Atlantic & Caribbean Roof Consulting, LLC TESTING & ENGINEERING SERVICES DADE TEST LABORATORY #06-0526.05 FL. CERT. OF AUTH. #9036



REPORT OF PRODUCT EVALUATION

Report Number: ACRC 08-004

Conducted On: TTR Roofing International, Inc.

Test Standards: MIAMI-DADE COUNTY PROTOCOL TAS 114-95 APPENDIX "D"

Prepared For: TTR Roofing International, Inc. 5317 Fruitville Rd. #49 Sarasota, Fl 34232

Report Prepared By: Atlantic & Caribbean Roof Consulting 10738 NW 53rd Street Ft. Lauderdale, FL 33351

> Date: January 29th, 2008

10738 NW 53rd Street • Sunrise, Florida 33351 • (954) 742-9515 Phone • (954) 742-9513 Fax

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January 29th, 2008

Mr. Americo Segura Miami – Dade Building Code Compliance Office Metro Dade Flagler Building 140 W Flagler Street Suite 1603 Miami, Florida 33130-1563

RE: Laboratory Compliance Letter (02-1104.14) Miami Dade # ACRC 08-004

Dear Mr. Segura;

This letter is to certify that the Miami Dade County Protocol TAS 114-95, Appendix "D" test, as reported within this report has been performed in full accordance with the requirements of the Miami Dade County Building Code Compliance Office, with no deviations.

If you should have any questions, please do not hesitate to contact our office.

Respectfully Submitted, Atlantic & Caribbean Roof Consulting, LLC

Donald J. Flood, **P.E.** Engineering Services

> 10738 NW 53rd Street • Sunrise, Florida 33351 • (954) 742-9515 Phone • (954) 742-9513 Fax E-mail: <u>esacrc@bellsouth.net</u>

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INTRODUCTION

At the request of TTR Roofing International, Inc. ACRC has conducted testing on an EPDM single ply roof system fully adhered to spray applied polyurethane foam.

As requested by the client, testing was conducted in accordance with Miami-Dade County Protocol TAS 114-95, Appendix "D" using a 5000 lb capacity force Chatillon tester.

Roofing materials for the test were provided and installed by TTR Roofing International, Inc. The Structural Concrete test pad was provided by ACRC. The samples were installed at ACRC's test facility located at 7592 NW 74th Avenue; Medley, Florida 33166.

TAS 114-95, Appendix "D" 2' x 2' Simulated Uplift Pressure Resistance Test

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PRODUCT DESCRIPTION

Deck:

Structural concrete deck with a minimum of 3000 psi compressive strength

Lightweight Insulating Concrete:

N/A

Roof System:

A minimum of 1" thickness of TTR007F Polyfoam was spray applied directly to a concrete deck, followed by installing a Firestone EPDM 45 mil membrane set in spray applied TTR007G adhesive.

TAS 114-95, Appendix "D" 2' x 2' Simulated Uplift Pressure Resistance Test

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Test Results

	S	ample #1	Sample #2	Sample #3	
Fail Pressure	-630 psf		N/A	-810 psf	
Fail Time	e 40 seconds TTR007G adhesive delaminated		N/A No Failure	13 seconds TTR007G adhesive delaminated	
Mode of Failur					
Pass Pressure		-615 psf	-1005 psf	-795 psf	
Average Pass P	ressure:	-805 psf			
	the Martin Statistics			and the second	
Design Pressur	e with 2:1	Safety Factor	-402.5 psf		
<u>Design Pressur</u> Observations:	e with 2:1 The 2' x minimum 2:1. Failu	Safety Factor: 2' Simulated V Miami–Dade C re occurred whe	-402.5 psf Wind Uplift Sample County requirement n the TTR007G adh	e <u>did</u> meet the -45 Ps s with a safety factor esive delaminated.	
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TAS-114-95, Appendix "D" 2' x 2' Simulated Uplift Pressure Resistance Test

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CONCLUSION

Test results are reported in accordance with Miami-Dade County Protocol TAS 114-95, Appendix "D".

ACRC - Atlantic & Caribbean Roof Consulting, LLC

Reviewed By:

Shirad Ali Consultant

Reviewed By:

Eric H. Smause, RRO President & Senior Roof Consultant

Reviewed By:

Donald J. Flood, P.E Engineering Services