



Farabaugh Engineering and Testing Inc.

Project No. T266-25

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Dade County Laboratory Certification No. 22.0816.02

TAS 100A-23
TEST PROCEDURE FOR WIND AND WIND DRIVEN RAIN RESISTANCE
PERFORMANCE TEST REPORT

VSS RIDGE VENT

FOR

MORRIS ARCHITECTURAL METALS
1983 CENTER POINT ROAD, STE A
TEMPLE, GA. 30179

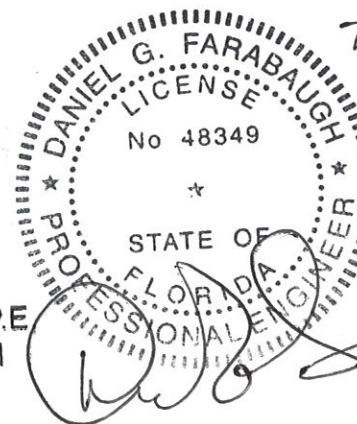
Prepared by:

Paul G. Farabaugh

Approved by:

Daniel G. Farabaugh, PE

DANIEL G. FARABAUGH, P.E.
255 Saunders Station Rd
Trafford, PA 15085
412-417-5153



Scope of Test:

The purpose of the testing was to determine the performance of the test specimens under the conditions set forth in the referenced standards and as provided herein.

Customer:

Morris Architectural Metals
1983 Center Point Road, Ste A.
Temple, GA. 30179

Test Specimen:

Specimen: VSS Ridge Vent
(Size: 8' long x 22-3/4" wide x 7-1/2" high. The Ridged vent consisted of 0.040" aluminum ridge cap, 0.063" perforated alum. vented base, 0.040" aluminum rain diverter and a 0.040" aluminum end cap.)

Substrate: 15/32" Plywood Decking / Self-Adhering Underlayment /Asphalt shingles

Material Source: Test specimens were provided by the customer

Deck:

The wood test deck consisted of 15/32" APA Plywood installed over 2 X 6 wood supports spaced at 24" apart. The plywood sheathing was attached with 8d X 2-1/2" long nails spaced at 6" o.c. at panel edges and 12" o.c. at intermediated supports. The windward deck was 8' wide by 6' long and the leeward deck was 8' wide by 1'-6" long. Soffit ventilation was installed beneath the windward eave with a net free area equal to 72 +/- 5 sq. in. A tray was installed on the underside of the ridge area to capture any water that infiltrates the ridge area ventilation system. A self-adhering underlayment was applied to the plywood sheathing in accordance with the manufacturer's instructions.

Assembly:

Asphalt shingles were installed over the plywood / underlayment substrate using 1-3/4" hot dipped galvanized fasteners as shown on the attached details. The VSS Ridge Vent was installed on the top side of asphalt shingles. The continuous ridge vent extended 6' across the ridge, leaving 1ft of ridge waterproofing in place on each side of the ridge vent. See installation drawings of vented base, rain diverter ridge cap and end cap pieces. The perimeter of the test assembly was sealed to the wood frame.

Calibrations:

Calibrations of the Windstream, Flow Meter and Water Distribution was performed per TAS 100A-23

Test Witness

Daniel G. Farabaugh, P.E. (Florida PE #0048349)
255 Saunders Station Road
Trafford, PA. 15085

Conditioning

Conditioning was required for the asphalt shingles.

Test Standard

TAS 100(A)-23, *Test Procedure for Wind and Wind Driven Rain Resistance and/or Increased Wind Speed Resistance of Soffit Ventilation Strip and Continuous or Intermittent Ventilation System Installed at the Ridge Area*

Test Procedure

- The test assembly was positioned at a 3 on 12 slope and also with the 8 ft. eave facing the wind generator.
- The test assembly was subjected to wind speed and water spray intervals as follows.

Test Data

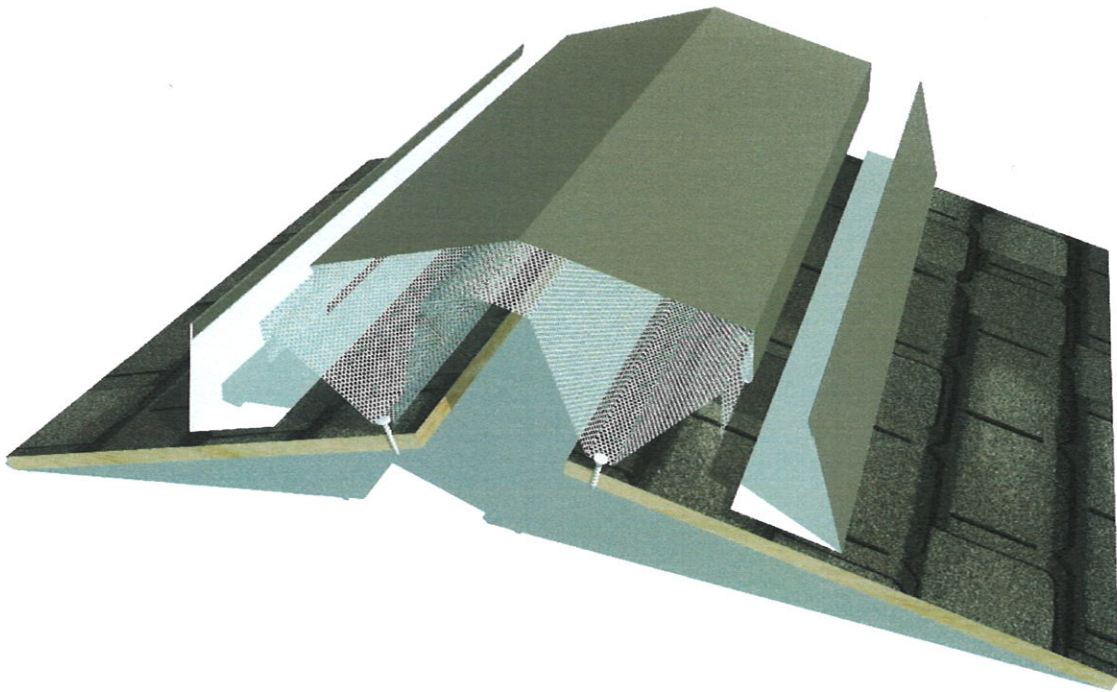
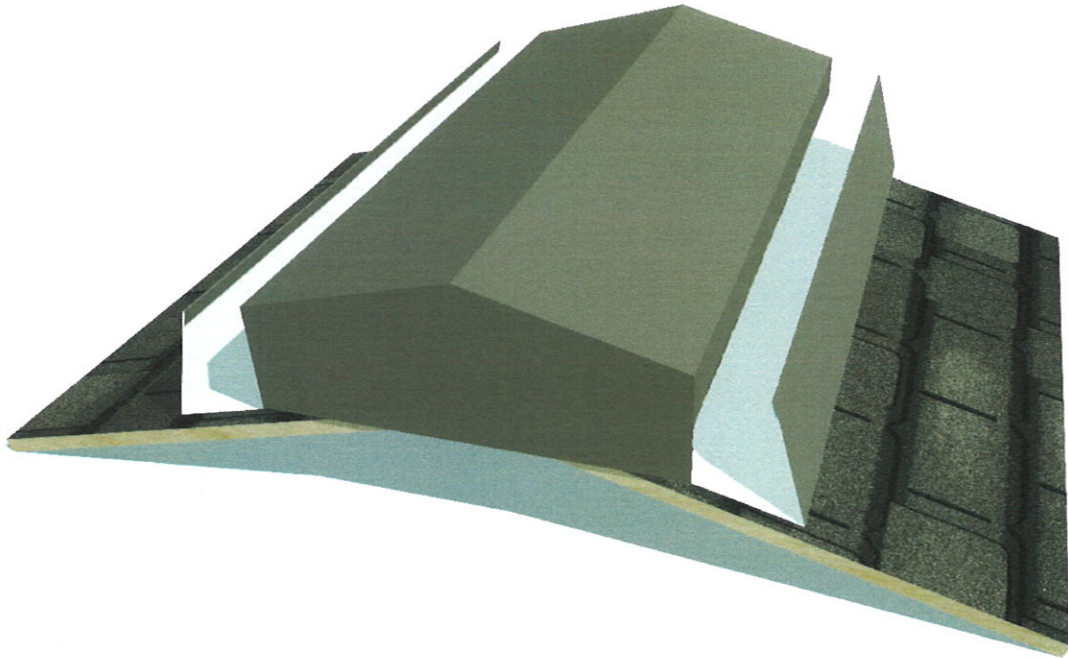
Test Date: 7-8-25

INTERVALS	WIND SPEED (MPH)	WATER SPRAY RATE (IN/HR)	WATER SPRAY	TIME (MIN)	WATER COLLECTED (ML)
1	35	8.8	ON	15	19
2	0	-	OFF	5	0
3	70	8.8	ON	15	18
4	0	-	OFF	5	0
5	90	8.8	ON	15	22
6	0	-	OFF	5	0
7	110	8.8	ON	5	10
8	0	-	OFF	5	0

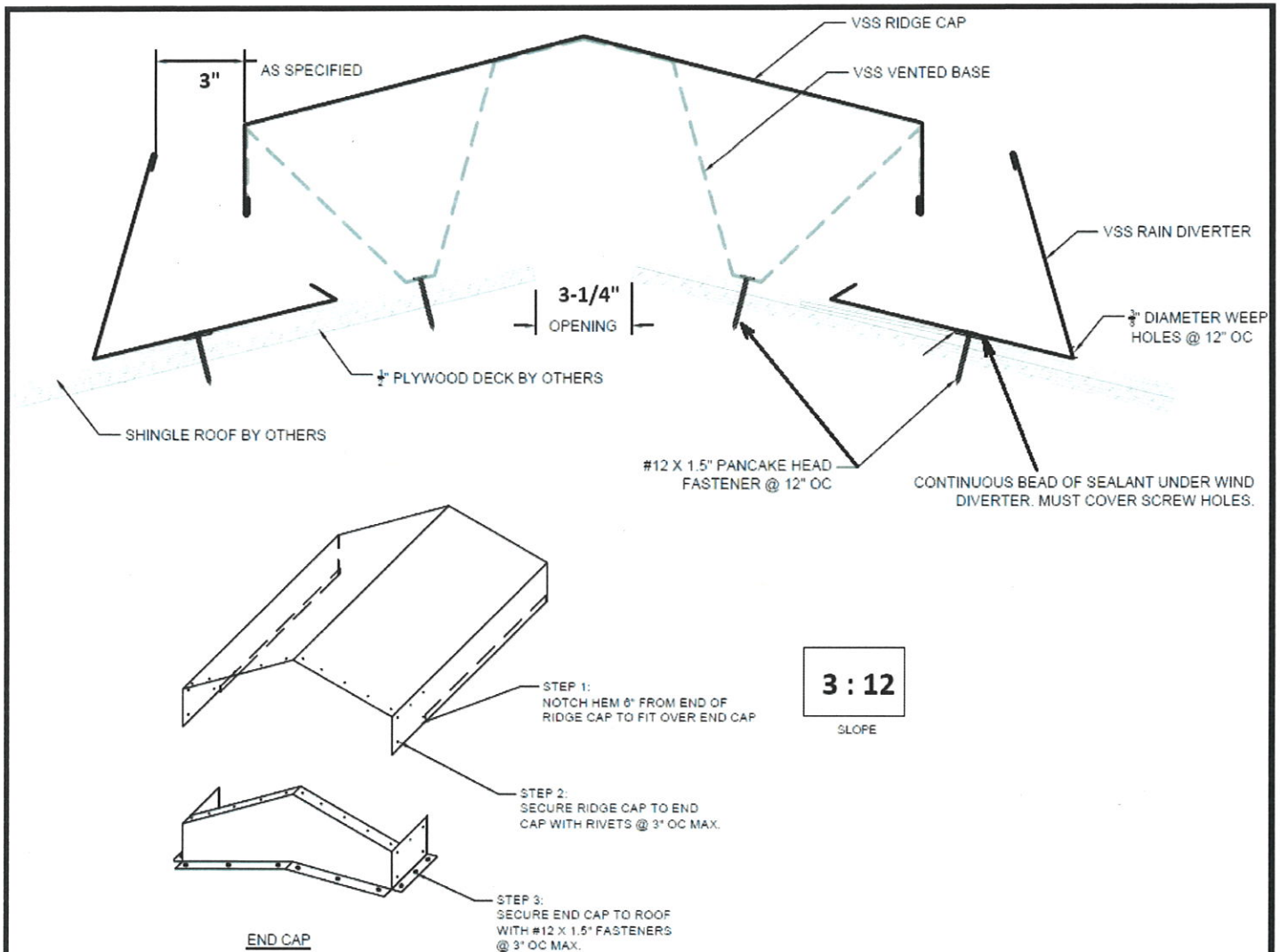
Summary of Observations

Upon completion of the test intervals, visual observation indicated that there was no damage to the roof vent system and the total water collected was 69 ml. The total maximum allowable water infiltration is 415 ml (0.05% of total water sprayed), therefore the test PASSED.

VSS RIDGE VENT



VSS RIDGE VENT



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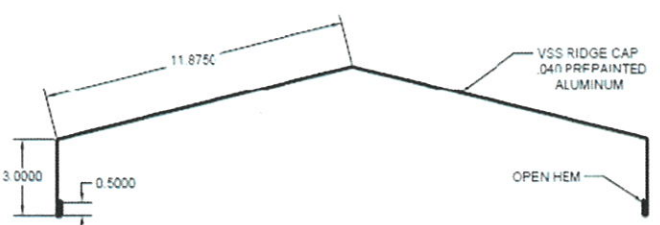
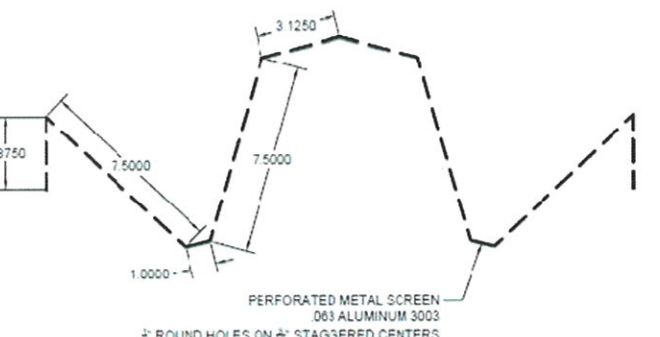
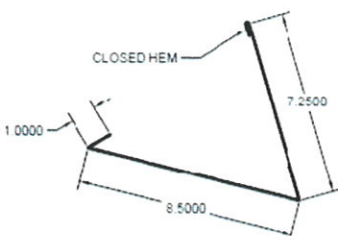
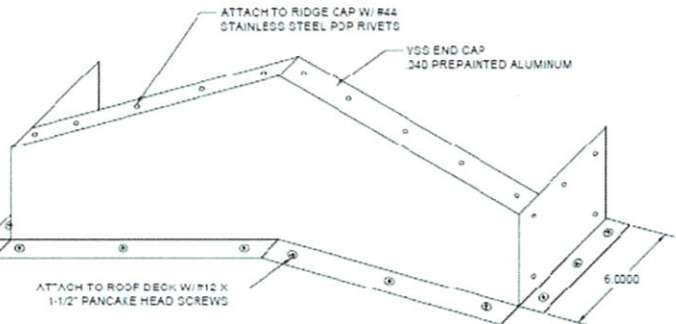
Project:

Architect:

Contractor:

Purchaser:

VSS RIDGE VENT

VSS RIDGE CAP .040 PREPAINTED ALUMINUM	VSS VENTED BASE .063 3003 ALUMINUM $\frac{1}{8}$" HOLES ON $\frac{1}{16}$" STAGGERS								
 VSS RIDGE CAP .040 PREPAINTED ALUMINUM OPEN HEM	 PERFORATED METAL SCREEN .063 ALUMINUM 3003 $\frac{1}{8}$" ROUND HOLES ON $\frac{1}{16}$" STAGGERED CENTERS								
VSS RAIN DIVERTER .040 PREPAINTED ALUMINUM	VSS END CAP .040 PREPAINTED ALUMINUM								
 CLOSED HEM	 ATTACH TO RIDGE CAP W/ #44 STAINLESS STEEL POP RIVETS VSS END CAP .040 PREPAINTED ALUMINUM ATTACH TO ROOF DECK W/ #12 X 1-1/2" PANCAKE HEAD SCREWS								
 Morris Architectural Metals 1983 Center Point Road, Ste A Temple, GA 30179 Phone: 678-416-9031 www.morrisam.com	<table border="1"> <tr> <td data-bbox="539 1339 1172 1367">Project: TAS 100(A) TEST</td> <td data-bbox="1187 1339 1523 1367">Print Approved by:</td> </tr> <tr> <td data-bbox="539 1373 1172 1400">Architect:</td> <td data-bbox="1187 1373 1523 1400"></td> </tr> <tr> <td data-bbox="539 1407 1172 1434">Contractor:</td> <td data-bbox="1187 1407 1523 1434">Date</td> </tr> <tr> <td data-bbox="539 1440 1172 1467">Purchaser:</td> <td data-bbox="1187 1440 1523 1467"></td> </tr> </table>	Project: TAS 100(A) TEST	Print Approved by:	Architect:		Contractor:	Date	Purchaser:	
Project: TAS 100(A) TEST	Print Approved by:								
Architect:									
Contractor:	Date								
Purchaser:									



TOP OF ASSEMBLY PRIOR TO TEST



BOTTOM OF ASSEMBLY PRIOR TO TEST



TOP OF ASSEMBLY AFTER TEST



BOTTOM OF ASSEMBLY AFTER TEST

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	7/8/25	NA	Original report issue

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