



**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)**

**Firestone Building Products Company  
310 E. 96<sup>th</sup> St.  
Indianapolis, IN 46240**

**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 including the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Firestone Plaza Deck System**

**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 renews NOA #02-0731.13 and consists of pages 1 through 7.  
The submitted documentation was reviewed by Alex Tigera.



**NOA No.: 07-0607.05  
Expiration Date: 10/10/12  
Approval Date: 09/27/07  
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## ROOFING ASSEMBLY APPROVAL

<b>Category:</b>	Roofing
<b>Sub-Category:</b>	Waterproofing
<b>Material</b>	Modified Bitumen
<b>Deck Type:</b>	Concrete
<b>Maximum Design Pressure</b>	-312.5 psf
<b>Fire Classification:</b>	N/A

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

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
APP 180	39.6" x 32'10"	ASTM D 6222 Type I, Grade S	Polyester reinforced modified bitumen, granule surfaced membrane. Torch applied.
APP 160	39.6" x 32'10"	ASTM D 6222 Type I, Grade G	Polyester reinforced modified bitumen membrane. Torch applied.

### TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
Concrete Pavers	24" x 24" x 2" min. wt. 125 lbs/ft <sup>3</sup>	ASTM C902	4000 psi min. compressive strength, 5% water absorption max.	Generic
Plaza Paver	24" x 24" x 1-3/4" min. wt. 125 lbs/ft <sup>3</sup>		7500 psi min compressive strength concrete Pavers	Generic
Foam Insulation	Various Min. 45 psi	TAS 110	Extruded Polystyrene Insulation (XPS)	Dow Chemical USA
ChemRex PL adhesive	Tubes and 1, 5 and 55 gallons pails	ASTM C 557 ASTM 3498	Polyurethane Construction adhesive.	ChemRex, Inc.
Master Blend Thin set Mortar	15 lb. Box, 25 & 50 Bags	ANSI A118.1 & A118.4	A bonding agent for tiles.	Custom Building Products
Portland Cement	94 lb. Bags	ASTM C 220	Type I Portland Cemene.	Generic

### EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
IRT Consulting of S. Florida, Inc.	TAS 114	01-014	05/16/01
IRT-ARCON, Inc.	TAS 114	02-010, 011	01/28/02



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## APPROVED APPLICATIONS:

- Deck Type 3(I):** Concrete Decks, Roof Plaza Decks, New Construction
- Deck Description:** Min. 2500 psi, slab construction (roof plaza decks)
- System Type:** Firestone APP Membranes adhered directly to substrate
- Substrate Preparation:** All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
- Primer:** ASTM D-41 asphalt primer installed at the rate of 1-2 gal/sq.
- Base Ply(s):** One or more plies of Firestone APP 160 applied by torch
- Top Ply:** One ply of Firestone APP 180 applied by torch
- Membrane Flashing:** Membrane flashings shall consist of a minimum of two plies of Firestone APP 160 or APP 180 torch applied. Penetration flashings must be a minimum of 8 inches above the top surface of the traffic surfacing and extend horizontally on the deck 4 inches and then 8 inches for the flashing base and cap plies respectively.
- Integrity Test:** Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.
- Inspection:** Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.
- Surfacing:** Pavers (24" x 24" x 1-3/4" pre-manufactured concrete pavers; min. wt. 125 lbs/ft<sup>3</sup>) shall be set on top of membrane in a minimum 1-3/4" thick Custom Building Products Master Blend thin-set mortar bed. Pavers should then be carefully embedded in the mortar bed and tapped in place to insure full solid bearing. Pavers edges shall be butted together. Pavers shall be installed in accordance with applicable Building Code.
- Maximum Design Pressure:** -312.5 psf (See General Limitation #9.)



**Deck Type 3(I):** Concrete Decks, Roof Plaza Decks, New Construction

**Deck Description:** Min. 2500 psi, slab construction (roof plaza decks)

**System Type:** Firestone APP Membranes adhered directly to substrate

**Substrate Preparation:** All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.

**Primer:** ASTM D-41 asphalt primer installed at the rate of 1-2 gal/sq.

**Base Ply(s):** One or more plies of Firestone APP 160 applied by torch

**Top Ply:** One ply of Firestone APP 180 applied by torch

**Membrane Flashing:** Membrane flashings shall consist of a minimum of two plies of Firestone APP 160 or APP 180 torch applied. Penetration flashings must be a minimum of 8 inches above the top surface of the traffic surfacing and extend horizontally on the deck 4 inches and then 8 inches for the flashing base and cap plies respectively.

**Integrity Test:** Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.

**Inspection:** Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.

**Surfacing:** After integrity test a 3" monolithic concrete slab, minimum 2500 psi.

**Maximum Design Pressure:** -285 psf (See General Limitation #9.)



<b>Deck Type 3:</b>	Concrete Decks, Roof Plaza Decks, New Construction
<b>Deck Description:</b>	Min. 2500 psi, slab construction (roof plaza decks)
<b>System Type:</b>	Paver Finish over Firestone APP Membranes adhered directly to substrate
<b>Substrate Preparation:</b>	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
<b>Primer:</b>	ASTM D-41 asphalt primer installed at the rate of 1-2 gal/sq.
<b>Base Ply(s):</b>	One or more plies of Firestone APP 160 applied by torch
<b>Top Ply:</b>	One ply of Firestone APP 180 applied by torch
<b>Membrane Flashing:</b>	Membrane flashings shall consist of a minimum of two plies of Firestone APP 160 or APP 180 torch applied. Penetration flashings must be a minimum of 8 inches above the top surface of the traffic surfacing and extend horizontally on the deck 4 inches and then 8 inches for the flashing base and cap plies respectively.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.
<b>Inspection:</b>	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.
<b>Surfacing:</b>	After integrity test pavers (24" x 24" x 2" pre-manufactured concrete pavers; min. wt. 125 lbs/ft <sup>3</sup> ) shall be adhered to membrane with four evenly spaced <sup>3</sup> / <sub>8</sub> " wide beads of ChemRex PL adhesive running the length of pavers. Paver edges shall be butted together.
<b>Maximum Design Pressure:</b>	-125 psf (See General Limitation #9.)



<b>Deck Type 3:</b>	Concrete Decks, Roof Plaza Decks, New Construction
<b>Deck Description:</b>	Min. 2500 psi, slab construction (roof plaza decks)
<b>System Type:</b>	Paver Finish over Firestone APP Membranes adhered directly to insulation
<b>Substrate Preparation:</b>	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
<b>Primer:</b>	ASTM D-41 asphalt primer installed at the rate of 1-2 gal/sq.
<b>Base Ply(s):</b>	One or more plies of Firestone APP 160 applied by torch
<b>Top Ply:</b>	One ply of Firestone APP 180 applied by torch
<b>Membrane Flashing:</b>	Membrane flashings shall consist of a minimum of two plies of Firestone APP 160 or APP 180 torch applied. Penetration flashings must be a minimum of 8 inches above the top surface of the traffic surfacing and extend horizontally on the deck 4 inches and then 8 inches for the flashing base and cap plies respectively.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.
<b>Inspection:</b>	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.
<b>Insulation:</b>	After integrity test a minimum 2' x 4' x 2" Extruded Polystyrene Foam Insulation with minimum 45 psi compressive strength shall be adhered to membrane with four evenly spaced $\frac{3}{8}$ " wide beads of ChemRex PL adhesive running the length of the insulation. Insulation edges shall be butted together.
<b>Surfacing:</b>	Pavers (24" x 24" x 2" pre-manufactured concrete pavers) shall be adhered to insulation with four evenly spaced $\frac{3}{8}$ " wide beads of ChemRex PL adhesive running the length of pavers. Paver edges shall be butted together.
<b>Maximum Design Pressure:</b>	-120 psf (See General Limitation #9.)



## 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. Required integrity flood testing shall be provided to the Building Official for review at time of final inspection.
3. Contractor shall be approved by Firestone Building Products Company.
4. Flashings shall be installed according to the manufacturer's published standard details and shall be submitted to the Building Official for review.
5. Contractor shall submit to the Building Official for review the system specifications and details. Submission of these documents, as well as the proper application and installation of all materials shall be the sole responsibility of the contractor.
6. Systems shall not be installed over lightweight insulating concrete.
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 the wind load requirements of applicable Building Code.
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



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