MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
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NOTICE OF ACCEPTANCE (NOA)

Johns Manville Corporation
717 17th Street
Denver, CO 80202

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 South Florida Building Code, 1994 Edition for Miami-Dade County or Florida Building Code.
DESCRIPTION: Johns Manville Built-Up Roofing Systems Over Gypsum 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 consists of pages 1 through 15.
The submitted documentation was reviewed by Frank Zuloaga, RRC

PRODUCT CONTROL ACCEPTED

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	Built-up Roofing
Deck Type:	Poured Gypsum
Maximum Design Pressure	-55 psf
Fire Classification:	See General Limitation #1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
Bestile Flashing Cement		ASTM D 4586	A trowel grade, cutback bitumen flashing grade cement mixture including inorganic fibers and mineral stabilizers.
Dyna Clad	39-3/8" x 33' 6"	N/A	A foil surfaced fiberglass reinforced elastomeric modified bitumen membrane for use as a cap or flashing sheet.
DynaFlex	25' long	ASTM D 5147	SBS modified bitumen composite flashing with fiber glass scrim and two-ply polyester reinforcement, for use in conventional and modified bitumen built-up roofing assemblies for base flashings.
E'NRG'Y 2	Various	ASTM C 1289	Rigid polyisocyanurate roof insulation for use in conventional built-up and other roof systems.
Expand-O-Flash	Various	N/A	Expansion joint covers manufactured from non-reinforced, form-supported elastomeric bellows with a bifurcated waterproof attachment to metal flanges. Available in various standard configurations and may be custom manufactured to specific dimensions.
Expand-O-Guard	Various	N/A	Elastomeric expansion joint cover for vertical expansion and seismic joints. Manufactured from non-reinforced, form-supported elastomeric bellows with a bifurcated waterproof attachment to metal flanges. Available in various standard configurations and may be custom manufactured to specific dimensions.

Product	Dimensions	Test Specification	Product Description
FP-10 Vents	10" deck flange, base diameter of 4" and a height of 6".	N/A	One-way roof vent, designed for use in various roof systems, for the release of pressure created by gases or moisture vapor trapped within the roofing system.
FesCant Plus Cant Strips, and Taper Edge.	Various	PA 110	Factory pre-fabricated cant strips and taper edge, manufactured from expanded perlite insulation.
Fesco Board	Various	ASTM C 728	Rigid perlite roof insulation board for roofing systems flat or tapered.
Fesco Foam	Various	PA 110	Rigid polyisocyanurate roof insulation with perlite board facing bonded to one side for use in conventional built-up and other roofing.
Fiber Glass Roof Insulation	various	PA 110	Fiberglas roof insulation.
Flex-I-Drain	Various sizes from 3" to 6"	BOCA 76-61 SBCCI 89204 UBC 3236	Two piece flexible drain system composed of a Noryl deck flange, a flexible neoprene bellows and no hub connection. Available in various sizes and styles for most retro-fit applications.
GlasBase	36" x 108'; roll weight: 84 lbs.	ASTM D 4601	Type II asphalt impregnated and coated glass fiber base sheet for use in conventional and modified bitumen built-up roofing.
GlasBase Plus	36" x 108'; roll weight: 84 lbs.	ASTM D 4601	Type II asphalt impregnated and coated glass fiber base sheet for use in conventional and modified bitumen built-up roofing.
GlasKap	36" x 36'; Roll weight: 72 lbs.	ASTM D 3909	Asphalt impregnated and coated felt surfaced with mineral granules used as the top ply in conventional built-up roof membranes.
GlasKap Plus	39-3/8" x 34'	ASTM D 5147	SBS Modified Asphaltic cap sheet used as the top ply in conventional built-up roof membranes.
GlasPly IV	36" x 200'	ASTM D 4601 Type IV	Type IV asphalt impregnated glass felt for use in conventional and modified bitumen built-up roofing.
GlasPly Premier	36" x 180'	ASTM D 2178 Type VI	Type VI asphalt impregnated glass felt for use in conventional and modified bitumen built-up roofing.
GlasTite Flexible	25' long	ASTM D 1668	Asphalt composite flashing with fiberglass scrim and two-ply polyester reinforcement, for use in conventional built-up roofing assemblies for base flashings.

Product	Dimensions	Test Specification	Product Description
Industrial Roof Cement	N/A	ASTM D 4586 Type II	General purpose medium trowel grade, cement cutback asphalt mastic reinforced with nonasbestos fibers and mineral stabilizers.
Lightweight Concrete (LWC) CR Base Fastener	various	PA 114	G-90 galvanized double spreading leg fastener for securing base sheets to lightweight insulating concrete and some poured gypsum decks.
MBR Flashing Cement Activator	N/A	Proprietary	Activator component for use with MBR Flashing Cement Base
MBR Flashing Cement Base	N/A	Proprietary	A two-component elastomeric, cold application adhesive, consisting of a modified proprietary compound with an asphalt base.
MBR Utility Cement	N/A	ASTM D 4586	General purpose trowel grade, cutback bitumen cement mixture including inorganic fibers and mineral stabilizers.
NTB 1H and 2H	various	PA 114	A glass-filled nylon, double internal hex drive head, buttress thread, ¾" (19 mm) diameter fastener for securing roof insulation to gypsum and structural wood fiber decks.
PermaPly No. 28	36" x 108'; roll weight: 72 lbs.	ASTM D 4601	Type II asphalt impregnated and coated glass fiber base sheet for use in conventional and modified bitumen built-up roofing.
Presto Lok Fascia and Flashing System	Various	PA 114	A multi-piece fascia and flashing system for built-up and modified bitumen roofing systems manufactured from aluminum or steel. Extender plates available for wide fascia applications. This assembly meets the criteria of FMRC 1-49 for wind resistance perimeter flashing.
Ventsulation Felt	36" x 36'	ASTM D 4897 Type II	Heavy duty fiber glass base sheet impregnated and coated on both sides with asphalt with or without fine mineral stabilizer. Surfaced on the bottom side with coarse mineral granules embedded in asphaltic coating.
½" Retro-Fit Board	Various thicknesses	PA 110	A high-density perlite roof insulation for use in conventional and modified built-up roofing systems.

TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS:
TABLE 2

Product	Dimensions	Test Specification	Product Description	Manufacturer
Pyrox	various	PA 110	Polyisocyanurate foam insulation	Apache Products Co. (with current PCA)
Deklite Fastener	various	PA 114	Glass reinforced Zytel Nylon insulation fastener for gypsum & CWF decks.	Construction Fasteners Inc. (with current PCA)
Deklite Membrane Plate	2" round	PA 114	Round galvalume AZ55 stress plate	Construction Fasteners Inc. (with current PCA)
FM-60, FM-90 Fasteners		PA 114	Base ply fastening systems for lightweight concrete and gypsum decks	ES Products, Inc. (with current PCA)
Nail-Tite Type (A or R) base ply Fasteners		PA 114	Galvalume AZ55 base ply fastening systems for gypsum decks.	ES Products, Inc. (with current PCA)
FM-30 disks	2.7" round	PA 114	Round galvalume AZ55 stress plate	ES Products, Inc. (with current PCA)
TPR		PA 114	Aluminum fastener for lightweight, gypsum and tectum decks	Subcon Products Corp. (with current PCA)
Trinity Lap Plate	2" round	PA 114	Round galvalume AZ50 stress plate	Subcon Products Corp. (with current PCA)
Asphalt Emulsion		PA 121	Asphalt emulsion	Gardner (with current PCA)
Asphalt		ASTM D 312	Type III or IV hot asphalt bitumen adhesive	generic
Asphalt Primer		ASTM D 41	Asphalt Primer	generic
EPS	various	PA 110	Extruded polystyrene insulation	generic (with current PCA)
High Density Wood Fiberboard	various	PA 110	Wood fiber insulation board	generic (with current PCA)
Perlite/Urethane Composite	various	PA 110	Perlite / urethane composite board insulation	generic (with current PCA)
PermaMop		ASTM D 312	Rubberoid Asphalt	Trumbull
Polyethylene	4 mil min.		Vapor barrier / Air barrier	generic

Product	Dimensions	Test Specification	Product Description	Manufacturer
Type X Gypsum	various		Fire rated water resistant type X gypsum sheating with treated core and facer	generic
Dens-Deck	4' x 8'	PA 110	Gypsum board	Georgia-Pacific (with current PCA)
Sturdi-Top	various	PA 110	Wood fiberboard	Georgia-Pacific (with current PCA)
Fiber Glass Roof Tape	6' x 300'	proprietary	Glass fiber mat together with reinous binder to reinforce fiber glass roof insulation.	Owens-Corning Fiberglas Corp. (with current PCA)
Fiberglas	various	PA 110	Fiber glass roof insulation	Owens-Corning Fiberglas Corp. (with current PCA)
Structodeck	various	PA 110	High density wood fiber	Masonite (with current PCA)

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Polymer Gyptec	Glass reinforced nylon gypsum & CWF decks fastener		ITW Buildex (with current PCA)
2.	Polymer Gyptec Metal Plate	Square galvalume AZ55 steel plate	3" square	ITW Buildex (with current PCA)
3.	NTB Magnum	Glass reinforced Nylon insulation fastener for gypsum & CWF decks.		Johns Manville
4.	NTB Plastic plate	Polypropylene plastic plate	3" round	Johns Manville
5.	NTB Plate	Round galvalume AZ55 steel plate	3" round	Johns Manville
6.	Powerlite Fastener	Glass reinforced Zytel Nylon insulation fastener for gypsum & CWF decks.		Powers Fasteners, Inc.
7.	Powerlite Plate	Round galvalume AZ55 steel plate	3" round	Powers Fasteners, Inc.

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
Factory Mutual Research Corporation	J.I. # 3001629	FM Approval Report	09.10.98
	J.I. # 3D4A4.AM	FM Approval Report	09.28.98
	J.I. # 3000949	FM Approval Report	06.05.98
	J.I. # 3001482	FM Approval Report	08.11.98
	J.I. # OZ8A9.AM	FM Approval Report	09.10.98
	FMRC 1999	Current Insulation Fastening Requirements	01.01.99
Exterior Research & Design, Inc.	# 10390A.10.97-1	Wind Uplift	10.97
	# 4361-02.04-1	Wind Uplift	04.97
	# 10390A.12.97-1	Wind Uplift	12.97
	FMRC 1999	Current Insulation Fastening Requirements	3 01.01.99
Underwriters Laboratories, Inc.	R 10167 (N)	Fire Classification – see current directory	01.01.95
Dynatech Engineering, Inc.	4360.03.95-1	Wind Uplift Classification	3.95
	4360.03.95-2	Wind Uplift Classification	3.95
	4361.5.95-1	Wind Uplift Classification	5.95
Independent Roof Testing & Consulting of South Florida, Inc.	IRT 99001.1.20.99 IRT 99002.1.20.99 IRT 99003.1.20.99	Uplift Resistance	1.20.99

APPROVED ASSEMBLIES

Membrane Type: BUR

Deck Type 6I: Poured Gypsum, Insulated, New Construction

Deck Description: Poured Gypsum Concrete

System Type A: Anchor sheet mechanically fastened; one or more layers of insulation 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 3)	Fastener Density/ft^2
E'NRG'Y 2, Fesco Foam Minimum 1.4" thick	**N/A**	**N/A**
Retro-Fit Board Minimum ½" thick	**N/A**	**N/A**
Fesco, Fiber Glass Minimum ¾" thick	**N/A**	**N/A**

Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Tapered Fesco, Tapered Fiber Glass, Tapered E'NRG'Y 2 Minimum ¾" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft^2. 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 may be used as a top layer placed with the polyisocyanurate side facing down.

Anchor sheet: JM Dynabase, GlasBase, GlasBase Plus, Ventsulation, PermaPly No. 28, GlasPly Premier or GlasPly IV base sheet applied to the deck as described below:

Fastening: Any approved fastener listed in this approval (with a current PCA) for use in poured gypsum decks, attachment at 9" o.c. at the lap and two staggered rows of 12" in the center of the sheet.

Base Sheet: (Optional) Install one ply of JM GlasBase, GlasBase Plus, PermaPly No. 28, GlasPly Premier or GlasPly IV directly over the top layer of insulation. Adhere in a full mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. If base sheet is applied directly to polyisocyanurate insulation only a spot or strip mopped application as detailed in this approval is approved; see General Limitation #4.

Ply Sheet: Two or more plies of JM GlasPly IV or GlasPly Premier Ply VI adhered in a full mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Cap Sheet:	(Optional) One ply of JM GlasKap or GlasKap Plus adhered in a full mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq..
Surfacing:	(Required if no cap sheet is used) Install one of the following: 1. 2-3 gallons/sq. TopGard A or B emulsion or 2 gallons/sq. aluminum coating. Coatings shall be applied according to the manufacturers' recommendations regarding specific application rates and weathering. 2. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq., respectively.
Maximum Design Pressure:	-55 psf (See General Limitation #9)

Membrane Type: BUR

Deck Type 6I: Poured Gypsum, Insulated, New Construction

Deck Description: Poured Gypsum Concrete

System Type B: 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 3)**	**Fastener Density/ft^2**
E'NRG'Y 2 **Minimum 1.3" thick**	**1, 3 or 6**	**1:2.67 ft^2**
Fesco **Minimum ¾" thick**	**1, 3 or 6**	**1:2 ft^2**
Fiber Glass **Minimum $^{15}/_{16}$" thick**	**1, 3 or 6**	**1:2.67 ft^2**

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 (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Any of the insulation listed for Base Layer, above		
Fiber Glass **Minimum ¾" thick**	**N/A**	**N/A**
Retro-Fit Board **Minimum ½" thick**	**N/A**	**N/A**

Note: Optional top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: (Optional) Install one ply of JM GlasBase, GlasBase Plus, GlasPly Premier, GlasPly IV or PermaPly No. 28 directly to the insulated substrate. Adhere in a full mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. If base sheet is applied directly to polyisocyanurate insulation only a spot or strip mopped application as detailed in this approval is approved; see General Limitation #4.

Ply Sheet: Two or more plies of JM GlasPly IV or GlasPly Premier adhered in a full mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Cap Sheet:	(Optional) One ply of JM GlasKap or GlasKap Plus adhered in a full mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Surfacing:	(Required if no cap sheet is used) Install one of the following: 1. 2-3 gallons/sq. TopGard A or B emulsion or 2 gallons/sq. aluminum coating. Coatings shall be applied according to the manufacturers' recommendations regarding specific application rates and weathering. 2. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq., respectively.
Maximum Design Pressure:	-55 psf (See General Limitation #9)

Membrane Type: BUR

Deck Type 6I: Poured Gypsum, Insulated, New Construction

Deck Description: Poured Gypsum Concrete

System Type C: All layers of insulation simultaneously fastened.

All General and System limitations apply.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
E'NRG'Y 2 Minimum 1.4" thick	**N/A**	**N/A**
Fesco Foam Minimum 1.5" thick	**N/A**	**N/A**
Fesco, Fiber Glass Minimum ¾" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
E'NRG'Y 2 Minimum 1.3" thick	**1 or 6**	**1:2.67 ft^2**
Fesco Minimum ¾" thick	**1, 3 or 6**	**1:2.67 ft^2**
Fiber Glass Minimum $^{15}/_{16}$" thick	**1, 3 or 6**	**1:2.67 ft^2**
Retro-Fit Board Minimum ½" thick	**1, 3 or 6**	**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) Install one ply of JM Dynabase, GlasBase, GlasBase Plus or PermaPly No. 28 directly over the top layer of insulation. Adhere in a full mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. If base sheet is applied directly to polyisocyanurate insulation only a spot or strip mopped application as detailed in this approval is approved; see General Limitation #4.

Ply Sheet: Two or more plies of JM GlasPly IV or GlasPly Premier adhered in a full mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Cap Sheet: (Optional) One ply of JM GlasKap or GlasKap Plus adhered in a full mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

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

1. 2-3 gallons/sq. TopGard A or B emulsion or 2 gallons/sq. aluminum coating. Coatings shall be applied according to the manufacturers' recommendations regarding specific application rates and weathering.

2. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq., respectively.

Maximum Design Pressure: -55 psf (See General Limitation #9)

Membrane Type: BUR

Deck Type 5: Cementitious Wood Fiber, Non-Insulated, Tear-off Only

Deck Description: Poured gypsum concrete.

System Type E: Base sheet mechanically fastened.

All General and System limitations apply.

Base Sheet: Install one ply of Dynabase, Ventsulation, GlasBase, GlasBase Plus, GlasPly Premier, GlasPly IV or PermaPly No. 28 base sheet mechanically fastened as described below.

Fastening: Any approved fastener listed in this approval (with a current PCA) for use in gypsum decks, attachment at 9" o.c. at the lap and two staggered rows of 12" in the center of the sheet.

Ply Sheet: Two or more plies of JM GlasPly IV or GlasPly Premier adhered in a full mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Cap Sheet: (Optional) One ply of JM GlasKap or GlasKap Plus adhered in a full mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

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

1. 2-3 gallons/sq. TopGard A or B emulsion or 2 gallons/sq. aluminum coating. Coatings shall be applied according to the manufacturers' recommendations regarding specific application rates and weathering.
2. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq., respectively.

Maximum Design Pressure: -55 psf (See General Limitation #9)

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. 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 Engineer, 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. **(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