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)

Foam Enterprises, Inc.
1703 Crosspoint
Houston, TX 77054-3707

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: FE 348 Polyurethane Foam over Wood 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 consists of pages 1 through 5.
The submitted documentation was reviewed by Jorge L. Acebo

ROOFING COMPONENT APPROVAL

Category:	Roofing
Sub-Category:	Spray Applied Polyurethane Roof System
Materials:	Polyurethane
Dect Type	Wood
Maximum Design Pressure	**-105 psf**

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Specifications	Product Description
FE 348 Spray Foam System	N/A	TAS 110	Polyurethane spray applied foam that utilizes an HFC blowing agent intended for roofing applications.

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)

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
Radco	RAD-3551	TAS 110	12/15/2004
Stork Twin City Testing	30160 04-63383.0	ASTM E 96	11/18/2004
Underwriters Laboratories Inc.	R9865	UL 790/ ASTM E 108	10/17/2003
Atlantic & Caribbean Roof Consulting, LLC	ACRC 04-005	TAS 114	11/02/2004
Factory Mutual	ID. 3016938	Class 4470	12/20/2004
Atlantic & Caribbean Roof Consulting, LLC	ACRC 07-008 ACRC 07-009	TAS 114-J TAS 114-J	01/18/07 02/16/07

APPROVED ASSEMBLIES:

Deck Type 11: Wood, Insulated

Deck Description: 19/32" or greater plywood or wood plank

System Type B: Sprayed polyurethane foam covered with an Approved Miami-Dade County roof coating installed over a mechanically fastened insulation board.

Deck Attachment: In accordance with applicable Building Code, but in no case shall it be less than:
#8 Ring shank nails spaced 6" o.c. at the field of the plywood sheet and #10 Ring shank nails spaced 4" o.c. at the perimeter of the plywood sheet. The above attachment method must be in addition to existing attachment.

All General and System Limitations apply.

One layer of the following insulation.

Insulation Layer	Insulation Fasteners	Fastener Density/ft2
Securock Minimum .5" thick	#15 screw with 3" Metal Plate	1:2

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Surface Preparation: Metal surfaces should be primed according to Foam Enterprises, Inc. and coating manufacturers' recommendations. Primer shall be thoroughly cured prior to application of foam.

All surfaces shall be free of moisture, dust, debris, oils, tars, grease or other materials that will as recommended by Foam Enterprises, Inc. impair adhesion of the polyurethane foam to the insulation board.

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, But in no case shall it be less than **1"**. The sprayed polyurethane foam shall be feathered at the edges to produce a smooth transition.

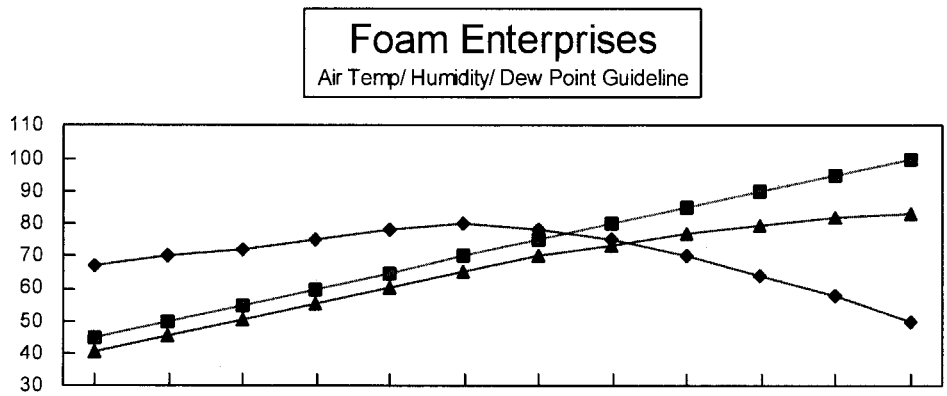
Protective Coating Application: Shall apply a Miami-Dade County approved roof coating with a current NOA applied in accordance with the guidelines listed in the NOA.

Polyurethane foam surface shall be free of moisture, dust, debris, oils, tars, grease or other materials that will as recommended by Foam Enterprises, Inc. 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: -97.5 psf; (See General Limitation #7.)

Deck Type 1:	Wood, Insulated
Deck Description:	19/32" or greater plywood or wood plank
System Type E:	Sprayed polyurethane foam covered with an Approved Miami-Dade County roof coating installed over a primed mechanically fastened Anchor Sheet.
Deck Attachment:	In accordance with applicable Building Code, but in no case shall it be less than: #8 Ring shank nails spaced 6" o.c. at the field of the plywood sheet and #10 Ring shank nails spaced 4" o.c. at the perimeter of the plywood sheet. The above attachment method must be in addition to existing attachment.
Anchor Sheet:	One ply of GAF GAFGLAS Stratavent perforated venting base sheet, primed and mechanically fastened to the primed deck as described below:
Fastening:	Attach anchor sheet using approved 1 ¼" ring shank roofing nails and tin caps spaced 7" o.c. in a 4" lap and 7" o.c. in two staggered rows in the center of the sheet.
Surface Preparation:	Metal surfaces should be primed according to Foam Enterprises, Inc. and coating manufacturers' recommendations. Primer shall be thoroughly cured prior to application of foam. All surfaces shall be free of moisture, dust, debris, oils, tars, grease or other materials that will as recommended by Foam Enterprises, Inc. impair adhesion of the polyurethane foam to the Anchor Sheet. 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, But in no case shall it be less than **2"**. 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 as recommended by Foam Enterprises, Inc. 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:	-105 psf; (See General Limitation #7.)

TABLE 1
AMBIENT HUMIDITY APPLICATION LIMITS
SPRAYED POLYURETHANE FOAM



	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 Foam Enterprises, 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 standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
6. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. Insulation attachment shall not be acceptable.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. 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). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**

END OF THIS ACCEPTANCE