MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

LAPOLLA Industries, Inc.
15402 Vantage Parkway East
Suite 322
Houston, TX 77032

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 and the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Spray Polyurethane Foam – Foam Lok LPA 2500, 2800, 3000 over Steel Decks

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 revises NOA#08-0402.07 and consists of pages 1 through 6.
The submitted documentation was reviewed by Alex Tigera.

MIAMI-DADE COUNTY APPROVED

ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Spray Applied Polyurethane Roof System
Materials: Polyurethane
Deck Type Steel
Maximum Design Pressure **-120 psf**

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Specifications	Product Description
Foam-LOK LPA 2500	2.5 lbs/ft^3 density	TAS 110	Polyurethane spray applied foam that utilizes an HFC blowing agent intended for roofing applications.
Foam-LOK LPA 2800	2.8 lbs/ft^3 density	TAS 110	Polyurethane spray applied foam that utilizes an HFC blowing agent intended for roofing applications.
Foam-LOK LPA 3000	3.0 lbs/ft^3 density	TAS 110	Polyurethane spray applied foam that utilizes an HFC blowing agent intended for roofing applications.
Therm-O-Flex TF 1000 Series Elastomeric Roof Coating	N/A	ASTM D6083	A premium quality, fluid applied elastomeric roof coating.
RCS-5000 Series Restoration Coatings	N/A	ASTM D6083	A premium quality, fluid applied elastomeric roof coating.
Therm-O-Prime	N/A		A single component, water soluble acrylic emulsion primer to prepare Galvanized Metal, Concrete, Asphalt Substrates and Scarified Foam for new SPF installations.

TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS:

Product	Dimensions	Test Specifications	Product Description	Manufacturer
Any Miami-Dade County Approved Roof Coating	N/A	As Required by Miami-Dade County PCA	Roof coating for application over polyurethane spray applied foam.	Generic. (with current PCA)
Perma Glas-Mesh PGM 242	Various	ASTM D1668	A reinforcing inorganic, woven glass fiber fabric, coated with organic resin coating membrane.	Saint-Gobain Technical Fabrics

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
PRI Construction Materials Technologies	LPII-007-02-01	TAS 110	01/27/10
PRI Construction Materials Technologies	LPII-008-02-01	TAS 110	01/27/10
PRI Construction Materials Technologies	LPII-005-02-01	TAS 110	06/12/07
PRI Asphalt Technologies	LPII- 002-02-01	ASTM D 6083/TAS 114-H	10/19/05
Underwriters Laboratories	07NK08120	UL 790	07/16/07
Underwriter Laboratories, Inc.	R14353	Fire Classification	06/26/05
Factory Mutual Research Corp.	3023796	Class 4470	10/02/05
Atlantic & Caribbean Roof Consulting, LLC	07-078	TAS 114-J	12/05/07
	08-002	TAS 114-J	02/24/08

APPROVED ASSEMBLIES:

Deck Type 2: Steel

Deck Description: Minimum 22 ga. 1.5" type B G-90 Steel Deck with maximum 6' spans secured to the deck supports with Tek 5 SD screws 6" o.c. (every rib). Side laps secured with #12 self drilling screws at 12" o.c.

System Type A(1): Sprayed polyurethane foam covered with an Approved Miami-Dade County roof coating applied directly onto primed steel deck.

All General and System Limitations apply.

Surface Preparation: Metal surfaces should be primed with Therm-O-Prime according to LAPOLLA Industries, Inc. and coating manufacturers' recommendations. Primer shall be thoroughly cured prior to application of foam.

For ferrous metal, remove loose rust and unsound primer from shop-primed iron and steel surfaces by scraping, wire brushing or sandblasting. Prime according to LAPOLLA Industries, Inc. and coating manufacturer's recommendations. For non-ferrous metals, clean and prime aluminum, copper and stainless steel surfaces as recommended by LAPOLLA Industries, Inc..

Primers shall be applied in accordance with their manufacturer's instructions. All primers must be thoroughly dry and cured prior to foam application.

Polyurethane Foam Application: The polyurethane foam shall be applied 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 roof coating with a current NOA applied 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 coating shall be applied the same day as the foam when possible. If more than 72 hours elapse prior to the application of the coatings, the polyurethane foam shall be inspected for UV degradation.

Maximum Design Pressure: -120 psf

Deck Type 2: Steel

Deck Description: Minimum 22 ga. 1.5" type B G-90 Steel Deck with maximum 6' spans secured to the deck supports with Tek 5 SD screws 6" o.c. (every rib). Side laps secured with #12 self drilling screws at 12" o.c.

System Type A(2): Sprayed polyurethane foam covered with an Approved Miami-Dade County roof coating applied onto Perma Glas-Mesh PGM 242 polyester mesh.

All General and System Limitations apply.

Surface Preparation:

Metal surfaces should be primed with Therm-O-Prime according to LAPOLLA Industries, Inc. and coating manufacturers' recommendations. Primer shall be thoroughly cured prior to application of Perma Glas-Mesh PGM 242 polyester mesh.

For ferrous metal, remove loose rust and unsound primer from shop-primed iron and steel surfaces by scraping, wire brushing or sandblasting. Prime according to LAPOLLA Industries, Inc. and coating manufacturer's recommendations. For non-ferrous metals, clean and prime aluminum, copper and stainless steel surfaces as recommended by LAPOLLA Industries, Inc..

Primers shall be applied in accordance with their manufacturer's instructions. All primers must be thoroughly dry and cured prior to foam application.

Perma Glas-Mesh PGM 242 polyester mesh shall be loose laid onto the primed steel deck. Apply one pass of foam at the two corners of the mesh then pull into place and apply one pass of foam onto the opposite two corners to avoid folding during the application of the foam system.

Polyurethane Foam Application:

The polyurethane foam shall be applied uniformly over the entire Perma Glas-Mesh PGM 242 polyester mesh fabric 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:

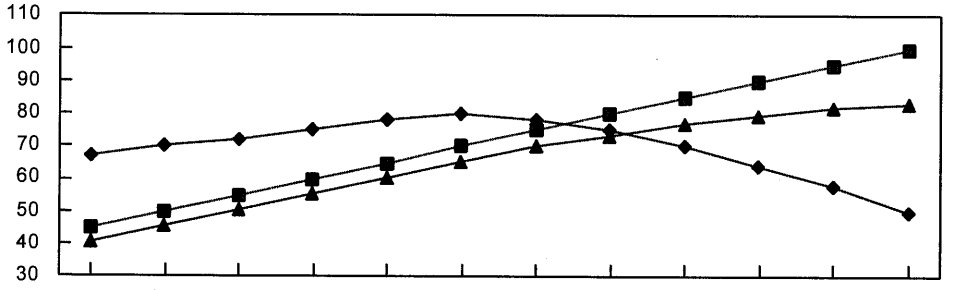
Shall apply a Miami-Dade County approved roof coating with a current NOA applied in accordance with the guidelines listed in the NOA.

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 coating shall be applied the same day as the foam when possible. If more than 72 hours elapse prior to the application of the coatings, the polyurethane foam shall be inspected for UV degradation.

Maximum Design Pressure: -112.5 psf

TABLE 1
AMBIENT HUMIDITY APPLICATION LIMITS
SPRAYED POLYURETHANE FOAM

LAPOLLA Industries, Inc.
Air Temp/ Humidity/ Dew Point Guideline



	45	67	40.5	50	70	45.5	55	72	50.5	60	75	55.5
■ Air	45	50	55	60	65	70	75	80	85	90	95	100
◆ Hu	67	70	72	75	78	80	78	75	70	64	58	50
▲ De	40.5	45.5	50.5	55.5	60.5	65.5	70	73.5	77	79.5	82	83

Dew point and relative humidity for given dry bulb temperature.

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 LAPOLLA Industries, Inc. 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. 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).

END OF THIS ACCEPTANCE