pressure to allow optimal air flow into the DWV system. Valve shall provide a positive seal at 0 psi and under any positive line pressure to prevent sewer gasses from entering the living space.

## MATERIALS

**Valve housing:** ABS (white)  
**Sealing member:** elastomer  
**DWV adapter:** ABS or PVC  
**Access box:** ABS (white)  
**Box frame:** Fire-Rated ABS (white)  
**Louvered frame insert:** ABS (white)  
**Fire-guard pad:** Intumescent material

## DFU RATING

**Stack:** 8<sup>1</sup> or 24<sup>2</sup> (drainage fixture units)  
**Branch:** 20<sup>1</sup> or 160<sup>2</sup> (drainage fixture units)

1 when connected to 1-1/2" pipe 2 when connected to 2" pipe

## INSTALLATION

For use in wood or metal stud construction.  
 Max of 100 in<sup>2</sup> of wall penetrations per 100 ft<sup>2</sup> of wall area

## CODES & STANDARDS

Certified by ASSE to 1050 & 1051; listed by IAPMO  
 Adapters conform to ASTM D2661/D2665  
 Conforms to IPC 2021 918.1; IRC 2021 P3114.1  
 Conforms to UPC 2021 section 301.3

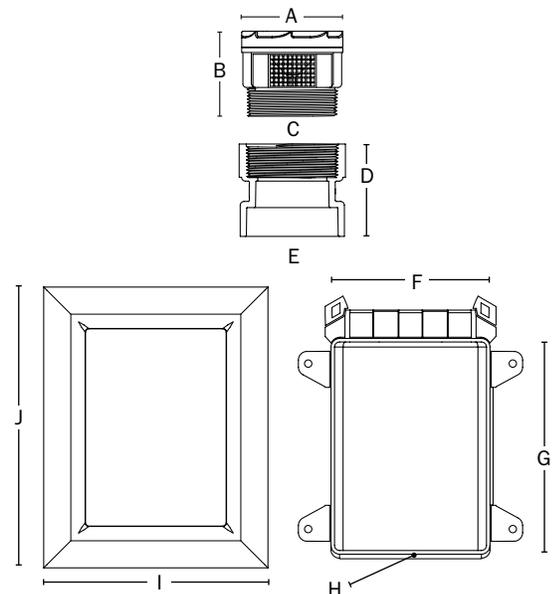
## DIMENSIONS

<b>A:</b> Valve width	2-3/4"
<b>B:</b> Valve height	2-1/8"
<b>C:</b> Thread size	2" NPT
<b>D:</b> Adapter height	1-3/4"
<b>E:</b> Adapter connection	1-1/2" x 2" Sch. 40 hub
<b>F:</b> Box rough-in width	4"
<b>G:</b> Box rough-in height	5-1/2"
<b>H:</b> Pipe cutout dia.	2-3/8"
<b>I:</b> Frame width	5-3/4"
<b>J:</b> Frame height	7-1/4"

ITEM # SUBMITTED	_____
JOB NAME	_____
LOCATION	_____
ENGINEER	_____
CONTRACTOR	_____
PO#	_____ TAG _____



250-696R122P



Create Item Number

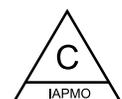
**250-A**

e.g. **250-696R122P:** TurboVent air-admittance valve with fire-rated access box and PVC dual-fit adapter

### DWV ADAPTER A

**696R122A** = ABS Adapter

**696R122P** = PVC Adapter



1050 & 1051

# FIRE-RATED OXBOX

## DESIGN SPECIFICATION

### 1. WALL CONSTRUCTION

- Wood or metal stud construction, max 100 in.<sup>2</sup> of penetrations per 100 ft<sup>2</sup> of wall.
- 16" or 24" on-center stud construction.
- Can be installed with a gap between front and back wall assemblies (UL Design # U341) (Figure 2).
- Single-layer 5/8" gypsum construction with 1-hour fire rating.
- Double-layer 5/8" gypsum construction with 2-hour fire rating. Frame extensions can be used.
- Boxes cannot be installed back to back.

### 2. PIPE/BOX SUPPORT

- Each outlet box shall be installed in a separate stud bay and attached to the stud (Figure 3 & 4). Fire rating does not apply to installations of two or more boxes in the same stud bay.
- Supplied support bar.
- Supply lines to be installed using ordinary methods.
- Drain line to be supported using ordinary methods.

### 3. PIPE MATERIAL

- 2" or larger metallic, PVC, or ABS DWV pipe.
- Metallic or plastic water supply pipe.

### 4. FIRESTOP DEVICE

Sioux Chief fire-rated OxBox uses fire-rated resin. Boxes have 4" x 4" intumescent adhesive pads factory installed on the back of boxes.

NOTE: Gaps up to 1/2" around box can be sealed with drywall plaster. Larger gaps require firestop sealant applied to opening spanning entire drywall depth

FIGURE 1

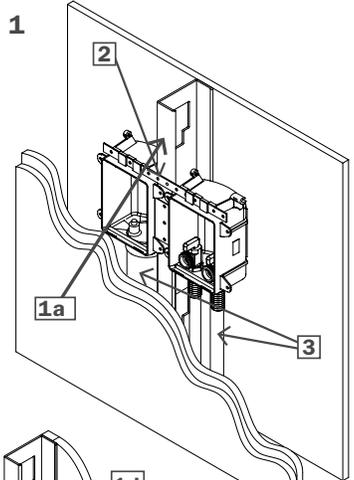
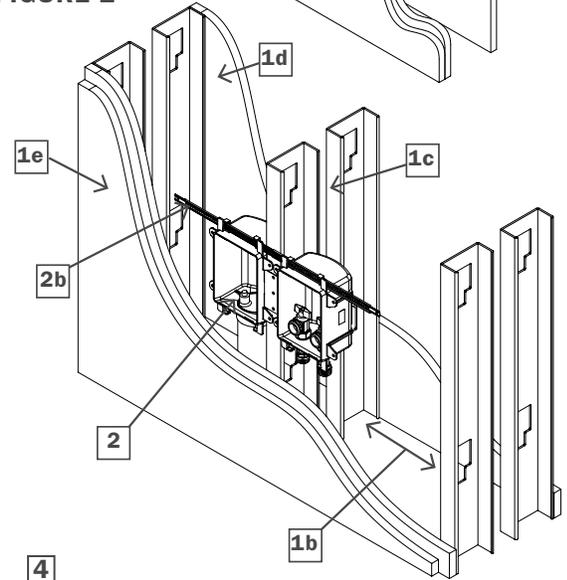


FIGURE 2



4

Fire-rated ABS

UL D.#U341

"over stud" installation

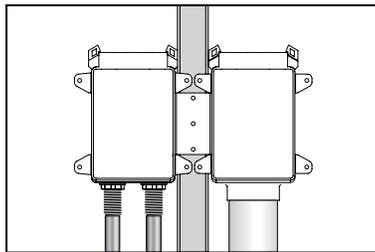


FIGURE 3

"separate stud bay" installation

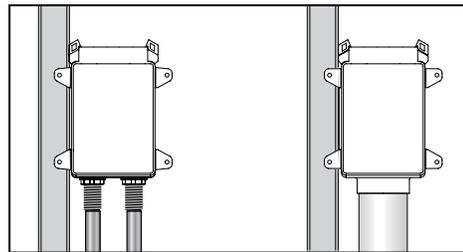
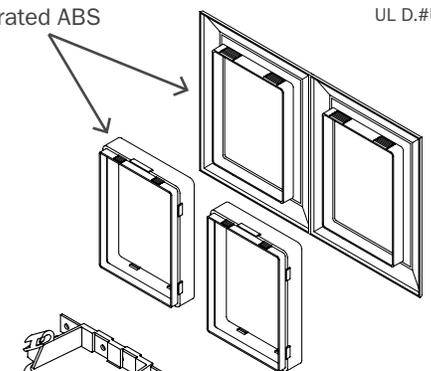


FIGURE 4



Intumescent pads

**THE FIRE-RATED OXBOX IS CERTIFIED BY INTERTEK/WARNOCK HERSEY TO THE FOLLOWING FIRE RATING STANDARDS:**

**ASTM E-814**

2 hours (F), 1½" hours (T)  
for 2-hour design  
1 hour (F), 31 mins (T)  
for 1-hour design

**ASTM E119**

**CAN/ULC S115**

2 hours (F), 1½" hours (T)  
for 2-hour design  
1 hour (F), 31 mins (T)  
for 1-hour design

**UL 1479**

