



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
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www.miamidade.gov/

NOTICE OF ACCEPTANCE (NOA)

**Carlisle SynTec Systems, a division of Carlisle Construction Materials LLC.
1285 Ritner Highway
Carlisle, PA 17013**

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: Carlisle Sure-Weld Single Ply TPO 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 NOA revises NOA# 24-0502.07 and consists of pages 1 through 62.
The submitted documentation was reviewed by Alex Tigera.

03/26/26



NOA No: 24-1210.07
Expiration Date: 08/31/29
Approval Date: 03/26/26
Page 1 of 62

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply
Material:	TPO
Deck Type:	Recover
Maximum Design Pressure:	See Specific Assemblies herein.
Fire Classification:	See General Limitation #1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Sure-Weld	various	TAS 131	Reinforced white or colored, 45-mil or 60-mil thick, TPO membrane.
Sure-Weld EXTRA	various	TAS 131	Reinforced white or colored, 80-mil thick, TPO membrane.
Sure-Weld HS	various	TAS 131	Reinforced white or colored, 45-mil, 60-mil or 80-mil thick, TPO membrane.
Sure-Weld AFX 120	Various	TAS 131	Reinforced white or colored, 120-mil thick, TPO membrane with fleece backing.
Sure-Weld AFX 135	Various	TAS 131	Reinforced white or colored, 135-mil thick, TPO membrane with fleece backing.
Sure-Weld AFX 155	Various	TAS 131	Reinforced white or colored, 155-mil thick, TPO membrane with fleece backing.
Sure-Weld FleeceBACK 100	various	TAS 131	Reinforced white or colored, 100-mil thick, TPO membrane with fleece backing.
Sure-Weld FleeceBACK 115	various	TAS 131	Reinforced white or colored, 115-mil thick, TPO membrane with fleece backing.
Sure-Weld FleeceBACK 135	various	TAS 131	Reinforced white or colored, 135-mil thick, TPO membrane with fleece backing.
Sure-Weld Pressure Sensitive RUSS	various	TAS 131	TPO Reinforced Universal Securement Strip.



TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Aqua Base 120 Bonding Adhesive	Various	TAS 110	Water-based bonding adhesive
Carlisle OlyBond 500 BA	Various	TAS 110	Two-part, low-rise polyurethane adhesive
Carlisle Sure MB MC Adhesive	Various	TAS 110	Asphalt-Modified Polyether Adhesive
Flexible FAST 5-Gallon Jug Adhesive	5-gal. Box	TAS 110	Two-part, low-rise polyurethane adhesive
Flexible FAST Dual Cartridge Adhesive	Per carton - 4 cartridge sets	TAS 110	Two-part, low-rise polyurethane adhesive
Flexible FAST Dual Tank Adhesive	Per carton - 4 cartridge sets	TAS 110	Two-part, low-rise polyurethane adhesive
Flexible FAST Adhesive	15 & 50-gal. drum	TAS 110	Two-part, low-rise polyurethane adhesive
HydroBond Adhesive	5-gal. pail		Water-based bonding adhesive
Sure-Weld Bonding Adhesive	5-gal. pail	TAS 110	Solvent-based bonding adhesive.
Sure-Weld Low VOC Bonding Adhesive	5-gal. pail	TAS 110	Low VOC solvent based bonding adhesive



APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
StormBase	Polyisocyanurate roof insulation.	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
InsulBase	Polyisocyanurate roof insulation.	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
SecurShield	Polyisocyanurate foam core with a coated glass facer.	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
SecurShield HD	Polyisocyanurate foam core and high-density cover board	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
SecurShield HD Composite	Polyisocyanurate foam core with a coated glass facer.	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
DensDeck, DensDeck Prime	Silicon treated gypsum	Georgia-Pacific Gypsum, LLC.
H-Shield, H-Shield NB, H-Shield CG, H-Shield HD	Isocyanurate Insulation	Hunter Panels, a div of Carlisle construction Materials, LLC.
H-Shield HD Composite CG	Polyisocyanurate foam core with a coated glass facer.	Hunter Panels, a div of Carlisle construction Materials, LLC.
Structodek High Density Fiberboard Roof Insulation	High Density Wood Fiber insulation board.	Blue Ridge Fiberboard, Inc.
Insulfoam EPS, InsulFoam SP, InsulFoam R-TECH	Expanded polystyrene	Insulfoam, a Div. of Carlisle Const. Materials
SECUROCK Gypsum-Fiber Roof Board	Gypsum based board stock	USG Corp.
STYROFOAM ROOFMATE	Extruded polystyrene	The Dow Chemical Co.
HP Recovery Board	High Density Wood Fiber insulation board.	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
Carlisle Sure Seal EPS	Expanded polystyrene	Carlisle Syntec, a div of Carlisle construction Materials, LLC.



APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	HD 14-10 Fastener	Insulation/membrane fastener for concrete decks.	Various	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
2.	HPX Fastener, HP-Xtra Fastener	Insulation and membrane fastener	Various	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
3.	Insulation Fastening Plates	Metal plates used for membrane securement with Sure-Seal fasteners.	3" dia	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
4.	Piranha Plate, Piranha Xtra Plate	Metal plates used for membrane securement with Sure-Seal fasteners.	2-3/8" dia	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
5.	InsulFast Fastener	Insulation and membrane fastener	Various	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
6.	CD-10	Insulation/membrane fastener for concrete decks.	Various	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
7.	#12 Standard Roofgrip	Insulation and membrane fastener	Various	OMG, Inc.
8.	#14 Roofgrip	Insulation and membrane fastener	Various	OMG, Inc.
9.	Trufast #14 HD Fasteners	Insulation and membrane fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
10.	Trufast #12 DP Fastener	Insulation and membrane fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
11.	Trufast 3" Metal Insulation Plate	Insulation and membrane fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
12.	Trufast 2.4" Barbed Metal Seam Plate (14 Barb)	Insulation and membrane fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
13.	RhinoBond Insulation Plate (TPO)	Coated galvalume plate	3" round	OMG, Inc.
14.	RhinoBond TreadSafe Plate (TPO)	Coated galvalume plate	3" round	OMG, Inc.
15.	RhinoBond Insulation Plate	Coated galvalume plate	3" round	Carlisle Syntec, a div of Carlisle construction Materials, LLC.



APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
16.	OMG 3 in. Galvalume Steel Plate	Coated galvalume plate	3” round	OMG, Inc.
17.	Dekfast DF-#12-PH3	Insulation and membrane fastener	Various	SFS Group USA, Inc.
18.	Dekfast DF-#14-PH3	Insulation and membrane fastener	Various	SFS Group USA, Inc.
19.	Dekfast PLT-H-2-7/8	Galvalume AZ50 stress plate	2-7/8” x 3-1/4”	SFS Group USA, Inc.
20.	Dekfast PLT-R-3	Galvalume AZ50 stress plate	3” round	SFS Group USA, Inc.
21.	Millennium One Step Foamable Adhesive	A two component, low rise, polyurethane foam adhesive		H.B. Fuller Company
22.	OMG OlyBond Adhesive	Two-part, low-rise polyurethane adhesive		OMG, Inc.



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Architectural Testing Inc.	ATI-37050.01	Wind Uplift Classification	3/13/00
	ATI-37490.01	Membrane Brittleness Testing	7/7/00
Factory Mutual Research Corp.	3020845	Wind Uplift and Fire Classification	1/25/06
	3019897	Wind Uplift and Fire Classification	10/07/05
	3022187	Wind Uplift and Fire Classification	9/15/05
	3014692	Wind Uplift and Fire Classification	8/05/03
	3019890	Wind Uplift and Fire Classification	12/16/04
	303393	Wind Uplift and Fire Classification	3/30/99
	303393	Wind Uplift Classification	3/26/99
	(Letter Report)		
	3001522	Wind Uplift and Fire Classification	3/26/99
	3001522	Wind Uplift Classification	11/3/98
	(Letter Report)		
	3Z9A1.AM	Wind Uplift and Fire Classification	10/15/97
	Approval Guide Excerpt	Wind Uplift and Fire Classification Listings	5/00
Letter	Wind Uplift and Fire Classifications	5/2/00	
3012144	Class 4470	06/04/04	
3037400	Class 4470	09/02/09	
Celotex Corporation Testing Services	520257	Membrane Physical Property Testing	4/19/00
SGS U.S. Testing Company Incorporated	131248-R2	Membrane Ozone Resistance Testing	1/6/00
Trinity ERD	C46470.07.14-1A	TAS 131	07/16/14
	C46470.07.14-1B	TAS 131	07/16/14
	C46470.07.14-2A	TAS 131	07/30/14
	C46470.07.14-4-R1	TAS 131	07/21/14
	4r-CRL-20-SSTHP-.02.D	TAS 131	04/27/21
	4r-CRL-20-SSTHP-.02.C	TAS 131	04/27/21
	4-CRL-18-002.04.18-2A	TAS 131	04/30/18
	4r-CRL-20-SSTHP-02.B.R2	TAS 131	04/27/21
	4r-CRL-20-SSTHP-.02.A	TAS 131	04/27/21
	4r-CRL-20-SSTHP-.03.A	TAS 131	04/27/21

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

<u>Engineer/Agency</u>	<u>Identifier</u>	<u>Assemblies:</u>	<u>Date</u>
FM Approval Deck Limitation	RoofNav Listing	D(1), D(2), D(3), D(4), D(5)	01/01/13



APPROVED ASSEMBLIES

- Membrane Type:** Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
- Deck Type 7I:** Recover, Insulated
- Deck Description:** 2500 psi structural concrete.
- System Type A(1):** One or more layers of insulation adhered with Carlisle Flexible FAST, Flexible FAST Dual Cartridge, Flexible FAST 5-Gallon Jug Adhesive, Flexible FAST Dual Tank. Membrane adhered.

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

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, StormBase, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1” thick	N/A	N/A
<u>Top Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Dens Deck Prime, or SECUROCK Gypsum Fiber Roof Board Minimum ½” thick	N/A	N/A

Note: All insulation shall be adhered to the existing roof with Carlisle Flexible FAST, Flexible FAST Dual Cartridge, Flexible FAST 5-Gallon Jug , Flexible FAST Dual Tank Adhesive at a rate of 1 gal./sq., full coverage.

Membrane: Sure-Weld FleeceBACK membrane adhered to the insulation using Aqua Base 120 Bonding Adhesive, applied to the substrate only at a rate of 120 ft²/gallon or HydroBond Water-Based Bonding Adhesive applied to the substrate only at a rate of 100 ft²/gallon. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -232.5 psf. (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, FleeceBACK
Deck Type 7I: Recover, Insulated
Deck Description: 2500 psi Structural Concrete
System Type A(2): Insulation adhered to existing BUR, membrane adhered.

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

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Insulfoam SP Minimum 1-inch thick	N/A	N/A

Note: All insulation panels are adhered to the existing asphalt BUR with Flexible FAST Adhesive, Flexible FAST Dual Cartridge, Flexible FAST 5-Gallon Jug or Flexible FAST Dual Tank Adhesive. Application rate is 1 gal./sq, full coverage. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK membrane adhered to the insulation with Flexible FAST Adhesive, Flexible FAST Dual Cartridge, Flexible FAST 5-Gallon Jug Application rate is 1 gal./sq, full coverage. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -395 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, FleeceBACK
Deck Type 7I: Recover, Insulated
Deck Description: 2500 psi Structural Concrete
System Type A(3): Insulation adhered to existing BUR, membrane adhered.

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

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Insulfoam SP Minimum 1-inch thick	N/A	N/A

Note: All insulation panels are adhered to the existing asphalt BUR with Flexible FAST, Flexible FAST Dual Cartridge, Flexible FAST 5-Gallon Jug Adhesive . Application rate is 1 gal./sq, full coverage. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK membrane adhered to the insulation with Flexible FAST, Flexible FAST Dual Cartridge, Flexible FAST 5-Gallon Jug Adhesive. Application rate is 1 gal./sq, full coverage. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -225 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, FleeceBACK
Deck Type 7I: Recover, Insulated
Deck Description: 2500 psi Structural Concrete
System Type A(4): Insulation adhered to existing BUR or modified bitumen roof cover, membrane adhered.

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

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Minimum 1-inch thick	N/A	N/A

Note: All insulation panels are adhered to the existing asphalt BUR or modified bitumen with Flexible FAST, Flexible FAST Dual Cartridge, Flexible FAST 5-Gallon Jug Adhesive or Flexible FAST Dual Tank Adhesive applied in ¾ to 1-inch beads spaced 12-inches on center. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK membrane adhered to the insulation with Flexible FAST, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive applied to the substrate in approximately ¾ to 1-inch wide beads spaced 12-inches on center. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

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



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7I: Recover, Insulated
Deck Description: 2500 psi Structural Concrete
System Type A(5): Insulation adhered to existing asphalt BUR, membrane adhered.

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

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Insulfoam EPS Minimum 2-inch thick	N/A	N/A
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.5-inch thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Dens Deck Prime Minimum 1/4-inch thick	N/A	N/A

Note: All insulation panels are adhered to the existing BUR with Carlisle OlyBond 500 BA. Application rate is 1/2 to 3/4-inch wide beads spaced 12-inches on center. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld EXTRA or Sure-Weld HS membrane adhered to the substrate using Sure-Weld Bonding Adhesive or Low VOC Bonding Adhesive. The adhesive is applied in a contact application and is applied to both the underside of the roofing membrane and the top side of the approved substrate at a rate of 60 ft²/gallon, finished surface area. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -120 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7I: Recover, Insulated
Deck Description: 2500 psi Structural Concrete
System Type A(6): Insulation adhered to existing asphalt BUR, membrane adhered.

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

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Dens Deck Prime Minimum 1/4-inch thick	N/A	N/A

Note: All insulation panels are adhered to the existing BUR with Carlisle OlyBond 500 BA. Application rate is 1/2 to 3/4-inch wide beads spaced 12-inches on center. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld EXTRA or Sure-Weld HS membrane adhered to the substrate using Sure-Weld Bonding Adhesive or Low VOC Bonding Adhesive.. The adhesive is applied in a contact application and is applied to both the underside of the roofing membrane and the top side of the approved substrate at a rate of 60 ft²/gallon, finished surface area. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -120 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7I: Recover, Insulated
Deck Description: 2500 psi Structural Concrete
System Type A(7): Insulation adhered to existing asphalt BUR, membrane adhered.

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

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.5-inch thick	N/A	N/A

Note: All insulation panels are adhered to the existing BUR with Carlisle OlyBond 500 BA. Application rate is 1/2 to 3/4-inch wide beads spaced 12-inches on center. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld EXTRA or Sure-Weld HS membrane adhered to the substrate using Sure-Weld Bonding Adhesive or Low VOC Bonding Adhesive . The adhesive is applied in a contact application and is applied to both the underside of the roofing membrane and the top side of the approved substrate at a rate of 60 ft²/gallon, finished surface area. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -120 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7I: Recover, Insulated
Deck Description: Lightweight Insulating Concrete
System Type A(8): Insulation adhered to existing asphalt BUR, membrane adhered.

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

<u>Base and/or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.5-inch thick	N/A	N/A
Dens Deck Prime Minimum 1/4-inch thick	N/A	N/A

Note: All insulation panels are adhered to the existing BUR with Carlisle OlyBond 500 BA. Application rate is 1/2 to 3/4-inch wide beads spaced 12-inches on center. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld EXTRA or Sure-Weld HS membrane adhered to the substrate using Sure-Weld Bonding Adhesive or Low VOC Bonding Adhesive. The adhesive is applied in a contact application and is applied to both the underside of the roofing membrane and the top side of the approved substrate at a rate of 60 ft²/gallon, finished surface area. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -120 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, FleeceBACK
Deck Type 7I: Recover, Insulated
Deck Description: Existing Standing Seam Metal
System Type A(9): Insulation adhered to existing standing seam metal roof, membrane adhered.

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

<u>Base (Flute Fill) Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Insulfoam EPS Minimum 2-inch thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Dens Deck Prime Minimum 1/4-inch thick	N/A	N/A

Note: All insulation panels are adhered to the existing standing seam metal with Flexible FAST, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive. Application rate is 1/2 to 3/4-inch wide beads spaced 12-inches on center. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK membrane adhered to the insulation with Flexible FAST, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive applied to the substrate in approximately 1/2 to 3/4-inch wide beads spaced 12-inches on center. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -120 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, FleeceBACK
Deck Type 7I: Recover, Insulated
Deck Description: Existing Standing Seam Metal
System Type A(10): Insulation adhered to existing standing seam metal roof, membrane adhered.

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

<u>Base (Flute Fill) Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Insulfoam EPS Minimum 2-inch thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum 1/4-inch thick	N/A	N/A

Note: All insulation panels are adhered to the existing standing seam metal with Flexible FAST Dual Tank, Flexible FAST, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive. Application rate is 1/2 to 3/4-inch wide beads spaced 12-inches on center. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK membrane adhered to the insulation with Flexible FAST, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive applied to the substrate in approximately 1/2 to 3/4-inch wide beads spaced 12-inches on center. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -135 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 7I: Recover, Insulated
Deck Description: 2500 psi concrete /wood / 18-22 ga. 33 ksi steel.
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.

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<u>Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite		
Minimum 1.4” thick	Approved Fastener for Deck Type	1:2 ft²
Minimum 2” thick	Approved Fastener for Deck Type	1:4 ft²
StormBase		
Minimum 1.4” thick	Approved Fastener for Deck Type	1:2 ft²
Minimum 2” thick	Approved Fastener for Deck Type	1:4 ft²

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Vapor Retarder: (Optional) Any UL of FMRC approved vapor Retarder applied to the roof deck or over a base layer of insulation.

Barrier: None.

Membrane #1: Sure-Weld, Sure-Weld EXTRA or Sure-Weld HS membrane adhered to the insulation using Sure-Weld Bonding Adhesive or Low VOC Bonding Adhesive. The adhesive is applied in a contact application and is applied to both the underside of the roofing membrane and the top side of the approved substrate at a rate of 60 ft²/gallon, finished surface area. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.
 OR
 Sure-Weld, Sure-Weld EXTRA or Sure-Weld HS membrane adhered to the insulation using Aqua Base 120 Bonding Adhesive. The adhesive is applied in a contact application and is applied to both the underside of the roofing membrane and the top side of the approved substrate at a rate of 120 ft²/gallon, finished surface area. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.



Membrane #2: Sure-Weld FleeceBACK membrane adhered to the insulation with Flexible FAST, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive applied to the substrate at a rate of 1 gal/sq., full coverage. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

OR

Sure-Weld FleeceBACK membrane adhered to the insulation using Aqua Base 120 Bonding Adhesive, applied to the substrate only at a rate of 120 ft²/gallon or HydroBond Water-Based Bonding Adhesive applied to the substrate only at a rate of 100 ft²/gallon. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design

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



Membrane Type: Single Ply, Thermoplastic, TPO, FleeceBACK
Deck Type 7I: Recover, Insulated
Deck Description: 2500 psi Structural Concrete or Min., 22-gauge Type B, Grade 33 Steel deck fastened to minimum ¼-inch steel structural supports spaced a maximum 6-feet on center with ITW Buildex Traxx/5 spaced at a maximum 6-inches on center. Deck side laps are secured with ITW Buildex Traxx/1 at a maximum 24-inches on center.
System Type C(2): Insulation mechanically fastened, membrane adhered.

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

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1-inch thick	Approved Fastener for Deck Type	1:1.6 ft ²

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

Membrane: Sure-Weld, Sure-Weld EXTRA or Sure-Weld HS membrane adhered to the insulation using Sure-Weld Bonding Adhesive or Low VOC Bonding Adhesive The adhesive is applied in a contact application and is applied to both the underside of the roofing membrane and the top side of the approved substrate at a rate of 60 ft²/gallon, finished surface area. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.
OR
Sure-Weld FleeceBACK membrane adhered to the insulation with Flexible FAST, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive applied to the substrate in approximately 1/2 to 3/4-inch wide beads spaced 12-inches on center or at 1 gal./sq, full coverage. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

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



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7I: Recover, Insulated
Deck Description: 2500 psi Structural Concrete or Min., 22-gauge Type B, Grade 33 Steel deck fastened to minimum 1/4-inch steel structural supports spaced a maximum 6-feet on center with ITW Buildex Traxx/5 spaced at a maximum 6-inches on center. Deck side laps are secured with ITW Buildex Traxx/1 at a maximum 24-inches on center.
System Type C(3): Insulation mechanically fastened, membrane adhered.

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

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 2-inch thick	Approved Fastener for Deck Type	1:4 ft ²

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

Membrane: Sure-Weld, Sure-Weld EXTRA or Sure-Weld HS membrane adhered to the insulation using Sure-Weld Bonding Adhesive or Low VOC Bonding Adhesive. The adhesive is applied in a contact application and is applied to both the underside of the roofing membrane and the top side of the approved substrate at a rate of 60 ft²/gallon, finished surface area. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.
OR
Sure-Weld FleeceBACK membrane adhered to the insulation with Flexible FAST, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive applied to the substrate in approximately 1/2 to 3/4-inch wide beads spaced 12-inches on center or at 1 gal./sq, full coverage. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

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



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7I: Recover, Insulated
Deck Description: 2500 psi Structural Concrete or Min., 22-gauge Type B, Grade 33 Steel deck fastened to minimum ¼-inch steel structural supports spaced a maximum 6-feet on center with ITW Buildex Traxx/5 spaced at a maximum 6-inches on center. Deck side laps are secured with ITW Buildex Traxx/1 at a maximum 24-inches on center.
System Type C(4): Insulation mechanically fastened, membrane adhered.

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

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SecurShield, SecurShield HD Composite, H-Shield CG, H-Shield HD Composite Minimum 2-inch thick	Approved Fastener for Deck Type	1:1.6 ft ²

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

Membrane: Sure-Weld FleeceBACK membrane adhered to the insulation with Flexible FAST, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive applied to the substrate at 1 gal./sq, full coverage. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

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



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7I: Recover, Insulated
Deck Description: 2500 psi Structural Concrete or Min., 22-gauge Type B, Grade 33 Steel deck fastened to minimum ¼-inch steel structural supports spaced a maximum 6-feet on center with ITW Buildex Traxx/5 spaced at a maximum 6-inches on center. Deck side laps are secured with ITW Buildex Traxx/1 at a maximum 24-inches on center.
System Type C(5): Insulation mechanically fastened, membrane adhered.

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

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, H-Shield Minimum 2-inch thick	Approved Fastener for Deck Type	1:1.6 ft ²

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

Membrane: Sure-Weld, Sure-Weld EXTRA or Sure-Weld HS membrane adhered to the insulation using Sure-Weld Bonding Adhesive or Low VOC Bonding Adhesive. The adhesive is applied in a contact application and is applied to both the underside of the roofing membrane and the top side of the approved substrate at a rate of 60 ft²/gallon, finished surface area. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.
OR

Sure-Weld FleeceBACK membrane adhered to the insulation with Flexible FAST, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive applied to the substrate at 1 gal./sq, full coverage. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -75 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7I: Recover, Insulated
Deck Description: 2500 psi Structural Concrete or Min., 22-gauge Type B, Grade 33 Steel deck fastened to minimum ¼-inch steel structural supports spaced a maximum 6-feet on center with ITW Buildex Traxx/5 spaced at a maximum 6-inches on center. Deck side laps are secured with ITW Buildex Traxx/1 at a maximum 12 inches on center.
System Type C(6): Insulation mechanically fastened, membrane adhered.

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

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SecurShield, SecurShield HD Composite, H-Shield CG, H-Shield HD Composite Minimum 2-inch thick	Approved Fastener for Deck Type	1:1 ft ²

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

Membrane: Sure-Weld, Sure-Weld EXTRA or Sure-Weld HS membrane adhered to the insulation using Sure-Weld Bonding Adhesive or Low VOC Bonding Adhesive. The adhesive is applied in a contact application and is applied to both the underside of the roofing membrane and the top side of the approved substrate at a rate of 60 ft²/gallon, finished surface area. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.
OR

Sure-Weld FleeceBACK membrane adhered to the insulation with Flexible FAST, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive applied to the substrate in approximately 1/2 to 3/4-inch wide beads spaced 4-inches on center or at 1 gal./sq, full coverage. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -82.5 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7I: Recover, Insulated
Deck Description: 2500 psi Structural Concrete or Min., 22-gauge Type B, Grade 80 Steel deck fastened to minimum ¼-inch steel structural supports spaced a maximum 6-feet on center with ITW Buildex Traxx/5 spaced at a maximum 6-inches on center. Deck side laps are secured with ITW Buildex Traxx/1 at a maximum 12 inches on center.
System Type C(7): Insulation mechanically fastened, membrane adhered.

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

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SecurShield, SecurShield HD Composite, H-Shield CG, H-Shield HD Composite Minimum 2-inch thick	Approved Fastener for Deck Type	1:1 ft ²

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

Membrane: Sure-Weld, Sure-Weld EXTRA or Sure-Weld HS membrane adhered to the insulation using Sure-Weld Bonding Adhesive or Low VOC Bonding Adhesive. The adhesive is applied in a contact application and is applied to both the underside of the roofing membrane and the top side of the approved substrate at a rate of 60 ft²/gallon, finished surface area. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.
 OR

Sure-Weld FleeceBACK membrane adhered to the insulation with Flexible FAST, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive applied to the substrate in approximately 1/2 to 3/4-inch wide beads spaced 4-inches on center. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -135 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7I: Recover, Insulated
Deck Description: 2500 psi Structural Concrete or Min., 22-gauge Type B, Grade 80 Steel deck fastened to minimum ¼-inch steel structural supports spaced a maximum 6-feet on center with ITW Buildex Traxx/5 spaced at a maximum 6-inches on center. Deck side laps are secured with ITW Buildex Traxx/1 at a maximum 12 inches on center.
System Type C(8): Insulation mechanically fastened, membrane adhered.

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

<u>Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 2-inch thick	Approved Fastener for Deck Type	1:1 ft ²

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

Membrane: Sure-Weld FleeceBACK membrane adhered to the insulation with Flexible FAST, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive applied to the substrate at 1 gal./sq, full coverage. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -135 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 7I: Recover, Insulated
Deck Description: Minimum 22 gage Type B, ASTM A 653 Grade 33 Steel deck fastened to steel support at a maximum span of 6 feet o.c. Steel deck shall be fastened with minimum ITW #12 HWH Tek5 fasteners at a maximum spacing of 6 inches o.c. Side laps shall be fastened with ITW Buildex ITW HWH Tek5/1 at a maximum spacing of 24 inches o.c.
System Type D(1): Membrane mechanically attached over preliminarily fastened insulation.

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

<u>Base and/or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.2” thick	N/A	N/A
StormBase Minimum 1.4” thick	N/A	N/A
Dens Deck, DensDeck Prime SECUROCK Gypsum Fiber Roof Board or SECUROCK Glass Mat Roof Board Minimum ¼” thick	N/A	N/A
R-Tech, R-Tech Fan-Fold, SecurShield HD Minimum ½” thick	N/A	N/A

Note Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an 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. Single and multiple layers of insulation can be attached to the deck with Flexible FAST, Flexible FAST Dual Cartridge, Flexible FAST 5 Gallon Jug Adhesive or Flexible FAST Dual Tank, or Carlisle Olybond 500BA or Carlisle One-Step Adhesive.

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder applied to the roof deck or over a base layer of insulation.

Barrier: None.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA, Reinforced, secured through the preliminarily attached insulation as specified below.

Note: HP Purlin fastener must be used in place of HP-X Fasteners when securing into minimum 16 gauge structural purlins.



Fastening #1

6-foot wide Sure-Weld or Sure-Weld EXTRA membraned mechanically fastened 12-inches on center through the field seams using HPX fasteners and Piranha Plates.
Maximum Design Pressure -45 psf. (See General Limitation #7)

Fastening #2

8-foot wide Sure-Weld or Sure Weld EXTRA membrane mechanically fastened 12-inches on center through the field seams using HPX fasteners and Piranha Plates.
Maximum Design Pressure -45 psf. (See General Limitation #7)

Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced

Deck Type 7I: Recover, Insulated

Deck Description: Minimum 18 gage Type B, ASTM A 653 Grade 33 Steel deck fastened to steel support at a maximum span of 5 feet o.c. Steel deck shall be fastened with minimum ITW #12 HWH Teks/5 fasteners at a maximum spacing of 6 inches o.c. Side laps shall be fastened with ITW Buildex ITW HWH Teks/1 at a maximum spacing of 24 inches o.c.
 Or
 Minimum 18 gage Type B, ASTM A 653 Grade 80 Steel deck fastened to steel support at a maximum span of 6 feet o.c. Steel deck shall be fastened with minimum ITW #12 HWH Teks/5 fasteners at a maximum spacing of 6 inches o.c. Side laps shall be fastened with ITW Buildex ITW HWH Teks/1 at a maximum spacing of 24 inches o.c.

System Type D(2): Membrane mechanically attached over preliminarily fastened insulation.

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

<u>Base and/or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.2” thick	N/A	N/A
StormBase Minimum 1.4” thick	N/A	N/A
Dens Deck, DensDeck Prime SECUROCK Gypsum Fiber Roof Board or SECUROCK Glass Mat Roof Board Minimum ¼” thick	N/A	N/A
R-Tech, R-Tech Fan-Fold, SecurShield HD Minimum ½” thick	N/A	N/A

Note Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an 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. Single and multiple layers of insulation can be attached to the deck with Flexible FAST, Flexible FAST Dual Cartridge, Flexible FAST 5 Gallon Jug Adhesive or Flexible FAST Dual Tank, or Carlisle Olybond 500BA or Carlisle One-Step Adhesive.

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder applied to the roof deck or over a base layer of insulation.

Barrier: None.



Membrane: 10-foot wide Sure-Weld or Sure Weld EXTRA, secured through the preliminarily attached insulation membrane, mechanically fastened 12-inches on center through the field seams using HPX fasteners and Piranha Plates

Note: HP Purlin fastener must be used in place of HP-X Fasteners when securing into minimum 16 gauge structural purlins.

Maximum Design Pressure: -45 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced

Deck Type 7I: Recover, Insulated

Deck Description: 20 or 18 gage Type B, ASTM A 653 Grade 80 Steel deck fastened to steel support at a maximum span of 72-inches o.c. Steel deck shall be fastened with minimum ITW #12 HWH Teks/5 fasteners at a maximum spacing of 6 inches o.c. Side laps shall be fastened with ITW Buildex ITW HWH Teks/1 at a maximum spacing of 24 inches o.c.
 Or
 Minimum 22 gage Type B, ASTM A 653 Grade 33 Steel deck fastened to steel support at a maximum span of 66-inches o.c. Steel deck shall be fastened with minimum ITW #12 HWH Teks/5 fasteners at a maximum spacing of 6 inches o.c. Side laps shall be fastened with ITW Buildex ITW HWH Teks/1 at a maximum spacing of 24 inches o.c.

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

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

<u>Base and/or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.2” thick	N/A	N/A
StormBase Minimum 1.4” thick	N/A	N/A
Dens Deck, DensDeck Prime SECUROCK Gypsum Fiber Roof Board or SECUROCK Glass Mat Roof Board Minimum ¼” thick	N/A	N/A
R-Tech, R-Tech Fan-Fold, SecurShield HD Minimum ½” thick	N/A	N/A

Note Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an 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. Single and multiple layers of insulation can be attached to the deck with Flexible FAST, Flexible FAST Dual Cartridge, Flexible FAST 5 Gallon Jug Adhesive or Flexible FAST Dual Tank, or Carlisle Olybond 500BA or Carlisle One-Step Adhesive.

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder applied to the roof deck or over a base layer of insulation.

Barrier: None.



Membrane: 10-foot wide Sure-Weld or Sure Weld EXTRA membrane mechanically fastened 12-inches on center through the field seams using HPX fasteners and Piranha Plates.

Maximum Design Pressure: -45 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced

Deck Type 7I: Recover, Insulated

Deck Description: Minimum 20 to 18 gage Type B, ASTM A 653 Grade 80 Steel deck fastened to steel support at a maximum span of 6 feet o.c. Steel deck shall be fastened with minimum ITW #12 HWH TekS/5 fasteners at a maximum spacing of 6 inches o.c. Side laps shall be fastened with ITW Buildex ITW HWH TekS/1 at a maximum spacing of 24 inches o.c.
 Or
 Minimum 22 gage Type B, ASTM A 653 Grade 80 Steel deck fastened to steel support at a maximum span of 66 feet o.c. Steel deck shall be fastened with minimum ITW #12 HWH TekS/5 fasteners at a maximum spacing of 6 inches o.c. Side laps shall be fastened with ITW Buildex ITW HWH TekS/1 at a maximum spacing of 24 inches o.c.

System Type D(4): Membrane mechanically attached over preliminarily fastened insulation.

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

<u>Base and/or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.2" thick	N/A	N/A
StormBase Minimum 1.4" thick	N/A	N/A
Dens Deck, DensDeck Prime SECUROCK Gypsum Fiber Roof Board or SECUROCK Glass Mat Roof Board Minimum 1/4" thick	N/A	N/A
R-Tech, R-Tech Fan-Fold, SecurShield HD Minimum 1/2" thick	N/A	N/A

Note Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an 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. Single and multiple layers of insulation can be attached to the deck with Flexible FAST, Flexible FAST Dual Cartridge, Flexible FAST 5 Gallon Jug Adhesive or Flexible FAST Dual Tank, or Carlisle Olybond 500BA or Carlisle One-Step Adhesive.

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder applied to the roof deck or over a base layer of insulation.

Barrier: None.



Membrane: 10-foot wide Sure-Weld or Sure Weld EXTRA membrane mechanically fastened 12-inches on center through the field seams using HP-Xtra fasteners and Piranha Xtra Plates.

Maximum Design Pressure: -52.5 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 7I: Recover, Insulated
Deck Description: Minimum 22 gage Type B, ASTM A 653 Grade 33 Steel deck fastened to steel support at a maximum span of 6 feet o.c. Steel deck shall be fastened with minimum ITW #12 HWH TekS/5 fasteners at a maximum spacing of 6 inches o.c. Side laps shall be fastened with ITW Buildex ITW HWH TekS/1 at a maximum spacing of 30 inches o.c.
System Type D(5): Membrane mechanically attached over preliminarily fastened insulation.

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

<u>Base and/or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.2” thick	N/A	N/A
StormBase Minimum 1.4” thick	N/A	N/A
Dens Deck, DensDeck Prime SECUROCK Gypsum Fiber Roof Board or SECUROCK Glass Mat Roof Board Minimum ¼” thick	N/A	N/A
R-Tech, R-Tech Fan-Fold, SecurShield HD Minimum ½” thick	N/A	N/A

Note Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an 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. Single and multiple layers of insulation can be attached to the deck with Flexible FAST, Flexible FAST Dual Cartridge, Flexible FAST 5 Gallon Jug Adhesive or Flexible FAST Dual Tank, or Carlisle Olybond 500BA or Carlisle One-Step Adhesive.

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder applied to the roof deck or over a base layer of insulation.

Barrier: None.

Membrane: 12-foot wide Sure-Weld or Sure-Weld EXTRA membrane mechanically fastened 6-inches on center through the field seams using HPX Fasteners and Piranha Plates.

Maximum Design Pressure: -52.5 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 7I: Recover, Insulated
Deck Description: Minimum 22 gage Type B, ASTM A 653 Grade 80 Steel deck fastened to steel support at a maximum span of 6 feet o.c. Steel deck shall be fastened with minimum ITW #12 HWH Teks/5 fasteners at a maximum spacing of 6 inches o.c. Side laps shall be fastened with ITW Buildex ITW HWH Teks/1 at a maximum spacing of 30 inches o.c.
System Type D(6): Membrane mechanically attached over preliminarily fastened insulation.

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

<u>Base and/or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.2” thick	N/A	N/A
StormBase Minimum 1.4” thick	N/A	N/A
Dens Deck, DensDeck Prime SECUROCK Gypsum Fiber Roof Board or SECUROCK Glass Mat Roof Board Minimum ¼” thick	N/A	N/A
R-Tech, R-Tech Fan-Fold, SecurShield HD Minimum ½” thick	N/A	N/A

Note Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an 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. Single and multiple layers of insulation can be attached to the deck with Flexible FAST, Flexible FAST Dual Cartridge, Flexible FAST 5 Gallon Jug Adhesive or Flexible FAST Dual Tank, or Carlisle Olybond 500BA or Carlisle One-Step Adhesive.

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder applied to the roof deck or over a base layer of insulation.
Barrier: None.
Membrane: 12-foot wide Sure-Weld or Sure-Weld EXTRA membrane mechanically fastened 6-inches on center through the field seams using HPX Fasteners and Piranha Plates.
Maximum Design Pressure: -60 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 7I: Recover, Insulated
Deck Description: Minimum 22 gage Type B, ASTM A 653 Grade 33 Steel deck fastened to steel support at a maximum span of 6 feet o.c. Steel deck shall be fastened with minimum ITW #12 HWH Teks/5 fasteners at a maximum spacing of 6 inches o.c. Side laps shall be fastened with ITW Buildex ITW HWH Teks/1 at a maximum spacing of 30 inches o.c.
System Type D(7): Membrane mechanically attached over preliminarily fastened insulation.

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

<u>Base and/or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.2” thick	N/A	N/A
StormBase Minimum 1.4” thick	N/A	N/A
Dens Deck, DensDeck Prime SECUROCK Gypsum Fiber Roof Board or SECUROCK Glass Mat Roof Board Minimum ¼” thick	N/A	N/A
R-Tech, R-Tech Fan-Fold, SecurShield HD Minimum ½” thick	N/A	N/A

Note Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an 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. Single and multiple layers of insulation can be attached to the deck with Flexible FAST, Flexible FAST Dual Cartridge, Flexible FAST 5 Gallon Jug Adhesive or Flexible FAST Dual Tank, or Carlisle Olybond 500BA or Carlisle One-Step Adhesive.

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder applied to the roof deck or over a base layer of insulation.
Barrier: None.
Membrane: 4-foot wide Sure-Weld or Sure-Weld EXTRA membrane mechanically fastened 6-inches on center through the field seams using HPX Fasteners and Piranha Plates.
Maximum Design Pressure: -82.5 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced FleeceBack

Deck Type 7: Recover

Deck Description: Minimum 22 gage Type B, ASTM A 611 Grade E or ASTM A 653 Grade 80 Steel deck fastened to steel support at a maximum span of 6 feet o.c. Steel deck shall be fastened with minimum ITW Buildex Traxx/4 at a maximum spacing of 6 inches o.c. Side laps shall be fastened with ITW Buildex Traxx/1 at a maximum spacing of 12 inches o.c.

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

System Type D(8): Membrane mechanically attached existing Roof assembly.

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

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder applied to the roof deck or over a base layer of insulation.

Barrier: None.

Membrane: 135-mil Sure-Weld FleeceBACK mechanically fastened to the deck using HP-Xtra Fasteners and Piranha Xtra Plates spaced 12-inches on center. Fastener rows are spaced a maximum 91-inches on center.

Maximum Design Pressure: -60 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced FleeceBack
Deck Type 7: Recover
Deck Description: 2500 psi Structural Concrete
System Type D(9): Membrane mechanically attached existing Roof assembly.

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

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder applied to the roof deck or over a base layer of insulation.

Barrier: None.

Membrane: 135-mil Sure-Weld FleeceBACK mechanically fastened to the deck using HD 14-10 or CD-10 Fasteners and Piranha Xtra Plates spaced 12-inches on center. Fastener rows are spaced a maximum 91-inches on center.

Maximum Design Pressure: -60 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 7I: Recover, Insulated
Deck Description: 2500 psi structural concrete.
System Type D(10): Membrane mechanically attached over preliminarily fastened insulation.

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

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.2” thick	N/A	N/A
StormBase Minimum 1.4” thick	N/A	N/A
Dens Deck, SECUROCK Gypsum Fiber Roof Board or SECUROCK Glass Mat Roof Board Minimum ¼” thick	N/A	N/A
R-Tech, R-Tech Fan-Fold, SecurShield HD Minimum ½” thick	N/A	N/A

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an 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. Single and multiple layers of insulation can be attached to the deck with Flexible FAST, Flexible FAST Dual Cartridge, Flexible FAST 5-Gallon Jug Adhesive, Flexible FAST Dual Tank Adhesive, or Carlisle Olybond 500BA, or Carlisle One-Step Foamable Adhesive.

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder applied to the roof deck or over a base layer of insulation.

Barrier: None.



- Membrane:** Sure-Weld, Sure-Weld HS, Sure-Weld EXTRA, Reinforced, secured through the preliminarily attached insulation as specified below.
- Fastening #1:** HD 14-10, or CD-10 Fasteners with Piranha Plates 6" o.c. through the Sure-Weld or Sure-Weld EXTRA Membrane in the lap in rows spaced 7'-7" o.c.
Maximum Design Pressure -67.5 psf. (See General Limitation #7)
- Fastening #2:** HD 14-10, or CD-10 Fasteners with Piranha Plates 6" o.c. through the Sure-Weld or Sure-Weld EXTRA Membrane in the lap or through a Sure-Weld Pressure Sensitive RUSS Strip in rows spaced 9'-7" o.c.
Maximum Design Pressure -60 psf (See General Limitation #7)
- Fastening #3:** HD 14-10, or CD-10 Fasteners with Piranha Plates 9" o.c. through the Sure-Weld or Sure-Weld EXTRA Membrane in the lap or through a Sure-Weld Pressure Sensitive RUSS Strip in rows spaced 9'-6" o.c.
Maximum Design Pressure -52.5 psf. (See General Limitation #7)
- Fastening #4:** HD 14-10, or CD-10 Fasteners with Piranha Plates 6" o.c. through the Sure-Weld HS Membrane in the lap or through a Sure-Weld Pressure Sensitive RUSS Strip in rows spaced 9'-7" o.c.
Maximum Design Pressure -52.5 psf. (See General Limitation #7)
- Fastening #5:** HD 14-10, or CD-10 Fasteners with Piranha Plates 9" o.c. through the Sure-Weld HS Membrane in the lap or through a Sure-Weld Pressure Sensitive RUSS Strip in rows spaced 9'-7" o.c.
Maximum Design Pressure -45 psf. (See General Limitation #7)
- Fastening #6:** HD 14-10, or CD-10 Fasteners with Piranha Plates 12" o.c. through the Sure-Weld or Sure-Weld EXTRA Membrane in the lap or through a Sure-Weld Pressure Sensitive RUSS Strip in rows spaced 9'-7" o.c.
Maximum Design Pressure -45 psf. (See General Limitation #7)
- Fastening #7:** HD 14-10, or CD-10 Fasteners with Piranha Plates 6" o.c. through the Sure-Weld HS Membrane in the lap or through a Sure-Weld Pressure Sensitive RUSS Strip in rows spaced 7'-7" o.c.
Maximum Design Pressure -60 psf. (See General Limitation #7)
- Fastening #8:** HD 14-10, or CD-10 Fasteners with Piranha Plates 6" o.c. through the Sure-Weld or Sure-Weld EXTRA Membrane in the lap or through a Sure-Weld Pressure Sensitive RUSS Strip in rows spaced 11'-7" o.c.
Maximum Design Pressure -60 psf. (See General Limitation #7)
- Maximum Design Pressure:** See Fastening Options Above



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7I: Recover, Insulated
Deck Description: Minimum 22 gage Type B, ASTM A 653 Grade 33 Steel deck fastened to steel support at a maximum span of 6 feet o.c. Steel deck shall be fastened with minimum ITW Buildex Traxx/4 at a maximum spacing of 6 inches o.c. Side laps shall be fastened with ITW Buildex Traxx/1 at a maximum spacing of 30 inches o.c.
System Type D(11): Membrane induction welded over mechanically fastened insulation.

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

<u>Base and/or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.5-inch thick	HPX Fasteners and RhinoBond Plates-TPO	See Below
SecurShield HD or H-Shield HD Minimum ½-inch thick	HPX Fasteners and RhinoBond Plates-TPO	See Below
SECUROCK Gypsum Fiber or Glass Mat Roof Board Minimum ¼-inch thick	HPX Fasteners and RhinoBond Plates-TPO	See Below
Dens Deck, Dens Deck Prime Minimum ¼-inch thick	HPX Fasteners and RhinoBond Plates-TPO	See Below

Note: All layers of insulation shall be simultaneously attached. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Fastening #1: Sure-Weld or Sure-Weld EXTRA membrane induction welded to RhinoBond Plates-TPO using RhinoBond induction tool. Attached at the minimum rate of 1:5.33 ft² (6 per 4 ft by 8 ft board). *Maximum Design Pressure -MDP-45 psf. (See General Limitation #7)*

Fastening #2: Sure-Weld or Sure-Weld EXTRA membrane induction welded to RhinoBond Plates-TPO using RhinoBond induction tool. Attached at the minimum rate of 1:4 ft² (8 per 4 ft by 8 ft board). *Maximum Design Pressure -MDP-52.5 psf. (See General Limitation #7)*

Fastening #3: Sure-Weld or Sure-Weld EXTRA membrane induction welded to RhinoBond Plates-TPO using RhinoBond induction tool. Attached at the minimum rate of 1:2 ft² (16 per 4 ft by 8 ft board). *Maximum Design Pressure -MDP-82.5 psf. (See General Limitation #7)*



Membrane Type	Single Ply, Thermoplastic, TPO
Deck Type	Recover Insulated
Deck Description	Minimum 22 gage Type B, ASTM A 611 Grade E or ASTM A 653 Grade 80 Steel deck fastened to steel support at a maximum span of 6 feet o.c. Steel deck shall be fastened with minimum ITW Buildex Traxx/4 at a maximum spacing of 6 inches o.c. Side laps shall be fastened with ITW Buildex Traxx/1 at a maximum spacing of 12 inches o.c.
System Type D(12):	Sure-Weld, Sure-Weld EXTRA Membrane induction welded over fastened insulation

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

<u>Base and/or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.5-inch thick	HPX Fasteners and RhinoBond Plates-TPO	See Below
SecurShield HD or H-Shield HD Minimum ½-inch thick	HPX Fasteners and RhinoBond Plates-TPO	See Below
SECUROCK Gypsum Fiber or Glass Mat Roof Board Minimum ¼-inch thick	HPX Fasteners and RhinoBond Plates-TPO	See Below
Dens Deck, Dens Deck Prime Minimum ¼-inch thick		

Note: All layers of insulation shall be simultaneously attached. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Fastening #1:	Sure-Weld or Sure-Weld EXTRA membrane induction welded to RhinoBond Plates-TPO using RhinoBond induction tool. Attached at the minimum rate of 1:4 ft ² (8 per 4 ft by 8 ft board). <i>Maximum Design Pressure MDP-60 psf. (See General Limitation #7)</i>
Fastening #2	Sure-Weld or Sure-Weld EXTRA membrane induction welded to RhinoBond Plates-TPO using RhinoBond induction tool. Attached at the minimum rate of 1:2 ft ² (16 per 4 ft by 8 ft board). <i>Maximum Design Pressure MDP -97.5 psf. (See General Limitation #7)</i>



Membrane Type:	Single Ply, Thermoplastic, TPO
Deck Type 7I:	Recover, Insulated
Deck Description:	Minimum 22 gage Type B, ASTM A 611 Grade E or ASTM A 653 Grade 80 Steel deck fastened to steel support at a maximum span of 6 feet o.c. Steel deck shall be fastened with minimum #12 ITW Buildex Traxx/4 at a maximum spacing of 6 inches o.c. Side laps shall be fastened with #10 ITW Buildex Traxx/1 at a maximum spacing of 12 inches o.c.
System Type D(13):	Sure-Weld, Sure-Weld EXTRA Membrane induction welded over mechanically fastened insulation.

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

<u>Base and/or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.5-inch thick	N/A	N/A
SecurShield HD or H-Shield HD Minimum ½-inch thick	N/A	N/A
SECUROCK Gypsum Fiber or Glass Mat Roof Board Minimum ¼-inch thick	N/A	N/A
Dens Deck, Dens Deck Prime Minimum ¼-inch 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.

Membrane: RhinoBond Plate and HPX Fasteners are installed 12-inches on center, in rows spaced maximum 5-feet on center. Minimum 60-mil Sure-Weld or Sure-Weld EXTRA membrane induction welded to RhinoBond Plates-TPO using RhinoBond induction tool.

Maximum Design Pressure: -45 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO

Deck Type 7I: Recover, Insulated

Deck Description: 20 to 18 gage Type B, ASTM A 653 Grade 80 Steel deck Supported 72-inches on Center
Or
22 to 18 gage Type B ASTM A 653 Grade 80 Steel deck Supported 54-inches on Center

Steel deck shall be fastened with minimum #12 ITW Buildex Traxx/4 at a maximum spacing of 6 inches o.c. Side laps shall be fastened with #10 ITW Buildex Traxx/1 at a maximum spacing of 12 inches o.c.

System Type D(14): Sure-Weld, Sure-Weld EXTRA Membrane induction welded over mechanically fastened insulation.

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

<u>Base and/or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.5-inch thick	N/A	N/A
SecurShield HD or H-Shield HD Minimum ½-inch thick	N/A	N/A
SECUROCK Gypsum Fiber or Glass Mat Roof Board Minimum ¼-inch thick	N/A	N/A
Dens Deck, Dens Deck Prime Minimum ¼-inch 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.

Membrane: RhinoBond Plate and HPX Fasteners are installed 6-inches on center, in rows spaced maximum 10-feet on center. Minimum 60-mil Sure-Weld or Sure-Weld EXTRA membrane induction welded to RhinoBond Plates-TPO using RhinoBond induction tool.

Maximum Design Pressure: -52.5 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7I: Recover, Insulated
Deck Description: 20 to 18 gage Type B, ASTM A 653 Grade 80 Steel deck Supported 72-inches on Center
 Steel deck shall be fastened with minimum #12 ITW Buildex Traxx/4 at a maximum spacing of 6 inches o.c. Side laps shall be fastened with #10 ITW Buildex Traxx/1 at a maximum spacing of 12 inches o.c.
System Type D(15): Sure-Weld, Sure-Weld EXTRA Membrane induction welded over mechanically fastened insulation.

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

<u>Base and/or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.5-inch thick	N/A	N/A
SecurShield HD or H-Shield HD Minimum 1/2-inch thick	N/A	N/A
SECUROCK Gypsum Fiber or Glass Mat Roof Board Minimum 1/4-inch thick	N/A	N/A
Dens Deck, Dens Deck Prime Minimum 1/4-inch 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.

Membrane: RhinoBond Plate and HPX Fasteners are installed 6-inches on center, in rows spaced maximum 5-feet on center. Minimum 60-mil Sure-Weld or Sure-Weld EXTRA membrane induction welded to RhinoBond Plates-TPO using RhinoBond induction tool.

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



Membrane Type	Single Ply, Thermoplastic, TPO
Deck Type	Recover Insulated
Deck Description	Existing Standing/Lap Seam Roof System over structural purlins, minimum 16 ga., (0.0598 in., 1.5mm) to maximum 3/16 in. (4.8mm).
System Type D(16):	Membrane mechanically attached over preliminarily fastened insulation.

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

<u>Base and/or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.2-inch thick	N/A	N/A
<u>Top Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SecurShield HD or H-Shield HD Minimum ½-inch thick	N/A	N/A
SECUROCK Gypsum Fiber or Glass Mat Roof Board Minimum ¼-inch thick	N/A	N/A
Dens Deck, Dens Deck Prime Minimum ¼-inch thick	N/A	N/A

Note: Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an 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:	Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA, Reinforced, secured through the preliminarily attached insulation as specified below
Fastening #1:	6-foot wide Sure-Weld or Sure-Weld EXTRA membrane mechanically fastened 12-inches on center through the field seams into the structural purlins using HP Purlin or HP RetroDriller Fasteners and Piranha Plates. <i>Maximum Design Pressure -45 psf. (See General Limitation #7)</i>
Fastening #2:	8-foot wide Sure-Weld or Sure-Weld EXTRA membrane mechanically fastened 12-inches on center through the field seams into the structural purlins using HP Purlin or HP RetroDriller Fasteners and Piranha Plates. <i>Maximum Design Pressure-45 psf. (See General Limitation #7)</i>



- Fastening #3:** 10-foot wide Sure-Weld or Sure-Weld EXTRA membrane mechanically fastened 6-inches on center through the field seams into the structural purlins using HP Purlin or HP RetroDriller Fasteners and Piranha Plates.
Maximum Design Pressure-45 psf. (See General Limitation #7)
- Fastening #4:** 10-foot wide Sure-Weld or Sure-Weld EXTRA membrane mechanically fastened 12-inches on center through the field seams into the structural purlins using HP Purlin or HP RetroDriller Fasteners and Piranha Plates.
Maximum Design Pressure -45 psf. (See General Limitation #7)
- Fastening #5:** 4-foot wide Sure-Weld or Sure-Weld EXTRA membrane mechanically fastened 12-inches on center through the field seams into the structural purlins using HP Purlin or HP RetroDriller Fasteners and Piranha Plates.
Maximum Design Pressure-52.5 psf. (See General Limitation #7)
- Fastening #6:** 8-foot wide Sure-Weld or Sure-Weld EXTRA membrane mechanically fastened 6-inches on center through the field seams into the structural purlins using HP Purlin or HP RetroDriller Fasteners and Piranha Plates.
Maximum Design Pressure -52.5 psf. (See General Limitation #7)
- Fastening #7:** 12-foot wide Sure-Weld or Sure-Weld EXTRA membrane mechanically fastened 6-inches on center through the field seams into the structural purlins using HP Purlin or HP RetroDriller Fasteners and Piranha Plates.
Maximum Design Pressure -52.5 psf. (See General Limitation #7)
- Fastening #8:** 8-foot wide Sure-Weld HS or Sure-Weld HS EXTRA membrane mechanically fastened 6-inches on center through the field seams into the structural purlins using HP Purlin or HP RetroDriller Fasteners and Piranha Plates.
Maximum Design Pressure -60 psf. (See General Limitation #7)
- Fastening #9:** 10-foot wide Sure-Weld or Sure-Weld EXTRA membrane mechanically fastened 6-inches on center through the field seams into the structural purlins using HP Purlin or HP RetroDriller Fasteners and Piranha Plates.
Maximum Design Pressure -60 psf. (See General Limitation #7)
- Fastening #10:** 10-inch wide Sure-Weld Pressure Sensitive RUSS spaced maximum 10-feet on center and secured with HP Purlin or HP RetroDriller Fasteners and Piranha Plates, spaced 6-inches on center.
Maximum Design Pressure-60 psf. (See General Limitation #7)
- Fastening #11:** 10-inch wide Sure-Weld Pressure Sensitive RUSS spaced maximum 5-feet on center and secured with HP Purlin or HP RetroDriller Fasteners and Piranha Plates spaced 12-inches on center.
Maximum Design Pressure -60 psf. (See General Limitation #7)
- Fastening #12:** Membrane Assembly 12-foot wide Sure-Weld or Sure-Weld EXTRA membrane mechanically fastened 6-inches on center through the field seams HP Purlin or HP RetroDriller Fasteners and Piranha Plates.
Maximum Design Pressure -60 psf. (See General Limitation #7)



Fastening #13: 8-foot wide Sure-Weld or Sure-Weld EXTRA membrane mechanically fastened 6-inches on center through the field seams HP Purlin or HP RetroDriller Fasteners and Piranha Plates.
Maximum Design Pressure -67.5 psf. (See General Limitation #7)

Fastening #14: 4-foot wide Sure-Weld or Sure-Weld EXTRA membrane mechanically fastened 6-inches on center through the field seams HP Purlin or HP RetroDriller Fasteners and Piranha Plates.
Maximum Design Pressure -82.5 psf. (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7I: Recover, Insulated
Deck Description: Minimum 22 ga., Type B, Grade 40 steel deck attached to structural steel supports, spaced maximum 72-inches on center, with 5/8-inch diameter puddle welds spaced 6-inches on center. Side laps shall be fastened with attached with Tek/1 screws spaced 12-inch o.c.
System Type D(17): Membrane induction welded over mechanically fastened insulation.

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

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.5-inch thick	2 and 8	1:4 ft ²
<u>Top Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SecurShield HD or H-Shield HD Minimum ½-inch thick	2 and 8	1:4 ft ²
SECUROCK Gypsum Fiber or Glass Mat Roof Board Minimum ¼-inch thick	2 and 8	1:4 ft ²
Dens Deck, Dens Deck Prime Minimum ¼-inch thick	2 and 8	1:4 ft ²

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. At an 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.

Thermal Barrier: (Optional) Thermal barrier of any approved type or thickness, loose-laid, adhered or mechanically attached.

Membrane Assembly: Minimum 60-mil Sure-Weld, or Sure-Weld EXTRA membrane induction welded to RhinoBond Plates-TPO using RhinoBond induction tool.

Membrane Splices: Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld along the outside edge.

Maximum Design Pressure: -52.5 psf. (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7I: Recover, Insulated
Deck Description: Minimum 22 ga., Type B, Grade 80 steel deck attached to structural steel supports, spaced maximum 72-inches on center, with 5/8-inch diameter puddle welds spaced 6-inches on center. Side laps shall be fastened with attached with Tek/1 screws spaced 12-inch o.c.
System Type D(18): Membrane mechanically attached over preliminarily fastened insulation.

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

Base and/or Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.5-inch thick	N/A	N/A
SecurShield HD or H-Shield HD Minimum ½-inch thick	N/A	N/A
SECUROCK Gypsum Fiber or Glass Mat Roof Board Minimum ¼-inch thick	N/A	N/A
Dens Deck, Dens Deck Prime Minimum ¼-inch 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. At an 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.

Thermal Barrier: (Optional) Thermal barrier of any approved type or thickness, loose-laid, adhered or mechanically attached.

Membrane: Minimum 60-mil Sure-Weld or Sure-Weld EXTRA membrane secured through the preliminarily attached insulation as specified below.

Membrane Fastening: 10-foot wide Sure-Weld, or Sure-Weld EXTRA membrane mechanically fastened 6-inches on center through the field seams using HPX Fasteners and Piranha Plates.

Membrane Splices: Overlap membrane splices a minimum of 5-1/2 inches to provide for a minimum 1-1/2 inch heat weld along the outside edge.

Maximum Design Pressure: -52.5 psf. (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7: Recover
Deck Description: Cementitious Wood Fiber (Tectum)
System Type F(1): Membrane adhered to existing modified bitumen.

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

Membrane: Sure-Weld FleeceBACK membrane adhered to the substrate with Flexible FAST, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive applied to the substrate in approximately 1/2 to 3/4-inch wide beads spaced 12-inches on center. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -325 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, FleeceBACK
Deck Type 7: Recover
Deck Description: 2500 psi Structural Concrete
System Type F(2): Membrane adhered to existing modified bitumen.

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

Membrane: Sure-Weld FleeceBACK membrane adhered to the substrate with, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive applied to the substrate in approximately 1/2 to 3/4-inch wide beads spaced 12-inches on center. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -410 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO FleecBACK
Deck Type 7: Recover
Deck Description: Gypsum
System Type F(3): Membrane adhered to existing modified bitumen.

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

Membrane: Sure-Weld FleeceBACK membrane adhered to the substrate with Flexible FAST, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive applied to the substrate in approximately 1/2 to 3/4-inch wide beads spaced 12-inches on center. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -400 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, FleeceBACK
Deck Type 7: Recover
Deck Description: Steel
System Type F(4): Membrane adhered to existing modified bitumen.

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

Membrane: Sure-Weld FleeceBACK membrane adhered to the substrate with Flexible FAST, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive applied to the substrate in approximately 1/2 to 3/4-inch wide beads spaced 12-inches on center. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -350 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO Reinforced, FleeceBACK

Deck Type 7: Recover

Deck Description: Concrete/Steel

System Type F(5): Membrane adhered direct to existing asphaltic BUR.

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

Membrane #1: Sure-Weld AFX membrane adhered to the existing asphaltic roof cover with hot asphalt applied at a rate of 20 to 25 lbs/sq. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -367.5 psf (See General Limitation #9)

Membrane #2: Sure-Weld FleeceBACK membrane adhered to the existing asphaltic roof cover with, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive. The adhesive is applied to the substrate in approximately 1/2 to 3/4-inch wide beads spaced 6-inches on center or at 1 gal./sq, full coverage. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld.

Maximum Design Pressure: -75 psf (See General Limitation #9)

Maximum Design Pressure: See Fastening Options Above



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7: Recover
Deck Description: Steel
System Type F(6): Membrane adhered direct to existing Single-Ply EPDM.

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

Membrane: Sure-Weld FleeceBACK membrane adhered to the existing EPDM roof cover with Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive. The adhesive is applied to the substrate in approximately 1/2 to 3/4-inch wide beads spaced 6-inches on center or at 1 gal./sq, full coverage. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld

Maximum Design Pressure: -75 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7: Recover
Deck Description: 2500 psi Structural Concrete
System Type F(7): Membrane adhered direct to existing Single-Ply EPDM.

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

Membrane: Sure-Weld FleeceBACK membrane adhered to the existing EPDM roof cover with Flexible FAST, Flexible FAST Dual Cartridge or Flexible FAST 5-Gallon Jug Adhesive. The adhesive is applied to the substrate in approximately 1/2 to 3/4-inch wide beads spaced 6-inches on center or at 1 gal./sq, full coverage. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld

Maximum Design Pressure: -315 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, Reinforced, FleeceBACK
Deck Type 7: Recover, Non-Insulated
Deck Description: 2500 psi structural concrete
System Type F(8): Membrane fully adhered with Flexible FAST Adhesive, Asphalt or SureMB MC Adhesive.

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

Vapor Retarder: None.

Barrier: None.

Membrane: Sure-Weld AFX membrane fully adhered to the insulation with SureMB MC Adhesive applied to the substrate at a rate of 1 gal./67ft². Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -60 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7I: Recover
Deck Description: 2500 psi structural concrete
System Type F(9): Membrane adhered to Elastizell Range II or Celcore Cellular lightweight insulating concrete.

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

Membrane: Sure-Weld, Sure-Weld EXTRA or Sure-Weld HS membrane adhered to the Elastizell LWIC using Sure-Weld Bonding Adhesive or Low VOC Bonding Adhesive. The adhesive is applied in a contact application and is applied to both the underside of the roofing membrane and the top side of the approved substrate at a rate of 60 ft²/gallon, finished surface area. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld. **Maximum Design Pressure: -90 psf (See General Limitation #9)**

OR

Sure-Weld, Sure-Weld EXTRA or Sure-Weld HS membrane adhered to the Celcore LWIC using Sure-Weld Bonding Adhesive or Low VOC Bonding Adhesive. The adhesive is applied in a contact application and is applied to both the underside of the roofing membrane and the top side of the approved substrate at a rate of 60 ft²/gallon, finished surface area. Overlap membrane splices a minimum of 2 inches to provide for a minimum 1-1/2 inch heat weld. **Maximum Design Pressure: -135 psf (See General Limitation #9)**

Maximum Design Pressure: See Fastening Options Above



RECOVER SYSTEM LIMITATIONS:

- 1 All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.
2. The membrane can be identified using the identification code printed outside the splice overlap area (visible every 50') or within the splice area. The code begins with either 9 or 91 to designate the plant. The next three letters designate the material and color. The next six numbers designate the date of manufacture (year/month/day). The next letter designates the shift and the last number designates the machine. In addition to this identification code, the letters "CCM" are also printed within the splice overlap area.



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.
- A black oval seal with the text "MIAMI-DADE COUNTY" in white above "APPROVED" in white.
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



NOA No: 24-1210.07
Expiration Date: 08/31/29
Approval Date: 03/26/26
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