



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

**MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION**

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www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

FBC Chemical Corp.
634 Route 228
Mars, PA. 16046

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: Laurenco Waterproofing Systems

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# 15-0323.01 and consists of pages 1 through 13.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 20-0624.15
Expiration Date: 03/17/26
Approval Date: 08/06/20
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ROOFING SYSTEM APPROVAL

<u>Category:</u>	Roofing
<u>Sub-Category:</u>	Waterproofing Systems
<u>Material:</u>	Rubberized Asphalt
<u>Deck Type:</u>	Concrete
<u>Maximum Design Pressure</u>	-247.5 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1			
<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Laurenco Sheet	36" x 73' 3"	Proprietary	Modified asphalt / rubber saturated waterproofing fabric
Laurenco SPC	49.212' x 3' 3-3/8"	ASTM D 6163	SBS modified asphalt coated fiberglass reinforced base sheet.
Laurenco PPC	32' 10" x 3' 3-3/8"	ASTM D 6163	Fiberglass reinforced, SBS modified bitumen membrane with a sanded back face and a sanded top surface.
Laurenco G Cap	32' 10" x 3' 3-3/8"	ASTM D 6164	Polyester reinforced, SBS modified bitumen membrane with a sanded back face and a granule top surface.
Laurenco G FR Cap	32' 10" x 3' 3-3/8"	ASTM D 6164	Polyester reinforced, SBS modified bitumen membrane with a sanded back face and a granule top surface and fire retardant chemistry.
Laurenco Adhesive	5 gallon pail, 55 gallon drum	Proprietary	Liquid-applied, cold-process, modified asphalt / rubber waterproofing compound

APPROVED INSULATIONS:

TABLE 2		
<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer</u> <u>(With Current NOA)</u>
STYROFOAM PlazaMate	Extruded polystyrene insulation board	DuPont de Nemours, Inc.



TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
Mortar Mix	Various	ANSI A118.1	Portland cement based mortar	Generic
Thin-set	Various	ANSI A118.4	A thinset Portland cement mortar	Generic
Concrete Pavers	12" x 12" x 1"	ASTM C936	high density concrete pavers	Generic
Exterior Ceramic Tiles	12" x 12" x ½"	ASTM C56 & ANSI A137.1	Ceramic plaza deck walking tiles, 5% water absorption max.	Generic

EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Report</u>	<u>Test Specification</u>	<u>Date</u>
Underwriters Laboratories, Inc.	R18508	UL 790	03/19/15
Trinity ERD	SC7535.08.15-1	Physical Properties	08/31/15
	SC7535.08.15-2-R1	ASTM D1876, TAS 114(H), TAS 114(D)	09/04/15
	P37590.03.13-2-R1	ASTM D6163	07/01/13
	P37590.07.13-1	ASTM D6164	07/02/13
NEMO etc	4S-PLYG-18-002.01.19-A	ASTM D6163	01/24/19



APPROVED APPLICATIONS:

Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2,500 psi structural concrete or concrete plank
System Type A(1):	Membranes adhered to substrate. Insulation adhered under surfacing.

All General and System Limitations apply.

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.
Base Coat:	Laurenco Sheet is adhered with Laurenco Adhesive applied at a rate of 1.5 - 2 gal/sq.
Top Coat:	Laurenco Sheet is adhered with Laurenco Adhesive applied at a rate of 0.75 - 1 gal/sq.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. 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.

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners</u>	<u>Fastener Density/ft²</u>
STYROFOAM™ PLAZAMATE™ Minimum 2" thick	N/A	N/A

Note: All layers of insulation shall be fully adhered with Laurenco Adhesive applied at a rate of 1.5 – 2 gal/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation as the final membrane substrate.

Surfacing:	Min. 12" x 12" x ½" exterior grade ceramic plaza deck walking tiles or min. 12" x 12" x 1" exterior concrete pavers set in dry set mortar (ANSI A118.1) at 45 sq. ft./50 lb.
Maximum Design Pressure:	-75 psf. (See General Limitation #9)



Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2,500 psi structural concrete or concrete plank
System Type A(2): Membranes adhered to substrate. Insulation adhered to protection course below the surfacing for planters.

All General and System Limitations apply.

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.

Base Coat: Laurenco Sheet is adhered with Laurenco Adhesive applied at a rate of 1.5 - 2 gal/sq.

Top Coat: Laurenco Sheet is adhered with Laurenco Adhesive applied at a rate of 0.75 - 1 gal/sq.

Protection Course: Laurenco SPC or Laurenco PPC adhered with Laurenco Adhesive applied at a rate of 2 - 2.5 gal/sq.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water may be 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.

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners</u>	<u>Fastener Density/ft²</u>
STYROFOAM™ PLAZAMATE™ Minimum 2" thick	N/A	N/A

Note: All layers of insulation shall be fully adhered with Laurenco Adhesive applied at a rate of 1.5 – 2 gal/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation as the final membrane substrate.

Drainage Layer: (Optional) Install drainage board, loose laid.

Surfacing: Backfill the planter with soil to a minimum depth of 24 inches.

Maximum Design Pressure: -170 psf. (See General Limitation #9)



Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2,500 psi structural concrete or concrete plank
System Type A(3): Membranes adhered to substrate. Insulation adhered under surfacing.

All General and System Limitations apply.

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 (Optional): ASTM D41 primer.

Base Coat: Laurenco Sheet is adhered with Laurenco Adhesive applied at a rate of 1.5 - 2 gal/sq.

Top Coat: Laurenco Sheet is adhered with Laurenco Adhesive applied at a rate of 0.75 - 1 gal/sq.

Protection Course: Laurenco SPC, Laurenco PPC, Laurenco G Cap or Laurenco G FR Cap adhered with Laurenco Adhesive applied at a rate of 2 - 2.5 gal/sq.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. 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.

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners</u>	<u>Fastener Density/ft²</u>
STYROFOAM™ PLAZAMATE™ Minimum 2" thick	N/A	N/A

Note: All layers of insulation shall be fully adhered with Laurenco Adhesive applied at a rate of 1.5 – 2 gal/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation as the final membrane substrate.

Drainage Layer: (Optional) Install drainage board, loose laid.

Surfacing: Structural Concrete Slab, minimum 2500 psi, in compliance with applicable Building Code.

Maximum Design Pressure: N/A
(Topping concrete slab shall comply with applicable Building Code requirement.)



Deck Type 3: Concrete Decks, Non-Insulated
Deck Description: 2,500 psi structural concrete or concrete plank
System Type F(1): Membranes applied directly to substrate

All General and System Limitations apply.

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.

Base Coat: Laurenco Sheet is adhered with Laurenco Adhesive applied at a rate of 1.5 - 2 gal/sq.

Top Coat: Laurenco Sheet is adhered with Laurenco Adhesive applied at a rate of 0.75 - 1 gal/sq.

Protection Course: Laurenco SPC or Laurenco PPC adhered with Laurenco Adhesive applied at a rate of 2 - 2.5 gal/sq.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. 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: Min. 12" x 12" x ½" exterior grade ceramic plaza deck walking tiles or min. 12" x 12" x 1" exterior concrete pavers set in thin set mortar (ANSI A118.4) at 75 sq. ft./50 lb.

Maximum Design Pressure: -112.5 psf. (See General Limitation #9)



Deck Type 3: Concrete Decks, Non-Insulated
Deck Description: 2,500 psi structural concrete or concrete plank
System Type F(2): Membranes applied directly to substrate

All General and System Limitations apply.

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.

Base Coat: Laurenco Sheet is adhered with Laurenco Adhesive applied at a rate of 1.5 - 2 gal/sq.

Top Coat: Laurenco Sheet is adhered with Laurenco Adhesive applied at a rate of 0.75 - 1 gal/sq.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. 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: Min. 12" x 12" x 1" exterior concrete pavers set into a 2" thick bed of dry set portland cement mortar (ANSI A118.1).

Maximum Design Pressure: -195 psf. (See General Limitation #9)

Deck Type 3: Concrete Decks, Non-Insulated
Deck Description: 2,500 psi structural concrete or concrete plank
System Type F(3): Membranes applied directly to substrate

All General and System Limitations apply.

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.

Base Coat: Laurenco Sheet is adhered with Laurenco Adhesive applied at a rate of 1.5 - 2 gal/sq.

Top Coat: Laurenco Sheet is adhered with Laurenco Adhesive applied at a rate of 0.75 - 1 gal/sq.

Protection Course: Laurenco SPC or Laurenco PPC is adhered with Laurenco Adhesive applied at a rate of 2 - 2.5 gal/sq.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. 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: Min. 12" x 12" x ½" exterior grade ceramic plaza deck walking tiles or min. 12" x 12" x 1" exterior concrete pavers set in dry set mortar (ANSI A118.1) in accordance with applicable Building Code.

Maximum Design Pressure: -187.5 psf. (See General Limitation #9)



Deck Type 3: Concrete Decks, Non-Insulated
Deck Description: 2,500 psi structural concrete or concrete plank
System Type F(4): Membranes applied directly to substrate.

All General and System Limitations apply.

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.

Base Coat: Laurenco Sheet is adhered with Laurenco Adhesive applied at a rate of 1.5 - 2 gal/sq.

Top Coat: Laurenco Sheet is adhered with Laurenco Adhesive applied at a rate of 0.75 - 1 gal/sq.

Protection Course: Laurenco SPC or Laurenco PPC is adhered with Laurenco Adhesive applied at a rate of 2 - 2.5 gal/sq.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. 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.

Drainage Layer: (Optional) Install drainage board, loose laid.

Surfacing: Backfill the planter with soil to a minimum depth of 24 inches.

Maximum Design Pressure: -238.8 psf. (See General Limitation #9)



Deck Type 3: Concrete Decks, Non-Insulated
Deck Description: 2,500 psi structural concrete or concrete plank
System Type F(5): Membranes applied directly to substrate

All General and System Limitations apply.

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:
(Optional)** ASTM D41 primer.

Base Coat: Laurenco Sheet is adhered with Laurenco Adhesive applied at a rate of 1.5 - 2 gal/sq.

Top Coat: Laurenco Sheet is adhered with Laurenco Adhesive applied at a rate of 0.75 - 1 gal/sq.

Protection Course: Laurenco SPC, Laurenco PPC, Laurenco G Cap or Laurenco G FR Cap adhered with Laurenco Adhesive applied at a rate of 2 - 2.5 gal/sq.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. 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.

**Drainage Layer:
(Optional)** Install drainage board, loose laid.

Surfacing: Structural Concrete Slab, minimum 2500 psi, in compliance with applicable Building Code.

Maximum Design Pressure: N/A
(Topping concrete slab shall comply with applicable Building Code requirement.)

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. All work shall be performed by a Contractor licensed to do roofing/waterproofing and be a Manufacturer Trained 'Qualified Applicator' approved by FBC Chemical Corp. FBC Chemical Corp. shall supply a list of approved applicators to the authority having jurisdiction.
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. 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. A non-skid surfacing is required for all pedestrian areas, plaza decks or balconies.
11. Flashings shall be installed according to the manufacturers published standard details, specific details, approved by FBC Chemical and shall be submitted to the Building Official for review.
12. 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.

13. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.
14. A copy of the integrity test report described herein in accordance with ASTM D5957 shall be provided to the Building Official for review at time of final inspection.

END OF THIS ACCEPTANCE



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