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)

US Ply, Inc.
2000 E. Richmond Ave.
Fort Worth, TX 76104

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: US Ply APP Modified Bitumen Roofing Systems Over Recover Decks

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

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

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

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

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

This NOA renews NOA #18-0109.05 and consists of pages 1 through 20.
The submitted documentation was reviewed by Alex Tigera.

ROOFING ASSEMBLY NOTICE OF ACCEPTANCE

Category: Roofing
Sub-Category: Modified Bitumen
Material: APP
Deck Type: Recover
Maximum Design Pressure: **-262.5 psf**

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
USP Base	36" x 108'	ASTM D 4601	An asphaltic, fiberglass reinforced base sheet
USP NVB	36" x 36'	ASTM D 4897 Type II	Fiberglass reinforced venting base sheet.
USP Type IV Felt	36" X 180'	ASTM D 2178	An asphaltic, fiberglass reinforced, ASTM D2178 Type IV ply sheet.
USP Type VI Felt	36" X 180'	ASTM D 2178	An asphaltic, fiberglass reinforced, ASTM D2178 Type VI ply sheet.
USP APP 160S	39-3/8" X 32' 9"	ASTM D 6222 Type I, Grade S	Polyester reinforced, smooth surfaced, APP modified bitumen base / interply sheet.
USP APP 160M	39-3/8" X 32' 9"	ASTM D 6222 Type I, Grade M	Polyester reinforced, mineral granule surfaced, APP modified bitumen cap sheet.
SafeWeld 180S APP	39-3/8 x 32' 9"	ASTM D 6222 Type I, Grade S	Smooth surfaced, polyester reinforced APP modified bitumen membrane with talc underside.
SafeWeld 180M APP	39-3/8 X 32' 9"	ASTM D 6222 Type I, Grade G	Smooth surfaced, polyester reinforced APP modified bitumen membrane with slag underside.
SafeWeld 180FR APP	39-3/8" x 32' 9"	ASTM D 6222 Type I, Grade G	Granule surfaced, polyester reinforced, fire resistant, APP modified bitumen membrane with slag underside.
DuraWeld 4S APP	39-3/8" x 32' 9"	ASTM D 6222 Type I, Grade S	Smooth surfaced, polyester reinforced, APP modified bitumen base / interplay sheet.
DuraWeld 4M APP	39-3/8" x 32' 9"	ASTM D 6222 Type I, Grade G	Polyester reinforced, granule surfaced APP modified bitumen cap sheet.
DuraWeld 4M FR APP	39-3/8" X 32' 9"	ASTM D 6222 Type I, Grade G	Polyester reinforced, mineral granule surfaced, fire resistant, APP modified bitumen cap sheet.
USP #442 Fibered Aluminum Roof Coating	5 gal	ASTM D 2824 Type III	A hydrocarbon protective coating.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ENRGY 3	Isocyanurate Insulation.	Johns Manville Corporation
FescoBoard	Rigid perlite roof insulation board.	Johns Manville Corporation
Multi-Max FA-3	Polyisocyanurate Insulation	Rmax Operating, Inc.
H-Shield, Tapered H-Shield, H-Shield CG	Polyisocyanurate foam insulation	Hunter Panels, LLC
ACFoam-II, ACFoam-III	Polyisocyanurate Insulation	Atlas Roofing Corporation
ISO 95+ GL	Polyisocyanurate foam insulation	Firestone Building Products Company, LLC
DensDeck, DensDeck Prime,	Water resistant gypsum board	Georgia-Pacific Gypsum LLC
SECUROCK Gypsum-Fiber Roof Board	Gypsum board	United States Gypsum LLC
Structodek High Density Fiberboard Roof Insulation	High Density Wood Fiber insulation board.	Blue Ridge Fiberboard, Inc.
Insulfoam EPS	Closed-cell, expanded polystyrene board	Insulfoam LLC

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Trufast Twin Loc-Nail Assembled Fastener	Preassembled galvalume steel fastener/plate unit.	Various	Altenloh, Brinck & Co. US., Inc.
2.	PlyFast Double Lock Nail E	Preassembled galvalume steel fastener/plate unit.	Various	U.S. Ply, Inc.
3.	Trufast FM-75 Base Sheet Fastener, Trufast FM-90 Base Sheet Fastener	Base ply fasteners.	Various	Altenloh, Brinck & Co. US., Inc.
4.	PlyFast 1.7" Base Ply Fastener E	Galvanized steel fastener	Various	U.S. Ply, Inc.
5.	OMG Heavy Duty	Self drilling fastener for steel used wood, steel or concrete decks	Various	OMG, Inc.
6.	3 in. Round Metal Plate	Insulation fastening plate	3" Round	OMG, Inc.
7.	Trufast 3" Metal Insulation Plate	Galvalume steel stress plate	3" Diameter	Altenloh, Brinck & Co. US., Inc.
8.	Trufast #14 HD Fasteners	Self-drilling, coated, carbon steel fastener used in concrete, steel and wood decks.	Various	Altenloh, Brinck & Co. US., Inc.
9.	PlyFast #14 Fastener T	Fastener used in steel, concrete and wood decks.	Various	U.S. Ply, Inc.
10.	PlyFast 3" Metal Plate T	Galvalume steel stress plate	3" Diameter	U.S. Ply, Inc.
11.	PlyFast #14 Fastener O	Self drilling fastener for steel used wood, steel or concrete decks	Various	U.S. Ply, Inc.
12.	PlyFast 3" Metal Plate O	Insulation fastening plate	3" Round	U.S. Ply, Inc.
13.	OMG OlyBond 500	Spray Polyurethane Foam	N/A	OMG, Inc.
14.	Millennium One Step Foamable Adhesive	Highly elastomeric, one-step, all purpose, foamable adhesive	N/A	H.B. Fuller.
15.	Millennium PG-1 Pump Grade Adhesive	Polyurethane foamable adhesive	N/A	H.B. Fuller
16.	ICP Adhesives CR-20	Dual component urethane adhesive.	Various	ICP Adhesives and Sealants, Inc.

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
Factory Mutual Research Corp.	3020703	FM 4470	07/30/04
	3014751	FM 4450	08/27/03
	3012321	FM 4470	07/29/02
	3014692	FM 4470	08/05/03
	3024311	FM 4470	11/01/06
	3026836	FM 4454	07/13/07
	3023458	FM 4450	07/18/06
	3029993	FM 4470	09/21/07
Exterior Research & Design, LLC	2005.U0212.09.05	FM 4470	09/09/05
	U11650.07.09-1	TAS 114	07/15/09
	U0215.05.06-2-R2	ASTM D6222	08/02/10
	02762.03.05-R2	FM 4470	04/01/10
	U41790.05.12-1	ASTM D6222 & TAS 110	05/30/12
	U41790.05.12-2	ASTM D6222 & TAS 110	05/30/12
	U35910.12.11-1	TAS 117	12/21/11
	U35910.12.11-3	ASTM D1878	12/21/11
	2005.U0212.09.05-R3	TAS 114	03/21/13

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

Engineer/Agency	Identifier	Assemblies:	Date
Zachary R. Priest	Letter	B(1), D(1), E(1)	09/12/16

APPROVED ASSEMBLIES

Membrane Type: APP

Deck Type 7I: Recover

Deck Description: 2500 psi structural concrete or concrete plank

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

All General and System limitations apply.

One or more layers of any of the following insulations:

(Optional) Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Insulfoam EPS Minimum 2.0" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck, DensDeck Prime Minimum ¼" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in with OMG OlyBond 500 adhesive applied in ¾" to 1" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP APP 160S, SafeWeld 180S APP, or DuraWeld 4S APP, heat welded.

Ply Sheet: (Optional) One or more layers of USP APP 160S, SafeWeld 180S APP, or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:
USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design Pressure: -120.0 psf (See General Limitation #9.)

Membrane Type: APP

Deck Type 7I: Recover

Deck Description: 2500 psi structural concrete or concrete plank

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

All General and System limitations apply.

One or more layers of any of the following insulations:

(Optional) Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Insulfoam EPS Minimum 2.0" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in with OMG OlyBond 500 adhesive applied in ¾" to 1" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP Base fully adhered in hot asphalt.

Ply Sheet: (Optional) One or more layers of USP APP 160S, SafeWeld 180S APP, or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:
USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design Pressure: -120.0 psf (See General Limitation #9.)

Membrane Type: APP

Deck Type 7I: Recover

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(3): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
DensDeck, DensDeck Prime Minimum ¼" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in with OMG OlyBond 500 adhesive applied in ¾" to 1" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP APP 160S, SafeWeld 180S APP, or DuraWeld 4S APP, heat welded.

Ply Sheet: (Optional) One ply of USP APP 160S, SafeWeld 180S APP, or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:
USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design Pressure: -120.0 psf (See General Limitation #9.)

Membrane Type: APP

Deck Type 7I: Recover

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(4): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

(Optional) Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ISO 95+ GL **Minimum 1.5" thick**	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Structodek High Density Fiberboard Roof Insulation **Minimum ½" thick**	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in with OMG OlyBond 500 adhesive applied in ¾" to 1" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP Base is fully adhered with hot asphalt.

Ply Sheet: (Optional) One ply of USP APP 160S, SafeWeld 180S APP, or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:
USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design Pressure: -120.0 psf (See General Limitation #9.)

Membrane Type: APP

Deck Type 7I: Recover

Deck Description: Elastizell Lightweight Concrete

System Type A(5): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
H-Shield, ACFoam-II, ISO 95+ GL Minimum 1.5" thick	**N/A**	**N/A**
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime Minimum ¼" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in with OMG OlyBond 500 adhesive applied in ¾" to 1" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP APP 160S, SafeWeld 180S APP, or DuraWeld 4S APP, heat welded to DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board coverboards only.

Ply Sheet: (Optional) One or more layers of USP APP 160S, SafeWeld 180S APP, or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:
USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design Pressure: -120.0 psf (See General Limitation #9.)

Membrane Type: APP

Deck Type 7I: Recover

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(6): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, H-Shield, ENRGY 3, ISO 95+ GL Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in with Millennium One Step Foamable Adhesive or Millennium PG-1 Pump Grade Adhesive applied in ½" to ¾" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP Base is fully adhered with hot asphalt.

Ply Sheet: (Optional) One ply of USP APP 160S, SafeWeld 180S APP, or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:
USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design Pressure: -127.5 psf (See General Limitation #9.)

Membrane Type: APP

Deck Type 7I: Recover

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(7): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, H-Shield, ENRGY 3 Minimum 2" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck, SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

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

Base Sheet: One ply of USP APP 160S, SafeWeld 180S APP, or DuraWeld 4S APP, heat welded.

Ply Sheet: (Optional) One ply of USP APP 160S, SafeWeld 180S APP, or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:
USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design Pressure: -157.5 psf (See General Limitation #9.)

Membrane Type: APP

Deck Type 7I: Recover

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(8): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, H-Shield, ENRGY 3 Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in with Millennium PG-1 Pump Grade Adhesive applied in ½" to ¾" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP Base fully adhered in hot asphalt.

Ply Sheet: (Optional) One or more layers of USP APP 160S, SafeWeld 180S APP, or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, 4M APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:
USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design Pressure: -180.0 psf (See General Limitation #9.)

Membrane Type: APP

Deck Type 7I: Recover

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(9): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, H-Shield, ENRGY 3, ISO 95+ GL Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Structodek High Density Fiberboard Roof Insulation or Approved High Density Fiberboard Insulation Minimum ½" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in with Millennium PG-1 Pump Grade Adhesive applied in ½" to ¾" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP Base is fully adhered with hot asphalt.

Ply Sheet: (Optional) One ply of USP APP 160S, SafeWeld 180S APP, or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M APP or DuraWeld 4MFR APP, heat welded.

Surfacing: For use on non FR membranes:
USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design Pressure: -180.0 psf (See General Limitation #9.)

Membrane Type: APP

Deck Type 7I: Recover

Deck Description: Min 18-22ga 33ksi steel or 2500 psi structural concrete or concrete plank

System Type A(10): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
ACFoam-II (Over Concrete Deck only), ACFoam-III (Over Concrete Deck only), ISO 95+ GL (Over Concrete Deck only), Multi-Max FA-3 (Over Concrete Deck only)		
Minimum 1.5" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board		
Minimum ½" thick	**N/A**	**N/A**

Note: Insulation shall be adhered with ICP Adhesives CR-20 applied in 3" to 3½" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP APP 160S, SafeWeld 180S APP, or DuraWeld 4S APP, heat welded.

Ply Sheet: (Optional) One ply of USP APP 160S, SafeWeld 180S APP, or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:
USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

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

Membrane Type:	APP
Deck Type 7I:	Recover
Deck Description:	22 ga. Type B, Grade 33 steel, fastened 6" o.c. with Buildex Tek 5 fasteners to steel supports spaced max. 6 ft o.c. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 216 lbf when tested with OMG Heavy Duty fastener, installed through to the deck in accordance with TAS 105. **This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittted Table.**
System Type B(1):	Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ISO 95+ GL, ENRGY 3 **Minimum 2.0" thick**	**5 with 6** **11 with 12**	**1: 1.6 ft^2**
ACFoam-II, Multi-Max FA-3 **Minimum 2.0" thick**	**7 with 8** **11 with 10** **5 with 6** **11 with 12**	**1: 1.6 ft^2**

Note: Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
FescoBoard **Minimum ¾" thick**	**N/A**	**N/A**
Structodek High Density Fiberboard Roof Insulation **Minimum ½" thick**	**N/A**	**N/A**
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board **Minimum ¼" thick**	**N/A**	**N/A**

Note: Top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 25 lbs/sq^2 Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet:	One ply of USP Base is fully adhered with hot asphalt to coverboard.
Ply Sheet:	(Optional) One or more layers of USP APP 160S, SafeWeld 180SAPP, or DuraWeld 4S APP, heat welded.
Membrane:	One ply of SafeWeld 180M APP, SafeWeld 180FR APP, USP APP 160M, DuraWeld 4M APP or DuraWeld 4M FR APP, heat welded.
Surfacing:	For use on non FR membranes: USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.
Maximum Design Pressure:	- 67.5 psf (See General Limitation #7).

Membrane Type: APP

Deck Type 7I: Recover

Deck Description: 22 ga. Type B, Grade 33 steel, fastened 6" o.c. with Buildex Tek 5 fasteners to steel supports spaced max. 6 ft o.c.
*The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 216 lbf when tested with OMG Heavy Duty fastener, installed through to the deck in accordance with TAS 105.

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

System Type D(1): One or more layers of insulation and base sheet simultaneously attached.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Any approved polyisocyanurate Listed in Table 2 Minimum 2.0" thick	**N/A**	**N/A**

(Optional) Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor 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 base/anchor sheet below for fasteners and density.

Base Sheet: One ply of USP Base mechanically fastened to the deck with PlyFast #14 Fastener O or OMG Heavy Duty fasteners with OMG 3 in. Round Metal Plates, or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates, or PlyFast #14 Fastener T with PlyFast 3" Metal Plate T spaced 6" o.c. in a 4" side lap and 6" o.c. in two, equally spaced, staggered rows.

Ply Sheet: (Optional) One or more layers of USP APP 160S, SafeWeld 180S APP, or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:
USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design Pressure: -135.0 psf (See General Limitation #7)

Membrane Type: APP

Deck Type 7I: Recover

Deck Description: Min. 300 psi Elastizell Lightweight Concrete over 22 ga. Type B, Grade 80 steel, fastened 6" o.c. with Buildex Tek 5 fasteners to steel supports spaced max. 6 ft o.c.
*The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 120 lbf when tested with Trufast Twin Loc-Nail, installed through to the deck in accordance with TAS 105.

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

System Type E(1): Base sheet mechanically fastened to roof deck.

All General and System limitations apply.

Base Sheet: One ply of USP Base Sheet mechanically attached with Trufast Twin Loc-Nail Assembled Fasteners, PlyFast Double Lock Nail E to engage the existing LWC (min. 1.8-inch embedment)
Or
PlyFast #14 Fastener O or OMG Heavy Duty Fasteners with OMG 3 in. Round Metal Plates, Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates or PlyFast #14 Fastener T with PlyFast 3" Metal Plate T installed through the existing LWC to engage the structural deck. Fasteners are to be spaced 9" o.c. in 4" lap and 9" o.c. in two, equally spaced, staggered rows.

Ply Sheet: (Optional) One or more layers of USP APP 160S, SafeWeld 180S or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:
USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design Pressure: -60.0 psf (See General Limitation #7)

ERD 2005.U0212.09.05, Table 4F, Sample 8

- Table 1A for Base sheet and fastener additions

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 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. 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.)**

END OF THIS ACCEPTANCE