



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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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 Roofing Systems over 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 revises NOA# 25-0709.11 and consists of pages 1 through 52.
The submitted documentation was reviewed by Alex Tigera.

07/16/26



NOA No.: 26-0421.04
Expiration Date: 12/03/28
Approval Date: 07/16/26
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ROOFING SYSTEM APPROVAL

<u>Category:</u>	Roofing
<u>Sub-Category:</u>	Modified Bitumen
<u>Material:</u>	SBS/SIS/SEBS
<u>Deck Type:</u>	Concrete
<u>Maximum Design Pressure:</u>	-452.5 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>
Black-Knight Cold	5, 55 gallon	Proprietary	Polymer modified coal tar pitch.
Flashing Bond	5 gallon	ASTM D4586	Trowel grade, asphalt based roofing mastic for use in repair and patching against leaks in built-up asphalt roofs.
FlexBase 80	39" x 34'8"	ASTM D6163, Type III	SBS modified, fiberglass reinforced base sheet.
FlexBase E 80	39" x 34'8"	ASTM D6162, Type III	SBS/SIS modified, fiberglass/polyester reinforced base sheet.
FlexBase Plus 80	39" x 34'8"	ASTM D6162, Type III	SBS modified, fiberglass/polyester reinforced base sheet
Garla-Brite	5, 55 gallon	ASTM D4479, Type I	Asbestos-free, heavy-bodied, fiber-reinforced, fire-rated asphalt roof coating.
Garla-Flex	2, 5 gallon pail	ASTM D4586	Elastomeric, asphaltic compound formulated from a special weather and ozone-resistant thermoplastic rubber, plasticizing oils and bitumen. Asbestos free.
Garla-Prime VOC	5, 55 gallon	ASTM D41	Non-fibered, quick drying asphalt roof primer
Garlastic KM Plus	60 lb. keg	TAS 121	SEBS modified, hot applied asphalt.
Green-Lock Plus Membrane Adhesive	5 gallon	proprietary	Cold Process roof coating and adhesive
HPR All Temp Asphalt	100 lb. keg	TAS 121	Hot asphalt adhesive for modified bitumen and BUR roof systems.
HPR Glasfelt	36" x 180'	ASTM D2178, Type IV	Asphalt impregnated glass felt
HPR Polyscrim Plus	40" x 324'	ASTM D5726	Polyester felt



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>
HPR Premium Glasbase	36" x 72'	ASTM D4601, Type II	Asphalt coated fiberglass base sheet.
HPR Torch Base Sheet	39" x 34'8"	ASTM D6163	SBS modified, fiberglass reinforced, torch applied base sheet.
HPR Tri-Base Premium	36" x 72'	ASTM D4601	Double asphalt coated, polyester/fiberglass/polyester scrim reinforced base sheet.
Insul-Lock HR	1.5 liters	Proprietary	Polyurethane two component high rise insulation adhesive
OptiMax	39" x 34'2"	ASTM D4601, Type II ASTM D6163, Type III, Grade S	SBS-modified bitumen cap ply with fiberglass reinforcement, surfaced with mineral granules.
OptiMax FR Mineral	39" x 26'2"	ASTM D6163, Type III	Mineral surfaced, SBS modified, fiberglass reinforced, cap sheet.
Silver-Flash	5 gallon	ASTM D4586	Trowel grade, asphalt based roofing mastic for use in repair and patching against leaks in built-up asphalt roofs.
StressBase 120	39" x 52'	ASTM D6163, Type I	SBS modified, fiberglass reinforced base sheet.
StressBase 80	39" x 52'	ASTM D6163, Type I	SBS modified, fiberglass reinforced base sheet.
StressPly	39" x 34'8"	ASTM D6163, Type III, Grade S	SBS-modified bitumen cap ply with fiberglass reinforcement, surfaced with mineral granules
StressPly EUV	39" x 34'8"	ASTM D6162, Type III, Grade S & TAS 110	SBS-modified bitumen cap ply with fiberglass and polyester reinforcements.
StressPly EUV FR Mineral	39" x 26'2"	ASTM D6162, Type III	Mineral surfaced, SBS/SIS modified, fiberglass/polyester reinforced membrane.
StressPly FR Mineral	39" x 26'2"	ASTM D6163, Type III	Mineral surfaced, SBS modified, fire retardant, fiberglass scrim membrane.



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	39" x 26'2"	ASTM D6162, Type III	Smooth surfaced, SBS modified, fiberglass/polyester reinforced, torch applied cap sheet.
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 Legacy	39" x 34'8"	ASTM D6162, Type III, Grade S & TAS 110	SBS-modified bitumen cap ply with polyester and fiberglass reinforcement
StressPly Legacy FR Mineral	39" x 26'2"	ASTM D6162, Type III	SBS modified bitumen cap ply with fiberglass and polyester reinforcement, with fire retardant, surfaced with mineral granules.
StressPly Max	39" x 34'8"	ASTM D6162, Type III, Grade S & TAS 110	SBS-modified bitumen cap ply with fiberglass and polyester reinforcement, with fire retardant.
StressPly Max FR Mineral	39" x 26'2"	ASTM D6162, Type III	SBS modified bitumen cap ply with fiberglass and polyester reinforcement, with fire retardant, surfaced with mineral granules.
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.
VaporSmart SA	39" x 75'	TAS 110	SBS-modified base ply, with fiberglass reinforcement, surfaced with adhesive and removable release film.
VersiPly 80	39" x 34'8"	ASTM D6163, Type III	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.



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>
Weatherking	5, 55 gallon	ASTM D3019, Type III	Cold process roof coating and adhesive.
Weatherking Flashing Adhesive	5 gallon	ASTM D3019, Type III	Cold process roof flashing adhesive.
Weatherking Plus WC	5, 55 gallon	ASTM D3019, Type III	Cold process roof coating and adhesive.
WeatherScreen	5, 55 gallon	ASTM D4479, Type I	Asbestos-free, heavy-bodied, fiber-reinforced, fire-rated asphalt roof coating.

APPROVED INSULATIONS:**TABLE 2**

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corporation
ISO 95+ GL	Polyisocyanurate foam insulation	Holcim Solutions and Products US, LLC.
DensDeck, DensDeck Prime	Water resistant gypsum board	Georgia Pacific Gypsum LLC
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, LLC.
Fesco Board	Expanded perlite and fiber insulation	Johns Manville Corp.
ENRGY 3, ENRGY 3 25 PSI	Polyisocyanurate foam insulation	Johns Manville Corp.
Retro-Fit Board	Expanded perlite and fiber insulation	Johns Manville Corp.
Ultra-Max, Multi-Max FA-3	Polyisocyanurate foam insulation	RMax Operating, LLC
SECUROCK Gypsum-Fiber Roof Board	Gypsum board	United States Gypsum Corp.
Structodek High Density Fiberboard Roof Insulation	High Density wood fiber insulation board	Blue Ridge Fiberboard, Inc.
Insulfoam EPS	Expanded polystyrene insulation board	Insulfoam, a Div. of Carlisle Const. Materials, LLC.
STYROFOAM ROOFMATE	Extruded polystyrene insulation board	DuPont de Nemours, Inc.



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APPROVED INSULATIONS:**TABLE 2**

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer</u> <u>(With Current NOA)</u>
DEXcell FA Glass Mat Roof Board	Gypsum board	National Gypsum Company dba of National Gypsum Services Company

APPROVED FASTENERS/ADHESIVES:**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.	Dekfast DF-#14-PH3	Insulation fastener for wood, steel and concrete decks	Various	SFS Group USA, Inc.
2.	Dekfast DF-#15-PH3	Insulation fastener for wood, steel and concrete decks	Various	SFS Group USA, Inc.
3.	Dekfast PLT-H-2-7/8	Galvalume hex stress plate.	2 7/8" x 3 1/4"	SFS Group USA, Inc.
4.	OMG Heavy Duty	Insulation fastener for wood, steel and concrete.	Various	OMG, Inc.
5.	#15 Roofgrip Fasteners	Insulation fastener for wood, steel and concrete.	Various	OMG, Inc.
6.	AccuTrac Plate	Galvalume stress plate.	3" round	OMG, Inc.
7.	CD-10	Insulation fastener for concrete deck.	Various	OMG, Inc.
8.	3 in. Round Metal Plate	3" round galvalume AZ50 steel plate	3" round	OMG, Inc.
9.	Trufast #14 HD Fastener	Insulation fastener for concrete, steel and wood decks	Various	Altenloh, Brinck & Co. U.S., Inc.
10.	Trufast 3" Metal Insulation Plates	3" round galvalume AZ50 steel plate	3" round	Altenloh, Brinck & Co. U.S., Inc.
11.	OMG Heavy Duty	Insulation fastener for wood, steel and concrete.	Various	OMG, Inc.
12.	Flat Bottom Metal Plate	Galvalume stress plate	3" square	OMG, Inc.
13.	Dekfast PLT-R-3	3" round galvalume AZ50 steel plate	3" round	SFS Group USA, Inc.



APPROVED FASTENERS/ADHESIVES:**TABLE 3**

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
14.	Millennium One Step Foamable Insulation Adhesive	A two component, low rise, polyurethane foam adhesive		H.B. Fuller Company



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
NEMO ETC, LLC.	4p-GRL-21-SSLAP-01.A	Physical Properties	07/23/21
	4i-GRL-23-SSCRT-01.A	FM 4470	05/22/23
	4a-GRL-23-LSWUS-02.A.R1	FM 4474 & TAS 114	08/30/23
	4a-GRL-LSWUS-002.A	FM 4474 & TAS 114	01/06/25
	4i-GRL-SSCRT-001.A	ASTM D1876	04/04/25
	4a-GRL-LSWUS-003.A	FM 4474 & TAS 114	05/29/25
	4a-GRL-LSWUS-004.A	FM 4474 & TAS 114	10/24/25
Dynatech Engineering Corporation	#4530.05.95-1	TAS 114	05/31/95
Factory Mutual Research Corporation	0V7A4.AM	FM 4470	06/10/92
	IVOA7.AM	FM 4470	02/21/95
	3004392	FM 4470	09/21/99
	3010113	FM 4470	11/18/02
	3014751	FM 4470	08/27/03
	3019046	FM 4470	03/04/05
	3021718	FM 4470	04/11/05
	3023724	FM 4470	07/05/06
	3032165	FM 4470	04/22/08
	3032647	FM 4470	07/28/08
	3033444	FM 4470	08/28/08
	3054493	FM 4470	01/04/16
	PR454771	FM 4470	01/29/21
	PR464416	FM 4470	12/21/23
PRI Construction Materials Technologies, LLC	GRD-051-02-01	ASTM D2178	10/28/11
	GRD-052-02-01	ASTM D2178	10/28/11
	GRD-054-02-01	ASTM D2626	11/17/11
Trinity ERD	4544.11.06	TAS 114	11/02/06
	C8500SC.11.07-R1	TAS 117/ASTM D6862	08/07/09
	G15080.10.09	TAS 114 (D)	10/14/09
	G32950.06.10	ASTM D4601	06/11/10
	4533.05.98-1-R1	TAS 114 (J)	09/09/11
	G32700.09.11-1	ASTM D4601	09/16/11
	G39620.07.12	ASTM D4990	07/02/12
	G39630.07.12	Physical Properties	07/12/12
	G37200.10.12-1-R1	ASTM D6163/D4798	12/05/12
	G37200.10.12-4-R1	ASTM D6162	12/05/12
	G37200.10.12-7-R1	ASTM D6162	12/05/12
	G37200.10.12-9-R1	ASTM D6162/D4798	12/05/12
	G37200.10.12-10-R1	ASTM D6163/D4798	12/05/12
	G37200.10.12-5-R2	ASTM D6162	09/23/13
	G37200.10.12-6-R2	ASTM D6162/D4798	09/23/13
	G37200.10.12-2-R2	ASTM D6162/D4798	09/24/13
	G37200.10.12-3-R2	ASTM D6162/D4798	09/24/13
	G37200.10.12-11-R2	ASTM D6163/D4798	09/24/13



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Atlantic & Caribbean Roof Consulting, LLC	G37200.10.12-12-R2	ASTM D6163/D4798	09/24/13
	G37200.09.13-10	ASTM D6163/D4798	09/24/13
	G37200.09.13-1	ASTM D6163/D4798	09/24/13
	G37200.08.12-13-R2	ASTM D6162/D4798	09/26/13
	GRL-SC8185.05.16	ASTM D6163/D4798	05/31/16
	ACRC 08-026	TAS 114-95	04/22/08
	ACRC 08-029	TAS 114-95	04/24/08



APPROVED ASSEMBLIES:

Membrane Type:	SBS/SIS/SEBS
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type A(1):	One or more layers of insulation adhered to spot mopped anchor sheet with approved asphalt.

All General and System Limitations apply.

Deck Primer:	Deck is primed with ASTM D 41 primer.
Anchor Sheet:	ASTM D4897, Type II approved base sheet is spot mopped to deck with hot asphalt using 12” diameter circles 24” o.c.

One or more layers of any of the following insulations.

<u>Base Insulation Layer (Optional):</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ENRGY 3, ENRGY 3 25 PSI, ISO-95+ GL, H-Shield Minimum 1” thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation Minimum ½” thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of vapor barrier or insulation. All insulation shall be adhered to the vapor barrier or deck in full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./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 installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base/Ply Sheet:	Two or more plies of HPR Glasfelt, or HPR Polyscrim Plus adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq.
Membrane:	One ply of StressPly FR Mineral, StressPly Plus, StressPly Plus FR Mineral, StressPly EUV FR Mineral or VersiPly Mineral adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq.



Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal./sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.

Maximum Design Pressure: -45 psf . (See General Limitation #9)



Membrane Type: SBS/SIS/SEBS
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2500 psi concrete or concrete plank
System Type A(2): All layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

Vapor Barrier: One ply of HPR Torch Base Sheet torch applied over the primed concrete deck. (See
(Optional) Maximum Design Pressure)

One or more layers of the following insulations:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ENRGY 3, H-Shield Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	N/A	N/A

Note: All layers of insulation adhered in Insul-Lock HR or Millennium One Step Foamable Insulation Adhesive applied in min 1/4"- 1/2" wide ribbons spaced 12" o.c. to the vapor barrier or deck. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side face down.

Primer: Prime SECUROCK Gypsum-Fiber Roof Board insulation board with ASTM D-41 asphalt primer at 1 gallon per square

Base/Ply Sheet: One or more plies of HPR Torch Base Sheet torch applied onto top insulation layer.

Membrane: One ply of StressPly IV Plus, StressPly IV Plus UV Mineral or StressPly IV Plus Mineral torch applied.



Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal/sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.

Maximum Design Pressure:

-70 psf. (without Vapor Barrier) (See General Limitation #9)
-220 psf. (with Vapor Barrier) (See General Limitation #9)



Membrane Type: SBS/SIS/SEBS

Deck Type 3I: Concrete Decks, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(3): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

Vapor Barrier: 0.045" thick VaporSmart SA, self-adhered with a 3-inch lap primed with SA Primer at a rate of
(Optional) 0.5 gal./sq.

One or more layers of the following insulations:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
H-Shield Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer (Optional):</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard with Primed Red Coating, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board Minimum ½" thick	N/A	N/A

Note: All insulation shall be adhered to the substrate in ½" to ¾" wide beads 12" o.c. of Insul-Lock HR, Millennium One Step Foamable Adhesive, or Millennium One Step Green Foamable Adhesive. 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 installed as the final membrane substrate.

Base/Ply: One or more plies of FlexBase 80, FlexBase Plus 80, FlexBase E 80, StressBase 80, or StressBase 120 adhered with Green-Lock Plus Membrane Adhesive applied at a rate of 2-2.5 gal/sq.

Note: StressBase 80 and StressBase 120 shall not used with Structodek High Density Fiberboard with Primed Red Coating or DEXcell FA Glass Mat Roof Board.

Membrane: One ply of StressPly Max FR Mineral adhered with Green-Lock Plus Membrane Adhesive applied at a rate of 2-2.5 gal/sq.



Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. One coat of Garla-Block 2K applied at a rate of 0.5 gal./sq. Apply two coats of Cool-Sil HB or Cool-Sil SG at a rate of 2.0 gal./sq./coat.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal./sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.
9. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.

Maximum Design**Pressure:**

-67.5 psf. (See General Limitation #9)



Membrane Type: SBS/SIS/SEBS
Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(4): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
H-Shield Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard with Primed Red Coating, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board Minimum ½" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in ½" to ¾" wide beads 6" o.c. of Insul-Lock HR. 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 installed as the final membrane substrate.

Base/Ply: One or more plies of FlexBase Plus 80, StressBase 80 adhered with Green-Lock Plus Membrane Adhesive applied at a rate of 2-2.5 gal/sq.

Note: StressBase 80 not used with Structodek High Density Fiberboard with Primed Red Coating or DEXcell FA Glass Mat Roof Board.

Membrane: One ply of StressPly Max FR Mineral, FlexBase 80, OptiMax, StressPly, StressPly EUV, StressPly EUV FR Mineral, StressPly FR Mineral, StressPly Legacy, StressPly Legacy FR Mineral, StressPly Max, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80, VersiPly Mineral adhered with WeatherKing adhesive applied at a rate of 2-2.5 gal/sq.
 Or
 One ply of StressPly Legacy adhered with Garlastic KM Plus applied at a rate of 25 lbs./sq.
 Or
 StressPly EUV, StressPly EUV FR Mineral, StressPly EUV Mineral, StressPly FR Mineral, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80, VersiPly Mineral adhered hot asphalt at a rate of 25 lbs/sq.
 Or
 One ply of StressPly Max FR Mineral adhered with Green-Lock Plus Membrane Adhesive applied at a rate of 2-2.5 gal/sq.



Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal./sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.

**Maximum Design
Pressure:**

-70.0 psf. (See General Limitation #9)



Membrane Type: SBS/SIS/SEBS
Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(5): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

Vapor Barrier: 0.045" thick VaporSmart SA, self-adhered with a 3-inch lap primed with SA Primer at a rate of
(Optional) 0.5 gal./sq.

Thermal Barrier: Min. ½" SECUROCK Gypsum-Fiber Roof Board or DensDeck Prime shall be adhered to the
(Optional) substrate in ½" to ¾" wide beads 12" o.c. of Insul-Lock HR, Millennium One Step Foamable, or Millennium One Step Green Foamable Adhesive.

One or more layers of the following insulations:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
H-Shield Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer (Optional):</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
Structodek High Density Fiberboard with Primed Red Coating, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board Minimum ½" thick	N/A	N/A

Note: All insulation shall be adhered to the substrate in ½" to ¾" wide beads 12" o.c. of Insul-Lock HR, Millennium One Step Foamable, or Millennium One Step Green Foamable Adhesive. 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 installed as the final membrane substrate.

Base/Ply: One or more plies of FlexBase 80, FlexBase Plus 80, FlexBase E 80, StressBase 80, or StressBase 120 adhered with Green-Lock Plus Membrane Adhesive applied at a rate of 2-2.5 gal/sq.

Note: StressBase 80 and StressBase 120 not used with Structodek High Density Fiberboard with Primed Red Coating or DEXcell FA Glass Mat Roof Board.

Membrane: One ply of StressPly Max FR Mineral adhered with Green-Lock Plus Membrane Adhesive applied at a rate of 2-2.5 gal/sq.



Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal./sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.

**Maximum Design
Pressure:**

-70.0 psf. (See General Limitation #9)



Membrane Type: SBS/SIS/SEBS
Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(6): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ENRGY 3, H-Shield Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum 0.5" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in ½" to ¾" wide beads 12" o.c. of Insul-Lock HR. 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 installed as the final membrane substrate.

Base/Ply: Two or more plies of HPR Glasfelt, or HPR Polyscrim Plus adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq.
 Or
 One or more plies of HPR Premium Glasbase or HPR Tri-Base Premium adhered with Weatherking or Weatherking Plus WC applied at 2-2.5 gal./sq.
 Or
 One ply of HPR Torch Base Sheet torch applied to coverboard.

Membrane: One ply of StressPly FR Mineral, StressPly Plus, StressPly Plus FR Mineral, StressPly EUV FR Mineral or VersiPly Mineral adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq. or with Weatherking or Weatherking Plus WC applied at 2-2.5 gal./sq.
 Or
 One ply of StressPly IV Plus, StressPly IV Plus UV Mineral or StressPly IV Plus Mineral torch applied.



Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal./sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.

**Maximum Design
Pressure:**

-75 psf. (See General Limitation #9)



Membrane Type: SBS/SIS/SEBS
Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(7): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
H-Shield Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in ½" to ¾" wide beads 12" o.c. of Insul-Lock HR. 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 installed as the final membrane substrate.

Base/Ply: One or more plies of FlexBase Plus 80 adhered with Green-Lock Plus or WeatherKing adhesive applied at a rate of 2-2.5 gal/sq.

Membrane: One ply of StressPly Max FR Mineral, FlexBase 80, OptiMax, StressPly, StressPly EUV, StressPly EUV FR Mineral, StressPly FR Mineral, StressPly Legacy, StressPly Legacy FR Mineral, StressPly Max, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80, VersiPly Mineral adhered with WeatherKing adhesive applied at a rate of 2-2.5 gal/sq.
 Or
 One ply of StressPly Legacy adhered with Garlastic KM Plus applied at a rate of 25 lbs./sq.
 Or
 StressPly EUV, StressPly EUV FR Mineral, StressPly EUV Mineral, StressPly FR Mineral, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80, VersiPly Mineral adhered with hot asphalt at a rate of 25 lbs/sq.
 Or
 One ply of StressPly Max FR Mineral adhered with Green-Lock Plus Membrane Adhesive applied at a rate of 2-2.5 gal/sq.



Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal/sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.

**Maximum Design
Pressure:**

-80 psf. (See General Limitation #9)



Membrane Type: SBS/SIS/SEBS
Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(8): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime Minimum ¼" thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in ½" to ¾" wide beads 12" o.c. of Insul-Lock HR. 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 installed as the final membrane substrate.

Base Sheet: One or more plies of FlexBase Plus 80, StressBase 80 adhered with Green-Lock Plus Membrane Adhesive or WeatherKing adhesive applied at a rate of 2-2.5 gal/sq.

Note: StressBase 80 not used with DEXcell FA Glass Mat Roof Board.

Ply Sheet: One or more plies of StressBase 80 adhered with Weatherking Adhesive applied at a rate of 2-2.5 gal./sq.

Membrane: One ply of StressPly Max FR Mineral, FlexBase 80, OptiMax, StressPly, StressPly EUV, StressPly EUV FR Mineral, StressPly FR Mineral, StressPly Legacy, StressPly Legacy FR Mineral, StressPly Max, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80, VersiPly Mineral adhered with WeatherKing adhesive applied at a rate of 2-2.5 gal/sq.
 Or
 One ply of StressPly Legacy adhered with Garlastic KM Plus applied at a rate of 25 lbs./sq.
 Or
 StressPly EUV, StressPly EUV FR Mineral, StressPly EUV Mineral, StressPly FR Mineral, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80, VersiPly Mineral adhered hot asphalt at a rate of 25 lbs/sq.
 Or
 One ply of StressPly Max FR Mineral adhered with Weatherking Adhesive applied at a rate of 2-2.5 gal./sq.



Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal./sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.

**Maximum Design
Pressure:**

-92.5 psf. (See General Limitation #9)



Membrane Type: SBS/SIS/SEBS
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(9): One or more layers of insulation adhered to deck with approved asphalt or adhesive

All General and System Limitations apply.

One or more layers of any of the following insulations.

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ENRGY 3, ENRGY 3 25 PSI, ISO-95+ GL, H-Shield Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation, Retro-Fit Board Minimum ½" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered to the deck in full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./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 installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base/Ply Sheet: Two or more plies of HPR Glasfelt, or HPR Polyscrim Plus adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq.

Membrane: One ply of StressPly FR Mineral, StressPly Plus, StressPly Plus FR Mineral, StressPly EUV FR Mineral or VersiPly Mineral adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq.



Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal./sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal./sq./coat.
8. StrataMax White applied in two coats at 1 gal./sq./coat.

**Maximum Design
Pressure:**

-45 psf. (for all other applications) (See General Limitation #9)

-237.5 psf. (for minimum 1.5" thick ENRGY 3 followed by minimum ½" Structodek High Density Fiberboard applied in hot asphalt with asphalt applied membranes.) (See General Limitation #9)



Membrane Type:	SBS/SIS/SEBS
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	Min. 2500 psi structural concrete or concrete plank
System Type A(10):	One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
H-Shield Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in ½" to ¾" wide beads 12" o.c. of Insul-Lock HR. 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 installed as the final membrane substrate.

Base/Ply: One or more plies of FlexBase Plus 80 adhered with Green-Lock Plus Membrane Adhesive applied at a rate of 2-2.5 gal/sq.

Membrane: One ply of StressPly Max FR Mineral, FlexBase 80, OptiMax, StressPly, StressPly EUV, StressPly EUV FR Mineral, StressPly FR Mineral, StressPly Legacy, StressPly Legacy FR Mineral, StressPly Max, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80, VersiPly Mineral adhered with WeatherKing adhesive applied at a rate of 2-2.5 gal/sq.

Or

One ply of StressPly Legacy adhered with Garlastic KM Plus applied at a rate of 25 lbs./sq.

Or

StressPly EUV, StressPly EUV FR Mineral, StressPly EUV Mineral, StressPly FR Mineral, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80, VersiPly Mineral adhered hot asphalt at a rate of 25 lbs/sq.

Or

One ply of StressPly Max FR Mineral adhered with Green-Lock Plus Membrane Adhesive applied at a rate of 2-2.5 gal/sq.



Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes.

Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal./sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.

**Maximum Design
Pressure:**

-217.5 psf. (See General Limitation #9)



Membrane Type: SBS/SIS/SEBS
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(11): One or more layers of insulation adhered to deck with approved asphalt or adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations.

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ENRGY 3, ENRGY 3 25 PSI, ISO-95+ GL Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation Minimum ½” thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered to the deck in full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./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 installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base/Ply Sheet: Two or more plies HPR Glasfelt adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq. (Not for use over DensDeck or DensDeck Prime)
Or
One ply of HPR Torch Base Sheet torch applied to coverboard. (Not for use over Structodek)

Membrane: One ply of StressPly IV Plus, StressPly IV Plus UV Mineral or StressPly IV Plus Mineral torch applied.
Or
One ply of StressPly, StressPly EUV, StressPly EUV FR Mineral, StressPly EUV Mineral, StressPly FR Mineral, StressPly Mineral, StressPly Plus, StressPly Plus FR Mineral, VersiPly 60, VersiPly 80, or VersiPly Mineral adhered hot asphalt at a rate of 25 lbs/sq.
Or
One ply of Stressply, FlexBase 80, OptiMax, StressPly EUV, StressPly EUV FR Mineral, StressPly FR Mineral, StressPly Legacy, StressPly Legacy FR Mineral, StressPly Max, StressPly Max FR Mineral, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80, VersiPly Mineral adhered with WeatherKing adhesive applied at a rate of 2-2.5 gal/sq.
Or



OptiMax FR Mineral, StressPly EUV FR Mineral, StressPly Legacy FR Mineral, StressPly Max, StressPly Max FR Mineral, VersiPly mineral adhered with Green-Lock Plus Membrane Adhesive applied at a rate of 2-2.5 gal/sq.

Or

StressPly Legacy adhered with Garlastic KM Plus membrane adhesive applied at a rate of 25 lbs./sq.

Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal/sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.

Maximum Design Pressure

-237.5 psf. (for minimum 1.5" thick ENRGY 3 followed by minimum ¼" DensDeck, ¼" DensDeck Prime or minimum ½" Structodek High Density Fiberboard applied in hot asphalt with asphalt applied membranes.) (See General Limitation #9)



Membrane Type: SBS/SIS/SEBS
Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(12): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ENRGY 3, H-Shield Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation Minimum 0.25" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in ½" to ¾" wide beads 12" o.c. of Insul-Lock HR. 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 installed as the final membrane substrate.

Base/Ply: Two or more plies of HPR Glasfelt, or HPR Polyscrim Plus adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq.
 Or
 One or more plies of HPR Premium Glasbase or HPR Tri-Base Premium adhered with Weatherking or Weatherking Plus WC applied at 2-2.5 gal./sq.

Membrane: One ply of StressPly FR Mineral, StressPly Plus, StressPly Plus FR Mineral, StressPly EUV FR Mineral or VersiPly Mineral adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq. or with Weatherking or Weatherking Plus WC applied at 2-2.5 gal./sq.



Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes.

Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal./sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.

Maximum Design Pressure:

-127.5 psf. (See General Limitation #9)



Membrane Type: SBS/SIS/SEBS
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(13): One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

Deck Primer: Deck is primed with ASTM D 41 primer.

One or more layers of any of the following insulations.

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ISO 95+ GL, H-Shield, ENRGY 3, ENRGY 3 25 PSI, Ultra-Max, Multi-Max FA-3 Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A
Fesco Board, Retro-Fit Board Minimum ¾" thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered in full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./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 installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base/Ply Sheet: Two or more plies of HPR Glasfelt, or HPR Polyscrim Plus adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq. (Not for use with DensDeck or DensDeck Prime)

Or

One or more plies of HPR Premium Glasbase or HPR Tri-Base Premium adhered with Weatherking or Weatherking Plus WC applied at 2-2.5 gal./sq.

Or

One ply of HPR TorchBase torch applied to coverboard. (Not for use over Structodek or Fesco Board)

Or

Two or more plies of HPR Glasfelt, or HPR Polyscrim Plus adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq. (Not for use with DensDeck or DensDeck Prime)



Membrane:	One ply of StressPly FR Mineral, StressPly Plus, StressPly Plus FR Mineral, StressPly EUV FR Mineral or VersiPly Mineral adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq. or with Weatherking or Weatherking Plus WC applied at 2-2.5 gal./sq.
	Or
	One ply of StressPly IV Plus, StressPly IV Plus UV Mineral or StressPly IV Plus Mineral torch applied.
Surfacing:	Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Apply one of the below:
	1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive. 2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive. 3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat. 4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal./sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive. 5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq. 6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq. 7. StrataMax Gray applied in two coats at 1 gal/sq./coat. 8. StrataMax White applied in two coats at 1 gal/sq./coat.
Maximum Design Pressure:	-142.5 psf. {Weatherking or Weatherking Plus WC applied roof cover} (See General Limitation #9) -157.5 psf. {hot asphalt or torch applied roof cover}{See General Limitation #9}



Membrane Type: SBS/SIS/SEBS
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(14): One or more layers of insulation adhered with approved asphalt or adhesive.

All General and System Limitations apply.

Deck Primer: Deck is primed with ASTM D 41 primer.
Vapor Barrier: One ply of HPR Torch Base Sheet, heat welded to deck.

One or more layers of any of the following insulations.

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ISO 95+ GL, H-Shield, ENRGY 3, ENRGY 3 25 PSI, Ultra-Max, Multi-Max FA-3 Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime Minimum ½" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of vapor barrier or insulation. All insulation shall be adhered to the vapor barrier in ¾" – 1" wide ribbons of Insul-Lock HR spaced 12" o.c. 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 installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base/Ply Sheet: Two or more plies of HPR Glasfelt, or HPR Polyscrim Plus adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq.
 Or
 One or more plies of HPR Premium Glasbase or HPR Tri-Base Premium adhered with Weatherking or Weatherking Plus WC applied at 2-2.5 gal./sq.
 Or
 One ply HPR Torch Base Sheet torch applied.

Membrane: One ply of StressPly FR Mineral, StressPly Plus, StressPly Plus FR Mineral, StressPly EUV FR Mineral or VersiPly Mineral adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq. or with Weatherking or Weatherking Plus WC applied at 2-2.5 gal./sq.
 Or
 One ply of StressPly IV Plus, StressPly IV Plus UV Mineral or StressPly IV Plus Mineral torch applied.



Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes.

Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal./sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.

**Maximum Design
Pressure:**

-150 psf. (See General Limitation #9)



Membrane Type: SBS/SIS/SEBS
Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(15): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
H-Shield Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in ½" to ¾" wide beads 6" o.c. of Insul-Lock HR. 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 installed as the final membrane substrate.

Base/Ply: One or more plies of FlexBase Plus 80, StressBase 80 adhered with Green-Lock Plus Membrane Adhesive applied at a rate of 2-2.5 gal/sq.

Note: StressBase 80 not used with DEXcell FA Glass Mat Roof Board.

Membrane: One ply of StressPly Max FR Mineral, FlexBase 80, OptiMax, StressPly, StressPly EUV, StressPly EUV FR Mineral, StressPly FR Mineral, StressPly Legacy, StressPly Legacy FR Mineral, StressPly Max, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80, VersiPly Mineral adhered with WeatherKing adhesive applied at a rate of 2-2.5 gal/sq.
 Or
 One ply of StressPly Legacy adhered with Garlastic KM Plus applied at a rate of 25 lbs./sq.
 Or
 StressPly EUV, StressPly EUV FR Mineral, StressPly EUV Mineral, StressPly FR Mineral, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80, VersiPly Mineral adhered hot asphalt at a rate of 25 lbs/sq.
 Or
 One ply of StressPly Max FR Mineral adhered with Green-Lock Plus Membrane Adhesive applied at a rate of 2-2.5 gal/sq.



Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal/sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.

**Maximum Design
Pressure:**

-257.5 psf. (See General Limitation #9)



Membrane Type: SBS/SIS/SEBS
Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(16): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
H-Shield Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in ½" to ¾" wide beads 12" o.c. of Insul-Lock HR. 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 installed as the final membrane substrate.

Base/Ply: One or more plies of FlexBase Plus 80 adhered with Green-Lock Plus Membrane Adhesive applied at a rate of 2-2.5 gal/sq.

Membrane: One ply of StressPly Max FR Mineral, FlexBase 80, OptiMax, StressPly, StressPly EUV, StressPly EUV FR Mineral, StressPly FR Mineral, StressPly Legacy, StressPly Legacy FR Mineral, StressPly Max, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80, VersiPly Mineral adhered with WeatherKing adhesive applied at a rate of 2-2.5 gal/sq.
 Or
 One ply of StressPly Legacy adhered with Garlastic KM Plus applied at a rate of 25 lbs./sq.
 Or
 StressPly EUV, StressPly EUV FR Mineral, StressPly EUV Mineral, StressPly FR Mineral, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80, VersiPly Mineral adhered hot asphalt at a rate of 25 lbs/sq.
 Or
 One ply of StressPly Legacy FR Mineral adhered with Green-Lock Plus Membrane Adhesive applied at a rate of 2-2.5 gal/sq.



Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal./sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.

**Maximum Design
Pressure:**

-275 psf. (See General Limitation #9)



Membrane Type: SBS/SIS/SEBS
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2500 psi concrete or concrete plank
System Type A(17): All layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
H-Shield Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: All layers of insulation adhered in Insul-Lock HR applied in ¾"-1” wide beads spaced 6” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of StressBase 80 adhered with Green-Lock Plus Membrane Adhesive at a rate of 2.0 – 2.5 gal./sq.

Cap Sheet: One ply of StressPly Plus, StressPly Plus FR Mineral, StressPly EUV FR Mineral or VersiPly Mineral adhered with Green-Lock Plus Membrane Adhesive at a rate of 2 – 2.5 gal./sq. onto base sheet.

Surfacing: Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal/sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.

Maximum Design -290 psf. (See General Limitation #9)



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Pressure:

Membrane Type: SBS/SIS/SEBS
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2500 psi concrete or concrete plank
System Type A(18): All layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

<u>Insulation Layer:</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: All layers of insulation adhered in Insul-Lock HR applied in ¾"-1" wide beads spaced 3" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of StressBase 80 adhered with Green-Lock Plus Membrane Adhesive at a rate of 2 – 2.5 gal./sq.

Cap Sheet: One ply of StressPly Plus, StressPly Plus FR Mineral, StressPly EUV FR Mineral or VersiPly Mineral adhered with Green-Lock Plus Membrane Adhesive at a rate of 2 – 2.5 gal./sq.
Or
One ply of StressPly, StressBase 80, OptiMax FR Mineral, StressPly EUV, StressPly EUV FR Mineral, StressPly Legacy FR Mineral, StressPly Max, StressPly Max FR Mineral, StressPly Plus FR Mineral, VersiPly Mineral adhered with Green-Lock Plus Membrane Adhesive applied at a rate of 2-2.5 gal/sq.
Or
One ply of StressPly, StressPly EUV, StressPly EUV FR Mineral, StressPly EUV Mineral, StressPly FR Mineral, StressPly Mineral, StressPly Plus, StressPly Plus FR Mineral, VersiPly 60, VersiPly 80, VersiPly Mineral adhered with hot asphalt at a rate of 25 lbs/sq.
Or
One ply of FlexBase 80, OptiMax, StressBase 80, StressPly, StressPly EUV, StressPly EUV FR Mineral, StressPly FR Mineral, StressPly Legacy, StressPly Legacy FR Mineral, StressPly Max, StressPly Max FR Mineral, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80, VersiPly Mineral adhered with WeatherKing adhesive applied at a rate of 2-2.5 gal/sq.
Or
One ply of StressPly Legacy adhered with Green-Lock Plus Membrane Adhesive applied at a rate of 2-2.5 gal/sq.



Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal./sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.

Maximum Design Pressure:

-452.5 psf. (See General Limitation #9)



Membrane Type:	SBS/SIS/SEBS
Deck Type 3I:	Concrete, Insulated
Deck Description:	Min. 2500 psi concrete or concrete plank
System Type A(19):	All layers of insulation set in approved asphalt or adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations.

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ISO 95+ GL, H-Shield Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation Minimum ½” thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation except for insulation adhesive. All insulation shall be adhered to the deck in full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq., or in ½” – ¾” wide beads of Insul-Lock HR spaced 12” o.c. 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 installed as the final membrane substrate.

Base/Ply Sheet:	One ply of StressBase 80, StressBase 120, FlexBase 80, FlexBase Plus 80, or FlexBase E 80 base sheet adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq. or Green-Lock Plus Membrane Adhesive applied at 2-2.5 gal./sq.
Membrane:	One ply of OptiMax FR Mineral, StressPly FR Mineral, StressPly Plus, StressPly Plus FR Mineral, StressPly EUV FR Mineral or VersiPly Mineral adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq. or Green-Lock Plus Membrane Adhesive applied at 2-2.5 gal./sq.



Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal./sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.

**Maximum Design
Pressure:**

-322.5 psf. (See General Limitation #9)



Membrane Type: SBS/SIS/SEBS
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2500 psi concrete or concrete plank
System Type A(20): All layers of insulation set in approved asphalt or adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations.

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Wood Fiber Minimum ½" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered to the deck in full mopping of approved asphalt at a rate of 25 lbs./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 installed as the final membrane substrate.

Base/Ply Sheet: StressBase 80 adhered with hot asphalt at 25 lbs/sq.

Membrane: StressPly Legacy FR Mineral or StressPly Legacy adhered with hot asphalt at 25 lbs/sq

Surfacing: Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. One coat of Garla-Block 2K applied at a rate of 0.5 gal./sq. Apply two coats of Cool-Sil HB or Cool-Sil SG at a rate of 2.0 gal./sq./coat.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal/sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.
9. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.

Maximum Design Pressure: -82.5 psf. (See General Limitation #9)



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Membrane Type:	SBS/SIS/SEBS
Deck Type 3I:	Concrete, Insulated
Deck Description:	Min. 2500 psi concrete or concrete plank
System Type B(1):	Base layer of insulation mechanically fastened, top layer adhered with approved asphalt or adhesive.

All General and System Limitations apply.

One or more layers of the following insulations:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ENRGY 3, H-Shield Minimum 2" thick	4, 5 & 3; 6, 8 & 11; 9 & 10	1:1 ft²

Note: Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime Minimum ½" thick	N/A	N/A

Note: Top layer of insulation shall be adhered in full mopping of approved hot asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq. or with Insul-Lock HR applied in ¾"- 1" wide ribbons spaced 6" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side face down.

Base/Ply Sheet: Two or more plies of Glasfelt adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq. **(only to be applied over DensDeck Prime when it's adhered in Insul-Lock HR)**
Or
One ply of HPR Torch Base Sheet torch applied to coverboard.

Membrane: One ply of StressPly Max FR Mineral, FlexBase 80, OptiMax, StressPly, StressPly EUV, StressPly EUV FR Mineral, StressPly FR Mineral, StressPly Legacy, StressPly Legacy FR Mineral, StressPly Max, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80, VersiPly Mineral adhered with WeatherKing adhesive applied at a rate of 2-2.5 gal/sq.
Or
One ply of StressPly Legacy adhered with Garlastic KM Plus applied at a rate of 25 lbs./sq.
Or



StressPly EUV, StressPly EUV FR Mineral, StressPly EUV Mineral, StressPly FR Mineral, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80, VersiPly Mineral adhered hot asphalt at a rate of 25 lbs/sq.

Or

One ply of StressPly FR Mineral, StressPly Plus, StressPly Plus FR Mineral, StressPly EUV FR Mineral or VersiPly Mineral adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq.

Or

One ply of StressPly IV Plus, StressPly IV Plus UV Mineral or StressPly IV Plus Mineral torch applied.

Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes.

Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal./sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.

**Maximum Design
Pressure:**

-112.5 psf. (See General Limitation #7)



Membrane Type: SBS/SIS/SEBS
Deck Type 3: Concrete Decks, Non-insulated
Deck Description: 2500 psi structural concrete or concrete plank.
System Type F(1): Roof cover adhered with approved asphalt.

All General and System Limitations apply.

Base/Ply Sheet: Two or more plies of HPR Glasfelt, or HPR Polyscrim Plus adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq.

Membrane: One ply of StressPly FR Mineral, StressPly Plus, StressPly Plus FR Mineral, StressPly EUV FR Mineral or VersiPly Mineral adhered with a full mopping of approved asphalt, HPR All Temp Asphalt or Garlastic KM Plus within the EVT range and at a rate of 25 lbs./sq.

Or

One ply of StressPly, StressPly EUV, StressPly EUV FR Mineral, StressPly EUV Mineral, StressPly FR Mineral, StressPly Mineral, StressPly Plus, StressPly Plus FR Mineral, VersiPly 60, VersiPly 80, or VersiPly Mineral adhered hot asphalt at a rate of 25 lbs/sq.

Or

One ply of Stressply, FlexBase 80, OptiMax, StressPly EUV, StressPly EUV FR Mineral, StressPly FR Mineral, StressPly Legacy, StressPly Legacy FR Mineral, StressPly Max, StressPly Max FR Mineral, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80, VersiPly Mineral adhered with WeatherKing adhesive applied at a rate of 2-2.5 gal/sq.

Or

OptiMax FR Mineral, StressPly EUV FR Mineral, StressPly Legacy FR Mineral, StressPly Max, StressPly Max FR Mineral, VersiPly mineral adhered with Green-Lock Plus Membrane Adhesive applied at a rate of 2-2.5 gal/sq.

Or

StressPly Legacy adhered with Garlastic KM Plus membrane adhesive applied at a rate of 25 lbs./sq.



Surfacing:

Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Apply one of the below:

1. Black Knight Cold applied at 4-5 gal./sq.. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
2. WeatherScreen applied at 4-5 gal./sq. Broadcast 400 lbs./sq. (181 kg/9.29m²) of clean roof gravel immediately into the wet adhesive.
3. Two coats of Garla-Brite applied at 0.5 gal./sq./coat.
4. Green-Lock Plus Membrane Adhesive applied at 4-5 gal./sq. Broadcast 400 lbs./sq. of clean roof gravel immediately into the wet adhesive.
5. One coat of Pyramic, Pyramic Plus LO, Pyramic LO Base Coat or Pyramic Base applied at 1 gal/sq followed by one coat of Pyramic applied at 1 gal/sq.
6. One coat of Pyramic Plus LO Base Coat applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
7. StrataMax Gray applied in two coats at 1 gal/sq./coat.
8. StrataMax White applied in two coats at 1 gal/sq./coat.

**Maximum Design
Pressure:**

-375 psf. (See General Limitation #9.)



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; calculations shall be signed and sealed by a Florida Registered Engineer, 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 sidelap 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 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.)**
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



NOA No.: 26-0421.04
Expiration Date: 12/03/28
Approval Date: 07/16/26
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