

MARCO INDUSTRIES, INC. FLORIDA BUILDING CODE TEST REPORT

SCOPE OF WORK

TAS 100(A)-23 TESTING ON HIGH PROFILE TILE OFF-RIDGE VENT

REPORT NUMBER

R6820.01-450-18 R0

TEST DATE(S)

08/23/24

ISSUE DATE

10/23/24

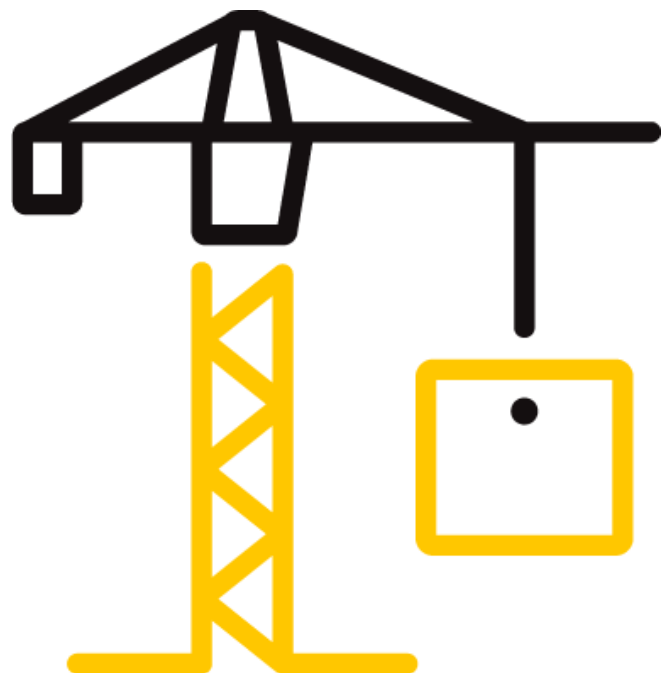
PAGES

11

DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-7808 (06/05/24)

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TEST REPORT FOR MARCO INDUSTRIES, INC.

Report No.: R6820.01-450-18 R0

Date: 10/23/24

REPORT ISSUED TO

MARCO INDUSTRIES, INC.

4150 S. 100th E. AVE.

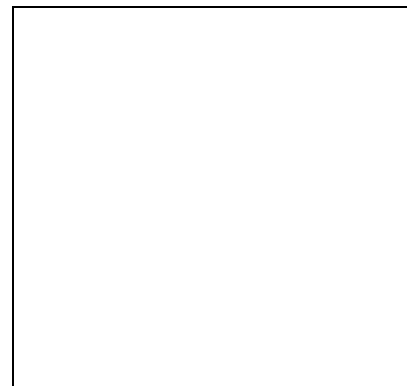
Suite 301

Tulsa, OK 74146

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Marco Industries, Inc. to perform TAS 100(A) testing in accordance with Florida Building Code High Velocity Hurricane Zone requirements on High Profile Tile Off-Ridge Vent Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at the Intertek B&C test facility in West Palm Beach, FL.



For INTERTEK B&C:

COMPLETED BY:	Melissa Nuttall, FMPC
TITLE:	Senior Project Manager
SIGNATURE:	
DATE:	10/23/24

REVIEWED BY:	Tanya Dolby, P.E.
TITLE:	Engineering Manager - Engineering Services
SIGNATURE:	
DATE:	10/23/24

MN:te

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SECTION 2**TEST METHOD(S)**

The specimen was evaluated in accordance with the following:

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

SECTION 3**MATERIAL SOURCE**

Test specimen was provided by the client. Representative samples of the test specimen will be retained by Intertek B&C for a minimum of ten years from the test completion date. Installation of the tested product was performed by representatives of the client.

SECTION 4**EQUIPMENT/CALIBRATION**

Wind Generator: "WOLF" engine driven propeller

SECTION 5**LIST OF OFFICIAL OBSERVERS**

NAME	COMPANY
Al Robida	Marco Industries, Inc.
Seth Allen	Intertek B&C
Tanya Dolby, P.E.	Intertek B&C

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SECTION 6**TEST SPECIMEN DESCRIPTION****Manufacturer:** Marco Industries, Inc.**Product Type:** Ridge Vent**Series/Model:** High Profile Off-Ridge Vent

Roof Deck Description: An 8' 0" wide by 6' 0" long roof deck on a 2:12 slope was utilized. The roof deck consisted of #2 Spruce-Pine-Fir nominal 2x6 intermediate supports sheathed with APA 32/16 span rated 15/32" plywood sheathing. The intermediate supports were spaced 24" on center. The plywood was secured to the rafters with 8d common nails spaced 6" on center around the perimeter and 12" on center at the intermediate supports.

Roof Covering and Vent Description: 2-3/4" high 26ga steel drip edge was used along the perimeter of the specimen and was secured with 1.25" galvanized roofing nails spaced 4" on center. Self-adhered Apoc Weather Armor FT roof underlayment was applied in single rows with 4" overlaps between rows. The vent was installed 20" below the ridge and 24" from the sides. The vents were constructed from minimum 26-gauge galvalume steel and secured with 1.25" galvanized roofing nails through the flange nail holes. The underlayment was used underneath and on top of the vent flanges. The Eagle Capistrano S tiles were installed over 1x2 pressure treated battens and were secured with one #12 x 3-1/2" screws per tile. The battens were secured with #12 x 1-3/4" screws spaced 16" on center. Roof Tile Mortar FL-15 by Quikrete was used to seal the tiles at the leeward edge of the deck. 26Ga tile closure was used under the tiles on the windward edge. It contained a weep hole under each tile and was secured to the deck with #12 x 1" pancake head screws spaced 6" on center.

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SECTION 7

TEST RESULTS

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

Test Date(s): 08/23/24

The temperature during testing was 32.2°C (90°F). The results are tabulated as follows:

Test Procedure: The wind speed intervals were conducted as follows:

Interval No.	Wind Speed (mph)	Time (min)	Water Spray
1	35	15	On
2	0	5	Off
3	70	15	On
4	0	5	Off
5	90	15	On
6	0	5	Off
7	110	5	On
8	0	5	Off

Test Results: The TAS 100(A) test results are as follows:

Wind Speed	Results
35 mph	0.0 oz.
70 mph	0.0 oz.
90 mph	0.0 oz.
110 mph	0.0 oz.

Result(s): Pass

Note 1: Tested at a 2:12 roof pitch.

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SECTION 8

CONCLUSION

The specimen(s) tested met the performance requirements set forth in the protocols.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained for the entire test record retention period.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

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SECTION 9
PHOTOGRAPHS



Photo No. 1
Top Side Before Testing



Photo No. 2
Top Side After Testing

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Photo No. 3
Post Test Underside

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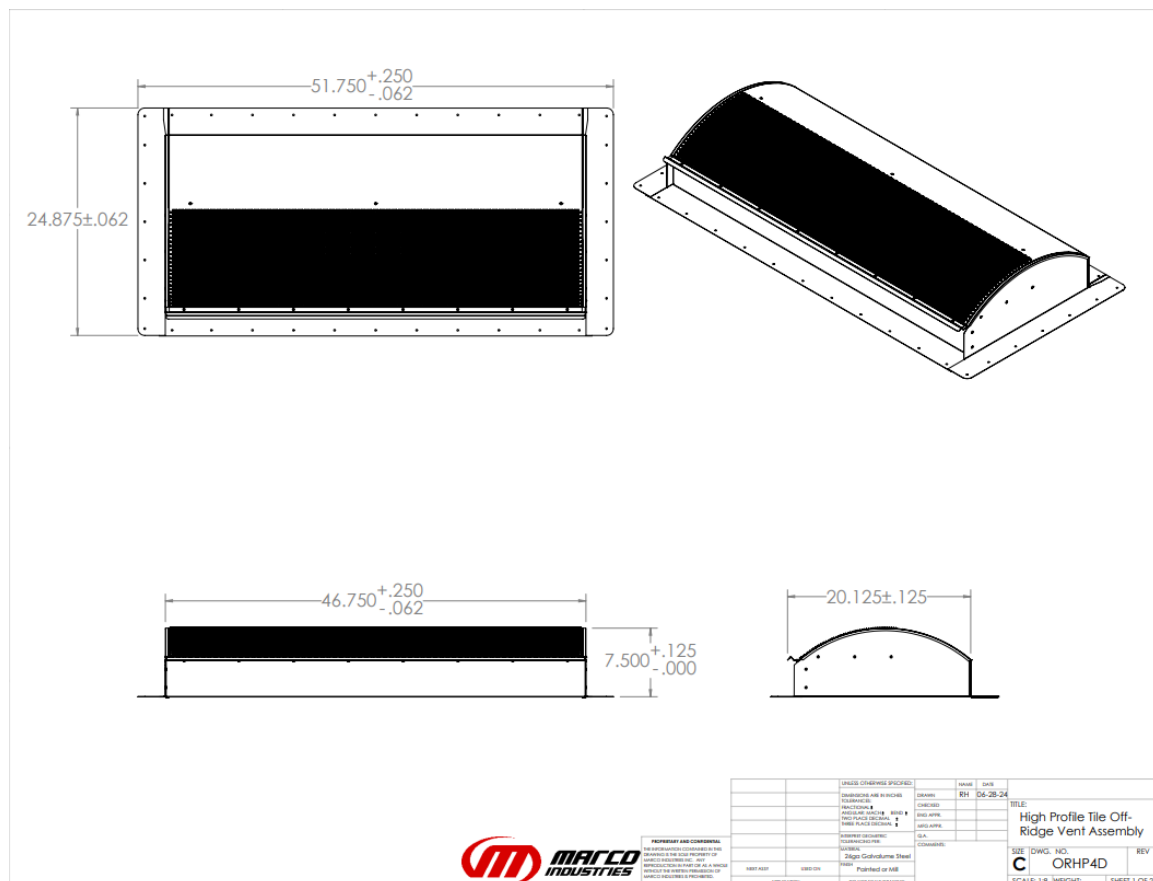
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SECTION 10

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.



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PROJECT LOCATION		SCALE	
PROJECT DESCRIPTION		REV	
PROJECT COMMENTS		SCALE	
PROJECT DRAWING		WEIGHT	
PROJECT SHEET		SHEET 2 OF 2	

High Profile Tile Off-Ridge Vent, Exploded

SIZE: C DWG. NO.: ORHP4D
SCALE: 1/8" = 1'-0" WEIGHT: SHEET 2 OF 2



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SECTION 11

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	10/23/24	N/A	Original Report Issue