



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908**

NOTICE OF ACCEPTANCE (NOA)

**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 by the BCCO and accepted by the Building Code and Product Review Committee 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 BCCO (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. BCCO reserves the right to revoke this acceptance, if it is determined by BCCO 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.

DESCRIPTION: Garland Built-Up Roofing Systems Over Recover Decks

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA No. 01-0816.12 and consists of pages 1 through 22.

The submitted documentation was reviewed by Jorge L. Acebo.



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ROOFING ASSEMBLY NOTICE OF ACCEPTANCE

Category: Roofing
Sub-Category: Built-Up Roofing

Material: Fiberglass/Organic
Deck Type: Recover
Maximum Design Pressure See specific deck type
Fire Classification: See General Limitation #1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
HPR Mineral Surface Capsheet	Roll weight: 85 lbs.	proprietary	Mineral capsheet with polyester mat for use in conventional built-up roofing.
HPR Smooth Surface Capsheet	Roll weight: 85 lbs.	proprietary	Smooth capsheet with polyester mat for use in conventional built-up roofing.
HPR TriBase	36" x 72' 72 lbs.	proprietary	Double asphalt coated, polyester/fiberglass/polyester scrim reinforced base sheet
HPR Glasbase	36" x 108' 75 lbs.	ASTM D 4601, Type II	Type II, asphalt coated fiberglass base sheet.
HPR Premium Glasbase	36" x 72' 75 lbs.	ASTM D 4601, Type II	Type II, asphalt coated fiberglass base sheet.
HPR Glasfelt	36" x 180'; roll weight: 95 lbs.	ASTM D 2178	Type IV asphalt impregnated glass felt for use in conventional and modified built-up roof systems.
HPR Premium Glasfelt	36" x 180'; roll weight: 95 lbs.	ASTM D 2178	Type VI asphalt impregnated glass felt for use in conventional and modified bitumen built-up roofing.
VersiPly 40	39" x 68' 7"; 40 mil	ASTM D 6163, Grade S	Smooth surfaced, SBS modified, fiberglass scrim reinforced roofing membrane.
Gravitop Coating	5, 55 gallon	ASTM D 2824	Roof coating.
Garla-Bond Asphalt, Garland Flashing Bond, Ultra-Shield Flashing Cement, Ultra-Shield Plastic Roof Cement	5 gallon	ASTM D 4586	Trowel grade, asphalt based roofing mastic for use in repair and patching against leaks in built-up asphalt roofs.



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<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Garla-Flex V.O.C., Ultra-Shield Rubberized Cement	2, 5 gallon pail	ASTM D 4586	Elastomeric, asphaltic compound formulated from a special weather and ozone-resistant thermoplastic rubber, plasticizing oils and bitumen. Asbestos free.
Garla-Shield, Ultra-Shield Fibered Emulsion	5, 55 gallon	ASTM D 1227, type IV	Asphalt emulsion roof coating.
Weatherking Weatherking Plus	5, 55 gallon	ASTM D 3019, type III	Cold process roof coating and adhesive.
Ultra-Shield Metal Rust Proofing	5, 55 gallon	ASTM D 3019, type III	Asbestos-free, petroleum compound modified with polymers and corrosion inhibitors.
Weatherking FR Top Coat, Ultra-Shield Built-Up Mastic FR	5, 55 gallon	ASTM D 4479, type I	Asbestos-free, heavy-bodied, fiber-reinforced, fire-rated asphalt roof coating
Garla-Brite	5 gallon	ASTM D 2824, type I	Aluminum roof coating.
Energizer K Plus FR	5, 55 gallon	ASTM D 4479, type I	Multipurpose, rubberized, liquid waterproofing membrane.
GarlaPrime VOC, Ultra-Shield Primer	5, 55 gallon	ASTM D 41	Non-fibered, quick drying asphalt roof primer
Silver-Shield	5, 55 gallon	ASTM D 2824, type III	High solids, aluminized roof coating.
Pyramic	5, 55 gallon		White reflective roof coating.
Black Knight or Black Knight LV Flood Coat	70 lb. keg	Proprietary	Polymer modified coal tar pitch.



APPROVED FASTENERS:

TABLE 2

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Dekfast Fasteners #12, #14 & #15	Insulation fastener for wood, steel and concrete decks		Construction Fasteners Inc.
2.	Omega	Insulation fastener for wood and steel		Construction Fasteners Inc.
3.	Dekfast Hex Plate	Galvalume hex stress plate.	2 7/8" x 3 1/4"	Construction Fasteners Inc.
4.	Dekfast Lock Plate	Polypropylene locking plate.	3" x 3 1/4"	Construction Fasteners Inc.
5.	#12 Roofgrip Fasteners	Insulation fastener for wood and steel.		ITW Buildex Corp.
6.	Hextra Plus	Pre-assembled Insulation fastener and plate		ITW Buildex Corp.
7.	Metal Plate	Galvalume stress plate.	3" round 3" square	ITW Buildex Corp.
8.	Gearlok Plastic Plate	Polypropylene round plate	3.2"	ITW Buildex Corp.
9.	UltraFast	Insulation fastener for wood and steel.		Johns Manville
10.	Glasfast Plate	Red polypropylene copolymer round plate	3" round	Johns Manville
11.	Olympic Fastener #12, #14 & #15	Insulation fastener		Olympic Manufacturing Group, Inc.
12.	Olympic Fastener ASAP	Pre-assembled Insulation fastener and plate		Olympic Manufacturing Group, Inc.
13.	NTB Magnum w/2" head	Glass reinforced Nylon insulation fastener for gypsum & CWF decks.		Olympic Manufacturing Group, Inc.
14.	Olympic Lite-Deck	Carbon Steel CR-10 coating insulation fastener for gypsum & CWF decks.		Olympic Manufacturing Group, Inc.
15.	NTB Plastic plate	Polypropylene plastic plate	3" round	Olympic Manufacturing Group, Inc.



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APPROVED FASTENERS:

TABLE 2

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
16.	Lite-Deck Plate	3" round galvalume AZ55 steel plate	3" round	Olympic Manufacturing Group, Inc.
17.	Olympic Polypropylene	Polypropylene plastic plate	3.25" round	Olympic Manufacturing Group, Inc.
18.	Olympic G-2	3.5" round galvalume AZ55 steel plate	3.5" round	Olympic Manufacturing Group, Inc.
19.	Olympic Standard	3" round galvalume AZ50 steel plate	3" round	Olympic Manufacturing Group, Inc.
20.	Insul-Fixx Fastener	Insulation fastener for steel and wood decks		SFS Stadler, Inc.
21.	System ES-1	Pre-assembled Insulation fastener and plate		SFS Stadler, Inc.
22.	Insul-Fixx S Plate	3" round galvalume AZ50 steel plate	3" round	SFS Stadler, Inc.
23.	Insul-Fixx P Plate	3" round polyethylene stress plate	3" round	SFS Stadler, Inc.
24.	Tru-Fast	Insulation fastener for steel and wood decks		The Tru-Fast Corp.
25.	Tru-Fast Plates	3" round galvalume AZ55 steel plate	3" round	The Tru-Fast Corp.
26.	Tru-Fast Plates	Polyethylene plastic plate	3" round	The Tru-Fast Corp.

EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Dynatech Engineering Corporation	#4530.05.95-1	Wind Uplift Classification	5/31/95



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<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Factory Mutual Research Corporation	J.I. IVOA7.AM	Class I Fire: I-60 and I-90	02/21/95
	J.I. 1B4A7.AM	Windstorm Classification □	12/15/97
	J.I. 4B4A9.AM		12/31/97
	J.I. 0Y5A6.AM		09/08/97
	J.I. 3D3A5.AM		09/15/98
	J.I. 3004392		09/21/99
	J.I. 0D9A0.AM		05/02/00
	J.I. 3004907		05/16/00
	J.I. 3009117		12/21/00
Trinity Engineering, Inc.	#4532.12.95-1	Wind Uplift Classification (6" x 6" Adhesion Testing)	21/31/95
PRI Asphalt Technologies, Inc.	GRD-03-02-01	Physical Properties	01/07/98
	GRD-05-02-01	ASTM D 5147	12/18/97
	GRD-06-02-01		01/09/98
Exterior Research & Design, LLC.	#4533.05.98-1	PA 114(J)	05/15/98



APPROVED ASSEMBLIES:

Deck Type 7I: Recover

Deck Description: wood/steel/concrete

System Type A(1): Anchor sheet mechanically attached; all layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

Anchor Sheet: *(Option #1-wood, steel or concrete decks only)* One ply of HPR GlasBase, HPR Premium GlasBase, HPR TriBase, GAFGLAS Stratavent, GS Flex-I-Glas Base, Malarkey #501, Tamko Glass-Base, Vapor-Chan or Base-N-Ply fastened to the deck using SFS #12 or HD Insulfixx S, Olympic #12 or HD with Olympic Standard Plates, or using Buildex Accutrac Fasteners or #14, #15 Roofgrip Fasteners and 3” Square Plates spaced 9” o.c. in a 4” lap and 9” o.c. in two staggered rows in the center of the sheet.

(Option #2 – steel or concrete decks only) One ply of HPR GlasBase, HPR Premium GlasBase, HPR TriBase, GAFGLAS Stratavent, JM PermaPly R, JM Dynabase, JM Ventsulation, Tamko Vapor-Chan, Intec Permavent or Intec FlexBase 60 fastened to the deck using Buildex Accutrac Fasteners or #14, #15 Roofgrip Fasteners and 3” Square Plates spaced 12” o.c. in a 4” lap and 12” o.c. in two staggered rows in the center of the sheet.

Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft ²
ACFoam II, E’NRG’Y-2, E’NRG’Y-2 Plus, IsoRoc, Multi-Max Minimum 1” thick	N/A	N/A
BP High Strength, FM-90 Traffic Top/High Density, GAFTEMP Fiberboard, GAFTEMP High Density, Roof Insulation Board, High Density Fiberboard, Fiber Base HD1, HD6, Structodek, Armor Board Regular, Esgard, Huebert Fiberboard, Kop-R Wood Fiber Minimum ½” thick	N/A	N/A
ConPerl, GAFTEMP Permalite, Fesco Board Minimum ¾” thick	N/A	N/A
Fiberglass Minimum 15/16” thick	N/A	N/A

Note: Existing roof shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the anchor sheet in full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs/100 ft² 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 Sheet: (Optional) HPR Glasbase or HPR Premium Glasbase adhered directly over the top layer of insulation with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. or with Weatherking Mastic or Weatherking Plus Mastic applied at 2½ gal./sq.

Ply Sheet: Two or more plies of HPR Glasbase, HPR Premium Glasbase, HPR Tribase, HPR Glasfelt, HPR Premium Glasfelt or approved ASTM D 2178 type IV or VI ply sheet adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. or with Weatherking Mastic or Weatherking Plus Mastic applied at 2½ gal./sq.

Cap Sheet: (Optional) HPR Mineral Surface Capsheet or VersiPly 40 adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. or with Weatherking Mastic or Weatherking Plus Mastic applied at 2½ gal./sq. HPR Smooth Surface Capsheet may be substituted when gravel surface is used as outlined below.

Surfacing: (Required if no mineral cap sheet is used) Install one of the following:

1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq. or in Black Knight Flood Coat or Black Knight LV Flood Coat at 70 lb/sq.
2. GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
3. Energizer FR applied at 3 gal./sq. with GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
4. Weatherking FR Top Coat applied at 2½ gal./sq. with GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
5. Weatherking FR Top Coat applied at 2½ gal./sq. with #11 roofing granules at 60 lb./sq.
6. Weatherking FR Top Coat applied at applied at 3 gal./sq. with roofing gravel applied at 400 lb./sq.

Maximu Design Pressure: -60 psf. (for insulations/ membranes in hot asphalt, See General Limitation #7.)
-45 psf (for membranes in Weatherking Mastic, See General Limitation #9.)



Deck Type 7I: Recover

Deck Description: wood/steel/concrete/lightweight concrete/cementitious wood fiber/gypsum

System Type A(2): All layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations:

Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft²
ACFoam II, E'NRG'Y-2, (Insta-Stick or Hot Asphalt) Minimum 1" thick	N/A	N/A
E'NRG'Y-2 Plus, ISORoc, Multi-Max (Hot Asphalt only) Minimum 1" thick	N/A	N/A
BP High Strength, FM-90 Traffic Top/High Density, GAFTEMP Fiberboard, GAFTEMP High Density, Roof Insulation Board, High Density Fiberboard, Fiber Base HD1, HD6, Structodek, Armor Board Regular, Esgard, Huebert Fiberboard, Kop-R Wood Fiber (Hot Asphalt only) Minimum ½" thick	N/A	N/A
Structodeck, GAFTEMP Recover Board, Retrofit Board (Insta-Stick or Hot Asphalt) Minimum ½" thick	N/A	N/A
ConPerl, GAFTEMP Permalite, Fesco Board (Hot Asphalt only) Minimum ¾" thick	N/A	N/A
Fiberglass (Hot Asphalt only) Minimum 1⁵/₁₆" thick	N/A	N/A
Dens Deck (Insta-Stick or Hot Asphalt) Minimum ¼" thick	N/A	N/A

Note: Existing roof shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the anchor sheet in full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs/100 ft² or in Insta-Stik Roofing Adhesive applied in continuous ¾" to 1" wide beads, 12" o.c. (primer optional). 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 Sheet: (Optional) HPR Glasbase or HPR Premium Glasbase adhered directly over the top layer of insulation with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. or with Weatherking Mastic or Weatherking Plus Mastic applied at 2½ gal./sq.



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- Ply Sheet:** Two or more plies of HPR Glasbase, HPR Premium Glasbase, HPR Tribase, HPR Glasfelt, HPR Premium Glasfelt or approved ASTM D 2178 type IV or VI ply sheet adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. or with Weatherking Mastic or Weatherking Plus Mastic applied at 2½ gal./sq.
- Cap Sheet:** (Optional) HPR Mineral Surface Capsheet or VersiPly 40 adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. or with Weatherking Mastic or Weatherking Plus Mastic applied at 2½ gal./sq. HPR Smooth Surface Capsheet may be substituted when gravel surface is used as outlined below.
- Surfacing:** (Required if no mineral cap sheet is used) Install one of the following:
1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq. or in Black Knight Flood Coat or Black Knight LV Flood Coat at 70 lb/sq.
 2. GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
 3. Energizer FR applied at 3 gal./sq. with GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
 4. Weatherking FR Top Coat applied at 2½ gal./sq. with GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
 5. Weatherking FR Top Coat applied at 2½ gal./sq. with #11 roofing granules at 60 lb./sq.
 6. Weatherking FR Top Coat applied at applied at 3 gal./sq. with roofing gravel applied at 400 lb./sq.

Maximum Design Pressure:

- 237.5 psf (concrete deck only - for minimum 1.5" thick E'NRG'Y-2 followed by minimum ¼" Dens Deck or minimum ½" HD Fiberboard applied in hot asphalt with asphalt applied membranes.) (See General Limitation #9)
- 145 psf (concrete deck only - for minimum 1.5" thick E'NRG'Y-2 followed by minimum ¾" GAFTEMP Permalite applied in hot asphalt with asphalt applied membranes) (See General Limitation #9)
- 45 psf (for all Insta-Stick applications with asphalt applied membranes) (See General Limitation #9)
- 45 psf (for all other deck types and applications) (See General Limitation #9)



Deck Type 7I: Recover, Insulated

Deck Description: wood/steel/concrete

System Type B(1): Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft²
ACFoam II Minimum 1.3" thick	1, 5 & 11	1:2.67 ft²
E'NRG'Y-2 Minimum 1.4" thick	1, 5, 11 & 24	1:3 ft²
ISORoc Minimum 1.5" thick	1, 5, 11 & 24	1:2.67 ft²
E'NRG'Y-2 Plus Minimum 1.5" thick	1, 5, 6, 11, 20 & 24	1:3 ft²
Multi-Max Minimum 1.5" thick	1, 5, 6, 11, 20 & 24	1:2.9 ft²
ConPerl, GAFTEMP Permalite, Fesco Board Minimum ¾" thick	1, 5, 11 & 24	1:2 ft²
Fiberglass Minimum 1⁵/₁₆" thick	1, 5, 6, 9, 11, 20 & 24	1:2.67 ft²

Note: Base layers of insulation shall be mechanically attached using the fastener density listed. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Protocol TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment..

Top Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft²
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Any of the insulations listed for Base Layer, above.

BP High Strength, FM-90 Traffic Top/High Density, GAFTEMP Fiberboard, GAFTEMP High Density, Roof Insulation Board, High Density Fiberboard, Fiber Base HD1, HD6, Structodek, Armor Board Regular, Esgard, Huebert Fiberboard, Kop-R Wood Fiber Minimum ½" thick	N/A	N/A
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Note: Apply optional top layer of insulation shall be adhered with approved hot asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs/100 ft² or in Insta-Stik Roofing Adhesive applied in continuous ¾ to 1 inch wide beads spaced 12" 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 Sheet: (Optional) HPR Glasbase or HPR Premium Glasbase adhered directly over the top layer of insulation with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. or with Weatherking Mastic or Weatherking Plus Mastic applied at 2½ gal./sq.

Ply Sheet: Two or more plies of HPR Glasbase, HPR Premium Glasbase, HPR Tribase, HPR Glasfelt, HPR Premium Glasfelt or approved ASTM D 2178 type IV or VI ply sheet adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. or with Weatherking Mastic or Weatherking Plus Mastic applied at 2½ gal./sq.

Cap Sheet: (Optional) HPR Mineral Surface Capsheet or VersiPly 40 adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. or with Weatherking Mastic or Weatherking Plus Mastic applied at 2½ gal./sq. HPR Smooth Surface Capsheet may be substituted when gravel surface is used as outlined below.

Surfacing: (Required if no mineral cap sheet is used) Install one of the following:

1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq. or in Black Knight Flood Coat or Black Knight LV Flood Coat at 70 lb./sq.
2. GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
3. Energizer FR applied at 3 gal./sq. with GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
4. Weatherking FR Top Coat applied at 2½ gal./sq. with GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
5. Weatherking FR Top Coat applied at 2½ gal./sq. with #11 roofing granules at 60 lb./sq.
6. Weatherking FR Top Coat applied at applied at 3 gal./sq. with roofing gravel applied at 400 lb./sq.

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



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Deck Type 7I: Recover, Insulated

Deck Description: steel/concrete

System Type B(2): Base layers of insulation mechanically fastened, top layer adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft²
ACFoam II Minimum 1.5" thick	11	1:1.33 ft²

Note: Base layers of insulation shall be mechanically attached using the fastener density listed. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Protocol TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment..

Middle Insulation Layer (Optional)	Insulation Fasteners (Table 2)	Fastener Density/ft²
ACFoam II Minimum 1.5" thick	N/A	N/A

Top Insulation Layer (Optional)	Insulation Fasteners (Table 2)	Fastener Density/ft²
High Density Fiberboard, Structodek FS Minimum ½" thick	N/A	N/A
Dens-Deck Minimum ¼" thick	N/A	N/A

Note: Apply optional middle and/or top layer of insulation shall be adhered with approved hot asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs/100 ft². 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 Sheet: (Optional) HPR Glasbase or HPR Premium Glasbase adhered directly over the top layer of insulation with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: Two or more plies of HPR Glasbase, HPR Premium Glasbase, HPR Tribase, HPR Glasfelt, HPR Premium Glasfelt or approved ASTM D 2178 type IV or VI ply sheet adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq.



Cap Sheet: (Optional) HPR Mineral Surface Capsheet or VersiPly 40 adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. HPR Smooth Surface Capsheet may be substituted when gravel surface is used as outlined below.

Surfacing: (Required if no mineral cap sheet is used) Install one of the following:

1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq. or in Black Knight Flood Coat or Black Knight LV Flood Coat at 70 lb/sq.
2. GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
3. Energizer FR applied at 3 gal./sq. with GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
4. Weatherking FR Top Coat applied at 2½ gal./sq. with GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
5. Weatherking FR Top Coat applied at 2½ gal./sq. with #11 roofing granules at 60 lb./sq.
6. Weatherking FR Top Coat applied at applied at 3 gal./sq. with roofing gravel applied at 400 lb./sq.

Maximum Design Pressure: -82.5 psf. (See General Limitation #7.)



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Deck Type 7I: Recover

Deck Description: wood/steel/concrete

System Type C: All layers of insulation simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft²
ACFoam II, E'NRG'Y-2, E'NRG'Y-2 Plus, ISORoc, Multi-Max Minimum 1" thick	N/A	N/A
BP High Strength, FM-90 Traffic Top/High Density, GAFTEMP Fiberboard, GAFTEMP High Density, Roof Insulation Board, High Density Fiberboard, Fiber Base HD1, HD6, Structodek, Armor Board Regular, Esgard, Huebert Fiberboard, Kop-R Wood Fiber Minimum 1/2" thick	N/A	N/A
ConPerl, GAFTEMP Permalite, Fesco Board (Hot Asphalt only) Minimum 3/4" thick	N/A	N/A
Fiberglas Roof Minimum 15/16" thick	N/A	N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Base Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft²
ACFoam II Minimum 1.3" thick	1, 5 & 11	1:3 ft ²
E'NRG'Y-2 Minimum 1.4" thick	1, 5, 11 & 24	1:3 ft ²
ISORoc Minimum 1.5" thick	1, 5, 11 & 24	1:2.67 ft ²
E'NRG'Y-2 Plus Minimum 1.5" thick	1, 5, 6, 11, 20 & 24	1:3 ft ²
Multi-Max Minimum 1.5" thick	1, 5, 6, 11, 20 & 24	1:2.9 ft ²
ConPerl, GAFTEMP Permalite, Fesco Board Minimum 3/4" thick	1, 5, 11 & 24	1:2 ft ²
Fiberglass Minimum 15/16" thick	1, 5, 6, 9, 11, 20 & 24	1:2.67 ft ²



Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

- Base Sheet: (Optional) HPR Glasbase or HPR Premium Glasbase adhered directly over the top layer of insulation with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. or with Weatherking Mastic or Weatherking Plus Mastic applied at 2½ gal./sq.
- Ply Sheet: Two or more plies of HPR Glasbase, HPR Premium Glasbase, HPR Tribase, HPR Glasfelt, HPR Premium Glasfelt or approved ASTM D 2178 type IV or VI ply sheet adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. or with Weatherking Mastic or Weatherking Plus Mastic applied at 2½ gal./sq.
- Cap Sheet: (Optional) HPR Mineral Surface Capsheet or VersiPly 40 adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. or with Weatherking Mastic or Weatherking Plus Mastic applied at 2½ gal./sq. HPR Smooth Surface Capsheet may be substituted when gravel surface is used as outlined below.
- Surfacing: (Required if no mineral cap sheet is used) Install one of the following:
1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq. or in Black Knight Flood Coat or Black Knight LV Flood Coat at 70 lb/sq.
 2. GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
 3. Energizer FR applied at 3 gal./sq. with GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
 4. Weatherking FR Top Coat applied at 2½ gal./sq. with GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
 5. Weatherking FR Top Coat applied at 2½ gal./sq. with #11 roofing granules at 60 lb./sq.
 6. Weatherking FR Top Coat applied at applied at 3 gal./sq. with roofing gravel applied at 400 lb./sq.
- Maximum Design Pressure: -45 psf (See General Limitation #9.)



Deck Type 7I: Recover
Deck Description: wood/steel/concrete
System Type D: All layers of insulation and base sheet simultaneously attached.

All General and System Limitations apply.

One or more layers of the following:

Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft ²
ACFoam II, E'NRG'Y-2, E'NRG'Y-2 Plus, IsoRoc, Multi-Max Minimum 1" thick	N/A	N/A
BP High Strength, FM-90 Traffic Top/High Density, GAFTEMP Fiberboard, GAFTEMP High Density, Roof Insulation Board, High Density Fiberboard, Fiber Base HD1, HD6, Structodek, Armor Board Regular, Esgard, Huebert Fiberboard, Kop-R Wood Fiber Minimum ½" thick	N/A	N/A
ConPerl, GAFTEMP Permalite, Fesco Board Minimum ¾" thick	N/A	N/A
Fiberglass Minimum 15/16" thick	N/A	N/A

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Base Sheet: *(Option #1-wood, steel or concrete decks only)* One ply of HPR GlasBase, HPR Premium GlasBase, HPR TriBase, GAFGLAS Stratavent, GS Flex-I-Glas Base, Malarkey #501, Tamko Glass-Base, Vapor-Chan or Base-N-Ply fastened to the deck using SFS #12 or HD Insulfixx S, Olympic #12 or HD with Olympic Standard Plates, or using Buildex Accutrac Fasteners or #14, #15 Roofgrip Fasteners and 3" Square Plates spaced 9" o.c. in a 4" lap and 9" o.c. in two staggered rows in the center of the sheet.

(Option #2 – steel or concrete decks only) One ply of HPR GlasBase, HPR Premium GlasBase, HPR TriBase, GAFGLAS Stratavent, JM PermaPly R, JM Dynabase, JM Ventsulation, Tamko Vapor-Chan, Intec Permavent or Intec FlexBase 60 fastened to the deck using Buildex Accutrac Fasteners or #14, #15 Roofgrip Fasteners and 3" Square Plates spaced 12" o.c. in a 4" lap and 12" o.c. in two staggered rows in the center of the sheet.

Intermediate Coverboard: (Optional) ½" thick High Density Wood Fiberboard adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq.



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Ply Sheet: Two or more plies of HPR Glasbase, HPR Premium Glasbase, HPR Tribase, HPR Glasfelt, HPR Premium Glasfelt or approved ASTM D 2178 type IV or VI ply sheet adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq.

Cap Sheet: (Optional) HPR Mineral Surface Capsheet or VersiPly 40 adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. HPR Smooth Surface Capsheet may be substituted when gravel surface is used as outlined below.

Surfacing: (Required if no mineral cap sheet is used) Install one of the following:

1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq. or in Black Knight Flood Coat or Black Knight LV Flood Coat at 70 lb/sq.
2. GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
3. Energizer FR applied at 3 gal./sq. with GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
4. Weatherking FR Top Coat applied at 2½ gal./sq. with GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
5. Weatherking FR Top Coat applied at 2½ gal./sq. with #11 roofing granules at 60 lb./sq.
6. Weatherking FR Top Coat applied at applied at 3 gal./sq. with roofing gravel applied at 400 lb./sq.

Maximum Design Pressure: -60 psf (See General Limitation #7.)



Deck Type 7: Recover
Deck Description: wood/steel/concrete
System Type E: Base sheet mechanically attached.

All General and System Limitations apply.

Base Sheet: (*wood, steel or concrete decks only*) One ply of HPR GlasBase, HPR TriBase, GAFGLAS Stratavent, GS Flex-I-Glas Base, Malarkey #501, Tamko Glass-Base, Vapor-Chan or Base-N-Ply fastened to the deck using SFS #12 or HD Insulfixx S, Olympic #12 or HD with Olympic Standard Plates, or using Buildex Accutrac Fasteners or #14, #15 Roofgrip Fasteners and 3" Square Plates spaced 9" o.c. in a 4" lap and 9" o.c. in two staggered rows in the center of the sheet.

Intermediate Coverboard: (Optional) ½" thick High Density Wood Fiberboard adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: Two or more plies of HPR Glasbase, HPR Premium Glasbase, HPR Tribase, HPR Glasfelt, HPR Premium Glasfelt or approved ASTM D 2178 type IV or VI ply sheet adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq.

Cap Sheet: (Optional) HPR Mineral Surface Capsheet or VersiPly 40 adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. HPR Smooth Surface Capsheet may be substituted when gravel surface is used as outlined below.

Surfacing: (Required if no mineral cap sheet is used) Install one of the following:

1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq. or in Black Knight Flood Coat or Black Knight LV Flood Coat at 70 lb/sq.
2. GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
3. Energizer FR applied at 3 gal./sq. with GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
4. Weatherking FR Top Coat applied at 2½ gal./sq. with GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
5. Weatherking FR Top Coat applied at 2½ gal./sq. with #11 roofing granules at 60 lb./sq.
6. Weatherking FR Top Coat applied at applied at 3 gal./sq. with roofing gravel applied at 400 lb./sq.

Maximum Design Pressure: -60 psf (See General Limitation #7.)



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Deck Type 7: Recover

Deck Description: wood/steel/concrete/lightweight concrete/cementitious wood fiber/gypsum

System Type F(1) Roof cover adhered with approved asphalt.

All General and System Limitations apply.

Base Sheet: (Optional) HPR Glasbase or HPR Premium Glasbase adhered directly over the top layer of insulation with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. or with Weatherking Mastic or Weatherking Plus Mastic applied at 2½ gal./sq.

Ply Sheet: Two or more plies of HPR Glasbase, HPR Premium Glasbase, HPR Tribase, HPR Glasfelt, HPR Premium Glasfelt or approved ASTM D 2178 type IV or VI ply sheet adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. or with Weatherking Mastic or Weatherking Plus Mastic applied at 2½ gal./sq.

Cap Sheet: (Optional) HPR Mineral Surface Capsheet or VersiPly 40 adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. or with Weatherking Mastic or Weatherking Plus Mastic applied at 2½ gal./sq. HPR Smooth Surface Capsheet may be substituted when gravel surface is used as outlined below.

Surfacing: (Required if no mineral cap sheet is used) Install one of the following:

1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq. or in Black Knight Flood Coat or Black Knight LV Flood Coat at 70 lb/sq.
2. GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
3. Energizer FR applied at 3 gal./sq. with GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
4. Weatherking FR Top Coat applied at 2½ gal./sq. with GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
5. Weatherking FR Top Coat applied at 2½ gal./sq. with #11 roofing granules at 60 lb./sq.
6. Weatherking FR Top Coat applied at applied at 3 gal./sq. with roofing gravel applied at 400 lb./sq.

Maximum Design Pressure:

-375 psf – concrete deck only (See General Limitation #9.)

-45 psf – all other deck types (See General Limitation #9.)



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Deck Type 7: Recover

Deck Description: wood/steel/concrete/lwc/cwf/gypsum

System Type F(2): Base sheet spot attached, ply sheets adhered with approved asphalt.

All General and System Limitations apply.

Base Sheet: Install one ply of Ventsulation or Stratavent base sheet over the primed substrate in a spot mopping of ASTM D 312, type III or type IV asphalt; 12" dia. circles, 24" o.c. at an application rate of 12 lbs./sq.

Ply Sheet: Two or more plies of HPR Glasbase, HPR Premium Glasbase, HPR Tribase, HPR Glasfelt, HPR Premium Glasfelt or approved ASTM D 2178 type IV or VI ply sheet adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq.

Cap Sheet: (Optional) HPR Mineral Surface Capsheet or VersiPly 40 adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq. HPR Smooth Surface Capsheet may be substituted when gravel surface is used as outlined below.

Surfacing: (Required if no mineral cap sheet is used) Install one of the following:

1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq. or in Black Knight Flood Coat or Black Knight LV Flood Coat at 70 lb/sq.
2. GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
3. Energizer FR applied at 3 gal./sq. with GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
4. Weatherking FR Top Coat applied at 2½ gal./sq. with GarlaBrite applied at 1 gal. per 150 ft² or Pyramic applied at 2 gal. per square.
5. Weatherking FR Top Coat applied at 2½ gal./sq. with #11 roofing granules at 60 lb./sq.
6. Weatherking FR Top Coat applied at applied at 3 gal./sq. with roofing gravel applied at 400 lb./sq.

Maximum Design Pressure: -60 psf (See General Limitation #9.)



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RECOVER SYSTEM LIMITATIONS:

1. All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.

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.)**

END OF THIS ACCEPTANCE



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