MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

IB Roof Systems
2877 Chad Drive
Eugene, OR 97408

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

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

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

DESCRIPTION: IB Single Ply PVC Roof Systems over Recover Decks

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

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

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

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

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

This revises NOA #05-1122.06 and consists of pages 1 through 23.
The submitted documentation was reviewed by Alex Tigera.

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply
Material:	PVC
Deck Type:	Recover
Maximum Design Pressure	-512.5 psf
Fire Classification:	See General Limitation #1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
IB Single Ply		CGSB-37.54-95	Polyester reinforced PVC membrane.
IB Single Ply Fleecebacked		CGSB-37.54-95	Polyester reinforced PVC membrane with a non-woven polyester fleeceback.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
Pyrox	Isocyanurate Insulation	Apache Products Co.
ACFoam II, ACFoam III	Isocyanurate Insulation	Atlas Roofing Corp.
Polystyrene	Polystyrene insulation	Generic
DensDeck, DensDeck Prime, DensDeck DuraGuard	Gypsum insulation	GP Gypsum
ENRGY 2, ENERGY 3	Isocyanurate Insulation	Johns Manville
Securock	Gypsum insulation	US Gypsum

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Dekfast Fasteners	Insulation and membrane fastener	Various	Construction Fasteners, Inc.
2.	Dekfast HS Plate	Galvalume stress plate.	2 ½" round	Construction Fasteners, Inc.
3.	Dekfast Hex Plate	Galvalume hex stress plate.	2 $^{7}/_{8}$" x 3 ¼"	Construction Fasteners, Inc.
4.	Dekfast Lock Plate	Polypropylene locking plate.	3" x 3 ¼"	Construction Fasteners, Inc.
5.	Olympic Fasteners	Insulation and membrane fasteners	Various	Olympic Mfg. Group
6.	Olympic XHD Plate	Galvalume AZ55 stress plate	2-3/8" round	Olympic Mfg. Group
7.	Olympic Standard	Galvalume AZ55 stress plate	3" round	Olympic Mfg. Group
8.	Olympic G-2	Galvalume AZ55 stress plate	3.5" round	Olympic Mfg. Group
9.	Olympic	Plastic plates for fasteners.	3" round	Olympic Mfg. Group
10.	Extra Load Fastener	Insulation fastener for use in wood, steel and concrete decks	Various	SFS Intec, Inc.
11.	Isofast Plates	Galvalume AZ55 stress plate	2-3/8" round	SFS Intec, Inc.
12.	Olympic HD	#14 insulation fastener	Various	OMG, Inc.
13.	Olympic XHD	#15 membrane fastener	Various	OMG, Inc.
14.	OMG 2" Barbed Plate	2" round barbed membrane plate	2" round	OMG, Inc.
15.	IB Insulation Fastener #12	#12 insulation fastener	Various	IB Roof Systems
16.	IB Heavy Duty Membrane Fastener #14	#14 membrane fastener	Various	IB Roof Systems
17.	IB Magnum Membrane Fastener #15	#15 membrane fastener	Various	IB Roof Systems
18.	IB 2" Barbed Seam Plates	2" round barbed membrane plate	2" round	IB Roof Systems
19.	IB Magnum Plates	2-3/8" round barbed membrane plates	2-3/8" round	IB Roof Systems

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
Factory Mutual Research Corp.	FMRC 4470	3005937 3005938	11/23/99
Underwriters Laboratories, Inc.	UL 790	97NK38018	07/22/98
Underwriters Laboratories, Inc.	CGSB-37.54-95	02NK18635	11/12/03
Exterior Research & Design, LLC	02642.01.05	Wind Uplift, TAS 114 (FM Standard 4470)	01/14/05
Exterior Research & Design, LLC	03900.05.05-2	Wind Uplift, TAS 114 (FM Standard 4470)	05/19/05
Exterior Research & Design, LLC	03903.05.05-2	Wind Uplift, TAS 114 (FM Standard 4470)	05/10/06

APPROVED ASSEMBLIES

Membrane Type: Single Ply, Thermoplastic PVC, Insulated

Deck Type 7I: Recover

Deck Description: Concrete/Steel/Wood/LWC/CWF/Gypsum

System Type A(1): One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
ACFoam II, Multi-Max FA Minimum 1.5" thick	N/A	N/A

Note: All insulation shall be adhered to the deck or subsequent layers of insulation in ¾" to 1" wide beads 12" o.c. of Weather-Tite One Step Foamable Insulation Adhesive, 3" to 3.5" wide beads 12" o.c. of TITE-SET Roofing Adhesive or Fastac Roofing Adhesive or full mopping of approved asphalt within the EVT range and at a rate of 25 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: IB Single Ply or IB Single Ply Fleecebacked roof cover adhered to the insulation with Pliobond 7008 at 280 ft^2 per gallon.

Maximum Design Pressure: -215.0 psf (See General Limitation #9)

Membrane Type:	Single Ply, Thermoplastic PVC, Insulated
Deck Type 7I:	Recover
Deck Description:	Concrete/Steel/Wood/LWC/CWF/Gypsum
System Type A(2):	One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam II, Multi-Max FA Minimum 1.5" thick	N/A	N/A

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck, Dens Deck Prime, Dens Deck DuraGuard, Securock Minimum 0.25" thick	N/A	N/A

Note: All insulation shall be adhered to the deck or subsequent layers of insulation in 3" to 3.5" wide beads 12" o.c. of TITE-SET Roofing Adhesive or Fastac Roofing Adhesive or full mopping of approved asphalt within the EVT range and at a rate of 25 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane:	IB Single Ply or IB Single Ply Fleecebacked roof cover adhered to the insulation with Pliobond 7008 at 280 ft^2 per gallon.
Maximum Design Pressure:	-255.0 psf (See General Limitation #9)

Membrane Type:	Single Ply, Thermoplastic PVC, Insulated
Deck Type 7I:	Recover
Deck Description:	Concrete/Steel/Wood/LWC/CWF/Gypsum
System Type A(3):	One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ASTM C578 Type IX expanded polystyrene (min. 1.8 pcf) Minimum 1.5" thick	N/A	N/A

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck, Securock Minimum 0.25" thick	N/A	N/A

Note: All insulation shall be adhered to the deck or subsequent layers of insulation in full mopping of approved asphalt within the EVT range and at a rate of 25 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane:	IB Single Ply or IB Single Ply Fleecebacked roof cover adhered to the insulation with Pliobond 7008 at 280 ft^2 per gallon.
Maximum Design Pressure:	-202.5 psf (See General Limitation #9)

Membrane Type:	Single Ply, Thermoplastic PVC, Insulated
Deck Type 7I:	Recover
Deck Description:	Concrete/Steel/Wood/LWC/CWF/Gypsum
System Type A(4):	One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam II, Multi-Max FA Minimum 1.5" thick	N/A	N/A

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck, Securock Minimum 0.25" thick	N/A	N/A

Note: All insulation shall be adhered to the deck or subsequent layers of insulation in ½" wide beads 12" o.c. of Pliodeck Insulation Adhesive. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane:	IB Single Ply or IB Single Ply Fleecebacked roof cover adhered to the insulation with Pliobond 7008 at 280 ft^2 per gallon.
Maximum Design Pressure:	-105.0 psf (See General Limitation #9)

Membrane Type:	Single Ply, Thermoplastic PVC, Insulated
Deck Type 7I:	Recover
Deck Description:	Concrete/Steel/Wood/LWC/CWF/Gypsum
System Type A(5):	One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ASTM C578 Type IX expanded polystyrene (min. 1.8 pcf) Minimum 1.5" thick	N/A	N/A

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck, Securock Minimum 0.25" thick	N/A	N/A

Note: All insulation shall be adhered to the deck or subsequent layers of insulation in ½" wide beads 12" o.c. of Pliodeck Insulation Adhesive. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane:	IB Single Ply or IB Single Ply Fleecebacked roof cover adhered to the insulation with Pliobond 7008 at 280 ft^2 per gallon.
Maximum Design Pressure:	-67.5 psf (See General Limitation #9)

Membrane Type:	Single Ply, Thermoplastic PVC, Insulated
Deck Type 7I:	Recover
Deck Description:	Concrete/Steel/Wood/LWC/CWF/Gypsum
System Type A(6):	One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ASTM C578 Type IX expanded polystyrene (min. 1.8 pcf) Minimum 1.5" thick	N/A	N/A

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck, Securock Minimum 0.25" thick	N/A	N/A

Note: All insulation shall be adhered to the deck or subsequent layers of insulation in 3" to 3.5" wide beads 12" o.c. of TITE-SET Roofing Adhesive or Fastac Roofing Adhesive. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane:	IB Single Ply or IB Single Ply Fleecebacked roof cover adhered to the insulation with Pliobond 7008 at 280 ft^2 per gallon.
Maximum Design Pressure:	-180.0 psf (See General Limitation #9)

Membrane Type:	Single Ply, Thermoplastic PVC, Insulated
Deck Type 7I:	Recover
Deck Description:	Concrete/Steel/Wood/LWC/CWF/Gypsum
System Type A(7):	One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam II Minimum 1.5" thick	N/A	N/A

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
(Optional) DensDeck, Securock Minimum 0.25" thick	N/A	N/A

Note: All insulation shall be adhered to the deck or subsequent layers of insulation in ¾" – 1" wide beads 12" o.c. of OlyBond 500 Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane:	IB Single Ply or IB Single Ply Fleecebacked roof cover adhered to the insulation with Pliobond 7008 at 280 ft^2 per gallon.
Maximum Design Pressure:	-150.0 psf (See General Limitation #9)

Membrane Type:	Single Ply, Thermoplastic PVC, Insulated
Deck Type 7I:	Recover
Deck Description:	Concrete/Steel/Wood/LWC/CWF/Gypsum
System Type A(8):	One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ASTM C578 Type IX expanded polystyrene (min. 1.8 pcf)		
Minimum 1.0" thick	N/A	N/A
Minimum 2.0" thick	N/A	N/A

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck, Securock		
Minimum 0.25" thick	N/A	N/A

Note: All insulation shall be adhered to the deck or subsequent layers of insulation in ¾" – 1" wide beads 12" o.c. of OlyBond 500 Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane:	IB Single Ply or IB Single Ply Fleecebacked roof cover adhered to the insulation with Pliobond 7008 at 280 ft^2 per gallon.
Maximum Design Pressure:	-52.5 psf (min 1.0" thick EPS) (See General Limitation #9) -120.0 psf (min 2.0" thick EPS) (See General Limitation #9)

Membrane Type:	Single Ply, Thermoplastic PVC, Insulated
Deck Type 7I:	Recover
Deck Description:	Concrete/Steel/Wood/LWC/CWF/Gypsum
System Type A(9):	One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam II, Multi-Max FA Minimum 1.5" thick	N/A	N/A

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck, Securock Minimum 0.25" thick	N/A	N/A

Note: All insulation shall be adhered to the deck or subsequent layers of insulation in ¾" – 1" wide beads 12" o.c. of Weather-Tite One Step Foamable Adhesive. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane:	IB Single Ply or IB Single Ply Fleecebacked roof cover adhered to the insulation with Pliobond 7008 at 280 ft^2 per gallon.
Maximum Design Pressure:	-232.5 psf (See General Limitation #9)

Membrane Type:	Single Ply, Thermoplastic PVC, Insulated
Deck Type 7I:	Recover
Deck Description:	Concrete/Steel/Wood/LWC/CWF/Gypsum
System Type A(10):	One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam II Minimum 1.5" thick	N/A	N/A
Multi-Max FA Minimum 1.5" thick	N/A	N/A

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
(Optional) DensDeck, Securock Minimum 0.25" thick	N/A	N/A

Note: All insulation shall be adhered to the deck or subsequent layers of insulation in ¾" – 1" wide beads 12" o.c. of Insta-Stik. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane:	IB Single Ply or IB Single Ply Fleecebacked roof cover adhered to the insulation with Pliobond 7008 at 280 ft^2 per gallon.
Maximum Design Pressure:	-120.0 psf (using ACFoam II) (See General Limitation #9) -67.5 psf (using Multi-Max FA) (See General Limitation #9)

Membrane Type:	Single Ply, Thermoplastic PVC, Insulated
Deck Type 7I:	Recover
Deck Description:	Concrete/Steel/Wood/LWC/CWF/Gypsum
System Type A(11):	One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ASTM C578 Type IX expanded polystyrene (min. 1.8 pcf) Minimum 1.5" thick	N/A	N/A

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck, Securock Minimum 0.25" thick	N/A	N/A

Note: All insulation shall be adhered to the deck or subsequent layers of insulation in ¾" – 1" wide beads 12" o.c. of Insta-Stik. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane:	IB Single Ply or IB Single Ply Fleecebacked roof cover adhered to the insulation with Pliobond 7008 at 280 ft^2 per gallon.
Maximum Design Pressure:	-120.0 psf (See General Limitation #9)

Membrane Type:	Single Ply, Thermoplastic PVC, Insulated
Deck Type 7I:	Recover
Deck Description:	Concrete/Steel/Wood/LWC/CWF/Gypsum
System Type A(12):	One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

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

Note: All insulation shall be adhered to the deck or subsequent layers of insulation in ¾" to 1" wide beads 12" o.c. of Weather-Tite One Step Foamable Insulation Adhesive, 3" to 3.5" wide beads 12" o.c. of TITE-SET Roofing Adhesive or Fastac Roofing Adhesive or full mopping of approved asphalt within the EVT range and at a rate of 25 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Primer:	Any approved ASTM D41 Asphaltic primer.
Vapor Barrier / Temporary Roof:	Hot-applied, Self-adhering, Torch-applied or Cold-applied vapor barrier or temporary roof is installed to the primed concrete deck as indicated below:
Hot-applied:	Optional hot asphalt-applied base and/or ply sheets approved for use with roof cover followed by asphalt-applied CertainTeed Flintlastic GMS, Firestone SBS Cap, GAF Ruberoid 30, Johns Manville DynaGlas, Soprema Elastophene GR or Sopralene 180 or 250 GR or Siplast Paradiene 30.
Self-Adhered:	Optional self-adhered base membrane approved for use with roof cover followed by CertainTeed Flintlastic SA Cap, GAF Liberty Cap, Johns Manville DynaGrip Cap or *JM*CleanBond Cap, Polyglass Elastoflex SA VG or Soprema Colphene FR GR or Colphene HR FR GR.
Torch-applied:	Optional torch-applied base membrane approved for use with roof cover followed by CertainTeed Flintlastic GTA or GTS, Firestone APP 180 FR Cap, GAF Ruberoid Torch GR, Johns Manville APPeX 4.5M, Soprema Elastophene Flam GR or Sopralene Flam 180 or 250 GR or Siplast Paradiene 30 TG.
Cold-applied:	Optional cold-applied base and/or ply sheet approved for use with the roof cover followed by CertainTeed Flintlastic GMS in FlintBond Adhesive, GAF Ruberoid 30 in Matrix 102 Adhesive, Johns Manville DynaGlas in MBR Adhesive, Polyglass Elastoflex VG in 1000 MB SBS Adhesive, Soprema Elastophene GR or Sopralene 180 or 250 GR in FM Adhesive or FM Adhesive (VOC) or Siplast Paradiene 30 in PA-311 Adhesive.
Membrane:	IB Single Ply or IB Single Ply Fleecebacked roof cover adhered to the insulation with Pliobond 7008 at 280 ft^2 per gallon.
Maximum Design Pressure:	-215.0 psf (See General Limitation #9)

Membrane Type:	Single Ply, Thermoplastic PVC, Insulated
Deck Type 7I:	Recover
Deck Description:	Concrete/Steel/Wood/LWC/CWF/Gypsum
System Type A(13):	One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam II, Multi-Max FA Minimum 1.5" thick	N/A	N/A

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck, Securock Minimum 0.25" thick	N/A	N/A

Note: All insulation shall be adhered to the deck or subsequent layers of insulation in 3" to 3.5" wide beads 12" o.c. of TITE-SET Roofing Adhesive or Fastac Roofing Adhesive or full mopping of approved asphalt within the EVT range and at a rate of 25 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Primer:	Any approved ASTM D41 Asphaltic primer.
Vapor Barrier / Temporary Roof:	Hot-applied, Self-adhering, Torch-applied or Cold-applied vapor barrier or temporary roof is installed to the primed concrete deck as indicated below:
Hot-applied:	Optional hot asphalt-applied base and/or ply sheets approved for use with roof cover followed by asphalt-applied CertainTeed Flintlastic GMS, Firestone SBS Cap, GAF Ruberoid 30, Johns Manville DynaGlas, Soprema Elastophene GR or Sopralene 180 or 250 GR or Siplast Paradiene 30.
Self-adhered:	Optional self-adhered base membrane approved for use with roof cover followed by CertainTeed Flintlastic SA Cap, GAF Liberty Cap, Johns Manville DynaGrip Cap or *JM*CleanBond Cap, Polyglass Elastoflex SA VG or Soprema Colphene FR GR or Colphene HR FR GR.
Torch-applied:	Optional torch-applied base membrane approved for use with roof cover followed by CertainTeed Flintlastic GTA or GTS, Firestone APP 180 FR Cap, GAF Ruberoid Torch GR, Johns Manville APPeX 4.5M, Soprema Elastophene Flam GR or Sopralene Flam 180 or 250 GR or Siplast Paradiene 30 TG.
Cold-applied:	Optional cold-applied base and/or ply sheet approved for use with the roof cover followed by CertainTeed Flintlastic GMS in FlintBond Adhesive, GAF Ruberoid 30 in Matrix 102 Adhesive, Johns Manville DynaGlas in MBR Adhesive, Polyglass Elastoflex VG in 1000 MB SBS Adhesive, Soprema Elastophene GR or Sopralene 180 or 250 GR in FM Adhesive or FM Adhesive (VOC) or Siplast Paradiene 30 in PA-311 Adhesive.
Membrane:	IB Single Ply or IB Single Ply Fleecebacked roof cover adhered to the insulation with Pliobond 7008 at 280 ft^2 per gallon.
Maximum Design Pressure:	-255.0 psf (See General Limitation #9)

Membrane Type:	Single Ply, Thermoplastic PVC, Insulated
Deck Type 7I:	Recover
Deck Description:	Concrete/Steel/Wood/LWC/CWF/Gypsum
System Type A(14):	One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ASTM C578 Type IX expanded polystyrene (min. 1.8 pcf) Minimum 1.5" thick	N/A	N/A

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck, Securock Minimum 0.25" thick	N/A	N/A

Note: All insulation shall be adhered to the deck or subsequent layers of insulation in full mopping of approved asphalt within the EVT range and at a rate of 25 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Primer:	Any approved ASTM D41 Asphaltic primer.
Vapor Barrier / Temporary Roof:	Hot-applied, Self-adhering, Torch-applied or Cold-applied vapor barrier or temporary roof is installed to the primed concrete deck as indicated below:
Hot-applied:	Optional hot asphalt-applied base and/or ply sheets approved for use with roof cover followed by asphalt-applied CertainTeed Flintlastic GMS, Firestone SBS Cap, GAF Ruberoid 30, Johns Manville DynaGlas, Soprema Elastophene GR or Sopralene 180 or 250 GR or Siplast Paradiene 30.
Self-adhered:	Optional self-adhered base membrane approved for use with roof cover followed by CertainTeed Flintlastic SA Cap, GAF Liberty Cap, Johns Manville DynaGrip Cap or *JM*CleanBond Cap, Polyglass Elastoflex SA VG or Soprema Colphene FR GR or Colphene HR FR GR.
Torch-applied:	Optional torch-applied base membrane approved for use with roof cover followed by CertainTeed Flintlastic GTA or GTS, Firestone APP 180 FR Cap, GAF Ruberoid Torch GR, Johns Manville APPeX 4.5M, Soprema Elastophene Flam GR or Sopralene Flam 180 or 250 GR or Siplast Paradiene 30 TG.
Cold-applied:	Optional cold-applied base and/or ply sheet approved for use with the roof cover followed by CertainTeed Flintlastic GMS in FlintBond Adhesive, GAF Ruberoid 30 in Matrix 102 Adhesive, Johns Manville DynaGlas in MBR Adhesive, Polyglass Elastoflex VG in 1000 MB SBS Adhesive, Soprema Elastophene GR or Sopralene 180 or 250 GR in FM Adhesive or FM Adhesive (VOC) or Siplast Paradiene 30 in PA-311 Adhesive.
Membrane:	IB Single Ply or IB Single Ply Fleecebacked roof cover adhered to the insulation with Pliobond 7008 at 280 ft^2 per gallon.
Maximum Design Pressure:	-202.5 psf (See General Limitation #9)

Membrane Type:	Single Ply, Thermoplastic PVC, Insulated
Deck Type 7I:	Recover
Deck Description:	Concrete/Steel/Wood/LWC/CWF/Gypsum
System Type A(15):	One or more layers of insulation adhered with approved adhesive, membrane fully adhered

All General and System Limitations apply.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ASTM C578 Type IX expanded polystyrene (min. 1.8 pcf) Minimum 1.5" thick	N/A	N/A

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck, Securock Minimum 0.25" thick	N/A	N/A

Note: All insulation shall be adhered to the deck or subsequent layers of insulation in 3" to 3.5" wide beads 12" o.c. of TITE-SET Roofing Adhesive or Fastac Roofing Adhesive. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Primer:	Any approved ASTM D41 Asphaltic primer.
Vapor Barrier / Temporary Roof:	Hot-applied, Self-adhering, Torch-applied or Cold-applied vapor barrier or temporary roof is installed to the primed concrete deck as indicated below:
Hot-applied:	Optional hot asphalt-applied base and/or ply sheets approved for use with roof cover followed by asphalt-applied CertainTeed Flintlastic GMS, Firestone SBS Cap, GAF Ruberoid 30, Johns Manville DynaGlas, Soprema Elastophene GR or Sopralene 180 or 250 GR or Siplast Paradiene 30.
Self-adhered:	Optional self-adhered base membrane approved for use with roof cover followed by CertainTeed Flintlastic SA Cap, GAF Liberty Cap, Johns Manville DynaGrip Cap or *JM*CleanBond Cap, Polyglass Elastoflex SA VG or Soprema Colphene FR GR or Colphene HR FR GR.
Torch-applied:	Optional torch-applied base membrane approved for use with roof cover followed by CertainTeed Flintlastic GTA or GTS, Firestone APP 180 FR Cap, GAF Ruberoid Torch GR, Johns Manville APPeX 4.5M, Soprema Elastophene Flam GR or Sopralene Flam 180 or 250 GR or Siplast Paradiene 30 TG.
Cold-applied:	Optional cold-applied base and/or ply sheet approved for use with the roof cover followed by CertainTeed Flintlastic GMS in FlintBond Adhesive, GAF Ruberoid 30 in Matrix 102 Adhesive, Johns Manville DynaGlas in MBR Adhesive, Polyglass Elastoflex VG in 1000 MB SBS Adhesive, Soprema Elastophene GR or Sopralene 180 or 250 GR in FM Adhesive or FM Adhesive (VOC) or Siplast Paradiene 30 in PA-311 Adhesive.
Membrane:	IB Single Ply or IB Single Ply Fleecebacked roof cover adhered to the insulation with Pliobond 7008 at 280 ft^2 per gallon.
Maximum Design Pressure:	-180.0 psf (See General Limitation #9)

Membrane Type: Single Ply, Thermoplastic PVC, Insulated

Deck Type 7I: Recover

Deck Description: Concrete/steel

System Type D(1): Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply.

One or more layers of the following.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
AC Foam II, III Minimum 1.3" thick	**N/A**	**N/A**
ENRGY 2, ENRGY 3, Pyrox Minimum 1.4" thick	**N/A**	**N/A**

Note: Top layer shall have preliminary attachment, prior to the installation of the membrane sheet, 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. All layers of insulation and base sheet shall be simultaneously fastened. See membrane sheet below for fasteners and density.

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

Barrier: None.

Membrane: IB Single Ply or IB Single Ply Fleecebacked mechanically fastened through the insulation as specified below:

Fastening #1: Install maximum 72" wide sheets with a 5" overlap fastened 6" o.c. using:
STEEL DECK: IB Heavy Duty or Magnum Fastener with IB Magnum Plates or OMG XHD Fasteners with OMG 2-3/8 XHD Barbed Stress Plates or, Dekfast #15 or Dekspikes Fasteners and Plates or SFS Extra Load Fasteners and Plates.
CONCRETE DECK: OMG CD-10 with OMG 2-3/8" XHD Barbed Stress Plates or IB Magnum Plates or Dekspikes with Dekfast Galvalume Steel Round 2-3/8" 20 ga. Barbed plates.
The roof cover outer 1-½" side lap is heat welded.
Maximum Design Pressure –60 psf (See General Limitation #7)

Fastening #2: Install maximum 72" wide sheets with a 5" overlap fastened 12" o.c. using:
STEEL DECK: IB Heavy Duty or Magnum Fastener with IB Magnum Plates or OMG XHD Fasteners with OMG 2-3/8 XHD Barbed Stress Plates or, Dekfast #15 or Dekspikes Fasteners and Plates or SFS Extra Load Fasteners and Plates.
CONCRETE DECK: OMG CD-10 with OMG 2-3/8" XHD Barbed Stress Plates or IB Magnum Plates or Dekspikes with Dekfast Galvalume Steel Round 2-3/8" 20 ga. Barbed plates.
The roof cover outer 1-½" side lap is heat welded.
Maximum Design Pressure –45 psf (See General Limitation #7)

Maximum Design Pressure: See Fastening Options Above

Membrane Type: Single Ply, Thermoplastic PVC, Insulated

Deck Type 7I: Recover

Deck Description: Min. 19/32-inch plywood or wood plank

System Type D(3): Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply. Choose one or any combination of the following.

One or more layers of the following:

Insulation Layer	Insulation Fasteners	Fastener Density
Any approved Polyisocyanurate Minimum 1.0" thick	N/A	N/A
Any approved polystyrene Minimum 1.0" thick	N/A	N/A
DensDeck, DensDeck Prime, DensDeck DuraGuard, Securock Minimum 0.25" 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: IB Single Ply or IB Single Ply Fleecebacked secured through the preliminarily attached insulation as specified below:

Fastening #1: OMG HD or XHD Fasteners with 2-inch Barbed Metal Plates, spaced 12" o.c. in minimum 5" side laps spaced maximum 67" apart. Outside 1.5" of seam is heat welded.
(Maximum Design Pressure -30.0 psf. (See General Limitation #7)

Fastening #2: OMG HD or XHD Fasteners with 2-inch Barbed Metal Plates, spaced 6" o.c. in minimum 5" side laps spaced maximum 67" apart. Outside 1.5" of seam is heat welded.
(Maximum Design Pressure -45.0 psf. (See General Limitation #7)

Fastening #3: IB HD #14 Fasteners with IB 2" Barbed Plates, spaced 4" o.c. in minimum 5" side laps spaced maximum 67" apart. Outside 1.5" of seam is heat welded.
(Maximum Design Pressure -52.5 psf. (See General Limitation #7)

Fastening #4: IB HD #14 Fasteners with IB 2" Barbed Plates, spaced 3" o.c. in minimum 5" side laps spaced maximum 67" apart. Outside 1.5" of seam is heat welded.
(Maximum Design Pressure -60.0 psf. (See General Limitation #7)

Maximum Design Pressure: See Fastening Options Above.

Membrane Type:	Single Ply, Thermoplastic PVC, Non-Insulated
Deck Type 7:	Recover
Deck Description:	Concrete
System Type F(1):	Membrane fully adhered to deck.

All General and System Limitations apply.

Membrane:	IB Single Ply or IB Single Ply Fleecebacked roof cover adhered to the concrete with Pliobond 7008 at 280 ft^2 per gallon.
Maximum Design Pressure:	-512.5 psf; (See General Limitation #9.)

RECOVER SYSTEM LIMITATIONS:

1. All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. Insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.

END OF THIS ACCEPTANCE