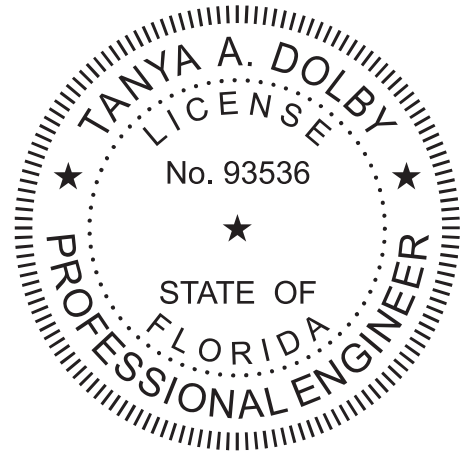




AIR VENT INC. TEST REPORT

Tanya A. Dolby

Digitally Signed by: Tanya Dolby

2025.08.20 11:54:38 -04'00'

SCOPE OF WORK

STRUCTURAL TESTING ON 4" BATH DRYER VENT WITH STEM

REPORT NUMBER

S9112.01-801-44-R1

TEST DATE

07/31/25

ISSUE DATE

08/13/25

REVISION DATE

8/20/25

RECORD RETENTION END DATE

07/31/29

PAGES

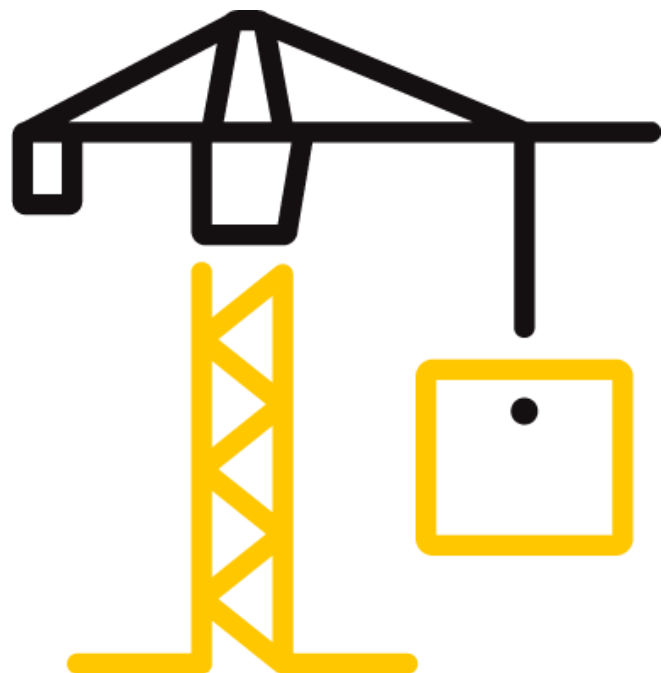
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DOCUMENT CONTROL NUMBER

ATI 00479 (07/24/17)

RT-R-AMER-Test-2805

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TEST REPORT FOR AIR VENT INC.

Report No.: S9112.01-801-44-R1

Date: 08/13/25

1909 10th Street, Suite 100
Plano, Texas 75074
Telephone: 469-814-0687
www.intertek.com/building

REPORT ISSUED TO

AIRVENT INC.

4117 Pinnacle Point Drive. Suite 400
Dallas, Texas 75211

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Air Vent, Inc., Dallas, Texas to perform testing in accordance with ASTM E330-14 on their 4" Bath Dryer Vent with Stem. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at Intertek B&C test facility in Plano, Texas.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

For INTERTEK B&C:

COMPLETED BY:	Jeffrey Crump, FMPC
TITLE:	Laboratory Manager
SIGNATURE:	 Digitally Signed by: Jeffrey Crump
DATE:	08/20/25

JC/cm

REVIEWED BY:	Tanya Dolby, P.E.
TITLE:	Engineering Manager- Building & Construction
SIGNATURE:	
DATE:	08/20/25

SECTION 2**SUMMARY OF TEST RESULTS**

TITLE	TEST SPECIMEN #1 4" BATH DRYER VENT WITH STEM
Negative Design Pressure	-13,200 Pa (-275.69 psf)

SECTION 3**TEST METHOD(S)**

The specimens were evaluated in accordance with the following:

ASTM E330/E330M-14, *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*

SECTION 4**LIST OF OFFICIAL OBSERVERS**

NAME	COMPANY
Jeffrey Crump	Intertek B&C
Alex Buruian	Intertek B&C
Shumon Hossain	Air Vent Inc.

SECTION 5

TEST SPECIMEN DESCRIPTION

Test Specimen #1

	WIDTH		Length	
	millimeters	inches	millimeters	inches
Vent Size	145.2	5.72	211	8.31
Base	241.3	9.50	286	11.25

	millimeters	Inches
Vent Height	112.3	4.42

	millimeters	inches
Stem Dia.	98.6	3.88

Product Description/Installation: The vent was constructed of galvanized steel and anchored to a galvanized steel base utilizing rivets, wire mesh and plastic flap located at vent stem.

The unit was secured to a roof deck made from SPF nominal 2 x 4 base and truss with 3/8" OSB deck.

LOCATION	ANCHOR DESCRIPTION	ANCHOR LOCATION
Through vent inlet flange and into sheathing with shingles installed on top of flange	1-1/4" long x 0.115" shaft diameter x 0.361" head diameter, smooth shank roofing nails	The vent was anchored onto a 3/8" OSB deck using 1-1/4" long x 0.115" shaft diameter x 0.361" head diameter, smooth shank roofing nails on all four sides spaced 1" from each corner. A 5" diameter opening was cut into the OSB deck.

SECTION 6

TEST SPECIMEN DESCRIPTION

The temperature during testing was 21°C (70°F). The results are tabulated as follows:

Test Specimen #1: 4" Bath Dryer Vent

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Uniform Load Structural, per ASTM E330 -13,200 Pa (-275.69 psf)	No Damage	No Damage	1, 2

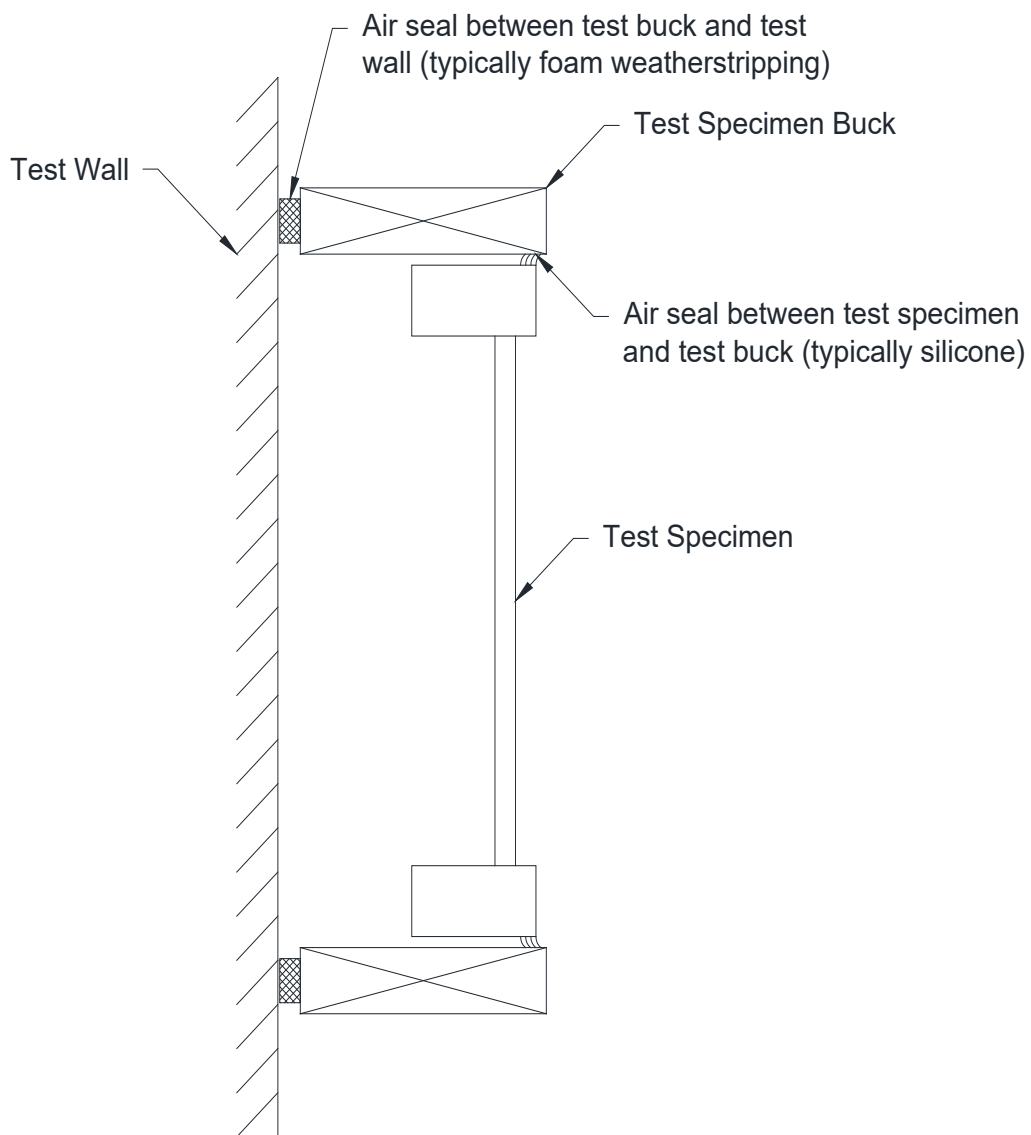
General Note: All testing was performed in accordance with the referenced standard.

Note 1: Loads were held for 60 seconds.

Note 2: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

SECTION 7**LOCATION OF AIR SEAL**

The air seal between the test specimen and the test wall is detailed below. The seal is made of foam weatherstripping and is attached to the edge of the test specimen buck. The test specimen buck is placed against the test wall and clamped in place, compressing the weatherstripping and creating a seal.





Total Quality. Assured.

TEST REPORT FOR AIR VENT INC.

Report No.: S9112.01-801-44-R1

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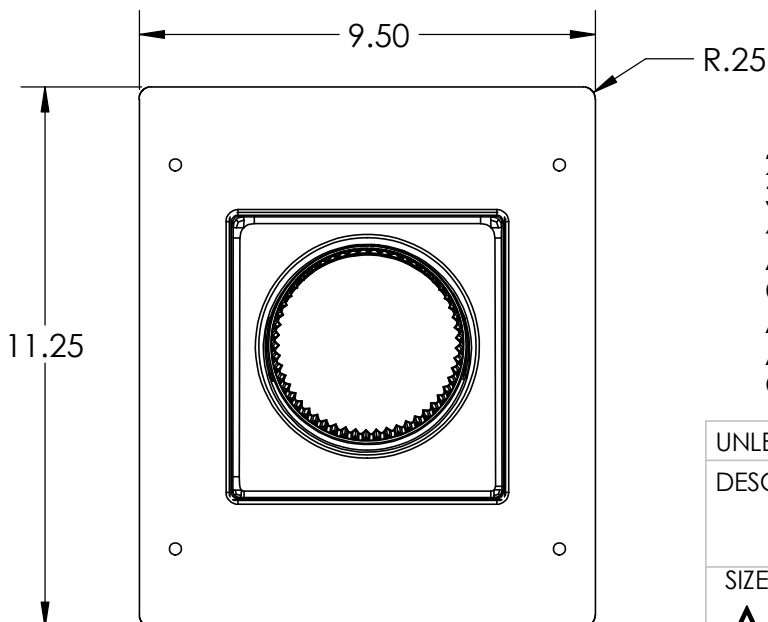
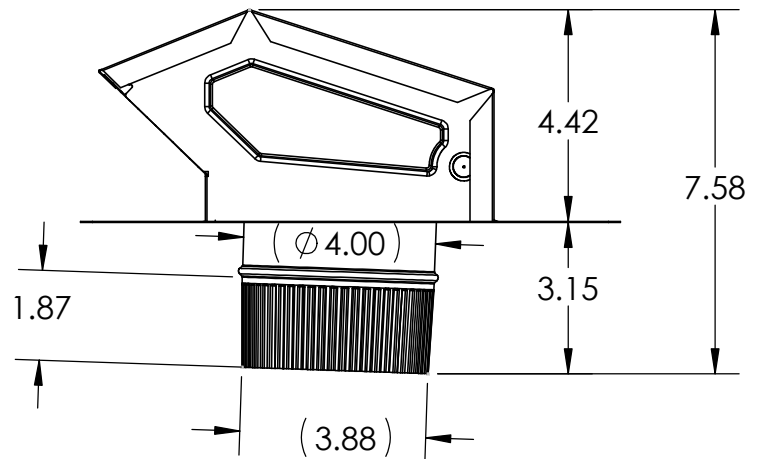
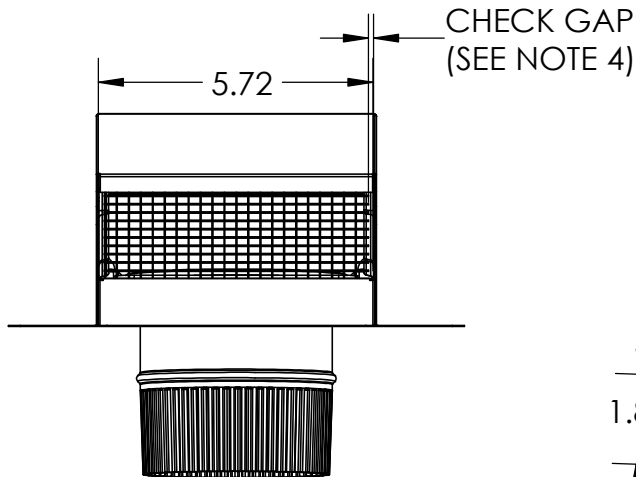
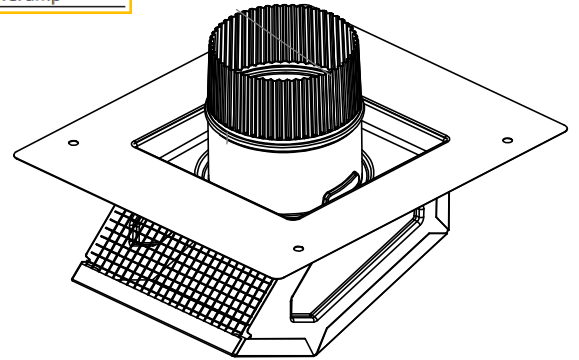
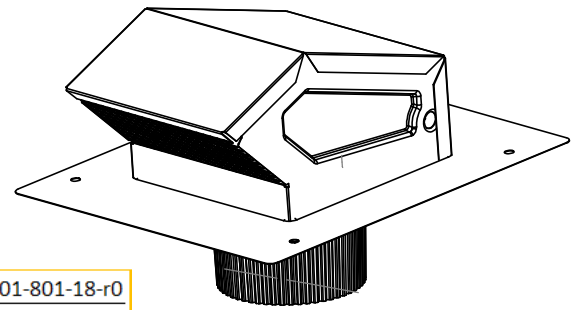
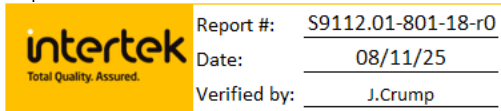
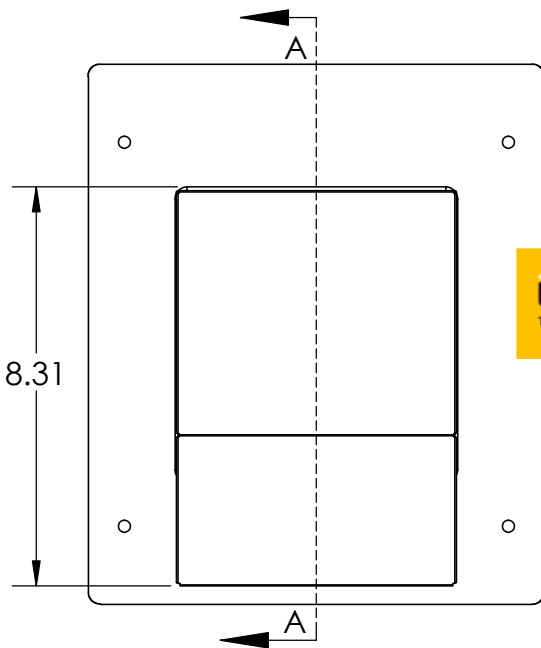
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SECTION 8

DRAWINGS

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

Note: *Complete drawings packet on file with Intertek B&C.*



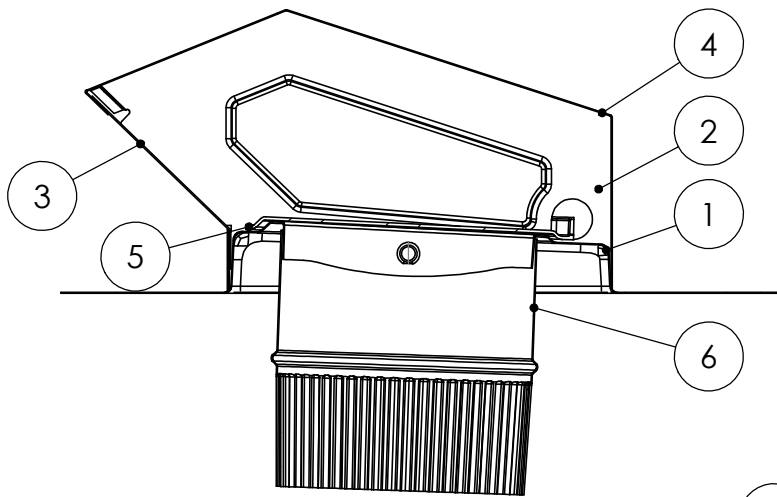
1. MATERIAL: 28 GAUGE GALVANIZED STEEL
2. FINISH: MATTE BLACK PAINT
3. ROOF PITCH: 2/12 TO 14/12
4. 1/4" MESH ALUMINUM SCREEN PROTECTS AGAINST INSECTS AND DEBRIS. MESH SHALL BE CUT AT 5.5" WIDE. GAP BETWEEN FRONT MESH AND SIDE OF HOOD SHALL NOT EXCEED 1/4". ASSEMBLIES SHALL BE CHECKED WITH A GO-NO GAGE TO VERIFY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

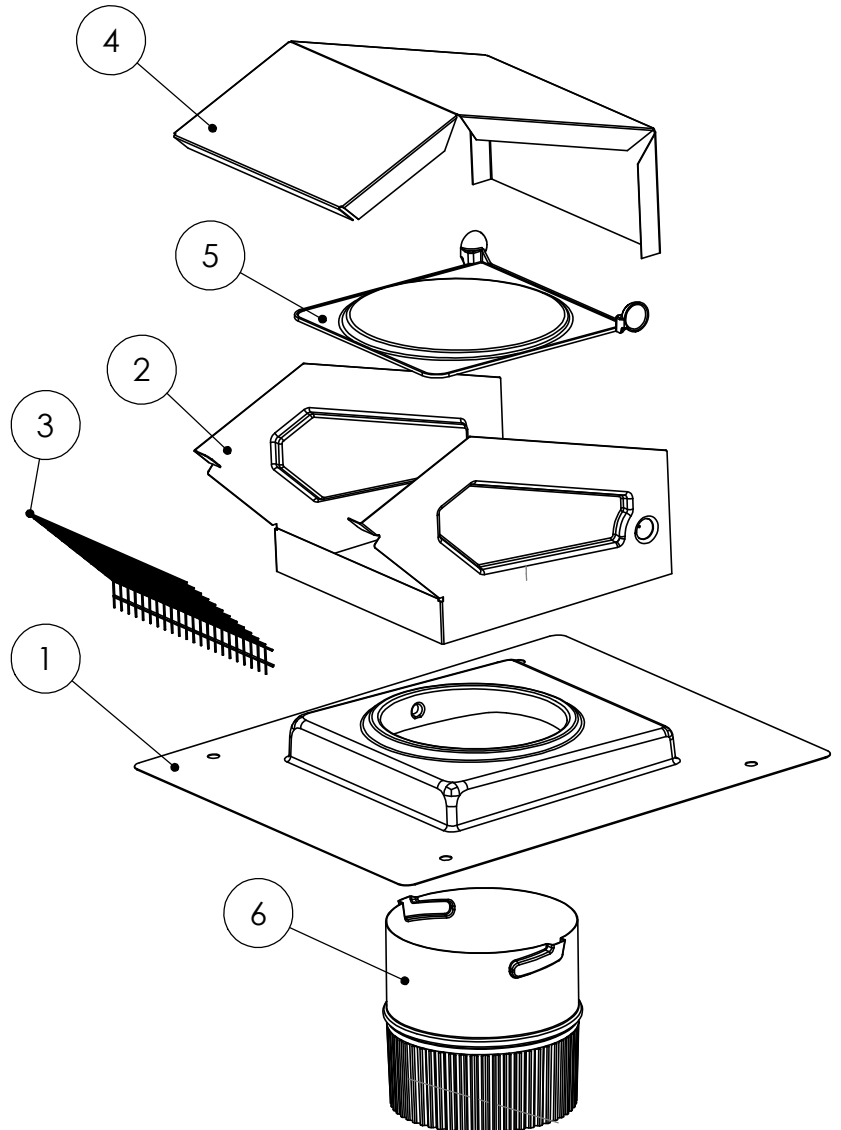
DESCRIPTION

4 inch vent

SIZE	GIBRALTAR	DWG NO	53908	REV	00
	BUILDING ACCESSORIES DIVISION				
	AIRVENT APPLETON AWARD DOT				
	NORWESCO GAP SEMCO				
INITIALS	JZ	DATE:	3/5/2025	SCALE: 1:4	SHEET 1 OF 2



intertek Total Quality. Assured.	Report #:	S9112.01-801-18-r0
	Date:	08/11/25
	Verified by:	J.Crump



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	16153	BASE	1
2	16155	SIDE	1
3	16157	1/4" MESH	1
4	16154	DOMES	1
5	16156	DAMPER	1
6	16161	STEM	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
DESCRIPTION		4 inch vent	
SIZE	GIBRALTAR BUILDING ACCESSORIES DIVISION AIRVENT APPLETON AWARD DOT NORWESCO GAP SEMCO	DWG NO	REV
A		53908	00
INITIALS	JZ	DATE:	3/5/2025
SCALE: 1:3		SHEET	2 OF 2

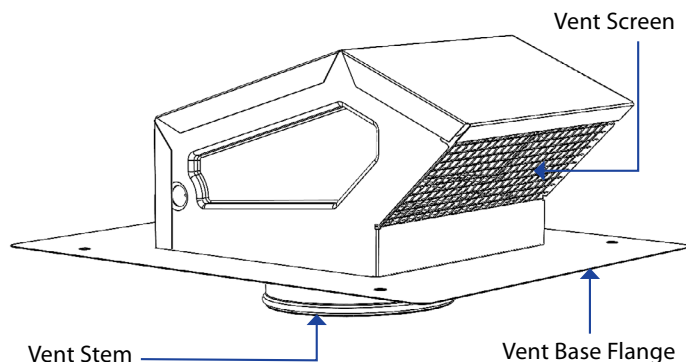


WARNING: The metal (galvanized and aluminum) vents contain sheet metal components that may contain sharp edges. Work gloves with an ANSI A5 or EN 388:2016E cut resistance rating or greater must be worn when handling/installing this product.

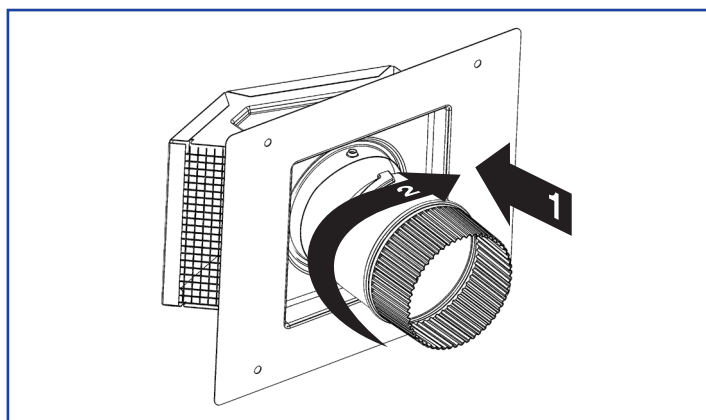
TOOLS & SUPPLIES NEEDED

- Roofing/Utility Knife
- Reciprocating Saw
- Galvanized Roofing Nails (minimum 4)
- Marker
- Hammer
- Tape Measure
- Roof Cement
- Pry Bar

BATH & DRYER VENT

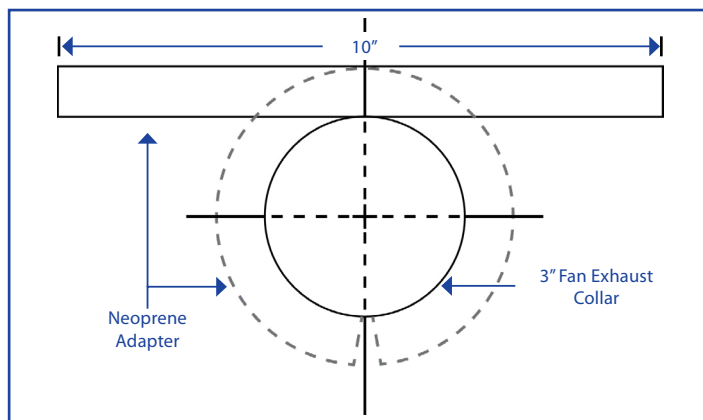


HOW TO ATTACH STEM TO VENT



Align opening slots at the top of stem connector with the dimples on the base of the vent. Slide stem connector onto the dimples and twist clockwise to secure.

HOW TO ATTACH 3" COLLAR ADAPTER



If the collar on fan or attachment requires a 3" diameter, use the neoprene strip adapter to increase the diameter to 4". To install the adapter, center it on top of the fan or attachment collar and wrap it around the collar while removing the adhesive backing.

NOTE: BE SURE TO REMOVE THE 1/4 INCH VENT SCREEN FROM VENT IF IT IS TO BE USED AS A DRYER VENT
BATH VENT KIT MODEL# MBDVENTSK IS NOT RECOMMENDED FOR DRYER VENTING

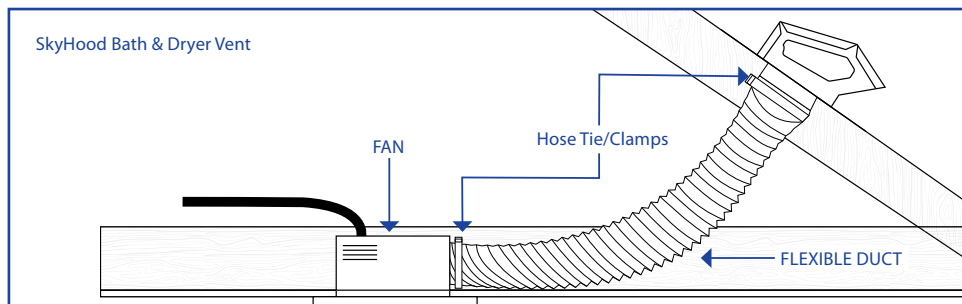


CAUTION! Working above grade is inherently dangerous, be sure that proper fall protection measures are in place. When working with power tools and sheet metal, gloves and eye protection are absolutely required.

These installation guidelines are for use with standard applications. It is always recommended to seek advice from a licensed professional, and to check with your local building inspector or building permit office for approvals and possible variations that may apply to ensure that the installation of this vent meets all local codes and standards.

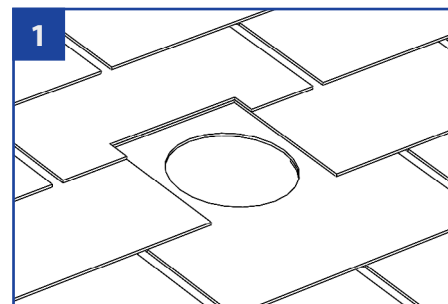
**LIMITED LIFETIME WARRANTY. PROOF OF PURCHASE IS REQUIRED WHEN REQUESTING WARRANTY SERVICE.
THE ORIGINAL PURCHASER MUST PRESENT A SALES RECEIPT OR OTHER DOCUMENT THAT ESTABLISHES PROOF OF PURCHASE.**

I PITCHED ROOF INSTALLATION

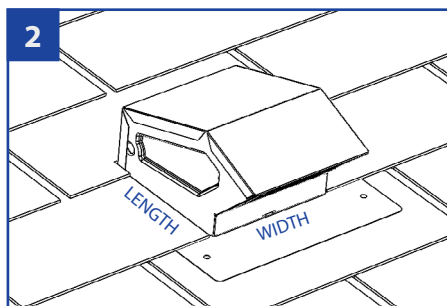


Example of ductwork and vent installation.

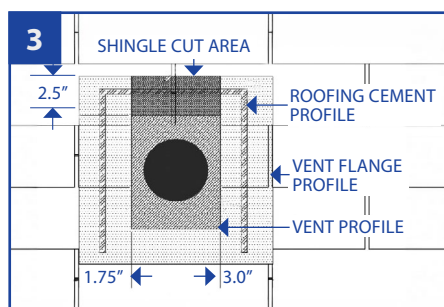
Note: Skyhood Vent Kit, Model #MBDVENTSK is not recommended for dryer venting



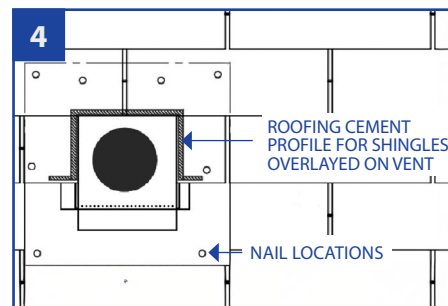
Cut a circular hole in roof approximately 1/2" larger than the diameter of the vent stem or opening. The hole should be at least 2 feet away from chimneys, roof valleys, or other vent pipes.



Position vent over the hole and mark the outline of the base flange (Length X Width).



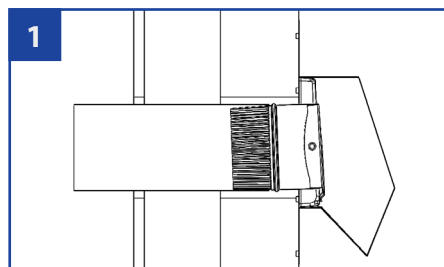
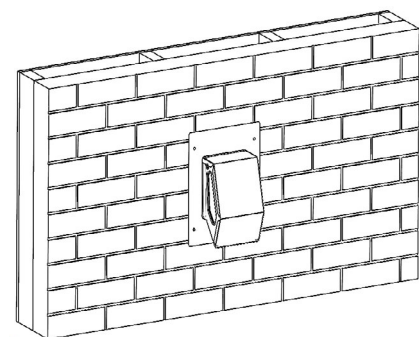
Trim shingles as shown, so they will fit snugly around the base of the vent when installed. Some existing nails may have to be removed to allow the vent to slide in place. Apply roofing cement to the bottom of the flange as shown.



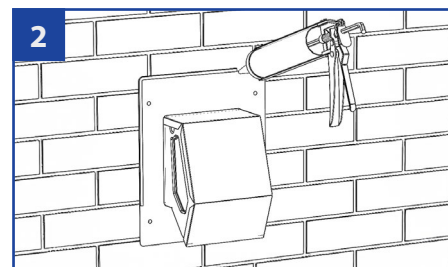
Carefully slide the base of the vent under the shingles with screened opening pointing towards the eave of roof.

Fasten the base to the roof decking with a minimum of 4 galvanized roofing nails. Ensure that the roofing nails fully penetrate the roof deck/sheathing. Finish by sealing all seams between shingles and base with roofing cement. Seal all exposed nail heads with roof cement as well.

I SIDE WALL INSTALLATION



Cut opening in side wall to a minimum 5" diameter so that the vent will line up easily with duct. Determine thickness of final wall and adjust vent and duct position so that the vent base flange will be flush with the external side wall.



After vent is in position, secure vent using appropriate hardware for external wall. Caulk all around flange and seal exposed hardware heads.

NOTE: BE SURE TO REMOVE THE 1/4 INCH VENT SCREEN FROM VENT IF IT IS TO BE USED AS A DRYER VENT
BATH VENT KIT MODEL# MBDVENTSK IS NOT RECOMMENDED FOR DRYER VENTING



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SECTION 9

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	08/13/25	N/A	Original Report Issue
1	8/20/25	Cover, 2	Added PE Stamp to cover Removed Alexei Buruian and added Tanya Dolby, PE as signer