MIAMI-DADE

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)

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 Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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: Johns Manville PVC Single Ply Roof Systems over Recover 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 consists of pages 1 through 13.
The submitted documentation was reviewed by Jorge L. Acebo.

PRODUCT CONTROL ACCEPTED

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply
Material:	PVC
Deck Type:	Recover
Maximum Design Pressure	-45 psf
Fire Classification:	See General Limitation #1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Specification	Product Description
JM PVC Membrane	39", 52" & 78" x 108"	ASTMD 4434	40-100 mil thermoplastic alloy membrane for field and perimeter.
JM PVC Reinforced Flashing	6", 8", 12", 18" & 24" variable length rolls	ASTM D 4434	40-100 mil thermoplastic flashing membrane.
JM PVC Flashing	24" x 30' LF 60 sqft. roll	ASTM D 4434	55 mil Unreinforced flashing membrane
JM PVC Coated Metal	4' x 8' 4' x 10' sheets	US Commercial Standard CS-245-62	JM PVC Membrane laminated 24 Ga. Galvanized steel.
JM PVC Fleece Back Corners	76" x 90" 570 sqft. roll	ASTM D 4434	Thermoplastic fleece back membrane. Adhered applications.
JM PVC Fleece Back Membrane	39" x 108' 351 sqft. roll	ASTM D 4434	Thermoplastic fleece back membrane. Adhered applications.
JM PVC Fleece Back Flashing	12' x 108' 108 sqft. roll 24" x 108' 216 sqft. roll	ASTM D 4434	Thermoplastic fleece back membrane flashing material.
JM PVC Corners	4" x 4" x 4" 20 pcs. Carton.	ASTM D 4434	Prefabricated molded 1 piece corners.
JM PVC Boots	1" - 8" dia. 6 pcs. Carton.	ASTM D 4434	Premolded vent. pipe boots
JM PVC Membrane Adhesive	5 gallon pails		Adhesive for fully adhered systems.
JM PVC Termination Bar	1/8 x 1" x 10	TAS 114(E)	Flat termination bar.
JM PVC Walkway	1/4" x 30" x 40'		Walkway pad (roll configuration)
JM PVC Walkway	1/2" x 30 x 36"		Walkway pad (single pad)
JM PVC Membrane Adhesive	N/A		Contact adhesive for membrane flashing.

TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS:

Product	Dimensions	Test Specification	Product Description	Manufacturer (with current NOA)
ACFoam II	various	TAS 110	Polyisocyanurate foam insulation.	Atlas
ACFoam III	various	TAS 110	Polyisocyanurate foam insulation.	Atlas
E'NERG'Y PSI-25	various	TAS 110	Polyisocyanurate foam insulation.	Johns Manville
E'NRG'Y-2 Plus	various	TAS 110	Polyisocyanurate foam insulation.	Johns Manville
Fesco Foam	various	TAS 110	Polyisocyanurate foam / FescoBoard insulation.	Johns Manville
UltraGard Premier1	various	TAS 110	Polyisocyanurate foam insulation.	Johns Manville
UltraGard Gold	various	TAS 110	Polyisocyanurate foam insulation.	Johns Manville
Hy-Tec	various	TAS 110	Polyisocyanurate foam insulation.	Celotex Corp.
Hy-Therm SP	various	TAS 110	Polyisocyanurate foam insulation.	Celotex Corp.
Hy-Therm AP	various	TAS 110	Polyisocyanurate foam insulation	Celotex Corp.
ISO 95+, ISO 95+ GL	various	TAS 110	Polyisocyanurate foam insulation.	Firestone
Multi-Max, Multi-Max FA	various	TAS 110	Polyisocyanurate foam insulation.	RMax, Inc.
Thermaroof Plus	various	TAS 110	Polyisocyanurate foam insulation.	RMax, Inc.
Ultra/M-II	various	TAS 110	Polyisocyanurate foam insulation.	Homasote Co.
Pyrox	various	TAS 110	Polyisocyanurate foam insulation.	Apache Products Co.
White Line	various	TAS 110	Polyisocyanurate foam insulation.	Apache Products Co.
GAFTEMP Permalite	various	TAS 110	Perlite insulation board.	GAF
Celotherm	various	TAS 110	Perlite insulation board	Celotex
ConPerl	various	TAS 110	Perlite insulation board	Conglas
Fesco Board	various	TAS 110	Perlite insulation board	Johns Manville
High Density Fiber Board	various	TAS 110	Wood fiber insulation.	Celotex Corp.
Armor Board High Density	various	TAS 110	Wood fiber insulation	Allied Signal

Product	Dimensions	Test Specification	Product Description	Manufacturer (with current NOA)
GAFTEMP High Density Fiberboard	various	TAS 110	Wood fiber insulation.	GAF
Roof Insulation Board	various	TAS 110	Wood fiber insulation.	Georgia Pacific
Fiberbase HD1, HD6	various	TAS 110	Wood fiber insulation.	Temple Inland
Structodek	various	TAS 110	Wood fiber insulation.	Masonite
Type X Gypsum	various		Fire resistant rated gypsum.	Generic
Dekfast Fasteners #12, #14 or #15	various	TAS 114 TAS 117	Insulation fastener for wood, steel and/or concrete decks.	Construction Fasteners Inc.
Omega	various	TAS 114 TAS 117	Stainless steel insulation fastener and metal or plastic plate.	Construction Fasteners Inc.
HD Insul-Fixx Fastener	various	TAS 114 TAS 117	Insulation fastener for use in steel and concrete decks.	SFS Stadler
Insul-Fixx P	3" round	TAS 114 TAS 117	3" round polyethylene stress plate.	SFS Stadler
Insul-Fixx S	3" round	TAS 114 TAS 117	3" round Galvalume AZ55 stress plate.	SFS Stadler
Insul-Fixx Fastener	various	TAS 114 TAS 117	Insulation fastener for steel and wood decks.	SFS Stadler
Isofast Fasteners	various	TAS 114 TAS 117	Insulation fastener for steel and wood decks.	SFS Stadler
Isofast Plate	various	TAS 114 TAS 117	Square or oblong Galvalume steel plates for use with Isofast fasteners.	SFS Stadler
CD-10 Fastener	various	TAS 114 TAS 117	Insulation fastener for concrete decks.	Olympic
N.T.B. Magnum	various	TAS 114 TAS 117	Glass reinforced nylon fastener for use in gypsum and cementitious wood fiber decks.	Olympic
Olympic Fastener #12 or #14	various	TAS 114 TAS 117	Insulation fastener for wood, steel and concrete (#14) decks.	Olympic
GAFGLAS # 75	3' x 108'; Roll weight: 75 lb	ASTM D 4601	G2 Fiberglass base sheet.	GAF
PermaPly R	36" x 180'	ASTM D 2178	Type VI fiberglass ply sheet.	Johns Manville
PermaPly 28	36" x 324 sq. ft.	ASTM D 4601	Glass fiber, asphalt impregnated base sheet.	Johns Manville
Ventsulation	36" x 36'	ASTM D 3909	Glass reinforced, ventilated base sheet	Johns Manville

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
Factory Mutual Research Corporation	J.I. 0X2A9.AM	FM Class 4470/4450	06/26/93
	J.I. 3W1A1.AM	FM Class 4470/4450	03/29/93
	J.I. 1W1A9.AM	FM Class 4470/4450	09/11/93
	J.I. 1R2A0.AM	FM Class 4470/4450	04/10/90
	J.I. 1X3A6.AM	FM Class 4470/4450	10/03/93
	J.I. 1W9A2.AM	FM Class 4470/4450	06/15/93
	J.I. 1W2A0.AM	FM Class 4470/4450	08/24/93
	J.I. 1T2A6.AM	FM Class 4470/4450	02/22/93
	J.I. 3W3A4.AM	FM Class 4470/4450	11/22/93
	J.I. 3W3A4.AM	FM Class 4470/4450	03/26/93
	J.I. 0T9A3.AM	FM Class 4470/4450	10/01/90
	J.I. 1V1A8.AM	FM Class 4470/4450	04/21/92
	J.I. 0X8A9.AM	FM Class 4470/4450	06/25/93
	J.I. 1X6A5.AM	FM Class 4470/4450	10/12/93
	J.I. 2W5A6.AM	FM Class 4470/4450	06/01/93
	ID: 3018422	FM Class 4470/4450	01/27/06
Underwriters Laboratories	File R9834 (N)	Fire Classification	04/06/93
	File R9834 (N)	Fire Classification	06/02/92
	File R9834 (N)	Fire Classification	05/22/92
	File R9834 (N)	Fire Classification	05/15/92
	File R9834 (N)	Fire Classification	05/04/92
	File R9834 (N)	Fire Classification	05/04/92
	File R9834 (N)	Fire Classification	09/21/92
	File R9834 (N)	Fire Classification	06/02/92
	File R9834 (N)	Fire Classification	01/08/91
	File R9834 (N)	Fire Classification	11/09/90
	File R9834 (N)	Fire Classification	07/13/90
	File R9834 (N)	Fire Classification	03/14/90
	File R9834 (N)	Fire Classification	07/13/90

APPROVED SYSTEMS

Deck Type 7I: Recover, Insulation (Optional)

Deck Description: cementitious wood fiber/gypsum

System Type A(1): Anchor sheet mechanically attached, optional insulation adhered, membrane adhered.

All General and System Limitations apply.

Insulation (Optional) Base Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
One or more layers of the following insulations:				
Approved Type(s): **ACFoam II, Multi-Max FA, E'NRG'Y-2, PSI-25, ISO-95+, ISO + GL, Hy-Therm AP, Pyrox**				
Minimum: 1.4" x 4' x 4'	N/A	N/A	N/A	N/A

Insulation (Optional) Top Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): **High Density Fiberboard, FM-90 High Density, Armor Board Regular, Esgard, Celotex Fiberboard, GAFTEMP Fiberboard, Huebert Fiberboard, Kop-R Wood Fiber**				
Minimum: ½" x 4' x 4'	N/A	N/A	N/A	N/A

Note: All insulation, if any installed, shall be adhered to the anchor sheet in full moppings of approved asphalt within the EVT range and at a rate of 20-40 lbs./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations 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.

Anchor Sheet: One ply of Celotex Hydrostop, GAFGLAS #75, GAFGLAS Stratavent, Johns Manville Ventsulation or Johns Manville PermaPly 28 secured to the deck with Olympic NTB Magnum fasteners at 1 per 2 sq. ft.

Note: Anchor sheet fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements set forth in the applicable Building Code.

Membrane: JM PVC Fleece Back Membrane fully adhered to the anchor sheet or insulation with JM PVC Bonding Adhesive applied at the rate of 1 gal./sq., or approved mopping asphalt applied at the rate of 25 lbs./sq..

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

Deck Type 7I: Recover, Insulated

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

System Type A(2): One or more layers of insulation adhered with approved asphalt or adhesive; membrane fully adhered.

All General and System Limitations apply.

Insulation Base Layer	**Fastener Type**	**Fastening Detail No.**	**Fasteners Per Board**	**Fastener Density**
One or more layers of the following insulations:				
Approved Type(s): **ACFoam II, Multi-Max FA, E'NRG'Y-2, PSI-25, ISO-95+, ISO + GL, Hy-Therm AP, Pyrox**				
Minimum: 1.4" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **High Density Fiberboard, FM-90 High Density, Armor Board Regular, Esgard, Celotex Fiberboard, GAFTEMP Fiberboard, Huebert Fiberboard, Kop-R Wood Fiber**				
Minimum: ½" x 4' x 4'	N/A	N/A	N/A	N/A

Insulation (Optional) Top Layer	**Fastener Type**	**Fastening Detail No.**	**Fasteners Per Board**	**Fastener Density**
Approved Type(s): **High Density Fiberboard, FM-90 High Density**				
Minimum: ½" x 4' x 4'	N/A	N/A	N/A	N/A

Note: Existing roof surface shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of anchor sheet or base insulation layer. All insulation shall be adhered to the anchor sheet or primed substrate in full moppings of approved asphalt within the EVT range and at a rate of 20-40 lbs./sq. or with ¾" to 1" wide beads of Insta-Stik Adhesive, 12" o.c. (primer not required for use of Insta-Stik). Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations 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.

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder may be installed over the deck or the base layer of insulation.

Barrier: (Optional) 1/2" or 5/8" gypsum or Dens Deck secured to the deck with the insulation.

Membrane: JM PVC Fleece Back Membrane fully adhered to the insulation with JM PVC Bonding Adhesive applied at the rate of 1 gal./sq., or approved mopping asphalt applied at the rate of 25 lbs./sq..

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

Deck Type 7I: Recover, Insulated

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

System Type C: All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply.

Insulation (Optional) Base Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): **ACFoam II, Multi-Max FA, E'NRG'Y-2, PSI-25, ISO-95+, ISO + GL, Hy-Therm AP, Pyrox**				
Minimum: 1.4" x 4' x 4'	N/A	N/A	N/A	N/A

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

Insulation Top Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): **ACFoam II, Multi-Max FA**				
Minimum: 1.5" x 4' x 4'	Dekfast #14, #15	[3]	8	1:2 ft.²
Minimum: 1.5" x 4' x 4'	Olympic #12, #14	[3]	8	1:2 ft.²
Minimum: 1.5" x 4' x 4'	Isofast IF2	[3]	8	1:2 ft.²
Minimum: 1.5" x 4' x 4'	Olympic CD-10	[3]	8	1:2 ft.²
Minimum: 1.5" x 4' x 4'	Olympic NTB Magnum	[3]	8	1:2 ft.²
Approved Type(s): **ISO 95 +, ISO 95 + GL**				
Minimum: 1.4" x 4' x 4'	Dekfast #14, #15	[3]	8	1:2 ft.²
Minimum: 1.4" x 4' x 4'	Olympic #12, #14	[3]	8	1:2 ft.²
Minimum: 1.4" x 4' x 4'	Isofast IF2	[3]	8	1:2 ft.²
Minimum: 1.4" x 4' x 4'	Olympic CD-10	[3]	8	1:2 ft.²
Minimum: 1.4" x 4' x 4'	Olympic NTB Magnum	[3]	8	1:2 ft.²
Approved Type(s): **E'NRG'Y-2, PSI-25, Hy-Therm AP, Pyrox**				
Minimum: 1.4" x 4' x 4'	Dekfast #14, #15	[3]	8	1:2 ft.²
Minimum: 1.4" x 4' x 4'	Olympic #12, #14	[3]	8	1:2 ft.²
Minimum: 1.4" x 4' x 4'	Isofast IF2	[3]	8	1:2 ft.²
Minimum: 1.4" x 4' x 4'	Insulfixx S or P	[3]	8	1:2 ft.²
Minimum: 1.4" x 4' x 4'	Olympic CD-10	[3]	8	1:2 ft.²
Minimum: 1.4" x 4' x 4'	Olympic NTB Magnum	[3]	8	1:2 ft.²
Approved Type(s): **High Density Fiberboard, FM-90 High Density, Armor Board Regular, Esgard, Celotex Fiberboard, GAFTEMP Fiberboard, Huebert Fiberboard, Kop-R Wood Fiber**				
Minimum: ½" x 4' x 4'	Dekfast #14, #15	[3]	8	1:2 ft.²
Minimum: ½" x 4' x 4'	Olympic #12, #14	[3]	8	1:2 ft.²
Minimum: ½" x 4' x 4'	Isofast IF2	[3]	8	1:2 ft.²
Minimum: ½" x 4' x 4'	Insulfixx S or P	[3]	8	1:2 ft.²
Minimum: ½" x 4' x 4'	Olympic CD-10	[3]	8	1:2 ft.²
Minimum: ½" x 4' x 4'	Olympic NTB Magnum	[3]	8	1:2 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. (See Miami-Dade County Roofing Application Standard PA 117 for fastening details.)

Vapor Retarder:	(Optional) Any UL or FMRC approved vapor retarder may be installed over the deck or the base layer of insulation.
Barrier:	(Optional) 1/2" or 5/8" gypsum or Dens Deck secured to the deck with the insulation.
Membrane:	JM PVC Fleece Back Membrane fully adhered to the insulation with JM PVC Bonding Adhesive applied at the rate of 1 gal./sq., or approved mopping asphalt applied at the rate of 25 lbs./sq..
Maximum Design Pressure:	-45 psf. (See General Limitation #7)

Deck Type 7I: Recover, Insulated

Deck Description: wood/steel/concrete

System Type D: Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply.

Insulation Base Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
One or more layers of the Base Layer insulation covered by one layer of the insulation listed as Top Layer.				
Approved Type(s): **EPS over gypsum barrier.**				
Minimum: 1" x 4' x 4'	N/A	N/A	N/A	N/A

Insulation Base or Top Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
One or more layers of the following insulations.				
Approved Type(s): **Celotherm, ConPerl, GAFTEMP Permalite, FescoBoard**				
Minimum: 1" x 2' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **Armor Board High Density, BP High Strength, FM-90 Traffic Top/High Density, ERS Redi-Deck, Riber Top C, E, S, GAFTEMP High Density, Roof Insulation Board, High Density Fiberboard, Fiber Base HD1, HD6, Structodek**				
Minimum: 1" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **Hy-Tec, Pyrox, Hy-Therm AP, Whiteline, Hy-Therm SP, E'NRG'Y-2, PSI-25, Mutli-Max, Thermaroof Plus, ACFoam II, Ultra/M-11ISO/glas, ISO 95+, ISO 95+GL, UltraGard, Fesco Foam**				
Minimum: 1" x 4' x 4'	N/A	N/A	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum 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.

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder may be installed over the deck or the base layer of insulation.

Barrier: (Optional) 1/2" or 5/8" gypsum or Dens Deck secured to the deck with the insulation.

Membrane: JM PVC Membrane or JM PVC Fleece Back Membrane attached through the preliminary attached insulation as specified below.

Fastening #1:	Roof cover is rolled over the insulation and its 2" laps are sealed. Membrane is mechanically attached using SFS Isofast IF/IG-82x40 plates and IF or IG screws (wood or steel only), Olympic 2" round steel, ASAP or Solweld plates with Olympic Standard (wood or steel only), Heavy Duty Screws or CD-10 (concrete only), Dekfast or Solweld plates with Dekfast #14 or #15 screws, or Solweld plates with HD Insulfixx spaced 6" o.c. in rows 8 ft. apart or 12" o.c. in rows 4 ft. apart. Fastener rows are stripped in with 6" wide strips of membrane or 6" diameter membrane caps, heat or solvent welded.
Fastening #2:	Membrane is mechanically attached using Olympic 2" round steel, ASAP, or Solweld plates with Olympic Standard (wood or steel only), Heavy Duty Screws or CD-10 (concrete only), Dekfast or Solweld plates with Dekfast #14 or #15 screws, or Solweld plates with HD Insulfixx spaced 18" o.c. through 3" wide laps spaced 48"apart.
Fastening #3:	Roof cover is rolled over the insulation and its 2" laps are sealed. JM PVC Plate Adhesive is liberally applied to the bottom of the Solweld plates. Membrane is mechanically attached using the adhesive coated Solweld plates with Olympic Standard (wood or steel only), Heavy Duty Screws or CD-10 (concrete only), Dekfast #14 or #15 screws, or HD Insulfixx spaced 18" o.c. in rows spaced 48"apart. 6" diameter membrane caps is coated with JM PVC Plate Adhesive and placed over the fastener/plate head.
Fastening #4:	78" wide membrane is mechanically attached using Olympic 2" round steel or ASAP plates with Olympic Standard (wood or steel only), Heavy Duty Screws, or CD-10 (concrete), Dekfast plates with Dekfast Omega, #14 or #15 screws or HD Insulfixx S spaced 18" o.c. through 6" wide laps spaced 72"apart.
Maximum Design Pressure:	-45 psf (See General Limitation # 7)

Deck Type 7: Recover, Non-insulated.

Deck Description: wood/steel/concrete

System Type E: Membrane mechanically attached to deck.

All General and System Limitations apply.

Barrier: (Optional) 1/2" or 5/8" gypsum or Dens Deck secured to the deck with 4 approved fasteners per board.

Membrane: JM PVC Membrane or JM PVC Fleece Back Membrane attached as specified below.

Fastening #1: Roof cover is rolled over the insulation and its 2" laps are sealed. Membrane is mechanically attached using SFS Isofast IF/IG-82x40 plates and IF or IG screws (wood or steel only), Olympic 2" round steel, ASAP or Solweld plates with Olympic Standard (wood or steel only), Heavy Duty Screws or CD-10 (concrete only), Dekfast or Solweld plates with Dekfast #14 or #15 screws, or Solweld plates with HD Insulfixx spaced 6" o.c. in rows 8 ft. apart or 12" o.c. in rows 4 ft. apart. Fastener rows are stripped in with 6" wide strips of membrane or 6" diameter membrane caps, heat or solvent welded.

Fastening #2: Membrane is mechanically attached using Olympic 2" round steel, ASAP, or Solweld plates with Olympic Standard (wood or steel only), Heavy Duty Screws or CD-10 (concrete only), Dekfast or Solweld plates with Dekfast #14 or #15 screws, or Solweld plates with HD Insulfixx spaced 18" o.c. through 3" wide laps spaced 48"apart.

Fastening #3: Roof cover is rolled over the insulation and its 2" laps are sealed. JM PVC Plate Adhesive is liberally applied to the bottom of the Solweld plates. Membrane is mechanically attached using the adhesive coated Solweld plates with Olympic Standard (wood or steel only), Heavy Duty Screws or CD-10 (concrete only), Dekfast #14 or #15 screws, or HD Insulfixx spaced 18" o.c. in rows spaced 48"apart. 6" diameter membrane caps is coated with JM PVC Plate Adhesive and placed over the fastener/plate head.

Fastening #4: 78" wide membrane is mechanically attached using Olympic 2" round steel or ASAP plates with Olympic Standard (wood or steel only), Heavy Duty Screws, or CD-10 (concrete), Dekfast plates with Dekfast Omega, #14 or #15 screws or HD Insulfixx S spaced 18" o.c. through 6" wide laps spaced 72"apart.

Maximum Design Pressure: -45 psf (See General Limitation #7)

RECOVER SYSTEM LIMITATIONS:

1 Existing roof surfaces used as a bonding substrate shall be tested for uplift resistance, in compliance with Miami-Dade County Protocol PA 124 to the calculated design pressures of the field, perimeter and corner areas, determined in compliance with Chapter 23 of the South Florida Building Code.1

2 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 side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered 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. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.

END OF THIS ACCEPTANCE