



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

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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NOTICE OF ACCEPTANCE (NOA)

The Garland Company, Inc.
3800 East 91st Street
Cleveland, OH 44105-2197

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: Garland Modified Bitumen 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 consists of pages 1 through 9.

The submitted documentation was reviewed by Alex Tigera.



NOA No.: 14-0805.03
Expiration Date: 09/01/21
Approval Date: 09/01/16
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WATERPROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Waterproofing
Material:	SBS
Maximum Design Pressure:	-102.5psf

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>
FlexBase Plus 80	39" x 34'8"	ASTM D6162, Type III	SBS modified, fiberglass/polyester reinforced base sheet
FlexBase Plus 120	39" x 34'8"	ASTM D6162, Type III	SBS modified, fiberglass/polyester reinforced base sheet
FlexBase E 80	39" x 34'8"	ASTM D6162, Type III	SBS/SIS modified, fiberglass/polyester reinforced base sheet.
FlexBase E 120	39" x 34'8"	ASTM D6162, Type III	SBS/SIS modified, fiberglass/polyester reinforced base sheet.
StressBase 80	39" x 52'	ASTM D6163, Type I	SBS modified, fiberglass reinforced base sheet.
StressBase 120	39" x 52'	ASTM D6163, Type I	SBS modified, fiberglass reinforced base sheet.
FlexBase 80	39" x 34'8"	ASTM D6163, Type III	SBS modified, fiberglass reinforced base sheet.
FlexBase 120	39" x 34'8"	ASTM D6163, Type III	SBS modified, fiberglass reinforced base sheet.
HPR Torch Base Sheet	39" x 34'8"	ASTM D6163, Type III	SBS modified, fiberglass reinforced, torch applied base sheet.
StressPly E	39" x 34'8"	ASTM D 6162, Type III	Smooth surfaced, SBS/SIS modified, fiberglass/polyester reinforced membrane.
StressPly EUV	39" x 34'8"	ASTM D 6162, Type III	Smooth surfaced, SBS/SIS modified, fiberglass/polyester reinforced membrane.
StressPly EUV FR Mineral	39" x 26'2"	ASTM D6162, Type III	Mineral surfaced, SBS/SIS modified, fiberglass/polyester reinforced membrane.
StressPly Plus	39" x 34'8"	ASTM D6162, Type III	Smooth surfaced, SBS modified, fiberglass/polyester scrim membrane.
StressPly Plus FR Mineral	39" x 26'2"	ASTM D6162, Type III	Mineral surfaced, SBS modified, fire retardant, UV resistant, fiberglass/polyester scrim membrane.
StressPly IV Plus	39" x 26'2"	ASTM D6162, Type III	Smooth surfaced, SBS modified, fiberglass/polyester reinforced, torch applied cap sheet.



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>
StressPly IV Plus Mineral	39" x 26'2"	ASTM D6162, Type III	Mineral surfaced, SBS modified, fiberglass/polyester reinforced, torch applied cap sheet.
StressPly IV Plus UV Mineral	39" x 26'2"	ASTM D6162, Type III	Mineral surfaced, SBS modified, fiberglass/polyester reinforced, torch applied cap sheet.
StressPly E FR Mineral	39" x 26'2"	ASTM D6162, Type III	Mineral surfaced, SBS/SIS modified, fire retardant, fiberglass/polyester reinforced membrane.
StressPly Max	39" x 34'8"	ASTM D6162, Type III	Smooth surfaced, SBS/SIS modified, fiberglass/polyester reinforced membrane.
StressPly Max FR Mineral	39" x 26'2"	ASTM D6162, Type III	Mineral surfaced, SBS/SIS modified, fire retardant, fiberglass/polyester reinforced membrane.
BiFlex Mineral	39" x 34'8"	ASTM D6163, Type I	Mineral surfaced, SBS modified, fiberglass reinforced, cap sheet.
StressPly	39" x 34'8"	ASTM D 6163, Type III	Smooth surfaced, SBS modified, fiberglass scrim reinforced roofing membrane.
StressPly FR Mineral	39" x 26'2"	ASTM D6163, Type III	Mineral surfaced, SBS modified, fire retardant, fiberglass scrim membrane.
StressPly IV Mineral	39" x 26'2"	ASTM D6163, Type III	Mineral surfaced, SBS modified, fiberglass reinforced, torch applied cap sheet.
StressPly IV UV Mineral	39" x 26'2"	ASTM D6163, Type III	Mineral surfaced, SBS modified, fiberglass reinforced, torch applied cap sheet.
VersiPly 60	39" x 34'8"	ASTM D 6163	Smooth surfaced, SBS modified, fiberglass scrim reinforced roofing membrane.
VersiPly 80	39" x 34'8"	ASTM D 6163	Smooth surfaced, SBS modified, fiberglass scrim reinforced roofing membrane.
VersiPly Mineral	39" x 26'2"	ASTM D6163, Type III	Mineral surfaced, SBS modified, fiberglass scrim reinforced roofing membrane.
Green-Lock Membrane Adhesive	5 gallon	Proprietary	Cold process roof coating and adhesive.
Garla-Prime	5, 55 gallon	ASTM D41	Non-fibered, quick drying asphalt roof primer



APPROVED INSULATIONS:

TABLE 2

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

APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer</u> <u>(With Current NOA)</u>
1.	N/A	N/A	N/A	N/A

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	12" x 12" x 1"	ASTM C939	High density concrete pavers	Generic
Protection Course	4' x 8'	ASTM D6506	Asphalt impregnated protection board	W.R. Meadows

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Trinity ERD	G37200.10.12-1-R1	ASTM D6163	12/05/12
	G37200.10.12-10-R1	ASTM D6163	12/05/12
	G37200.10.12-4-R1	ASTM D6162	12/05/12
	G37200.10.12-7-R1	ASTM D6162	12/05/12
	G37200.09.13-10	ASTM D6163	09/24/13
	G37200.10.12-12-R2	ASTM D6163	09/24/13
	G37200.10.12-3-R2	ASTM D6162	09/24/13
	G37200.10.12-11-R2	ASTM D6163	09/24/13
	G37200.10.12-5-R2	ASTM D6162	09/23/13
	G37200.10.12-6-R2	ASTM D6162	09/23/13
	G37200.10.12-2-R2	ASTM D6162	09/24/13
	G37200.09.13-1	ASTM D6163	09/24/13
	G37200.10.12-9-R2	ASTM D6162	09/24/13
	G34960.10.10-3	ASTM D1876	10/05/10
	G45130.09.15	TAS 114	09/08/15
	GRL-SC8015.09.15	ASTM D6506	09/08/15
Underwriters Laboratories, Inc.	R8384	UL 790	05/03/12



APPROVED ASSEMBLIES

Deck Type 3:	Concrete Decks, Non-Insulated
Deck Description:	2,500 psi structural concrete or concrete plank
System Type F(1):	Membranes adhered to primed 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.
Primer:	Concrete deck shall be primed with Garla-Prime or ASTM D41 at a rate of 0.5 gal./100 ft ² and allowed to dry prior to the application of base coat.
Base Sheet:	One ply of FlexBase 80, FlexBase 120, FlexBase Plus 80, FlexBase Plus 120, FlexBase E 80, FlexBase E 120, StressBase 80, StressBase 120, StressPly E, StressPly EUV, StressPly Plus, StressPly Max or StressPly adhered with Green-Lock Membrane Adhesive at a rate of 1 to 1.5 gal./sq.
Cap Sheet:	One ply of StressPly E FR Mineral, StressPly FR Mineral, StressPly Plus FR Mineral, StressPly EUV FR Mineral or StressPly Max FR Mineral adhered with Green-Lock Membrane Adhesive at a rate of 1 to 1.5 gal./sq.
Integrity Test:	Required, and shall be performed by an approved lab in accordance with ASTM D5957. 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. All defects observed shall be corrected.
Surfacing:	Minimum 12" x 12" x 1" concrete pavers adhered to roofing membrane with ANSI AA118.1 dry set mortar using a 1/4" notched trowel per ANSI A108.5.
Maximum Design Pressure:	-102.5 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 adhered to primed 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.
Primer:	Concrete deck shall be primed with Garla-Prime or ASTM D41 at a rate of 0.5 gal./100 ft ² and allowed to dry prior to the application of base coat.
Base Sheet:	One or more plies ply of HPR Torch Base Sheet, StressPly IV or StressPly IV Plus, torch applied.
Cap Sheet:	One ply of StressPly IV Mineral, StressPly IV UV Mineral or StressPly IV Plus UV Mineral, torch applied.
Integrity Test:	Required, and shall be performed by an approved lab in accordance with ASTM D5957. 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. All defects observed shall be corrected.
Surfacing:	Minimum 12" x 12" x 1" concrete pavers adhered to roofing membrane with ANSI AA118.1 dry set mortar using a 1/4" notched trowel per ANSI A108.5.
Maximum Design Pressure:	-102.5 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(3):	Membranes adhered 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.
Base Sheet:	One ply of StressBase 80, StressBase 120, FlexBase 80, FlexBase 120, FlexBase Plus 80, FlexBase Plus 120, FlexBase E 80, FlexBase E 120, VersiPly 60 or VersiPly 80 adhered with Green-Lock Membrane Adhesive applied at 1.5 gal./sq.
Cap Sheet:	One ply of BiFlex Mineral, StressPly E FR Mineral, StressPly FR Mineral, StressPly Plus, StressPly Plus FR Mineral, StressPly EUV FR Mineral or VersiPly Mineral adhered with Green-Lock Membrane Adhesive applied at 1.5 gal./sq.
Integrity Test:	Required, and shall be performed by an approved lab in accordance with ASTM D5957. 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. All defects observed shall be corrected.
Protection Board:	Install drainage board or Protection Course Board loose laid over membrane.
Surfacing:	Structural Concrete Slab, minimum 2500 psi, in compliance with applicable Building Code.
Maximum Design Pressure:	N/A



Deck Type 3:	Concrete Decks, Non-Insulated
Deck Description:	2,500 psi structural concrete or concrete plank
System Type F(4):	Membranes adhered 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.
Base Sheet:	One or more plies ply of HPR Torch Base Sheet, torch applied
Cap Sheet:	One ply of StressPly IV Mineral, StressPly IV UV Mineral, StressPly IV Plus, StressPly IV Plus UV Mineral or StressPly IV Plus Mineral torch applied.
Integrity Test:	Required, and shall be performed by an approved lab in accordance with ASTM D5957. 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 or traffic surfacing. All defects observed shall be corrected.
Protection Board:	Install drainage board or Protection Course Board loose laid over membrane.
Surfacing:	Structural Concrete Slab, minimum 2500 psi, in compliance with applicable Building Code.
Maximum Design Pressure:	N/A



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. 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.
3. 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.
4. Flashings shall be installed according to the manufacturer's published standard details and shall be submitted to the Building Official for review.
5. All work shall be performed by a Contractor licensed to do roofing/waterproofing and be a Manufacturer Trained 'Qualified Applicator' approved by The Garland Company. The Garland Company shall supply a list of approved applicators to the authority having jurisdiction
6. 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.
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. A non-skid surfacing is required for all pedestrian areas, plaza decks or balconies.
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 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE

