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)

GenFlex Roofing Systems
250 West 96th Street
Indianapolis, IN 46260

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: GenFlex Fleece Backed TPO over Lightweight Concrete 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 NOA consists of pages 1 through 6.
The submitted documentation was reviewed by Jorge L. Acebo

MIAMI-DADE COUNTY APPROVED

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply Roofing
Material:	TPO
Deck Type:	Lightweight Concrete
Maximum Design Pressure	-467.5 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specifications	Product Description
GenFlex Fleece Backed TPO 45	Various	TAS 131-95	Reinforced Fleece-backed TPO
GenFlex Fleece Backed TPO 60	Various	TAS 131-95	Reinforced Fleece-backed TPO
GenFlex FB Bonding Adhesive	5 gal. pail	Proprietary	Solvent based adhesive

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
N/A	N/A	N/A

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	GenFast #15 (WH) Fastener	#15 Fastener for steel, Wood, concrete decks	N/A	GenFlex

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
Underwriters Laboratories Inc.	03NK34486	Fire Classification	March 22, 2005
Atlantic & Caribbean Roof Consulting, LLC	ACRC 05-001	TAS 114	01/18/05
Trinity | ERD	F8300.03.09-R2	TAS 131/ ASTM D6878	03/25/09
	F11080.09.08	TAS 114	09/18/08
	F10980.09.08	TAS 114	09/17/08

Membrane Type: Single Ply, TPO, Reinforced

Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Generic Cellular Lightweight Concrete, min. 300 psi. Slurry coat is followed by 1" holey board and a 2" top coat. Supplemental attachment includes GenFast #15 (WH) Fasteners with 3" GenFlex Insulation Fastening Plates through Lightweight Concrete to steel deck at 1 per 2ft.^{2} *Lightweight Concrete should record a Minimum Characteristic Resistance Force (MCRF) of 100 lbf when tested with the FM-90 fasteners in accordance with TAS 105.

System Type F(1): Membrane fully adhered to LWC deck.

Deck: 22 ga, type B, 0.5% vented steel deck attached at 6 ft spans using Tek/5 screws spaced 6" o.c. Side laps attached with Tek/1 screw spaced 12"o.c.

All General and System Limitations Apply.

Membrane: GenFlex Fleece Backed TPO 45 or Fleece Backed TPO 60 fully adhered with GenFlex FB Bonding Adhesive, substrate only, at are rate of 70-90 ft^2/gallon.

Maximum Design Pressure: -75 psf (See General Limitation #9)

Membrane Type: Single Ply, TPO, Reinforced

Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Celcore Lightweight Concrete, min. 300 psi, min 40.0 pcf. Slurry coat is followed by 1" holey board and a 2" top coat. PVA curing compound applied to LWC at a rate of 0.33 gal/sq. Supplemental attachment includes GenFast #15 (WH) Fasteners with GenFlex Insulation Fastening Plates through to steel deck at 1 per 2ft^2.

System Type F(2): Membrane fully adhered to LWC deck.

Deck: 22 ga, type B, 0.5% vented steel deck attached at 6 ft spans using Tek/5 screws spaced 6" o.c. Side laps attached with Tek/1 screw spaced 12"o.c.

All General and System Limitations Apply.

Membrane: GenFlex Fleece Backed TPO 45 or Fleece Backed TPO 60 fully adhered with GenFlex FB Bonding Adhesive, substrate only, at are rate of 70-90 ft^2/gallon.

Maximum Design Pressure: -90 psf (See General Limitation #9)

Membrane Type:	Single Ply, TPO, Reinforced
Deck Type 4:	Lightweight Concrete, Non-insulated
Deck Description:	Celcore Lightweight Concrete, min. 300 psi, min 40.0 pcf. Slurry coat is followed by 1" holey board and a 2" top coat. PVA curing compound applied to LWC at a rate of 0.33 gal/sq.
System Type F(3):	Membrane fully adhered to LWC deck.
Deck:	22 ga, type B, 0.5% vented steel deck attached at 6 ft spans using Tek/5 screws spaced 6" o.c. Side laps attached with Tek/1 screw spaced 12"o.c.

All General and System Limitations Apply.

Membrane:	GenFlex Fleece Backed TPO 45 or Fleece Backed TPO 60 fully adhered with GenFlex FB Bonding Adhesive, substrate only, at are rate of 70-90 ft^2/gallon.
Maximum Design Pressure:	-45 psf (See General Limitation #9)

Membrane Type:	Single Ply, TPO, Reinforced
Deck Type 4:	Lightweight Concrete, Non-insulated
Deck Description:	Elastizell Lightweight Insulation Concrete, minimum 300 psi. A 1/8" thick slurry coat of LWC is followed by 1" EPS Hol-E – Board and a 2" LWC top coat.
System Type F(4):	Membrane fully adhered to LWC deck.
Deck:	22 ga. X 1-5" deep corrugated, marlin type B, vented, G-90 finish steel deck attached at 6 ft spans using #12-24 x 1 ¼" hex head Tek screws spaced 6" o.c. Side laps attached with #14-1" Tek screws spaced 12" o.c.

All General and System Limitations Apply.

Membrane:	GenFlex Fleece Backed TPO 45 or Fleece Backed TPO 60 fully adhered with GenFlex FB Bonding Adhesive, substrate only, at are rate of 70-90 ft^2/gallon.
Maximum Design Pressure:	-82.5 psf (See General Limitation #9)

Membrane Type:	Single Ply, TPO, Reinforced
Deck Type 4:	Lightweight Concrete, Non-insulated
Deck Description:	Generic Cellular Lightweight Concrete, min. 200 psi. Slurry coat is followed by 1" holey board and a 2" top coat. *Lightweight Concrete should record a Minimum Characteristic Resistance Force (MCRF) of 95 lbf when tested with the FM-90 fasteners in accordance with TAS 105.
System Type F(5):	Membrane fully adhered to LWC deck.
Deck:	Min. 2500 psi structural concrete

All General and System Limitations Apply.

Membrane:	GenFlex Fleece Backed TPO 45 or Fleece Backed TPO 60 fully adhered with GenFlex FB Bonding Adhesive, substrate only, at a rate of 70-90 ft^2/gallon.
Maximum Design Pressure:	-467.5 psf (See General Limitation #9)

LIGHTWEIGHT CONCRETE DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117 and/or RAS 137, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.

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. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. 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.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
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 and/or RAS 137. 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 to 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.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.

END OF THIS ACCEPTANCE