



PERFORMANCE TEST REPORT

Rendered to:

VENTCO, INC.

PRODUCT TYPE: Ridge Vent and Ridge Cap Anchor Clip

Report No.: 56017.07-122-18
Test Dates: 09/26/05
Through: 10/07/05
Report Date: 10/18/05
Expiration Date: 10/07/09

130 Derry Court
York, PA 17402-9405
phone: 717-764-7700
fax: 717-764-4129
www.archtest.com



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VENTCO, INC.
115 Lismore Avenue
Glenside, Pennsylvania 19038

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Project Summary: Architectural Testing, Inc. (ATI) was contracted by Ventco, Inc. to perform testing on Ventco's metal roof ridge vent and ridge cap anchor clip. The anchor clips were tested for wind resistance in accordance with Florida Building Code Test Protocols for High Velocity Hurricane Zone, Protocol TAS 100(A)-95 (Wind Loads Only) and for static uplift resistance. Individual data and results are reported below.

Test Specification: All tests were performed in accordance with the referenced specification, unless stated otherwise.

TAS 100(A)-95, 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. (Wind Loads Only)

Test Specimen Description:

Ridge Vent and Ridge Cap Anchor Clip: The ridge vent and ridge cap anchor clip was formed from 0.032" thick galvanized steel. The anchor clip had overall dimensions of 3-5/8" long by 1" wide by 3/4" high. The clip was bent such that a 3" wide by 3/4" tall ridge vent material could be utilized (see Photo No. 1).

TAS 100(A) Roof Deck: An 8' 0" wide roof deck was utilized on a 3:12 slope. The roof deck consisted of Spruce-Pine-Fir #2 nominal 2x6 lumber sheathed with 3/8" thick plywood. The rafters were spaced 24" on center. The plywood was nailed to the rafters using 8d common nails spaced 6" on center around the plywood perimeter and 12" on center at intermediate supports. A 3-1/4" wide by 7' 0" long slot was cut into the plywood at the ridge. A ridge pole made from nominal 2x4 Spruce-Pine-Fir #2 lumber was utilized. Metal standing seam roof panels (26 gauge) with ribs on 9" centers were installed on the decking.

TAS 100(A) Wind Supply: Architectural Testing, Inc.'s engine-powered vane axial fan (ATI-Y003345) was used for testing (see Photo No. 5).

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Test Results: The following results were recorded:

Protocol TAS 100(A)-95 Wind Driven Rain (Wind Loads Only)

Test Specimen Installation: Each anchor clip was installed with two (2) #14 x 1" sheet metal screws through the clip into the roof deck. Anchor clips were located to one side of each rib in the metal roof; approximately 9" on center. Ventco's ridge vent material was installed under the clips prior to the installation of the second screw. The ridge cap was placed over the clips and secured to each clip with one (1) #14 x 1" sheet metal screw through the cap and into the clip. A total of 22 anchor clips were used to install the ridge cap (11 on each side of the ridge).

The ridge vent and ridge cap anchor clips were installed in accordance with the manufacturer's installation instructions.

The wind speed intervals were conducted as follows:

<u>Interval No.</u>	<u>Wind Speed (mph)</u>	<u>Time (Min.)</u>	<u>Water Spray</u>
1	35	15	Off
2	0	5	Off
3	70	15	Off
4	0	5	Off
5	90	15	Off
6	0	5	Off
7	110	5	Off
8	0	5	Off

<u>Wind Speed</u>	<u>Results</u>
35 mph	No Damage
70 mph	No Damage
90 mph	No Damage
110 mph	No Damage

Results: PASSED

Test Results: (Continued)

Static Uplift Test

Test Specimen Installation: Each anchor clip was installed with two (2) #14 x 1" sheet metal screws through the clip into 3/8" thick plywood to simulate the roof deck. A single #14 x 1" sheet metal screw was installed into the anchor clip to simulate the connection of the ridge cap to the anchor clip. The screw was not fully seated to the anchor clip and was used to apply the load that is used to determine the static uplift capacity of one anchor clip.

Test Procedure: The specimens were tested using a SATEC 50UD Universal Machine with a cross head speed of 0.2 in/min.

Sample	Uplift Force (lbs)	Comment
1	368.3	Ridge cap fastener pulled out of clip.
2	344.9	Ridge cap fastener pulled out of clip.
3	282.7	Ridge cap fastener pulled out of clip.
4	341.8	Ridge cap fastener pulled out of clip.
5	377.2	Ridge cap fastener pulled out of clip.
6	281.4	Ridge cap fastener pulled out of clip.
7	367.8	Ridge cap fastener pulled out of clip.
8	411.9	Ridge cap fastener pulled out of clip.
9	309.4	Ridge cap fastener pulled out of clip.
10	311.3	Ridge cap fastener pulled out of clip.
Average	339.7	

List of Official Observers:

Joseph A. Reed, P.E.
Anaki Leonard
Carl Stone
Michael Stremmel

Architectural Testing, Inc.
Architectural Testing, Inc.
Architectural Testing, Inc.
Architectural Testing, Inc.

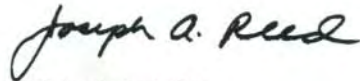
Representative samples of the test specimen and a copy of this report will be retained by ATI for a period of four years from the original test date. This report is the exclusive property of the client so named herein and is applicable to the sample tested. Results obtained are tested values and do not constitute an opinion or endorsement by this laboratory. This report may not be reproduced, except in full, without the approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC.



Digitally Signed by: Michael D. Stremmel

Michael D. Stremmel



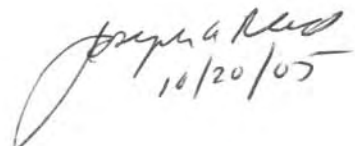
Digitally Signed by: Joseph A. Reed

Joseph A. Reed, P.E.
Director - Engineering and Product Testing

MDS:mds/cmd

Attachments (pages):

Appendix-A: Photos (3)



Joseph A. Reed
10/20/05

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	10/18/05	N/A	Original report issue

APPENDIX A

Photographs

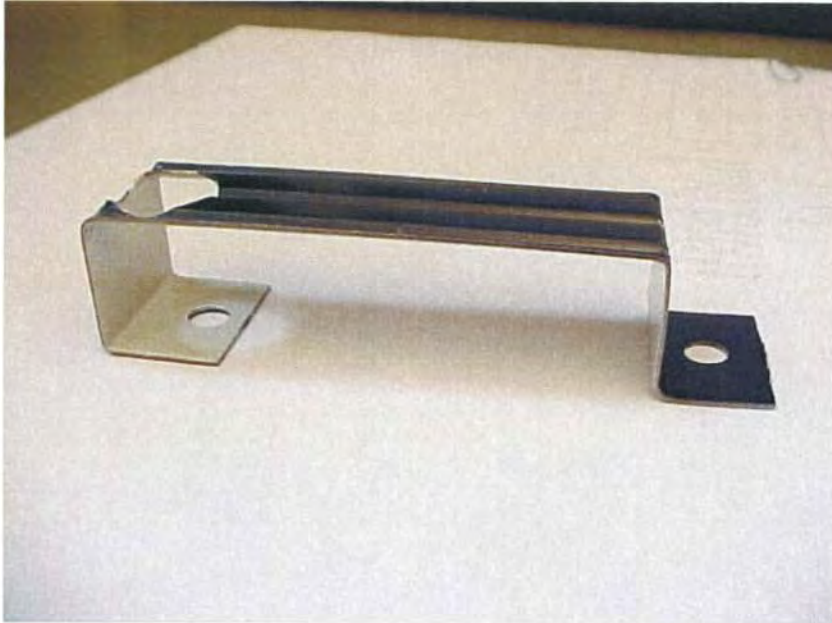


Photo No. 1
Ventco Ridge Vent and Ridge Cap Anchor Clip



Photo No. 2
Clips Installed at the Ridge



Photo No. 3
Vent Material Installed under Clip



Photo No. 4
Ridge Cap Installed onto Clips



Photo No. 5
Wind Generator Set-up