



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

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
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**NOTICE OF ACCEPTANCE (NOA)**

**Carlisle SynTec, a division of Carlisle Construction Materials Inc.**  
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 renews NOA# 14-0626.06 and consists of pages 1 through 26.  
The submitted documentation was reviewed by Alex Tigera.



NOA No: 18-0108.21  
Expiration Date: 08/31/23  
Approval Date: 08/16/18  
Page 1 of 26

## ROOFING SYSTEM APPROVAL

<b>Category:</b>	Roofing
<b>Sub-Category:</b>	Single Ply
<b>Material:</b>	TPO
<b>Deck Type:</b>	Recover
<b>Maximum Design Pressure:</b>	See Specific Assemblies herein.
<b>Fire Classification:</b>	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 FleeceBACK	various	TAS 131	Reinforced white or colored TPO membrane with fleece backing.
Sure-Weld AFX	Various	TAS 131	Reinforced white or colored TPO membrane with fleece backing.
Sure-Weld	various	TAS 131	Reinforced white or colored TPO membrane.
Sure-Weld EXTRA	various	TAS 131	Reinforced white or colored TPO membrane.
Sure-Weld HS	various	TAS 131	Reinforced white or colored FR TPO membrane.
Sure-Weld Pressure-Sensitive RUSS	Various	TAS 131	Reinforced Securement Strip
Carlisle FAST 100 Adhesive	various	TAS 110	Spray Polyurethane Adhesive
Carlisle Olybond 500BA	Various	TAS 110	Polyurethane Adhesive
Carlisle One-Step Adhesive	Various	TAS 110	Polyurethane Adhesive
Sure-Weld Bonding Adhesive	various	TAS 110	Solvent-based bonding adhesive.
Aqua Base 120 Bonding Adhesive	Various	TAS 110	Water-based bonding adhesive
Cold Applied Adhesive	Various	TAS 110	Asphalt-Modified Polyether Adhesive
Low VOC Bonding Adhesive	Various	TAS 110	Solvent-based bonding adhesive



**APPROVED INSULATIONS:**

**TABLE 2**

<u><b>Product Name</b></u>	<u><b>Product Description</b></u>	<u><b>Manufacturer (With Current NOA)</b></u>
Polyisocyanurate HP-NB, HP-H SecurShield HD Dens Deck	Polyisocyanurate roof insulation. High Density polyisocyanurate roof insulation Silicon treated gypsum	Carlisle Syntec, Inc. Carlisle Syntec, Inc. Georgia-Pacific Gypsum, LLC.
H-Shield, H-Shield NB Insulfoam SP SECUROCK Gypsum Fiber Roof Board	Isocyanurate Insulation Expanded Polystyrene Gypsum Based board stock	Hunter Panels Insulfoam, LLC US Gypsum Corporation
R-Tech, R-Tech Fan Fold	Expanded Polystyrene	Insulfoam, 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.	Sure-Seal HP, HPX, HP-XTRA Fasteners, HP Purlin	Insulation and membrane fastener	Various	Carlisle Syntec, Inc.
2.	Piranha, Piranha Xtra Plates	Metal plates used for membrane securement with Sure-Seal fasteners.	2-3/8" dia	Carlisle Syntec, Inc.
3.	#12 Standard Roofgrip	Insulation and membrane fastener	Various	OMG, Inc.
4.	#14 Roofgrip	Insulation and membrane fastener	Various	OMG, Inc.
5.	#14 Standard Stainless	Stainless steel insulation and membrane fastener	Various	OMG, Inc.
6.	Lite-Deck Fastener	Insulation fastener for cementitious and gypsum decks	various	OMG, Inc.
7.	Lite-Deck Plate	3" round Galvalume AZ55 stress plate	3" round	OMG, Inc.
8.	Olympic Standard	Galvalume AZ55 stress plate	3" round	OMG, Inc.
9.	Olympic Plastic	Plastic plates for fasteners.	3" round	OMG, Inc.
10.	HD-14-10	Insulation/membrane fastener for concrete decks.	Various	Carlisle Syntec, Inc.
11.	CD-10	Insulation/membrane fastener for concrete decks.	Various	Carlisle Syntec, Inc.
12.	Insulation Fastening Plate	Metal plates used for insulation securement with approved fasteners.	3" diameter	Carlisle Syntec, Inc.
13.	Trufast #14 HD Fasteners	Insulation and membrane fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
14.	Trufast #15 EHD Fasteners	Insulation and membrane fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
15.	Trufast #15 EHD Fasteners	Insulation and membrane fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
16.	Trufast 3" Metal Insulation Plate	Insulation Fastening Plate	3" diameter	Altenloh, Brinck & Co. U.S., Inc.
17.	Trufast 2.4" Barbed Metal Seam Plate (14 Barb)	Membrane Fastening Plate	2.4" diameter	Altenloh, Brinck & Co. U.S., 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	Wind Uplift and Fire Classification	5/00	
	Excerpt	Listings		
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	

**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  
**Deck Description:** 2500 psi structural concrete.  
**System Type A(1):** One or more layers of insulation adhered with Carlisle FAST 100 Adhesive. Membrane fully adhered.

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

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Polyisocyanurate HP-H, HP-NB Minimum 1” thick	N/A	N/A
<u>Top Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Dens Deck Prime, or SECUROCK Minimum ½” thick	N/A	N/A

**Note: All insulation shall be fully adhered to the existing roof with Carlisle FAST 100 Adhesive at a rate of 1 gal./sq.**

**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:** Sure-Weld FleeceBACK 100 or 115 membrane fully adhered to the insulation using Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/120ft<sup>2</sup>. Outside 1.5” of side laps are heat welded.

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



**Membrane Type:** Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK  
**Deck Type 7I:** Recover  
**Deck Description:** 2500 psi structural concrete.  
**System Type A(2):** One or more layers of insulation adhered with approved asphalt, Carlisle Olybond 500 BA, Carlisle One-Step, or with Carlisle FAST 100 Adhesive. Membrane fully adhered.

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

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
<b>One of the following covered with the boards listed Base or Top Layer.</b>		
<b>Dens Deck, Dens Deck Prime, SECUROCK Minimum ¼” thick</b>	N/A	N/A
<u>Base or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
<b>One or more layers of the following as a Base or Top Layer or over the Base Layer listed above:</b>		
<b>Polyisocyanurate HP-H or HP-NB Minimum 1.2” thick</b>	N/A	N/A
<b>Structodeck Minimum ½” thick</b>	N/A	N/A

**Note: Existing roof shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base or top layer when using asphalt for insulation attachment only. All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down. Insulation can be adhered to the existing roof with Carlisle FAST 100 Adhesive, Carlisle Olybond 500 BA, Carlisle One-Step Adhesive.**

**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:** Sure-Weld AFX membrane fully adhered to the insulation in a full mopping of approved asphalt within the EVT range and at a rate of 20-25lbs./sq, applied to the substrate at a rate of 1 gal./67ft<sup>2</sup>. Outside 1.5” of side laps are heat welded.

**Maximum Design Pressure:** -120 psf with Olybond 500BA or One Step A(See General Limitation #9)





**Membrane Type:** Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK  
**Deck Type 7I:** Recover  
**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 (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
<b>Polyisocyanurate HP-H</b>		
<b>Minimum 1.4" thick</b>	<b>Approved Fastener for Deck Type</b>	<b>1:2 ft<sup>2</sup></b>
<b>Minimum 2" thick</b>	<b>Approved Fastener for Deck Type</b>	<b>1:4 ft<sup>2</sup></b>
<b>Polyisocyanurate HP-NB</b>		
<b>Minimum 1.4" thick</b>	<b>Approved Fastener for Deck Type</b>	<b>1:2 ft<sup>2</sup></b>
<b>Minimum 2" thick</b>	<b>Approved Fastener for Deck Type</b>	<b>1:4 ft<sup>2</sup></b>

**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 HS, Reinforced, 45 or 60 mil membrane or Sure-Weld EXTRA 80 mil membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft.<sup>2</sup>(finished surface) or Aqua Base 120 Bonding Adhesive or Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal./120ft<sup>2</sup>. (finished surface). Outside 1.5" of side laps are heat welded.



**Membrane #2:** Sure-Weld FleeceBACK 100 or 115 membrane fully adhered to the insulation using FAST Adhesive applied to the substrate at a rate of 1 gal/sq, or Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal./120ft<sup>2</sup> Outside 1.5” of side laps are heat welded.

**Membrane #3:** Sure-Weld AFX membrane fully adhered to the insulation in a full mopping of approved asphalt within the EVT range and at a rate of 20-25lbs./sq, or Cold Adhesive applied to the substrate at a rate of 1 gal./67ft<sup>2</sup>. Outside 1.5” of side laps are heat welded.

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



**Membrane Type:** Single Ply, Thermoplastic, TPO, Reinforced  
**Deck Type 7I:** Recover  
**Deck Description:** Minimum 20 gage (min 0.0295in.) 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 30 inches o.c.  
**This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**  
**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>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Polyisocyanurate HP-H Minimum 1.2” thick	N/A	N/A
Polyisocyanurate HP-NB Minimum 1.4” thick	N/A	N/A
Structodeck Minimum ½” thick	N/A	N/A
Dens Deck, SECUROCK 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 Carlisle FAST 100 Adhesive, Carlisle Olybond 500BA, 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:** HPX Fasteners with Piranha Plates 6" o.c. through the Sure-Weld or Sure-Weld EXTRA Membrane in the lap in rows spaced 7'-6" o.c. Outside 1.5" of side laps are heat welded.  
*Maximum Design Pressure -67.5 psf. (See General Limitation #7)*

**Fastening #2:** HP-XTRA Fasteners with Piranha Xtra 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. Outside 1.5" of side laps are heat welded. Outside 1.5" of side laps are heat welded.  
*Maximum Design Pressure -45 psf. (See General Limitation #7)*

**Maximum Design Pressure:** See Fastening Options Above



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

**Deck Type 7I:** Recover

**Deck Description:** Minimum 18 gage (min 0.0295in.) 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 30 inches o.c.

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

**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>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Polyisocyanurate HP-H Minimum 1.2" thick	N/A	N/A
Polyisocyanurate HP-NB Minimum 1.4" thick	N/A	N/A
Structodeck Minimum ½" thick	N/A	N/A
Dens Deck, SECUROCK 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 Carlisle FAST 100 Adhesive, Carlisle Olybond 500BA, 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:** HPX 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. Outside 1.5" of side laps are heat welded.

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

**Fastening #2:** HP-XTRA Fasteners with Piranha Xtra 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. Outside 1.5" of side laps are heat welded. Outside 1.5" of side laps are heat welded.

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

**Maximum Design Pressure:** See Fastening Options Above



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

**Deck Type 7I:** Recover

**Deck Description:** Minimum 22 gage Type B, ASTM A 1008SS Grade 80 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 30 inches o.c.

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

**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>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Polyisocyanurate HP-H Minimum 1.2" thick	N/A	N/A
Polyisocyanurate HP-NB Minimum 1.4" thick	N/A	N/A
Structodeck Minimum ½" thick	N/A	N/A
Dens Deck, SECUROCK 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 Carlisle FAST 100 Adhesive, Carlisle Olybond 500BA, 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:** HPX 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. Outside 1.5" of side laps are heat welded.

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

**Fastening #2:** HPX 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'-6.5" o.c. Outside 1.5" of side laps are heat welded.

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

**Maximum Design Pressure:** See Fastening Options Above





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

**Deck Type 7I:** Recover

**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.

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

**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>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Polyisocyanurate HP-H Minimum 1.2" thick	N/A	N/A
Polyisocyanurate HP-NB Minimum 1.4" thick	N/A	N/A
Structodeck Minimum ½" thick	N/A	N/A
Dens Deck, SECUROCK 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 Carlisle FAST 100 Adhesive, Carlisle Olybond 500BA, 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:** HPX 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'-6.5" o.c. Outside 1.5" of side laps are heat welded.

***Maximum Design Pressure –52.5 psf. (See General Limitation #7)***

**Fastening #2:** HP-XTRA Fasteners with Piranha Xtra 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'-6.5" o.c. Outside 1.5" of side laps are heat welded

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

**Maximum Design Pressure:** See Fastening Options Above



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

**Deck Type 7I:** Recover

**Deck Description:** Minimum 22 gage Type B, ASTM A 1008 SS 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 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 24 inches o.c.

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

**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>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Polyisocyanurate HP-H Minimum 1.2" thick	N/A	N/A
Polyisocyanurate HP-NB Minimum 1.4" thick	N/A	N/A
Structodeck Minimum ½" thick	N/A	N/A
Dens Deck, SECUROCK 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 Carlisle FAST 100 Adhesive, Carlisle Olybond 500BA, 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:** HPX Fasteners with Piranha Plates 6" o.c. through the Sure-Weld or Sure-Weld EXTRA Membrane in the lap in rows spaced 3'-6" o.c. Outside 1.5" of side laps are heat welded.  
*Maximum Design Pressure –82.5 psf. (See General Limitation #7)*

**Fastening #2:** HPX 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 3'-6" o.c. Outside 1.5" of side laps are heat welded.  
*Maximum Design Pressure –52.5 psf. (See General Limitation #7)*

**Maximum Design Pressure:** See Fastening Options Above



**Membrane Type:** Single Ply, Thermoplastic, TPO, Reinforced  
**Deck Type 7I:** Recover  
**Deck Description:** 2500 psi structural concrete.  
**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>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
<b>Polyisocyanurate HP-H Minimum 1.2” thick</b>	N/A	N/A
<b>Polyisocyanurate HP-NB Minimum 1.4” thick</b>	N/A	N/A
<b>Structodeck Minimum ½” thick</b>	N/A	N/A
<b>Dens Deck, SECUROCK Minimum ¼” thick</b>	N/A	N/A
<b>R-Tech, R-Tech Fan-Fold, SecurShield HD Minimum ½” thick</b>	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 Carlisle FAST 100 Adhesive, or Carlisle Olybond 500BA, or Carlisle One-Step.**

**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.
- Note:** HP Purlin fastener must be used in place of HP-X Fasteners when securing into minimum 16 gauge structural purlins.
- 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, Reinforced, FleeceBACK  
**Deck Type 7:** Recover, Non-Insulated  
**Deck Description:** 2500 psi structural concrete / 18-22 ga. 33ksi steel.  
**System Type F(1):** Membrane fully adhered with FAST Adhesive, Asphalt or Cold Applied 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 #1:** Sure-Weld AFX membrane fully adhered to the insulation in a full mopping of approved asphalt within the EVT range and at a rate of 20-25 lbs/sq. Outside 1.5” of side laps are heat welded.  
**Maximum Design Pressure: -367.5 psf (See General Limitation #9)**

**Membrane #2:** Sure-Weld FleeceBACK 100 or 115 attached to the existing roof using FAST Adhesive applied in ribbons spaced 6” o.c. Outside 1.5” of side laps are heat welded.  
**Maximum Design Pressure: -75 psf (See General Limitation #9)**

**Maximum Design Pressure:** See Fastening Options Above



**Membrane Type:** Single Ply, Thermoplastic, Reinforced, FleeceBACK  
**Deck Type 7:** Recover, Non-Insulated  
**Deck Description:** 2500 psi structural concrete  
**System Type F(2):** Membrane fully adhered with FAST Adhesive, Asphalt or Cold Applied 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 Cold Adhesive applied to the substrate at a rate of 1 gal./67ft<sup>2</sup>. Outside 1.5” of side laps are heat welded.

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





## **RECOVER SYSTEM LIMITATIONS:**

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



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: 18-0108.21  
Expiration Date: 08/31/23  
Approval Date: 08/16/18  
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