

TOP RACK TECHNOLOGY, INC MIAMI-DADE TEST REPORT

SCOPE OF WORK

TAS 100(A)-23 TESTING ON TRT-01 RAIL-LESS BASE SYSTEM

REPORT NUMBER

S8184.01-450-18 (R0)

TEST DATE(S)

07/29/25

ISSUE DATE

08/06/25

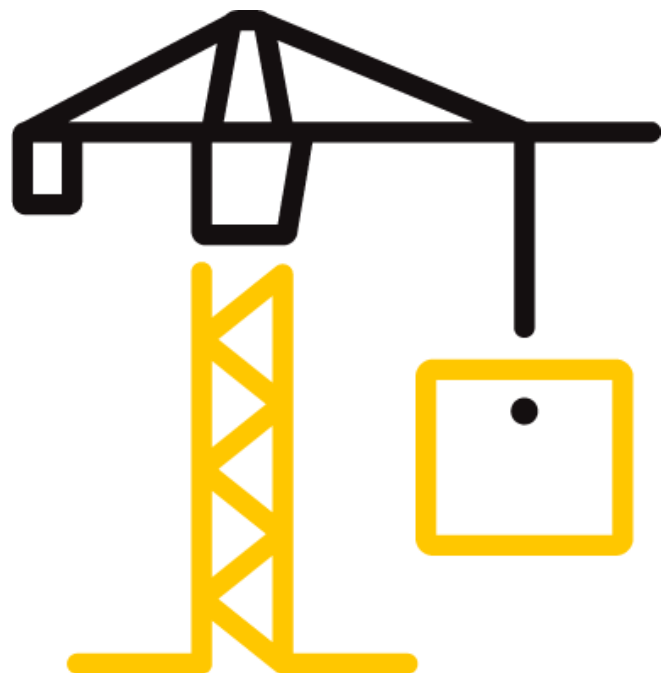
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TEST REPORT FOR TOP RACK TECHNOLOGY, INC

Report No.: S8184.01-450-18 (R0)

Date: 08/06/25

REPORT ISSUED TO

TOP RACK TECHNOLOGY, INC.

355 New Albany Road
Suite B
Moorestown, NJ 08057

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Top Rack Technology, INC. to perform TAS 100(A) testing in accordance with Miami-Dade County requirements on TRT-01 Rail-less Base System. 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.

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 ten 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.

For INTERTEK B&C:

COMPLETED BY:	Seth Allen
TITLE:	Project Lead
SIGNATURE:	
DATE:	08/06/25

AAA:bbb

REVIEWED BY:	Tanya Dolby, P.E.
TITLE:	Engineering Manager - Engineering Services
SIGNATURE:	
DATE:	08/06/25

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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
Veron Wickham	Marco Industries, Inc.
Seth Allen	Intertek B&C
Cesar Prieto	Intertek B&C

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SECTION 6**TEST SPECIMEN DESCRIPTION****Manufacturer:** Top Rack Technology**Product Type:** Roof Panel Mounting Brackets**Series/Model:** TRT-01 Rail-Less Base System

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: Four brackets were installed to the lower part of the deck in between trusses 22" from either side and 16" on center thereafter, 19" from windward side. The brackets were secured with four #14 x 3" HWH with a weather seal washer. Silicon was used underneath the bracket when installed.

Three brackets were installed to the top part of the deck into the trussed 24" from either side and 24" on center, 19" from the peak. The brackets were secured with one #14 x 3" HWH with a weather seal washer. Silicon was used underneath the bracket when installed.

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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): 07/29/29

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.

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PHOTOGRAPHS



Photo No. 1
Top Side After Testing #1

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Photo No. 2
Top Side After Testing #2

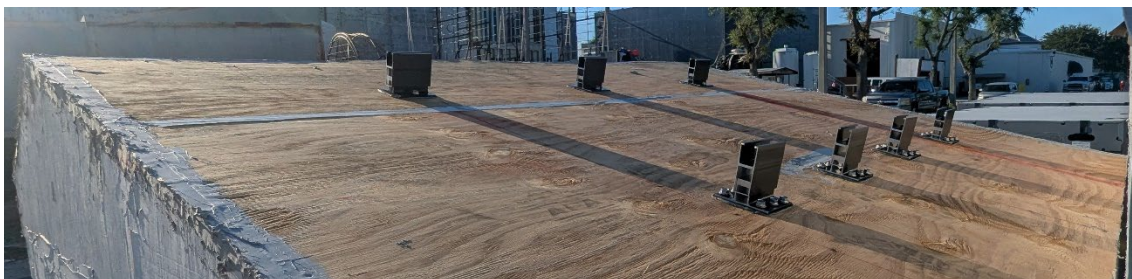


Photo No. 3
Close Up of Brackets

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Photo No. 4
Underside After Testing



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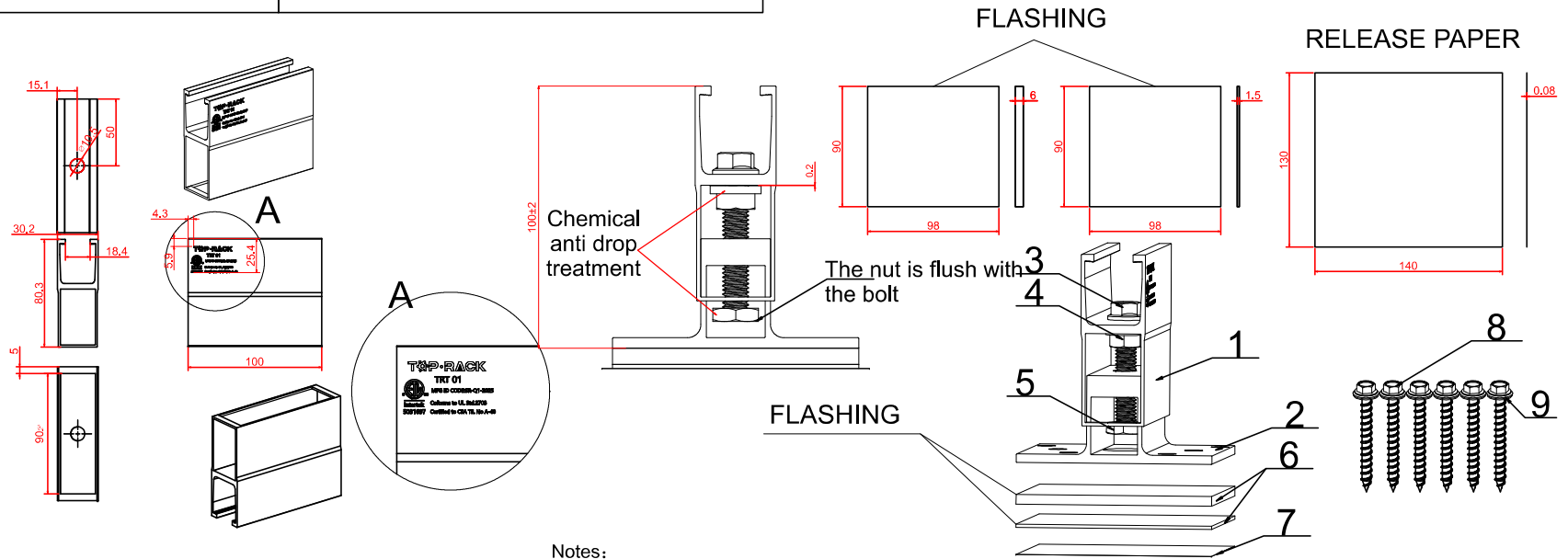
SECTION 10

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.

TRT Rail-less Base

Drawing No.:3010354



Notes:

- 1.Material: AL6005-T5.
- 2.Finish: Black anodizing, Thickness of anodized film \geq 15 μ m.
- 3.Bolt & Nut: 304 stainless steel.
- 4.Part is to be free of burrs and sharp edges.
- 5.Critical dimensions denoted by box.

Dimension	Tolerance
> 0.5-3mm	± 0.3 mm
> 3-6mm	± 0.4 mm
> 6-30mm	± 0.55 mm
> 30-120mm	± 0.75 mm
> 120-400mm	± 1.00 mm
> 400-1000mm	± 1.40 mm
> 1000-2000mm	± 1.80 mm
> 2000-4000mm	± 2.80 mm

ITEM NO.	DESCRIPTION	PART NO.	QTY	REV
1	BLACK RAIL-LESS BASE UPPER BLOCK	2010371	1	01
2	BLACK RAIL-LESS BASE NEXT BLOCK	2010372	1	01
3	M8 HEAD 3/8-16*55 FLANGE BOLT(NYLOK)	1011177	1	01
4	M10 HEXAGONAL TOOTHLESS NUT	1011175	1	01
5	M10 HEXAGONAL THIN NUT (NYLOK)	1011151	1	01
6	FLASHING	1040161&1040093	1	02
7	RELEASE PAPER	1040094	1	01
8	ST6.3X75 FLANGE SELF TAPPING SCREW	1010775	6	01
9	M6 EPDM&SS304 WASHER 2	1011174	6	01
10				

	SIG	DATE
DRAWN	BEI	2025/07/10
CHECKED	BILL	2025/07/10
Q.A	GUAN	2025/07/10



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SECTION 11

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	08/06/25	N/A	Original Report Issue