



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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Johns Manville Corporation
717 17th Street, 9th Floor
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 and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: JM PVC Single Ply Roof Systems over Lightweight Concrete Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

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

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

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

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

This NOA renews and revises NOA No. 17-0427.05 and consists of pages 1 through 24.

The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 22-0425.05
Expiration Date: 12/06/27
Approval Date: 11/10/22
Page 1 of 24

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply
Materials:	PVC
Deck Type:	Lightweight Concrete
Maximum Design Pressure:	-502.5 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
JM PVC	50 mil x roll width x 100' 60 mil x roll width x 100' 80 mil x roll width x 75'	ASTM D4434	PVC polyester reinforced membrane with DuPont™ Elvaloy® KEE. Available in 3.25', 5', 6.5', 10', and 12' rolls.
JM PVC Fleece Backed	50 mil x roll width x 90' 60 mil x roll width x 90'80 mil x roll width x 75'	ASTM D4434	PVC polyester reinforced membrane backed with a lightweight polyester fleece. Available in 6.33' and 12' rolls.
DynaBase	39-3/8" x 49'2"	ASTM D6163	A glass reinforced SBS modified bitumen base sheet.
DynaBase HW	39-3/8" x 49'2"	ASTM D6163	A glass reinforced SBS modified bitumen base sheet for heat welded applications.
JM Vapor Barrier SA	44.9" x 133'	Proprietary	Self-adhered, SBS modified bituminous sheet with tri-laminate woven polyethylene surface
JM PVC Profile	1-1/2" wide x 1-1/4" high x 10' long	Proprietary	Non-reinforced, extruded PVC for simulating the aesthetics of standing seam metal roofing.
JM PVC Spine	3/4" wide x 13/16" high x 7' long	Proprietary	Non-reinforced, extruded PVC for simulating the aesthetics of standing seam metal roofing.
One Step Foamable Adhesive	N/A	Proprietary	Two-part urethane low rise foam insulation
JM Two-Part Urethane Insulation Adhesive	N/A	Proprietary	A two-part urethane insulation adhesive.
JM Roofing System Urethane Adhesive	N/A	Proprietary	A two-part urethane insulation adhesive.
JM PVC Membrane Adhesive (Low VOC)	N/A	Proprietary	Low solvent-based adhesive.



<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
MBR Low VOC Membrane Adhesive	N/A	Proprietary	Single component, polyurethane low solvent-based adhesive
MBR RA Membrane Adhesive	N/A	Proprietary	Two-part, cold process membrane adhesive
JM PVC Penetration Pan	Various	ASTM D4434	Molded PVC for flashing penetration.
JM PVC Pipe Boots	Various	ASTM D4434	Non-reinforced molded PVC flashing penetrations.
JM PVC Universal Corner	Various	ASTM D4434	Non-reinforced molded PVC for inside and outside corner flashing.
JM PVC T-Joint Patch	Various	ASTM D4434	Non-reinforced PVC used to cover T-joints and fasteners.
JM PVC Detail Membrane	Various	ASTM D4434	Non-reinforced PVC used for pipe and corner flashing.
JM PVC Detail Strip	Various	ASTM D4434	PVC used to waterproof joints.
JM PVC Coated Metal	Various	ASTM D4434	JM PVC laminated onto galvanized steel for metal flashings and edge details.
JM PVC Walkpad	Various	ASTM D4434	Textured PVC walk pad.
JM PVC Heavy-Duty	Various	ASTM D4434	Textured PVC walk pad.
JM PVC Split Pipe Boot	Various	ASTM D4434	Reinforced PVC used to flash vent stacks and other round penetrations



APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
JM SECUROCK Gypsum-Fiber Roof Board	Fiber reinforced gypsum cover board	Johns Manville
ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI	Polyisocyanurate Insulation	Johns Manville
ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI	Polyisocyanurate Insulation with glass facer	Johns Manville
ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI	Polyisocyanurate Insulation with coated glass facer	Johns Manville

APPROVED FASTENERS/ADHESIVES:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Millennium Hurricane Force 1-Part Membrane Adhesive	Single component, polyurethane low solvent based adhesive	N/A	H.B. Fuller Company
2.	Millennium Hurricane Force Membrane Adhesive	Two-part, cold process membrane adhesive	N/A	H.B. Fuller Company



EVIDENCE SUBMITTED:

<u>Test Agency Name</u>	<u>Identifier</u>	<u>Report</u>	<u>Date</u>
FM Approvals	3018807	FM 4470	06/25/04
	3014692	FM 4470	08/05/03
	3016629	FM 4470	12/12/03
	3046174	FM 4470	04/03/13
	3023458	FM 4450	07/18/06
	3025881	FM 4450	08/09/06
	3030351	FM 4470	08/01/07
	3037540	FM 4450	10/20/10
	3040105	FM 4470	11/24/10
	3056049	FM 4470	01/13/16
Trinity ERD	J45960.09.13	TAS 114	09/16/13
PRI Construction Materials Technologies, LLC	JMC-171-02-01	ASTM D6163	01/10/14
	JMC-088-02-01.8	ASTM D1876/TAS 117(A)/(B) TAS 114(C)	08/28/20
	JMC-107-02-01.8	ASTM D5147/D903/D1876 TAS 117(A)/(B)/(C)	09/17/20
	JMC-132-02-01	TAS114	04/17/13
	JMC-132-02-02	TAS114	07/01/13
	JMC-163-02-01	FM 4474/TAS114	09/06/13
	JMC-246-02-01	FM 4474/TAS114(D)	03/29/16
	JMC-267-02-02.2	FM 4474/ TAS114(D)	04/21/17
UL LLC	1702T0001	ASTM D4434	02/23/21
	R10167	UL 790	10/19/22
Atlantic & Caribbean Roofing Consultants, LLC	ACRC 14-026	TAS 114(D)	11/19/14
	ACRC 14-027	TAS 114(D)	11/19/14
	ACRC 14-028	TAS 114(D)	11/20/14
	ACRC 14-029	TAS 114(D)	11/20/14
	ACRC 14-031	TAS 114(D)	11/21/14
	ACRC 14-032	TAS 114(D)	11/24/14
	ACRC 14-035	TAS 114(D)	11/25/14
	ACRC 14-036	TAS 114(D)	11/26/14
	ACRC 14-038	TAS 114(D)	12/02/14
	ACRC 14-041	TAS 114(D)	12/03/14
	ACRC 14-042	TAS 114(D)	12/04/14
	ACRC 14-043	TAS 114(D)	12/04/14
	ACRC 14-045	TAS 114(D)	12/09/14
	ACRC 14-046	TAS 114(D)	12/09/14



APPROVED ASSEMBLIES

- Membrane Type:** Single Ply, PVC
- Deck Type 4I:** Lightweight Concrete, Insulated
- Deck Description:** Min. 310 psi, 2” Elastizell Lightweight Insulating Concrete with Zell-Fibers installed over 1” EPS holey board cast over structural concrete deck.
- System Type A:** One or more layers of insulation adhered with approved adhesive; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI Minimum 1.5” thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
JM SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: All insulation shall be adhered to the deck with JM Two-Part Urethane Insulation Adhesive or One Step Foamable Adhesive applied in ¾” – 1” wide ribbons spaced 12” o.c or JM Roofing System Urethane Adhesive applied in ½ - ¾ ” ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM PVC Membrane fully adhered to the insulation with JM PVC Membrane Adhesive (Low VOC) applied at a rate of 0.83 gal/sq on both membrane and the substrate. The minimum 2.5” wide side laps that shall be sealed with a minimum 1.5” wide heat weld.

Maximum Design Pressure: -130 psf. (See General Limitation #9.)



Membrane Type: Single Ply, PVC

Deck Type 4: Lightweight Concrete

Deck Description: Min. 380 psi Concrecel Cellular Lightweight Insulating Concrete cast over structural concrete.

System Type F(1): Membrane adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: JM PVC Fleece Backed Membrane adhered to the deck with MBR Low VOC Membrane Adhesive applied at a rate of 2-2.5 gal/100ft² with minimum 2.5” wide side laps that shall be sealed with a minimum 1.5” wide heat weld.

Maximum Design Pressure: -342.5 psf. (See General Limitation #9.)



Membrane Type: Single Ply, PVC

Deck Type 4: Lightweight Concrete

Deck Description: Minimum 498 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture is laid with a 1/8" slurry coat with a minimum 1" EPS Board and an additional 2" thick topcoat. Celcore PVA Curing compound applied after top coat setting at 300 ft²/gal. cast over optional vapor barrier adhered to structural concrete substrate.

System Type F(2): Membrane adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier: DynaBase HW torch adhered to concrete substrate primed with ASTM D41 primer (Optional) followed by Celcore lightweight insulating concrete cast over the adhered membrane.

Membrane: JM PVC Fleece Backed adhered with JM Roofing System Urethane Adhesive applied in 1/2" - 3/4" ribbons spaced 4" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -257.5 psf. (See General Limitation #9).



Membrane Type: Single Ply, PVC

Deck Type 4: Lightweight Concrete

Deck Description: Minimum 498 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture is laid with a 1/8" slurry coat with a minimum 1" EPS Board and an additional 2" thick topcoat. Celcore PVA Curing compound applied after top coat setting at 300 ft²/gal. cast over cementitious wood fiber substrate.

System Type F(3): Membrane adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: JM PVC Fleece Backed adhered to the deck per one of the following:

Option #1: Membrane adhered to the deck with JM Roofing System Urethane Adhesive applied in 1/2" - 3/4" ribbons 4" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.
Maximum Design Pressure: -197.5 psf. (See General Limitation #9.)

Option #2: Membrane adhered to the deck with JM Roofing System Urethane Adhesive applied in 1/2" - 3/4" ribbons 12" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.
Maximum Design Pressure: -167.5 psf. (See General Limitation #9.)

Maximum Design Pressure: See Options Above



Membrane Type: Single Ply, PVC

Deck Type 4: Lightweight Concrete

Deck Description: Min. 379 psi Concrecel Cellular Lightweight Insulating Concrete cast over structural concrete deck.

System Type F(4): Membrane fully adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: JM PVC Fleece Backed fully adhered to the deck with Millennium Hurricane Force 1-Part Membrane Adhesive at a rate of 2-2.5 gal/100ft² with minimum 2.5” wide side laps that shall be sealed with a minimum 1.5” wide heat weld.

Maximum Design Pressure: -342.5 psf. (See General Limitation #9).



Membrane Type: Single Ply, PVC

Deck Type 4: Lightweight Concrete

Deck Description: Min. 568 psi, 2" Elastizell Lightweight Insulating Concrete with Zell-Fibers cast over structural concrete

System Type F(5): Membrane adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Sheet: DynaBase adhered with JM MBR RA Membrane Adhesive applied in 1/2-3/4" wide ribbons spaced 12" o.c. with a 4" side lap.

Membrane: JM PVC Fleece Backed membrane is adhered with JM Roofing System Urethane Adhesive applied in 1/2-3/4" wide ribbons spaced 12" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -136 psf. (See General Limitation #9).



Membrane Type: Single Ply, PVC
Deck Type 4: Lightweight Concrete
Deck Description: Min. 568 psi, 2" Elastizell Lightweight Insulating Concrete with Zell-Fibers cast over structural concrete
System Type F(6): Membrane adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Sheet: DynaBase adhered with Millennium Hurricane Force Membrane Adhesive applied in 1/2-3/4" wide ribbons spaced 6" o.c. with a 4" side lap.
Membrane: JM PVC Fleece Backed membrane is adhered with JM Roofing System Urethane Adhesive applied in 1/2-3/4" wide ribbons spaced 6" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.
Maximum Design Pressure: -192.5 psf. (See General Limitation #9).



Membrane Type: Single Ply, PVC

Deck Type 4: Lightweight Concrete

Deck Description: Min. 568 psi, 2" Elastizell Lightweight Insulating Concrete with Zell-Fibers cast over an optional vapor barrier adhered to structural concrete substrate.

System Type F(7): Membrane adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier: DynaBase HW torch adhered to concrete substrate primed with JM Asphalt Primer (Optional) followed by Elastizell lightweight insulating concrete cast over the adhered membrane.

Maximum Design Pressure: -52.5 psf. (See General Limitation #9.)

Membrane: JM PVC Fleece Backed membrane is adhered with JM Roofing System Urethane Adhesive applied in 1/2-3/4" wide ribbons spaced 12" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -177.5 psf. (See General Limitation #9).



Membrane Type: Single Ply, PVC

Deck Type 4: Lightweight Concrete

Deck Description: Min. 568 psi, 2" Elastizell Lightweight Insulating Concrete with Zell-Fibers cast over structural concrete

System Type F(8): Membrane adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: JM PVC Fleece Backed membrane is fully with JM Roofing System Urethane Adhesive applied in ½-¾" wide ribbons spaced 6" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -215 psf. (See General Limitation #9).



Membrane Type: Single Ply, PVC

Deck Type 4: Lightweight Concrete

Deck Description: Min. 498 psi Celcore MF with Celcore HS Rheology Modifying Admixture; Min. 1/8" slurry coat; Min. 1" EPS board; Min. 2" top coating with PVA curing compound cast over cementitious wood fiber or structural concrete.

System Type F(9): Membrane adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base sheet: DynaBase adhered with Millennium Hurricane Force Membrane Adhesive applied in 1" wide ribbons spaced 6" o.c. with a 4" side lap.

Membrane: JM PVC Fleece Backed adhered to the deck with JM Roofing System Urethane Adhesive applied in 1/2" - 3/4" ribbons 6" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -117.5 psf. LWC over cementitious wood fiber (See General Limitation #9).
-192.5 psf. LWC over concrete (See General Limitation #9).



Membrane Type: Single Ply, PVC

Deck Type 4: Lightweight Concrete

Deck Description: Min. 498 psi Celcore MF with Celcore HS Rheology Modifying Admixture; Min. 1/8" slurry coat; Min. 1" EPS board; Min. 2" top coating with PVA curing compound cast over cementitious wood fiber or structural concrete.

System Type F(10): Membrane adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base sheet: DynaBase adhered with Millennium Hurricane Force Membrane Adhesive applied in 1" wide ribbons spaced 12" o.c. with a 4" side lap.

Membrane: JM PVC Fleece Backed adhered to the deck with JM Roofing System Urethane Adhesive applied in 1/2" - 3/4" ribbons 12" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -117.5 psf. (See General Limitation #9).



Membrane Type: Single Ply, PVC

Deck Type 4: Lightweight Concrete

Deck Description: Min. 383.5 psi Celcore lightweight insulating concrete cast over 22 ga. Grade 90 vented type B galvanized steel.

System Type F(11): Membrane adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: JM PVC Fleece Backed membrane adhered to the deck with JM Roofng System Urethane Adhesive applied in 1/2" - 3/4" ribbons 6" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -204.5 psf (See General Limitation #9).



Membrane Type: Single Ply, PVC

Deck Type 4: Lightweight Concrete

Deck Description: Min. 383.5 psi Celcore lightweight insulating concrete cast over optional vapor barrier or directly onto primed structural concrete.

System Type F(12): Membrane adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier: Option #1:
(Optional) DynaBase HW torch adhered to concrete substrate primed with JM Asphalt Primer (ASTM D41 Type II) followed by Celcore lightweight insulating concrete cast over the adhered membrane.

Maximum Design Pressure: -262.5 psf. (See General Limitation #9.)

Option #2:
JM Vapor Barrier SA adhered to concrete substrate primed with JM Asphalt Primer (ASTM D41 Type II) followed by Celcore lightweight insulating concrete cast over the adhered membrane.

Maximum Design Pressure: -67.50 psf. (See General Limitation #9.)

Membrane: JM PVC Fleece Backed Membrane adhered with JM Roofng System Urethane Adhesive applied in 1/2" - 3/4" ribbons 6" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -502.5 psf. (See General Limitation #9.)

Maximum Design Pressure: See Options Above



Membrane Type: Single Ply, PVC

Deck Type 4: Lightweight Concrete

Deck Description: Min. 383.5 psi Celcore lightweight insulating concrete cast over primed structural concrete.

System Type F(13): Membrane adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: JM PVC Fleece Backed Membrane adhered with JM Roofng System Urethane Adhesive applied in 1/2" - 3/4" ribbons 12" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.

Maximum Design

Pressure: -398 psf. (See General Limitation #9.)



Membrane Type: Single Ply, PVC

Deck Type 4: Lightweight Concrete

Deck Description: Min. 370 psi Concrecel lightweight insulating concrete cast over 22 ga. Grade 90 vented type B galvanized steel.

System Type F(14): Membrane adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: JM PVC Fleece Backed adhered to the deck with JM Roofng System Urethane Adhesive applied in 1/2" - 3/4" ribbons 12" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.

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



Membrane Type: Single Ply, PVC

Deck Type 4: Lightweight Concrete

Deck Description: Min. 370 psi Concrecel lightweight insulating concrete cast over structural concrete.

System Type F(15): Membrane adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: JM PVC Fleece Backed adhered to the deck per one of the following:

Option #1: Membrane adhered to the deck with JM Roofng System Urethane Adhesive applied in 1/2" - 3/4" ribbons 6" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.
Maximum Design Pressure: -480 psf. (See General Limitation #9.)

Option #2: Membrane adhered to the deck with JM Roofng System Urethane Adhesive applied in 1/2" - 3/4" ribbons 12" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.
Maximum Design Pressure: -343.5 psf. (See General Limitation #9.)

Maximum Design Pressure: See Options Above



Membrane Type: Single Ply, PVC

Deck Type 4: Lightweight Concrete

Deck Description: Min. 213.5 psi Elastizell lightweight insulating concrete cast over an optional vapor barrier adhered to structural concrete substrate.

System Type F(16): Membrane adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier: (Optional) DynaBase HW torch adhered to concrete substrate primed with JM Asphalt Primer (ASTM D41 Type II) followed by Elastizell lightweight insulating concrete cast over the adhered membrane.

Maximum Design Pressure: -52.5 psf. (See General Limitation #9.)

Membrane: JM PVC Fleece Backed adhered per one of the following:

Option #1: Membrane adhered with JM Roofing System Urethane Adhesive applied in 1/2" - 3/4" ribbons 4" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -390 psf. (See General Limitation #9.)

Option #2: Membrane adhered with JM Roofing System Urethane Adhesive applied in 1/2" - 3/4" ribbons 6" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -67.5 psf. (See General Limitation #9.)

Option #3: Membrane adhered with JM Roofing System Urethane Adhesive applied in 1/2" - 3/4" ribbons 12" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -90 psf. (See General Limitation #9.)

Maximum Design Pressure: See Options Above



Membrane Type: Single Ply, PVC

Deck Type 4: Lightweight Concrete

Deck Description: Min. 213.5 psi Elastizell lightweight insulating concrete cast over 22 ga., Grade 90, vented type B galvanized steel.

System Type F(17): Membrane adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: JM PVC Fleece Backed adhered to the deck per one of the following:

Option #1: Membrane adhered to the deck with JM Roofng System Urethane Adhesive applied in 1/2" - 3/4" ribbons 6" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -300 psf. (See General Limitation #9.)

Option #2: Membrane adhered to the deck with JM Roofng System Urethane Adhesive applied in 1/2" - 3/4" ribbons 12" o.c. with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -217.5 psf. (See General Limitation #9.)

Maximum Design Pressure: See Options Above



LIGHTWEIGHT INSULATING CONCRETE SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117 and/or RAS 137, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.
3. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be a minimum of 300 psi.

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 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 and/or RAS 137. 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 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



NOA No.: 22-0425.05
Expiration Date: 12/06/27
Approval Date: 11/10/22
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