



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
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[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

## NOTICE OF ACCEPTANCE (NOA)

NCFI Polyurethanes  
P.O. Box 1528  
Mount Airy, NC 27030-1528

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: NCFI EnduraTech Sprayed Polyurethane Foam Systems over Recover Deck

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA #16-1109.15 and consists of pages 1 through 7.  
The submitted documentation was reviewed by Alex Tigera



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Expiration Date: 03/07/27  
Approval Date: 04/14/22  
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## ROOFING SYSTEM APPROVAL

**Category:** Roofing  
**Sub-Category:** Spray Applied Polyurethane Foam  
**Materials:** Polyurethane Foam  
**Deck Type:** Recover  
**Maximum Design Pressure** -457.5 psf

### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
NCFI EnduraTech 10-011	N/A	TAS 110	Polyurethane spray applied foam intended for roofing applications.

### TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>	<u>Manufacturer</u>
Elastomeric Roof Coating	N/A	ASTM D 6083	Elastomeric coating for application over polyurethane spray applied foam.	Generic. (with current PCA)

### EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Celotex Corporation Testing Service	258132	Physical Properties ASTM C 273 ASTM D 1621 ASTM D 1623 ASTM D 2856 ASTM E 96	05/97
Underwriters Laboratories Inc.	01NK20266	UL 1897	06/20/01
PRI Asphalt Technologies	NCF-003-02-01	ASTM D 2842 ASTM D 2126	02/13/01
	TDC-011-02-01	TAS 114-H	02/28/05
PRI Construction Materials Technologies	NCF-028-02-01	ASTM C 518	11/16/09
	NCF-022-02-01	TAS 110	10/21/08
	NCF-044-02-01	Physical Properties	10/13/15
IRT & Consulting of S. Florida, Inc.	01-015, 01-016, 01-018, 01-019, 01-020, 01-021	TAS 114-J TAS 114-J TAS 114-D	06/12/01 06/13/01 06/13/01
Factory Mutual Research Corp.	3016938 3035470	4470/4880	01/13/05 05/07/09
Atlantic & Caribbean Roof Consulting, LLC	ACRC 14-020	TAS 114-D	06/12/14

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## DECK STRESS ANALYSIS CALCULATIONS/REPORTS

**Engineer/Agency**

Randall Fowler, P.E.

**Identifier**

Letter

**Assemblies:**

F(1)

**Date**

10/17/16

### AMBIENT HUMIDITY APPLICATION LIMITS SPRAYED POLYURETHANE FOAM

**Maximum Wet Bulb and Relative Humidity for a Given Dry Bulb Reading**  
**Table 1**

Dry Bulb Temp. (°F)	Wet Bulb Temp. (°F)	R.H. (%)		Dry Bulb Temp. (°F)	Wet Bulb Temp. (°F)	R.H. (%)
45	40½	67		73	68	79
46	41½	68		74	70	78
47	42½	68		75	70	78
48	43½	69		76	70½	77
49	43½	69		77	71½	77
50	45½	70		78	72	76
51	46½	70		79	73	76
52	47½	71		80	73½	75
53	48½	71		81	74½	74
54	49½	72		82	75	73
55	50½	72		83	75½	72
56	51½	73		84	76	71
57	52½	73		85	77	70
58	53½	74		86	77½	69
59	54½	74		87	78	68
60	55½	75		88	78½	66
61	56½	75		89	79	65
62	57½	76		90	79½	64
63	58½	77		91	80	63
64	59½	77		92	80½	62
65	60½	78		93	81	60
66	61½	78		94	81½	59
67	62½	79		95	82	58
68	63½	79		96	82	56
69	64½	80		97	82½	54
70	65½	80		98	82½	53
71	66½	80		99	83	52
72	67½	79		100	83	50

**NOTE: Spray polyurethane foam shall not be sprayed when environmental conditions are beyond the temperature and relative humidity limits listed in this Table,**

**MIAMI-DADE COUNTY**  
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## APPROVED ASSEMBLIES:

<b>Deck Type 7:</b>	Recover
<b>Existing Substrates:</b>	Wood, Concrete, Granule Surfaced or Smooth Surface BUR, or 22 MSG, 1-1/2" deep, Type B vented galvalume steel deck attached to steel supports spaced 6' o.c. Deck fastened with 5/8" puddle welds one in each flute of the deck (but no less than 6" o.c.) and 12" o.c. the side laps with #12 self drilling screws.  <b>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittal Table.</b>
<b>System Type F(1):</b>	Sprayed polyurethane foam covered with an approved elastomeric coating.
<b>All General and System Limitations apply.</b>	
<b>Deck Requirements:</b>	For recover applications, existing roof deck shall be in compliance with applicable Building Code and Roofing Application Standard RAS 109.
<b>Surface Preparation:</b>	Substrate shall be free of loose dirt, grease, oil or other contaminants prior to priming or foam application. Remove loose dirt or debris by use of compressed air, vacuum or brooming. No washing shall be permitted. Oil, grease, release agents or other contaminants shall be removed with proper cleaning solutions.  Primers shall be applied in accordance with the manufacturer's instructions. All primers must be thoroughly dry and cured prior to foam application.
<b>Polyurethane Foam Application:</b>	The polyurethane foam shall be applied directly and uniformly over the entire surface at the specified thickness in compliance with the requirements set forth in Roofing Application Standard RAS 109. The sprayed polyurethane foam shall be feathered at the edges to produce a smooth transition.
<b>Protective Coating Application:</b>	Shall apply a Miami-Dade County approved elastomeric roof coating with a current NOA in accordance with the guidelines listed in the NOA.  Polyurethane foam surface shall be free of moisture, dust, debris, oils, tars, grease or other materials that will impair adhesion of the protective coverings. Any damage or defects to the polyurethane foam surface shall be repaired prior to the coating application. The base coat shall be applied the same day as the foam when possible. If more than 72 hours elapse prior to the application of the base coat, the polyurethane foam shall be inspected for UV degradation.
<b>Maximum Design Pressure:</b>	<b>-457.5 psf (for concrete deck applications) (See General Limitation #6)</b> <b>-82.5 psf. (for steel deck applications) (See General Limitation #6)</b> <b>-45 psf (for all other applications) (See General Limitation #6)</b>



**Deck Type 7:** Recover  
**Existing Substrates:** Concrete; with an existing Gravel Surface BUR roof system  
**System Type:** Sprayed polyurethane foam covered with an approved elastomeric coating.

**All General and System Limitations apply.**

**Deck Requirements:** For recover applications, existing roof deck shall be in compliance with applicable Building Code and Roofing Application Standard RAS 109.

**Surface Preparation:** Substrate shall be free of loose dirt, grease, oil or other contaminants prior to priming or foam application. Remove loose dirt or debris by use of compressed air, vacuum or brooming. No washing shall be permitted. Oil, grease, release agents or other contaminants shall be removed with proper cleaning solutions.

**Polyurethane Foam Application:** The polyurethane foam shall be applied directly and uniformly over the entire surface at the specified thickness in compliance with the requirements set forth in Roofing Application Standard RAS 109. The sprayed polyurethane foam shall be feathered at the edges to produce a smooth transition.

**Protective Coating Application:** Shall apply a Miami-Dade County approved elastomeric roof coating with a current NOA in accordance with the guidelines listed in the NOA.

Polyurethane foam surface shall be free of moisture, dust, debris, oils, tars, grease or other materials that will impair adhesion of the protective coverings. Any damage or defects to the polyurethane foam surface shall be repaired prior to the coating application. The base coat shall be applied the same day as the foam when possible. If more than 72 hours elapse prior to the application of the base coat, the polyurethane foam shall be inspected for UV degradation.

**Maximum Design Pressure:** -442.5 psf (*See General Limitation #6*)



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## **RECOVER SYSTEM LIMITATIONS:**

1. The moisture content of an existing roof system shall be in compliance with applicable Building Code.
2. Lightning rods shall be masked prior to foaming. Lightning rod cables shall not be embedded in the polyurethane foam and should be removed prior to foaming. Electrical and mechanical conduits should be relocated or raised above the finished roof surface.
3. Prior to application, all existing roof surfaces used as a bonding substrate shall be tested for uplift resistance in compliance with Testing Application Standard TAS 124 to the calculated design pressure of the roof deck.

## **GENERAL LIMITATIONS:**

- 1 Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 2 Spray polyurethane foam shall not be sprayed when ambient temperature is within 5 degrees of the dew point. Ambient humidity applications limits shall be as listed in Table 1 herein. Contractor shall monitor and record environmental conditions in the Job Log in compliance with RAS 109. Job Log shall be maintained at the job site and accessible to The Building Official.
- 3 Flashings and waterproof coverings for expansion joints shall be of compatible materials and in accordance with North Carolina Foam Industries published literature.
- 4 Miscellaneous materials such as adhesives, elastomeric caulking compounds, metal, vents and drains shall be a composite part of the roof system and shall be compatible with the foam and coating.
- 5 All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and the wind load requirements of applicable building code.
- 6 Existing low slope roof systems shall be tested for uplift resistance in compliance with Testing Application Standard TAS 124 to the calculated design pressures of the field, perimeter and corner areas, determined in compliance with applicable Building Code prior to recover. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).
7. All work shall be performed by a contractor licensed to perform roofing in Miami-Dade County and a NCFI trained and approved applicator. The contractor shall be familiar with the details and specifications published by NCFI and the elastomeric coating manufacturer.

**END OF THIS ACCEPTANCE**



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## **GREEN SUSTAINABLE ATTRIBUTES (GSA)**

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**SCOPE:** This document is solely for the purpose of verification of Sustainable Attributes of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control.

### **G.2 - THERMAL RESISTANCE**

<b><u>R-Value</u></b>	<b><u>Insulation / Thickness</u></b>	<b><u>Assemblies:</u></b>
6.3	1 inch	All Assemblies utilizing NCFI 10-011 SPF
13.4	2 inches	All Assemblies utilizing NCFI 10-011 SPF
27.4	4 inches	All Assemblies utilizing NCFI 10-011 SPF

