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

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

IKO Industries, LTD.
40 Hansen Road South
Brampton, ON
L6W 3H4

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: IKO Innovi TPO Single-Ply Roofing Systems over Steel 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 22.
The submitted documentation was reviewed by Alex Tigera.

09/04/25

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply
Material:	TPO
Deck Type:	Steel
Maximum Design Pressure	-67.5 psf
Fire Classification:	See General Limitation #1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product Name	Dimensions	Test Specifications	Product Description
IKO Innovi TPO	45mil, 60mil, 80mil	ASTM D6878	Highly reflective "Cool Roof" TPO membrane
IKO MVP	39.4" x 105'	ASTM D5147	Modified SBS vapor retarder only for use as a vapor barrier.
IKO MVP Sand	36" x 80'	ASTM D5147	Modified SBS vapor retarder only for use as a vapor barrier.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
IKOTherm-A	Polyisocyanurate Foam Insulation	IKO Industries Ltd.
IKOTherm-A III	Polyisocyanurate Foam Insulation	IKO Industries Ltd.
IKOTherm-A CoverShield	Polyisocyanurate Foam Insulation	IKO Industries Ltd.
ACFoam-II	Polyisocyanurate Foam Insulation	Atlas Roofing Corporation
ACFoam-III	Polyisocyanurate Foam Insulation	Atlas Roofing Corporation
ACFoam HD Coverboard	Polyisocyanurate Foam Insulation	Atlas Roofing Corporation
DensDeck	Gypsum Core Board	Georgia-Pacific Gypsum LLC
DensDeck Prime	Gypsum Core Board	Georgia-Pacific Gypsum LLC
SECUROCK Gypsum-Fiber Roof Board	Gypsum based board stock	USG Corporation

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	InnoviFast Insulation Fastener	Carbon steel screw with #3 Phillips drive, modified truss head.	#12 x 8" (max)	IKO Industries Ltd.
2.	InnoviFast Heavy Duty (HD) Fastener	Truss head carbon steel fastener.	#15 x 14" (max)	IKO Industries Ltd.
3.	InnoviFast Insulation Plate	Galvalume AZ50 stress plate.	3” dia. x .018"	IKO Industries Ltd.
4.	TRUFAST #12 DP Fastener	Carbon steel screw with #3 Phillips drive, modified truss head.	#12 x 8" (max)	Altenloh, Brinck and Co., U.S., Inc
5.	TRUFAST 3” Metal Insulation Plate	Galvalume steel stress plate.	3" Round	Altenloh, Brinck and Co., U.S., Inc.
6.	#12 Standard Roofgrip	Truss head, self-drilling, pinch point, high thread fastener.	#12 x 16” (max)	OMG, Inc.
7.	OMG 3” Galvalume Steel Plate (Flat)	Galvalume steel stress plate.	3" Round	OMG, Inc.
8.	Dekfast DF-#12-PH3	Truss head carbon steel fastener.	#12 x 8" (max)	SFS Group USA, Inc.
9.	Dekfast DF-#15-PH3	Truss head carbon steel fastener.	#15 x 14" (max)	SFS Group USA, Inc.
10.	Dekfast PLT-R-2-3/8-6B	Galvalume AZ 50 steel, barbed plate.	2.37” dia. x .037"	SFS Group USA, Inc.
11.	Dekfast PLT-R-3	Galvalume AZ 50 stress plate.	3” dia. x .018"	SFS Group USA, Inc.
12.	IKO Millennium Adhesive	Foamable Adhesive.	Various	IKO Industries Ltd.
13.	InnoviBond Membrane Adhesive SPR	Sprayable Adhesive.	Various	IKO Industries Ltd.
14.	InnoviBond Membrane Adhesive	Roll applied Adhesive	Various	IKO Industries Ltd.
15.	InnoviBond Membrane Adhesive LVOC	Roll applied Adhesive	Various	IKO Industries Ltd.

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
NEMO ETC, LLC	2a-IKO-20-LSWUS-01.A	FM 4474/TAS 114 (J)	06/02/21
	2a-IKO-21-LSWUS-01.A-R1	FM 4474/TAS 114 (J)	07/27/22
Factory Mutual Research Corp.	PR459544	FM 4470	12/14/23

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

Engineer/Agency	Identifier	Assemblies:	Date
Robert Nieminen, P.E.	Signed/Sealed Calculations	C(3) D(3)	12/27/24
FM Approval Deck Limitation	RoofNav Listing	A(1), A(2), A(3), A(4), A(5) B(1) C(1), C(2), D(2), D(3), D(4)	

APPROVED ASSEMBLIES

Membrane Type:	Single Ply, TPO
Deck Type 1I:	Steel, Insulated
Deck Description:	Steel deck, minimum 33 ksi, 22 gauge.
System Type B(1):	Base layer of insulation mechanically attached. All subsequent layers of insulation adhered, 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.

Thermal Barrier	DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board
Thermal Barrier Securement	InnoviFast Insulation Plate with InnoviFast Insulation Fasteners, Dekfast PLT-R-3 with Dekfast DF #12 PH3, Trufast 3" Metal Insulation Plate with Trufast #12 DP, or 3" Galvalume Steel Plate with OMG #12 Standard applied at 1:2.7 ft2
Vapor Retarder Primer	InnoviBond Membrane Adhesive SPR applied to the thermal barrier ar 0.21 – 0.24 gal./square
Vapor Retarder	IKO MVP, self-adhered

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
IKOTherm-A, IKOTherm-A III, ACFoam-II, ACFoam-III Minimum 1 ½" thick	**N/A**	**N/A**

Note: Base insulation shall be adhered to the deck with IKO Millennium Adhesive applied in ½ to ¾ " wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck Prime Minimum ½" thick	**N/A**	**N/A**

Note: Top insulation shall be adhered to the base insulation with IKO Millennium Adhesive applied in ½ to ¾ " wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane:	Min. 45 mil IKO Innovi TPO, adhered with InnoviBond Membrane Adhesive at a rate of 0.83 to 1.0 gal./square on both the bottom side of the roof cover and top side of the substrate for a total of 1.67 to 2.0 gal./square
Maximum Design Pressure:	**-45 psf. (See General Limitation #9)**

Membrane Type:	Single Ply, TPO
Deck Type 1I:	Steel, Insulated
Deck Description:	Steel deck, minimum 33 ksi, 22 gauge.
System Type B(2):	Base layer of insulation mechanically attached. All subsequent layers of insulation adhered, 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.

Thermal Barrier	DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board
Thermal Barrier Securement	InnoviFast Insulation Plate with InnoviFast Insulation Fasteners, Dekfast PLT-R-3 with Dekfast DF #12 PH3, Trufast 3" Metal Insulation Plate with Trufast #12 DP or OMG 3" Galvalume Steel Plate with OMG #12 Standard applied at 1:2.7 ft2
Vapor Retarder Primer	InnoviBond Membrane Adhesive SPR applied to the thermal barrier ar 0.21 – 0.24 gal./square
Vapor Retarder	IKO MVP Sand, self-adhered

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
IKOTherm-A, IKOTherm-A III, ACFoam-II, ACFoam-III Minimum 1 ½" thick	**N/A**	**N/A**

Note: Base insulation shall be adhered to the deck with IKO Millennium Adhesive applied in ½ to ¾ " wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck Prime Minimum ½" thick	**N/A**	**N/A**

Note: Top insulation shall be adhered to the base insulation with IKO Millennium Adhesive applied in ½ to ¾ " wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane:	Min. 45 mil IKO Innovi TPO, adhered with InnoviBond Membrane Adhesive at a rate of 0.83 to 1.0 gal./square on both the bottom side of the roof cover and top side of the substrate for a total of 1.67 to 2.0 gal./square.
Maximum Design Pressure:	**-45 psf. (See General Limitation #9)**

Membrane Type:	Single Ply, TPO
Deck Type 1I:	Steel, Insulated
Deck Description:	Steel deck, minimum 33 ksi, 22 gauge.
System Type B(3):	Base layer of insulation mechanically attached. All subsequent layers of insulation adhered, 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.

Thermal Barrier	DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board
Thermal Barrier Securement	InnoviFast Insulation Plate with InnoviFast Insulation Fasteners, Dekfast PLT-R-3 with Dekfast DF #12 PH3, Trufast 3" Metal Insulation Plate with Trufast #12 DP or OMG 3" Galvalume Steel Plate with OMG #12 Standard applied at 1:2.7 ft2
Vapor Retarder Primer	InnoviBond Membrane Adhesive SPR applied to the thermal barrier ar 0.21 – 0.24 gal./square
Vapor Retarder	IKO MVP, self-adhered

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
IKOTherm-A, IKOTherm-A III, ACFoam-II, ACFoam-III Minimum 1 ½" thick	**N/A**	**N/A**

Note: Base insulation shall be adhered to the deck with IKO Millennium Adhesive applied in ½ to ¾ " wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
SECUROCK Gypsum Fiber Roof Board, DensDeck Prime Minimum ½" thick	**N/A**	**N/A**

Note: Top insulation shall be adhered to the deck with IKO Millennium Adhesive applied in ½ to ¾ " wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane:	Min. 45 mil IKO Innovi TPO, adhered with InnoviBond Membrane Adhesive at a rate of 0.83 to 1.0 gal./square on both the bottom side of the roof cover and top side of the substrate for a total of 1.67 to 2.0 gal./square Or Min. 45 mil IKO Innovi TPO, adhered with InnoviBond Membrane Adhesive SPR* at 0.21 to 0.24 gal/square with a 2" overlap to the bottom surface of the roof cover and the top surface of the substrate for a total of 0.41 to 0.47 gal/square. *Cannot be used with DensDeck Prime
Maximum Design Pressure:	**-45 psf. (See General Limitation #9)**

Membrane Type:	Single Ply, TPO
Deck Type 1I:	Steel, Insulated
Deck Description:	Steel deck, minimum 33 ksi, 22 gauge.
System Type B(4):	Base layer of insulation mechanically attached. All subsequent layers of insulation adhered, 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.

Thermal Barrier	DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board
Thermal Barrier Securement	InnoviFast Insulation Plate with InnoviFast Insulation Fasteners, Dekfast PLT-R-3 with Dekfast DF #12 PH3, Trufast 3" Metal Insulation Plate with Trufast #12 DP or OMG 3" Galvalume Steel Plate with OMG #12 Standard applied at 1:2.7 ft^2
Vapor Retarder Primer	InnoviBond Membrane Adhesive SPR applied to the thermal barrier ar 0.21 – 0.24 gal./square.
Vapor Retarder	IKO MVP or IKO MVP Sand, self-adhered.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
IKOTherm-A, IKOTherm-A III, ACFoam-II, ACFoam-III Minimum 1 ½" thick	**N/A**	**N/A**

Note: Base insulation shall be adhered to the deck with IKO Millennium Adhesive applied in ½ to ¾ " wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime Minimum ½" thick	**N/A**	**N/A**

Note: Top insulation shall be adhered to the base insulation with IKO Millennium Adhesive applied in ½ to ¾ " wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane:	Min. 45 mil IKO Innovi TPO, adhered to DensDeck Prime with InnoviBond Membrane Adhesive at a rate of 0.83 to 1.0 gal./square on both the bottom side of the roof cover and top side of the substrate for a total of 1.67 to 2.0 gal./square.
Maximum Design Pressure:	**-45 psf. (See General Limitation #9)**

Membrane Type:	Single Ply, TPO
Deck Type 1I:	Steel, Insulated
Deck Description:	Steel deck, minimum 33 ksi, 22 gauge.
System Type B(5):	Base layer of insulation mechanically attached. All subsequent layers of insulation adhered, 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.

Thermal Barrier	DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board
Thermal Barrier Securement	InnoviFast Insulation Plate with InnoviFast Insulation Fasteners, Dekfast PLT-R-3 with Dekfast DF #12 PH3, Trufast 3" Metal Insulation Plate with Trufast #12 DP or OMG 3" Galvalume Steel Plate with OMG #12 Standard applied at 1:2.7 ft^2
Vapor Retarder Primer	InnoviBond Membrane Adhesive SPR applied to the thermal barrier ar 0.21 – 0.24 gal./square.
Vapor Retarder	IKO MVP, self-adhered

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
IKOTherm-A, IKOTherm-A III, ACFoam-II, ACFoam-III Minimum 1 ½" thick	**N/A**	**N/A**

Note: Base insulation shall be adhered to the deck with IKO Millennium Adhesive applied in ½ to ¾ " wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane:	Min. 45 mil IKO Innovi TPO, adhered with InnoviBond Membrane Adhesive at a rate of 0.83 to 1.0 gal./square on both the bottom side of the roof cover and top side of the substrate for a total of 1.67 to 2.0 gal./square Or Min. 45 mil IKO Innovi TPO, adhered with InnoviBond Membrane Adhesive SPR at 0.21 to 0.24 gal/square with a 2" overlap to the bottom surface of the roof cover and the top surface of the substrate for a total of 0.41 to 0.47 gal/square.
Maximum Design Pressure:	**-67.5 psf. (See General Limitation #9)**

Membrane Type:	Single Ply, TPO
Deck Type 1I:	Steel, Insulated
Deck Description:	Steel deck, minimum 33 ksi, 22 gauge
System Type B(6):	Base layer of insulation mechanically attached to roof deck. Top layer of insulation is adhered. Membrane is subsequently fully adhered to top layer of 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.

Thermal Barrier (Optional)	DensDeck, DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board; Loose-laid
Vapor Retarder Primer (Optional)	InnoviBond Membrane Adhesive SPR applied to the thermal barrier ar 0.21 – 0.24 gal./square
Vapor Retarder (Optional)	IKO MVP or IKO MVP Sand, self-adhered (used only with a thermal barrier)

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam II, IKOTherm-A, ACFoam III, IKOTherm-A III Minimum 2" thick	**1 with 3, 8 with 11, 4 with 5, or 6 with 7**	**1:2 ft²**

Note: Base 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. Refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam II, IKOTherm-A, ACFoam III, IKOTherm-A III Minimum 1 ½" thick	**N/A**	**N/A**

Note: Top insulation shall be adhered to the base insulation with IKO Millennium Adhesive applied in ½ to ¾ " wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane:	Min. 45 mil IKO Innovi TPO, adhered with InnoviBond Membrane Adhesive at a rate of 0.83 to 1.0 gal./square on both the bottom side of the roof cover and top side of the substrate for a total of 1.67 to 2.0 gal./square Or Min. 45 mil IKO Innovi TPO, adhered with InnoviBond Membrane Adhesive SPR at 0.21 to 0.24 gal/square with a 2" overlap to the bottom surface of the roof cover and the top surface of the substrate for a total of 0.41 to 0.47 gal/square.
Maximum Design Pressure:	**-45 psf. (See General Limitation #9)**

Membrane Type:	Single Ply, TPO
Deck Type 1I:	Steel, Insulated
Deck Description:	Steel deck, minimum 33 ksi, 22 gauge
System Type C(1):	All layers of insulation simultaneously attached; 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.

Thermal Barrier (Optional)	DensDeck, DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board; Loose-laid
Vapor Retarder Primer (Optional)	InnoviBond Membrane Adhesive SPR applied to the thermal barrier at 0.21 – 0.24 gal./square
Vapor Retarder (Optional)	IKO MVP or IKO MVP Sand, self-adhered (used only with a thermal barrier)

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
IKOTherm-A, IKOTherm-A III, ACFoam-II, ACFoam-III Minimum 1 ½" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime* Minimum ½" thick	**1 with 3, 8 with 11, 4 with 5, or 6 with 7**	**1:2 ft²**

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. Refer to Roofing Application Standard RAS 117 for insulation attachment.

OMG 3 in. Galvalume Steel Plate with OMG #12 Standard fastener cannot be used with DensDeck Prime

Membrane:	Min. 45 mil IKO Innovi TPO, adhered with InnoviBond Membrane Adhesive** at a rate of 0.83 to 1.0 gal./square on both the bottom side of the roof cover and top side of the substrate for a total of 1.67 to 2.0 gal./square Or Min. 45 mil IKO Innovi TPO, adhered with InnoviBond Membrane Adhesive SPR at 0.21 to 0.24 gal/square with a 2" overlap to the bottom surface of the roof cover and the top surface of the substrate for a total of 0.41 to 0.47 gal/square.
Maximum Design Pressure:	**-45 psf. (See General Limitation #9)**

Membrane Type:	Single Ply, TPO
Deck Type 1I:	Steel, Insulated
Deck Description:	Steel deck, minimum 33 ksi, 22 gauge.
System Type C(2):	All layers of insulation simultaneously attached; 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.

Thermal Barrier (Optional)	DensDeck, DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board; Loose-laid
Vapor Retarder Primer (Optional)	InnoviBond Membrane Adhesive SPR applied to the thermal barrier ar 0.21 – 0.24 gal./square
Vapor Retarder (Optional)	IKO MVP or IKO MVP Sand, self-adhered (used only with a thermal barrier)

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-III, IKOTherm-A III Minimum 2" thick	**1 with 3, 8 with 11, 4 with 5, or 6 with 7**	**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. Refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane:	Min. 45 mil IKO Innovi TPO, adhered with InnoviBond Membrane Adhesive at a rate of 0.83 to 1.0 gal./square on both the bottom side of the roof cover and top side of the substrate for a total of 1.67 to 2.0 gal./square Or Min. 45 mil IKO Innovi TPO, adhered with InnoviBond Membrane Adhesive SPR at 0.21 to 0.24 gal/square with a 2" overlap to the bottom surface of the roof cover and the top surface of the substrate for a total of 0.41 to 0.47 gal/square.
Maximum Design Pressure:	**-45 psf. (See General Limitation #9)**

Membrane Type: Single Ply, TPO

Deck Type 2I: Steel, Insulated

Deck Description: 22 ga., Type B, Grade 40 steel deck fastened to steel support at a maximum span of 6 ft. o.c. Steel deck shall be fastened with minimum Tek 5 screws at a maximum spacing of 6 in. o.c. Side laps shall be fastened with Tek 1 screws at a maximum spacing of 24 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittted Table.

System Type C(3): All layers of insulation simultaneously attached; 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**
IKOTherm-A, IKOTherm-A III, ACFoam-II, ACFoam-III Minimum 1.5" thick	**N/A**	**N/A**
Middle Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
IKOTherm-A, IKOTherm-A III, ACFoam-II, ACFoam-III Minimum 1.5" thick	**N/A**	**N/A**
Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck Prime, SECUROCK Gypsum Fiber Roof Board Minimum ½" thick	**1 with 3, 8 with 11, 4 with 5, or 6 with 7**	**1:2 ft²**

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. Refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Min. 45 mil IKO Innovi TPO, adhered with InnoviBond Membrane Adhesive at a rate of 0.83 to 1.0 gal./square on both the bottom side of the roof cover and top side of the substrate for a total of 1.67 to 2.0 gal./square.
Or
Min. 45 mil IKO Innovi TPO, adhered with InnoviBond Membrane Adhesive SPR at 0.21 to 0.24 gal/square for a total of 0.41 to 0.47 gal/square.

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

Membrane Type: Single Ply, TPO

Deck Type 2I: Steel, Insulated

Deck Description: Steel (New) FM Approved 18 gauge (0.0478 in. [1.21 mm]), 33 ksi (228 mPa) steel deck is secured to minimum ¼ in. (6 mm) thick structural supports spaced a maximum of 4 ft – 6 in. (1.37 m) o.c. with ITW Buildex #12 HWH Teks 5 Fasteners spaced at a maximum of 6 in. (152 mm) o.c. at the supports (one fastener installed at each bearing attachment point). The steel deck side laps are secured maximum 24 in. (610 mm) o.c. with ITW Buildex #12 HWH Teks 1 Fasteners.
Or
FM Approved 22 gauge (0.0295 in. [0.7493 mm]), 80 ksi (552 mPa) steel deck is secured to minimum ¼ in. (6 mm) thick structural supports spaced a maximum of 5 ft (1.5 m). o.c. in the same manner as above.
Or
20 gauge (0.03595 in. [0.9119 mm]) or 18 gauge (0.0478 in. [1.2141 mm]) 80 ksi (552 mPa) steel deck is secured to minimum ¼ in. (6 mm) thick structural supports spaced a maximum of 6 ft. (1.8 m) o.c. in the same manner as above.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittted Table.

System Type D(1): Base layer of insulation preliminarily attached; top layer mechanically attached.

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.

Thermal Barrier (Optional) DensDeck, DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board

Vapor Retarder (Optional) Kraft paper or 4 or 6 mil (0.004 in., 0.10 mm or 0.006 in. 0.15 mm) polyethylene, or IKO MVP

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
IKOTherm-A, IKOTherm-A III, ACFoam II or ACFoam III Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers of insulation shall be simultaneously attached. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. See base sheet below for fasteners and density.

Membrane: IKO Innovi TPO, secured through the fastened insulation as specified below.

Fastening:	InnoviFast 2-3/8" HD Seam Plate with InnoviFast Heavy Duty (HD) Fasteners, Dekfast PLT-R-2-3/8-6B stress plate with Dekfast DF-#15-PH3 fastener, 2-3/8 in. Round Barbed Seam Plate with #15 Roofgrip, or Trufast 2.4" Barbed Metal Seam Plates with Trufast #15 EHD installed 6 in. (152 mm) o.c. 2.0 in (51 mm) from roof cover edge within 6 in. (152 mm) wide laps in rows spaced 114 in. (2,9 m) o.c. and a 1.5 inch heat weld.
Maximum Design Pressure:	**–52.5 psf. (See General Limitation #7)**

Membrane Type: Single Ply, TPO

Deck Type 2I: Steel, Insulated

Deck Description: Steel (New) FM Approved 18 gauge (0.0478 in. [1.21 mm]), 33 ksi (228 mPa) steel deck is secured to minimum ¼ in. (6 mm) thick structural supports spaced a maximum of 4 ft – 6 in. (1.37 m) o.c. with ITW Buildex #12 HWH Teks 5 Fasteners spaced at a maximum of 6 in. (152 mm) o.c. at the supports (one fastener installed at each bearing attachment point). The steel deck side laps are secured maximum 24 in. (610 mm) o.c. with ITW Buildex #12 HWH Teks 1 Fasteners.
Or
FM Approved 22 gauge (0.0295 in. [0.7493 mm]), 80 ksi (552 mPa) steel deck is secured to minimum ¼ in. (6 mm) thick structural supports spaced a maximum of 5 ft (1.5 m). o.c. in the same manner as above.
Or
20 gauge (0.03595 in. [0.9119 mm]) or 18 gauge (0.0478 in. [1.2141 mm]) 80 ksi (552 mPa) steel deck is secured to minimum ¼ in. (6 mm) thick structural supports spaced a maximum of 6 ft. (1.8 m) o.c. in the same manner as above.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittted Table.

System Type D(2): Base layer of insulation preliminarily attached; top layer mechanically attached.

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.

Thermal Barrier (Optional) DensDeck, DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board

Vapor Retarder (Optional) Kraft paper or 4 or 6 mil (0.004 in., 0.10 mm or 0.006 in. 0.15 mm) polyethylene, or IKO MVP

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
IKOTherm-A, IKOTherm-A III, ACFoam II or ACFoam III Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
IKOTherm CoverShield or ACFoam HD Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers of insulation shall be simultaneously attached. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. See base sheet below for fasteners and density.

Membrane: IKO Innovi TPO, secured through the fastened insulation as specified below.

Fastening:	InnoviFast 2-3/8" HD Seam Plate with InnoviFast Heavy Duty (HD) Fasteners, Dekfast PLT-R-2-3/8-6B stress plate with Dekfast DF-#15-PH3 fastener, 2-3/8 in. Round Barbed Seam Plate with #15 Roofgrip, or Trufast 2.4" Barbed Metal Seam Plates with Trufast #15 EHD installed 6 in. (152 mm) o.c. 2.0 in (51 mm) from roof cover edge within 6 in. (152 mm) wide laps in rows spaced 114 in. (2,9 m) o.c. and a 1.5 inch heat weld.
Maximum Design Pressure:	**–52.5 psf. (See General Limitation #7)**

Membrane Type: Single Ply, TPO

Deck Type 2I: Steel, Insulated

Deck Description: 22 ga., Type B, Grade 80 steel deck fastened to steel support at a maximum span of 6 ft. o.c. Steel deck shall be fastened with minimum #12 HWH Tek 5 screws with ¾ in. washers at a maximum spacing of 6 in. o.c. Side laps shall be fastened with #10 HWH Tek 1 screws at a maximum spacing of 18 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittted Table.

System Type D(3): Base layer of insulation preliminarily attached; top layer mechanically attached.

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/ft^2
IKOTherm-A, IKOTherm-A III, ACFoam-II, ACFoam-III Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
IKOTherm-A III, ACFoam-III Minimum 1.5" thick	**1 with 3, 8 with 11, 4 with 5, or 6 with 7**	**1:4 ft^2**

Note: All layers of insulation and base sheet shall be simultaneously attached. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. See base sheet below for fasteners and density.

Membrane: IKO Innovi TPO, secured through the fastened insulation as specified below.

Fastening: InnoviFast Heavy Duty (HD) Fasteners with InnoviFast 2-3/8" HD Seam Plate, or Dekfast DR-#15-PH3 with Dekfast PLT-R-2-3/8-6B, 6-in. o.c. within 6-in. wide laps spaced 114 in. o.c. Laps sealed with 1.5-in. heat weld.

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

Membrane Type: Single Ply, TPO

Deck Type 2I: Steel, Insulated

Deck Description: Steel (New) FM Approved 18 gauge (0.0478 in. [1.21 mm]), 33 ksi (228 mPa) steel deck is secured to minimum ¼ in. (6 mm) thick structural supports spaced a maximum of 4 ft – 6 in. (1.37 m) o.c. with ITW Buildex #12 HWH Teks 5 Fasteners spaced at a maximum of 6 in. (152 mm) o.c. at the supports (one fastener installed at each bearing attachment point). The steel deck side laps are secured maximum 24 in. (610 mm) o.c. with ITW Buildex #12 HWH Teks 1 Fasteners.
Or
FM Approved 22 gauge (0.0295 in. [0.7493 mm]), 80 ksi (552 mPa) steel deck is secured to minimum ¼ in. (6 mm) thick structural supports spaced a maximum of 5 ft (1.5 m). o.c. in the same manner as above.
Or
20 gauge (0.03595 in. [0.9119 mm]) or 18 gauge (0.0478 in. [1.2141 mm]) 80 ksi (552 mPa) steel deck is secured to minimum ¼ in. (6 mm) thick structural supports spaced a maximum of 6 ft. (1.8 m) o.c. in the same manner as above.

System Type D(4): Base layer of insulation preliminarily attached; top layer mechanically attached.

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.

Thermal Barrier (Optional) DensDeck, DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board

Vapor Retarder (Optional) Kraft paper or 4 or 6 mil (0.004 in., 0.10 mm or 0.006 in. 0.15 mm) polyethylene, or IKO MVP

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
IKOTherm-A, IKOTherm-A III, ACFoam II or ACFoam III Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck, DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers of insulation shall be simultaneously attached. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. See base sheet below for fasteners and density.

Membrane: IKO Innovi TPO, secured through the fastened insulation as specified below.

Fastening:	InnoviFast 2-3/8" HD Seam Plate with InnoviFast Heavy Duty (HD) Fasteners, Dekfast PLT-R-2-3/8-6B stress plate with Dekfast DF-#15-PH3 fastener, 2-3/8 in. Round Barbed Seam Plate with #15 Roofgrip, or Trufast 2.4" Barbed Metal Seam Plates with Trufast #15 EHD installed 6 in. (152 mm) o.c. 2.0 in (51 mm) from roof cover edge within 6 in. (152 mm) wide laps in rows spaced 114 in. (2,9 m) o.c. and a 1.5 inch heat weld.
Maximum Design Pressure:	**–52.5 psf. (See General Limitation #7)**

STEEL 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 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.

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 membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.

MIAMI-DADE COUNTY APPROVED

11. 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