



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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www.miamidade.gov/economy

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 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 TPO Single Ply Roof Systems over Concrete Decks.

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

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

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

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

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

This NOA renews and revises NOA No. 21-0513.03 and consists of pages 1 through 27.
The submitted documentation was reviewed by Jorge L. Acebo.

12/26/24



NOA No.: 23-0509.02
Expiration Date: 12/24/29
Approval Date: 12/26/24
Page 1 of 27

ROOFING SYSTEM APPROVAL

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

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
JM TPO 45	45 mils thick	ASTM D6878 TAS 131	Polyester reinforced Thermoplastic Olefin single ply membrane.
JM TPO 60	60 mils thick	ASTM D6878 TAS 131	Polyester reinforced Thermoplastic Olefin single ply membrane.
JM TPO 80	80 mils thick	ASTM D6878 TAS 131	Polyester reinforced Thermoplastic Olefin single ply membrane.
JM TPO FB 115	60 mils thick	ASTM D6878 TAS 131	Polyester reinforced, fleece backed, Thermoplastic Olefin single ply membrane.
JM TPO FB 135	80 mils thick	ASTM D6878 TAS 131	Polyester reinforced, fleece backed, Thermoplastic Olefin single ply membrane.
JM TPO FB 150	60 mils thick	ASTM D6878 TAS 131	Polyester reinforced, heavy-fleece backed, Thermoplastic Olefin single ply membrane.
JM TPO FB 175	80 mils thick	ASTM D6878 TAS 131	Polyester reinforced, heavy-fleece backed, Thermoplastic Olefin single ply membrane.
DynaBase	39-3/8" x 49'2"	ASTM D6163, Type I Grade S	An SBS modified bitumen coated, fiberglass reinforced base sheet.
JM One Step Foamable Adhesive	N/A	Proprietary	Two part urethane low rise foam insulation
JM Two Part Urethane Insulation Adhesive	Various	Proprietary	A two-component, cold-applied adhesive.
JM Two Part Urethane Insulation Adhesive Canister	N/A	Proprietary	Self-contained two-part, low-rise foam adhesive
JM Roofing System Urethane Adhesive	Various	Proprietary	A two-component, cold-applied adhesive.
JM Membrane Bonding Adhesive (TPO & EPDM)	5 gal.	Proprietary	One-part, synthetic polymer-based membrane adhesive
JM LVOC Membrane Adhesive (TPO & EPDM)	5 gal.	Proprietary	A synthetic rubber-based adhesive used to adhere TPO roofing membrane systems.



TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
JM TPO Water Based Membrane Adhesive	5 gal.	Proprietary	One part, water based adhesive used to adhered TPO roofing membrane systems
JM TPO Membrane Primer	3 gal.	Proprietary	A synthetic polymer-based primer.
JM Single Ply Membrane Primer (Low VOC)	3 gal.	Proprietary	A low VOC, synthetic polymer-based primer.
JM TPO Walkpad	5/32" x 30" x 50'	Proprietary	Textured walkway protection membrane.
JM TPO Detail Membrane	24" x 50'	TAS 131	Non-reinforced membrane for wrapping pipe flashings and vertical stacks and for waterproofing joints of JM TPO Coated Metal.
JM TPO Universal Corners	Various	TAS 131	Pre-molded for easy installation of curb flashings or corner flashings on JM TPO-Coated Metal or JM TPO Membrane.
JM TPO T-Joint Patch	4"	TAS 131	Non-reinforced membrane patch for covering t-joints and/or discs and fasteners.
JM TPO Pipe Boots	1" x 6"	TAS 131	Cone-shaped stepping boots designed for flashing pipe penetrations.
JM TPO Peel & Stick Pipe Boots	1" x 6"	TAS 131	Cone-shaped stepping boots designed for flashing pipe penetrations.
JM TPO Split Pipe Boot	Various	TAS 131	Cone shaped stepping boots designed for flashing pipe penetrations.
JM Square Pipe Boots	2" x 8" & 4" x 8"	TAS 131	Square shaped stepping boots designed for flashing pipe penetrations.
JM TPO Cover Tape	6" x 100'	TAS 131	30 mil membrane with a factory-applied peel and stick adhesive tape used to strip in metal flanges.
JM TPO 10" Cover Tape	10" x 100'	TAS 131	30 mil membrane with a factory-applied peel and stick adhesive tape used to strip in metal flanges.
JM TPO Penetration Pocket	7.5" x 6"	TAS 131	Two-piece molded pocket with a rigid vertical wall and preformed flanges.
JM TPO Coated Metal	4' x 10'	Proprietary	JM TPO Membrane laminated onto galvanized steel.
JM TPO Peel & Stick 6" RTS	6" x 100'	TAS 131	45 mil TPO membrane strip with a 3" tape factory laminated along one edge.
JM TPO Peel & Stick 10" RPS	10" x 100'	TAS 131	45 mil TPO membrane strip with a 3" tape factory laminated along one edge.



TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
JM TPO Curb Flashing	18" x 50'	TAS 131	60 mil TPO membrane for flashing curbs and parapet walls.
JM TPO Reinforced Cover Strip	8" x 50'	TAS 131	60 mil TPO membrane strip use as a heat-weldable strip in mechanically fastened systems.
JM Vapor Barrier SA	45" x 134'	Proprietary	Polyethylene-Reinforced, Self-Adhering SBS Vapor Barrier

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
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, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI	Isocyanurate Insulation with glass reinforced facers	Johns Manville
ENRGY 3 FR, ENRGY 3 FR 25 PSI	Isocyanurate Insulation with inorganic coated glass reinforced facers; bottom face is premium coated for combustible decks.	Johns Manville
RetroPlus Roof Board	High density, perlite base cover board	Johns Manville
JM SECUROCK Gypsum-Fiber Roof Board	Fiber reinforced coverboard	Johns Manville
DensDeck	Silicone treated gypsum	Georgia Pacific Gypsum, LLC
DEXCell FA Glass Mat Roof Board	Coated glass mat faced gypsum cover board	National Gypsum Company
DEXCell Cement Roof Board	Cement and glass mesh cover board	National Gypsum Company



APPROVED FASTENERS/ADHESIVES:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	UltraFast Metal Plate Recessed and UltraFast Plate Metal (Round)	Galvalume AZ55 steel Insulation Plate	3” diameter	Johns Manville
2.	UltraFast Square Metal Plate	Galvalume AZ55 steel Insulation Plate	3” square	Johns Manville
3.	All Purpose Fasteners	Insulation and membrane fastener	#14 x 16” max. length; #3 Phillips head	Johns Manville
4.	High Load Plates	Seam plate with reinforcing ribs and eyehooks	2-3/8” round steel plate	Johns Manville
5.	JM TPO RhinoPlate	Insulation Plates	3.15” diameter,	Johns Manville
6.	High Load Plus Plate	Seam plate with reinforcing ribs and eyehooks	2-3/4” round steel plates	Johns Manville
7.	Polyset Commercial Roof Adhesive	Spray applied, two-part reactive urethane foam adhesive	Various	ICP Construction, Inc.



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
FM Approvals	3032235	FM 4470	06/27/08
	3030383	FM 4470	05/13/08
	3023458	FM 4450	07/18/06
	3036842	FM 4470	10/02/09
	3036559	FM 4470	10/02/09
	3035538	FM 4470	10/02/09
	3044716	FM 4470	10/29/12
	3046174	FM 4470	04/03/13
	3051609	FM 4470	08/24/14
	3053026	FM 4470	01/20/15
	3056677	FM 4470	02/22/16
	3060614	FM 4470	04/14/17
	3058326	FM 4470	09/30/16
	3063554	FM 4470	02/15/18
	3055845	FM 4470	05/25/16
	3056049	FM 4470	01/13/16
	3033308	FM 4470	09/03/08
PRI Construction Materials Technologies LLC	JMC-088-02-01.5	ASTM D1876/TAS 117(B) TAS 117(A)/TAS 114(C)	02/22/18
	JMC-132-02-02	TAS 114(D)	07/01/13
	JMC-143-02-01	TAS 114(D)	07/01/13
	JMC-183-02-01.1	Physical Properties	12/18/13
	JMC-186-02-01.1	TAS 131	09/19/14
	JMC-186-02-02.1	TAS 131	10/10/14
	JMC-319-02-01.1	TAS 131	08/28/18
	JMC-193-02-01	TAS 114 J	04/01/14
	JMC-193-02-01A.1	TAS 114 J	04/02/14
	JMC-209-02-01	TAS 114 J	10/15/14
	JMC-214-02-01	Physical Properties	11/03/14
	JMC-221-02-01	Physical Properties	11/19/14
	JMC-277-02-01	TAS 114 D	05/04/17
	JMC-303-02-01	TAS 114 J	05/25/17
	JMC-311-02-01	TAS 114 D	06/26/17
	507T0412.1	TAS 114 E	05/30/24
	507T0438	TAS 114 E	08/13/24
UL LLC	R10167	UL 790	10/04/24
Trinity ERD	J33600.08.13	TAS 131	08/09/13
	SC4910.02.14	TAS 114J	02/10/14



APPROVED ASSEMBLIES:

- Membrane Type:** TPO
- Deck Type 3I:** Concrete, Insulated
- Deck Description:** Min. 2500 psi structural concrete or concrete plank
- System Type A(1):** 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.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
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

Note: All insulation shall be adhered in 3/4” wide ribbons of JM Roofing System Urethane Adhesive or JM One Step Foamable Adhesive spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

- Membrane:** JM TPO adhered to insulation using JM Membrane Bonding Adhesive (TPO & EPDM) applied at a combined rate of 1.10 gal./sq. or JM LVOC Membrane Adhesive (TPO & EPDM) applied at a rate of 0.83 gal./sq. Side laps will be a minimum 2.5” wide and shall be sealed with a minimum 1.5” wide heat weld.
- Maximum Design Pressures:** -217.5 psf. (See General Limitation #9)



- Membrane Type:** TPO
- Deck Type 3I:** Concrete, Insulated
- Deck Description:** Min. 2500 psi structural concrete or concrete plank
- System Type A(2):** 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.

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 (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft²
DEXCell FA Glass Mat Roof Board Minimum ¼" thick	N/A	N/A
DEXCell Cement Roof Board Minimum 7/16" thick	N/A	N/A

Note: All insulation layers shall be adhered with ¾" wide ribbons of JM Two Part Urethane Insulation Adhesive, JM Two Part Urethane Insulation Adhesive Canister, (not to DEXCell), JM One Step Foamable Adhesive (not to DEXCell), or JM Roofing System Urethane Adhesive (not to DEXCell) spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

- Membrane:** JM TPO adhered to insulation using JM LVOC Membrane Adhesive (TPO & EPDM), or JM Membrane Bonding Adhesive (TPO & EPDM) (not to DEXCell) applied at a rate of 0.83 gal./sq.. or JM TPO Water Based Membrane Adhesive applied at a rate of 0.63-0.83 gal./sq. Side laps will be a minimum 2.5" wide and shall be sealed with a minimum 1.5" wide heat weld.
Or
- Membrane:** JM TPO FB 115 or 135 adhered to insulation using JM TPO Water Based Membrane Adhesive applied at a rate of 0.63-0.83 gal./sq. or JM Two Part Urethane Insulation Adhesive Canister (not to DEXCell) applied in splatter pattern at 0.318 gal./sq. Side laps will be a minimum 2.5" wide and shall be sealed with a minimum 1.5" wide heat weld.
(Continued)
- Maximum Design Pressures:** -105 psf. with JM Two Part Urethane Insulation Adhesive JM Two Part Urethane Insulation Adhesive Canister, or JM Roofing System Urethane Adhesive (See General Limitation #9)
-75 psf. with JM One Step Foamable Adhesive (See General Limitation #9)



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

All General and System Limitations apply. 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 adhered to structural concrete deck with Millennium Hurricane Force Membrane Adhesive applied in 1/2" to 3/4" ribbons spaced 6" o.c.

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 Minimum 1.5" thick	N/A	N/A

Note: All Insulation layers shall be adhered with JM Roofing System Urethane Adhesive, JM Two Part Urethane Adhesive, JM Two Part Urethane Insulation Adhesive Canister or JM One Step Foamable Adhesive applied in 1/2" to 3/4" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: DynaBase adhered to insulation with Millennium Hurricane Force Membrane Adhesive applied in 1/2" to 3/4" ribbons spaced 6" o.c.

Membrane: JM TPO FB 115 or JM TPO FB 135 adhered to insulation using with JM Roofing System Urethane Adhesive applied in 1/2" to 3/4" ribbons spaced 12" o.c. or JM Two Part Urethane Insulation Adhesive Canister applied in splatter pattern at 0.318 gal./sq. Side laps will be a minimum 2.5" wide and shall be sealed with a minimum 1.5" wide heat weld.

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



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

All General and System Limitations apply. 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 any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
JM SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A
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, ENRGY 3 FR, ENRGY 3 FR 25 PSI Minimum 1.5” thick	N/A	N/A

Note: All Insulation layers shall be adhered JM Roofing System Urethane Adhesive JM Two-Part Urethane Insulation Adhesive, or JM Two Part Urethane Insulation Adhesive Canister applied in ½” to ¾” ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO fully adhered to insulation using JM TPO Water Based Membrane Adhesive applied at the rates listed below. Side laps will be a minimum 2.5” wide and shall be sealed with a minimum 1.5” wide heat weld.
0.63-0.83 gal./sq. when applied over ENRGY 3, ValuTherm, or R-Panel Insulation Boards.
0.59-0.77 gal./sq. when applied over JM SECUROCK Gypsum-Fiber Roof Board.
Or
(to ENRGY 3 only) JM TPO fully adhered to insulation using JM Membrane Bonding Adhesive (TPO & EPDM) applied at a combined rate of 1.10 gal./sq. to both the membrane and the substrate. Side laps will be a minimum 2.5” wide and shall be sealed with a minimum 1.5” wide heat weld.
Or
(to ENRGY 3 or SECUROCK only) JM TPO FB 115 or 135 fully adhered to insulation using JM Two Part Urethane Insulation Adhesive Canister applied in splatter pattern at 0.318 gal./sq. Side laps will be a minimum 2.5” wide and shall be sealed with a minimum 1.5” wide heat weld.

Maximum Design Pressures: -195 psf. with ENRGY 3, ValuTherm, or R-Panel (See General Limitation #9)
-465 psf. with SECUROCK (See General Limitation #9)



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

All General and System Limitations apply. 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 any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
JM SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A
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, ENRGY 3 FR, ENRGY 3 FR 25 PSI Minimum 1.5” thick	N/A	N/A

Note: All Insulation layers shall be adhered JM Roofing System Urethane Adhesive or JM Two-Part Urethane Insulation Adhesive, or JM Two Part Urethane Insulation Adhesive Canister applied in ½” to ¾” ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO FB 115 or 135 fully adhered to insulation using JM TPO Water Based Membrane Adhesive applied at the rates listed below. Side laps will be a minimum 2.5” wide and shall be sealed with a minimum 1.5” wide heat weld.
0.63-0.83 gal./sq. when applied over ENRGY 3, ValuTherm, or R-Panel Insulation Boards.
0.59-0.77 gal./sq. when applied over JM SECUROCK Gypsum-Fiber Roof Board.
Or
(to ENRGY 3 or SECUROCK only) JM TPO FB 115 or 135 fully adhered to insulation using JM Two Part Urethane Insulation Adhesive Canister applied in splatter pattern at 0.318 gal./sq. Side laps will be a minimum 2.5” wide and shall be sealed with a minimum 1.5” wide heat weld.

Maximum Design Pressures: -187.5 psf. with ENRGY 3, ValuTherm, or R-Panel (See General Limitation #9)
--345 psf. with SECUROCK (See General Limitation #9)



Membrane Type: TPO
Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(6): One or more layers of insulation adhered with approved asphalt or 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.

Vapor Barrier: (Optional) One ply of JM Vapor Barrier SA self-adhered to the deck primed with JM SA Primer applied at a rate of 0.5 gal./sq.

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 Minimum 1.5" thick	N/A	N/A
Top Insulation Layer (Optional when no Vapor Barrier is used) JM SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	Insulation Fasteners (Table 3) N/A	Fastener Density/ft² N/A

Note: All insulation shall be adhered to the deck with ½" to ¾" wide beads of JM Roofing System Urethan Adhesive, JM Two Part Urethane Insulation Adhesive, JM Two Part Urethane Insulation Adhesive Canister 12" o.c. or JM One Step Foamable Adhesive (JM SECUROCK Gypsum-Fiber Roof Board only). Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO FB 115 or 135 adhered with JM Roofing System Urethane Adhesive applied in ½" to ¾" ribbons spaced 12" o.c. or JM Two Part Urethane Insulation Adhesive Canister applied in splatter pattern at 0.318 gal./sq. or Polyset Commercial Roof Adhesive (to SECUROCK only) applied in ¾" to 1" ribbons spaced 12" o.c. or JM TPO Water Based Membrane Adhesive (only to SECUROCK) applied at a rate of 0.6-0.8 gal./sq. Side laps will be a minimum 2.5" wide and shall be sealed with a minimum 1.5" wide heat weld.

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



Membrane Type: TPO
Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(7): One or more layers of insulation adhered with approved asphalt or 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:

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, ENRGY 3 FR, ENRGY 3 FR 25 PSI Minimum 1.5" thick	N/A	N/A

Note: All insulation shall be adhered to the deck with 3/4" wide beads of JM Two Part Urethane Insulation Adhesive or JM Two Part Urethane Insulation Adhesive Canister, 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO adhered with JM Membrane Bonding Adhesive (TPO & EPDM) applied at a combined rate of 1.10 gal./sq. to both the membrane and the substrate. Side laps will be a minimum 2.5" wide and shall be sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -322.5 psf. (See General Limitation #9.)



Membrane Type: TPO
Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(8): One or more layers of insulation adhered with approved asphalt or 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:

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, ENRGY 3 FR, ENRGY 3 FR 25 PSI Minimum 1.5" thick	N/A	N/A
SECUROCK Gypsum Fiber Roof Board Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered to the deck with ¾" wide beads of JM Two Part Urethane Insulation Adhesive Canister, 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO FB 115 or 135 adhered with JM Two Part Urethane Insulation Adhesive Canister in splatter pattern at 0.318 gal./sq. Side laps will be a minimum 2" wide and shall be sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -277.5 psf. with ENRGY 3 insulation (See General Limitation #9.)
-465 psf. with SECUROCK insulation (See General Limitation #9.)



Membrane Type: TPO
Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(9): One or more layers of insulation adhered with approved asphalt or 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:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
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, ENRGY 3 FR, ENRGY 3 FR 25 PSI Minimum 1.5" thick	N/A	N/A

Note: All insulation shall be adhered to the deck with 3/4" wide beads of JM Two Part Urethane Insulation Adhesive, JM One Step Foamable Adhesive, JM Roofing Systems Urethane Adhesive or JM Two Part Urethane Insulation Adhesive Canister, 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO FB 115 or 135 adhered with JM Roofing System Urethane Adhesive or JM Two Part Urethane Insulation Adhesive in 3/4" wide ribbons spaced 4" o.c. or with JM Two Part Urethane Insulation Adhesive Canister in splatter pattern at 0.318 gal./sq. Side laps will be a minimum 2" wide and shall be sealed with a minimum 1.5" wide heat weld.

Or

JM TPO adhered with JM Membrane Bonding Adhesive (TPO & EPDM) at a combined rate of 1.10 gal./sq. Side laps will be a minimum 2" wide and shall be sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -112.5 psf. (See General Limitation #9.)



Membrane Type: TPO
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(10): One or more layers of insulation adhered with approved asphalt or 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:

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

Note: All insulation shall be adhered to the deck with 3/4" wide beads of JM Two Part Urethane Insulation Adhesive, JM Two Part Urethane Insulation Adhesive Canister, JM One Step Foamable Adhesive, or JM Roofing System Urethane Adhesive spaced at 12" o.c. or hot asphalt. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO FB 150 or 175 Membrane is fully adhered to the insulation with approved hot asphalt applied at 20-25 lbs./sq. 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.)



Membrane Type: TPO
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type B: Base layer of insulation mechanically attached. Top layer of insulation fully adhered with approved asphalt or adhesive.

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:

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, ENRGY 3 FR, ENRGY 3 FR 25 PSI		
Minimum 1.5" thick	3 with 1 or 2	1:2 ft²
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
RetroPlus Roof Board, DensDeck Prime, DEXCell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board		
Minimum ½" thick	N/A	N/A

Note: All insulation shall be adhered to the deck with ¾" wide ribbons spaced 12" o.c. of JM Two-Part Urethane Insulation Adhesive or JM Two Part Urethane Insulation Adhesive Canister. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO FB 150 or 175 fully adhered to the insulation with hot asphalt within the EVT range and at a rate of 20-25 lbs./100 ft². Side laps will be a minimum 2.5" wide and shall be sealed with a minimum 1.5" wide heat weld.

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



Membrane Type: TPO
Deck Type 2I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type C(1): Top layer of insulation mechanically fastened, 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.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
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, ENRGY 3 FR, ENRGY 3 FR 25 PSI	3 with 1 or 2	1:2 ft²
Minimum 1.5" thick		

Note: All layers shall be simultaneously fastened; see above for fasteners and density. 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. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO adhered to insulation using JM Membrane Bonding Adhesive (TPO & EPDM) applied at a combined rate of 1.10 gal./sq. or JM TPO Water Based Membrane Adhesive applied at a rate of 0.63-0.83 gal./sq. Side laps will be a minimum 2.5" wide and shall be sealed with a minimum 1.5" wide heat weld.

Or

JM TPO FB 115 or 135 adhered to insulation using JM TPO Water Based Membrane Adhesive applied at a rate of 0.63-0.83 gal./sq. Side laps will be a minimum 2.5" wide and shall be sealed with a minimum 1.5" wide heat weld.

Or

JM TPO FB 150 or 175 Membrane is fully adhered to the insulation with approved hot asphalt applied at 20-25 lbs./sq with minimum 2.5" wide side laps that shall be sealed with a minimum 1.5" wide heat weld.

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



Membrane Type: TPO
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type C(2): Top layer of insulation mechanically fastened; membrane adhered to fastener plates.

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 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, ENRGY 3 FR, ENRGY 3 FR 25 PSI Minimum 1.5" thick	3 with 5	1:4 ft² or secured with top layer
Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck, JM SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	3 with 5	1:4 ft²
Plywood Minimum 19/32" thick	3 with 5	1:4 ft²

Note: Top layer 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. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO (min. 60 mil) membrane bonded to JM TPO RhinoPlates fastened as specified above. Side laps shall be a minimum 2.5" wide and are sealed with a 1.5" wide heat weld offset from the plates.

Maximum Design Pressures: -67.5 psf. (See General Limitation #7)



Membrane Type: TPO
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type C(3): Top layer of insulation mechanically fastened; membrane adhered to fastener plates.

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 Insulation Layer (Optional)	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, ENRGY 3 FR, ENRGY 3 FR 25 PSI Minimum ½” thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
JM SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	3 with 5	See Maximum Design Pressure
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, ENRGY 3 FR, ENRGY 3 FR 25 PSI Minimum 1” thick	3 with 5	See Maximum Design Pressure

Note: The minimum total thickness of the insulation layer(s) shall be 1.25”. Top layer 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. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO (min. 60 mil) membrane bonded to JM TPO RhinoPlates fastened as specified above. Side laps shall be a minimum 2.5” wide and are sealed with a minimum 1.5” wide heat weld offset from the plates.

Maximum Design Pressures:
 -75 psf. at **1:2.67 ft²** (See General Limitation #7)
 -90 psf. at **1:2.13 ft²** (See General Limitation #7)
 -52.5 psf. at **1:4 ft²** (See General Limitation #7)



Membrane Type: TPO
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type C(4): All layers of insulation simultaneously fastened; membrane 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.

Base Insulation Layer (Optional)	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, ENRGY 3 FR, ENRGY 3 FR 25 PSI Minimum ½” thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft2
DensDeck, JM SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	3 with 5	See below
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, ENRGY 3 FR, ENRGY 3 FR 25 PSI Minimum 1” thick	3 with 5	See below

Note: The minimum total thickness of the insulation layer(s) shall be 1.25”. Top layer 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. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO (min. 60 mil) induction welded to the JM TPO RhinoPlates as described below. Side laps shall be a minimum 6” wide and sealed with a minimum 1.5” heat weld offset from plates.

Fastening #1: Insulation shall be mechanically fastened at maximum 12” o.c. in fastener rows spaced a maximum 60” o.c.
Maximum Design Pressure -45 psf. (See General Limitations # 7)

Fastening #2: Insulation shall be mechanically fastened at a maximum 6” o.c. in fastener rows spaced a maximum 72” o.c.
Maximum Design Pressure -82.5 psf. (See General Limitations # 7)

Fastening #3: Insulation shall be mechanically fastened at a maximum 6” o.c. in fastener rows spaced a maximum 60” o.c.
Maximum Design Pressure -90 psf. (See General Limitations # 7)

Maximum Design Pressures: See Fastening Pattern.



Membrane Type: TPO
Deck Type 2I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type C(5): One or more layers of insulation simultaneously attached. Membrane 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.

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, ENRGY 3 FR, ENRGY 3 FR 25 PSI Minimum 1.5" thick	See below	See below
Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck, JM SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	See below	See below
Plywood Minimum 19/32" thick	See below	See below

Note: Insulation shall be loose-laid and membrane welded to plates. See below for fasteners and spacing. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Membrane: JM TPO induction welded to JM TPO RhinoPlates as described below. Side laps shall be a minimum 6" wide and sealed with a minimum 1.5" heat weld offset from plates.

Fastening #1: JM TPO RhinoPlates and All Purpose Fasteners spaced 6" o.c. in fastener rows spaced a maximum 120" o.c.
Maximum Design Pressure -45 psf. (See General Limitations # 7)

Fastening #2: JM TPO RhinoPlates and All Purpose Fasteners spaced 12" o.c. in fastener rows spaced a maximum 60" o.c.
Maximum Design Pressure -52.5 psf. (See General Limitations # 7)

Fastening #3: JM TPO RhinoPlates and All Purpose Fasteners spaced 6" o.c. in fastener rows spaced a maximum 60" o.c.
Maximum Design Pressure -105 psf. (See General Limitations # 7)

Maximum Design Pressures: See Fastening Pattern.



Membrane Type: TPO
Deck Type 2I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type D(1): Membrane attached over preliminary fastened insulation.

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 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, ENRGY 3 FR, ENRGY 3 FR 25 PSI		
Minimum 1.5” thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft2
DensDeck, JM SECUROCK Gypsum-Fiber Roof Board		
Minimum ¼” thick	N/A	N/A
Plywood		
Minimum 19/32” thick	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.

Membrane: JM TPO is primed with JM TPO Membrane Primer or JM Single Ply Membrane Primer (Low VOC) and attached to the deck through the insulation with JM TPO 10” RPS membrane strips mechanically fastened as described below.

JM TPO 10” RPS membrane strips are secured to deck through the insulation with High Load Plates and All Purpose Fasteners in 14” rows, 6” o.c. The fasteners and plates are installed in the center down the middle of the JM TPO 10” RPS membrane strips. The primed JM TPO membrane is walked in over the self-adhering JM TPO 10” RPS membrane strips. The JM TPO membrane side laps are sealed with a minimum 2.5” wide side laps that shall be sealed with a minimum 1.5” wide heat weld offset from the RPS membrane strips.

Maximum Design Pressures: -52.5 psf. (See General Limitations # 7)



Membrane Type: TPO
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type D(2): Membrane attached over preliminary fastened insulation.

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 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, ENRGY 3 FR, ENRGY 3 FR 25 PSI Minimum ½” 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
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, ENRGY 3 FR, ENRGY 3 FR 25 PSI Minimum ½” thick	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.

Membrane: JM TPO mechanically fastened to the deck through the insulation as described below. 6” wide side laps are sealed with a minimum 1.5-inch wide heat weld

Fastening #1: Membrane is mechanically attached using All Purpose Fasteners and High Load Plates spaced maximum 6” o.c. in rows not exceeding 54” within laps of a maximum 5 ft. wide sheet.
Maximum Design Pressure -97.5 psf. (See General Limitations # 7)

Fastening # 2: Membrane is mechanically attached using All Purpose Fasteners and High Load Plates spaced maximum 6” o.c. in rows not exceeding 90” within laps of a maximum 8 ft. wide sheet.
Maximum Design Pressure -75 psf. (See General Limitations # 7)

Fastening #3: Membrane is mechanically attached using All Purpose Fasteners and High Load Plates spaced maximum 6” o.c. in rows not exceeding 114” within laps of a maximum 10 ft. wide sheet.
Maximum Design Pressure -60 psf. (See General Limitations # 7)

Maximum Design Pressures: See Fastening Pattern.



Membrane Type: TPO
Deck Type 2I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type D(3): Membrane attached over preliminary fastened insulation.

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 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, ENRGY 3 FR, ENRGY 3 FR 25 PSI Minimum 1" thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft²
JM SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	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.

Membrane: JM TPO mechanically fastened to the deck through the insulation as described below. Side laps are sealed with a minimum 1.5" wide heat weld
 Membrane is mechanically attached using All Purpose Fasteners and High Load Plus Plates spaced maximum 12" o.c. within 6" laps with a maximum row spacing of 90" o.c. Side laps shall be sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressures: -45 psf. (See General Limitations # 7)



Membrane Type: TPO
Deck Type 2I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type F: Membrane fully adhered to structural concrete 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 TPO FB 115 or JM TPO FB 135 adhered to insulation using with JM Roofing System Urethane Adhesive applied in ¾” ribbons spaced 12” o.c. or Polyset Commercial Roof Adhesive applied in ¾” to 1” wide ribbons spaced 12” o.c. or JM Two Part Urethane Insulation Adhesive Canister applied in splatter pattern at 0.318 gal./sq. Side laps will be a minimum 2.5” wide and shall be sealed with a minimum 1.5” wide heat weld.

Maximum Design Pressures: -502.5 psf. (See General Limitations #9)



CONCRETE DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117 and/or RAS 137, calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered 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 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 with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE

