



CONSTRUCTION MATERIALS TECHNOLOGIES

Email

To: Corinne Schevin **Date:** June 23, 2014
From: Jason Simmons
Subject: Test Status for Bora Bora

Product samples were received from Tikimundo on April 21, 2014 for testing in accordance with **ASTM D 3161-13: Standard Test Method for Steep Slope Roofing Products (Fan Induced Method)**. Results for the testing are contained below.

Specimens: client assembled
Date of Installation: off site
Temperature (°F): N/A

Component	Description
Roofing Covering	Bora Bora Aloha leaf with Rail and clips Screwed to framing with #10-8x2"o double thread Hex head with bonded washer and rubber gasket screw. Leaves set 5" apart vertically
Perimeter attachment	None Open frame
Underlayment	None Open frame
Deck	2x4 20" oc.

Conditioning: Start Temperature(°F): N/A
Start Date/Time: N/A
End Temperature(°F): N/A
End Date/Time: N/A

Testing:

Equipment	Description	PRI-CMT ID No.
Date: 4/8/14		
Equipment:	Manometer	PRI-001
	Stopwatch	CMTROA
	Data logger	CMT-119
	sling thermometer	CMT-022

PALM-001-02-02 PRI Accreditations: IAS TL-189; State of Florida TST5878; Metro-Dade 11-0429.05; LADBS TA24819; CRRC
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CONSTRUCTION MATERIALS TECHNOLOGIES

Deck 1

Tested 4/21/14

Run Time (min)	P _v (inWC)		
	Location 1	Location 2	Location 3
Start at power on (130mph)	8.1	8.1	8.2
1	8.1	8.1	8.2
21	8.1	8.1	8.2
45	8.1	8.1	8.2
140 mph 0.5	9.4	9.5	9.6
150 mph 5.5	10	10	10.1
160 mph 10.5	12	12	12.1

Test Observations	
Run Time (min)	Comments
Power on (130 mph)	leaves lifted at start rows 4, 5, 6, 7
1	leaves lifted at start rows 4, 5, 6, 7
21	leaves lifted at start rows 4, 5, 6, 7 (row 4 corner of leaf detached from bracing)
45	leaves lifted at start rows 4, 5, 6, 7 (row 4 corner of leaf detached from bracing)
119	leaves lifted at start rows 4, 5, 6, 7 (row 4 corner of leaf detached from bracing) client pushed leaves down and fixed the corner of the leaf and reinstalled it back in the bracing
7min down time	
140 mph 0.5	leaves lifted at start rows 4, 5, 6, 7 (row 4 corner of leaf detached from bracing)
150 mph 5.5	leaves lifted at start rows 4, 5, 6, 7 (row 4 corner of leaf detached from bracing)
160 mph 10.5	leaves lifted at start rows 4, 5, 6, 7 (row 4 corner of leaf detached from bracing)
End	

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CONSTRUCTION MATERIALS TECHNOLOGIES

Deck 2

Tested 4/21/14

Run Time (min)	P _v (inWC)		
	Location 1	Location 2	Location 3
Start (130mph)	8.2	8.2	8.3
0.5	8.2	8.2	8.3
43	8.2	8.2	8.3
140 mph0.5	9.3	9.4	9.5
150mph 5.5	10.7	10.8	10.9
160mph	12.4	12.4	12.5

Test Observations	
Run Time (min)	Comments
Start	rows 4, 5, 6, 7, 8 lifted
0.5	rows 4, 5, 6, 7, 8 lifted
43	rows 4, 5, 6, 7, 8 lifted
119	rows 4, 5, 6, 7, 8 lifted
5 min down time	4th course center (20" in from left the right) clip permanent deformation
140mph 0.5min in	rows 4, 5, 6, 7, 8 lifted
150mph 5.5	rows 4, 5, 6, 7, 8 lifted
160 mph 10.5	rows 4, 5, 6, 7, 8 lifted
End	

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Representative Photograph Deck #1: One leaf has disengaged from rail at 29 minutes into testing at 130mph



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TECHNOLOGIES



Representative Photograph Deck #2: One clip exhibits permanent deformation.



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