



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 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 Wood 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# 24-0502.02 and consists of pages 1 through 12.
The submitted documentation was reviewed by Alex Tigera.

03/12/26



NOA No.: 24-1210.02
Expiration Date: 08/31/29
Approval Date: 03/12/26
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ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply
Material:	TPO
Deck Type:	Wood
Maximum Design Pressure	-75 psf

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 TPO membrane.
Sure-Weld EXTRA	various	TAS 131	Reinforced white or colored TPO membrane.
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 HS	various	TAS 131	Reinforced white or colored FR TPO membrane.
Flexible FAST Adhesive	various	TAS 110	Polyurethane Adhesive
Carlisle Olybond 500 BA	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
Carlisle Sure MB MC Adhesive	Various	TAS 110	Asphalt Modified Polyether Adhesive
Sure-Weld Low VOC Bonding Adhesive	various	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.



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	Insulation and membrane fastener	Various	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
2.	Piranha, Piranha Xtra Plates	Barbed Metal plates used for membrane securement with Sure-Seal fasteners.	2-3/8" dia	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
3.	InsulFast Fastener	Insulation fastener	Various	Carlisle SynTec
4.	Insulation Fastening Plate	Insulation Plate	3" dia	Carlisle SynTec
5.	#12 Standard Roofgrip, #14 Roofgrip	Insulation and membrane fastener	Various	OMG, Inc.
6.	#12 Standard Stainless Steel	Stainless steel insulation and membrane fastener	Various	OMG, Inc.
7.	Trufast #14 HD Fasteners	Insulation and membrane fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
8.	Trufast #12 DP Fastener	Insulation and membrane fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
9.	Trufast 3" Metal Insulation Plate	Insulation and membrane fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
10.	Trufast 2.4" Barbed Metal Seam Plate (14 Barb)	Insulation and membrane fastener	Various	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-37490.01	ASTM D 2137	7/7/00
Factory Mutual Research Corp.	3Z9A1.AM	FMRC Standard 4470	10/15/97
	Approval Guide Excerpt	Wind Uplift Classification Listings	5/00
	Letter	Wind Uplift Classification	5/2/00
	3006110	Class 4470	6/13/01
	3011220	ASTM E 108	8/16/01
Celotex Corporation Testing Services	520257	PA 131-95	4/19/00
SGS U.S. Testing Company Incorporated	131248-R2	ASTM D 1149	1/6/00
Atlantic & Caribbean Roof Consulting, LLC	ACRC 07-059	TAS 114-J	10/23/07
	ACRC 07-051	TAS 114-J	09/05/07
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



APPROVED ASSEMBLIES

- Membrane Type:** Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 1I: Wood, Insulated
Deck Description: ¹⁹/₃₂" or greater plywood or wood plank
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.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, StormBase, H-Shield NB, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite		
Minimum 1.5" thick	1, 3, 4	1:2 ft ²
Minimum 2" thick	1, 5, 6	1:4 ft ²
Structodeck High Density Wood Fiber Board		
Minimum ½" thick	3, 4	1:2 ft ²

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 or FMRC approved vapor retarder applied to the roof deck or over a base layer of insulation.
- Barrier:** ¼", ⅜", ½", or ⅝" gypsum.
- Membrane #1:** Sure-Weld, Sure-Weld HS, Reinforced, 45 or 60 mil membrane or Sure-Weld EXTRA, 72 or 80 mil membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive, or LVOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft.² (finished surface) or Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/120 ft.²
Maximum Design Pressure –45 psf (See General Limitation #9)
- Membrane #2:** Sure-Weld FleeceBACK 100 or 115 mil membrane fully adhered to the insulation using Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/120 ft.²
Maximum Design Pressure –45 psf. (See General Limitation #9)
- Sure-Weld FleeceBACK 100 or 115 mil membrane fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq.
Maximum Design Pressure –45 psf. (See General Limitation #9)



Membrane #3: Sure-Weld AFX membrane adhered to the insulation in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-25 lbs./sq. or Carlisle SureMB MC Adhesive applied to the substrate at a rate of 1 gal/67 ft.²
Maximum Design Pressure –45 psf. (See General Limitation #9)

Maximum Design Pressure: See Membrane Options Above



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type II: Wood, Insulated
Deck Description: 1⁹/₃₂" or greater plywood or wood plank
System Type C(2): Membrane adhered 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 (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD, H-Shield HD Composite Minimum 1/2-inch thick	N/A	N/A
<u>Top or Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum 1/2-inch thick	3, 8	1:2 ft ²

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.

Membrane: Sure-Weld, Sure-Weld EXTRA or Sure-Weld HS membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive. The adhesive is applied in a contact application and is applied to both the underside of the membrane and the top side of the approved substrate at a rate of 60 ft²/gallon, finished surface area.

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: -75 psf. (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, Fleecebacked
Deck Type II: Wood, Insulated
Deck Description: 1⁹/₃₂" or greater plywood or wood plank
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/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite Minimum 1.5" 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.

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder applied to the roof

Barrier: (Optional) 1/4", 3/8", 1/2", or 5/8" gypsum.

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

Fastening #1: 6-foot wide Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane mechanically fastened 6-inches on center through the field seams using HPX Fasteners and Piranha Plates.
Maximum Design Pressure -67.5 psf. (See General Limitation #7)

Fastening #2: 8-foot wide Sure-Weld, Sure-Weld HS 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 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: See Membrane Options Above



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type II: Wood, Insulated
Deck Description: 1⁹/₃₂" or greater plywood or wood plank
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 Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD, H-Shield HD Composite Minimum 1/2-inch thick	N/A	N/A
<u>Top or Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board, Dens Deck Prime Minimum 1/4-inch thick	N/A	N/A
SecurShield Minimum 1/2-inch thick	N/A	N/A
SecurShield HD Composite) Minimum 2-inch thick	N/A	N/A
StormBase Minimum 1-1/2-inch 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.

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

Fastening #1: 8-foot wide Sure-Weld (60-mil) or Sure-Weld EXTRA membrane mechanically fastened 12-inches on center through the field seams using HP-Xtra Fasteners and Piranha XTRA 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: -45 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 1I: Wood, Insulated
Deck Description: ¹⁹/₃₂" or greater plywood or wood plank
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/ft²</u>
Any approved insulation layer listed in Table 2 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.

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

Fastening #1: 5-foot wide Sure-Weld or Sure-Weld EXTRA membrane mechanically fastened 6-inches on center through the field seams into the rafters spaced 48-inches on center using HP-X 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: -75 psf (See General Limitation #7)



WOOD DECK SYSTEM LIMITATIONS:

- 1 A slip sheet is required with Ply 4 and Ply 6 when used as a mechanically fastened base or anchor sheet.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.

5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117 and/or RAS 137. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
- 10 All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.

MIAMI-DADE COUNTY
APPROVED

11. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE

MIAMI-DADE COUNTY
APPROVED

NOA No.: 24-1210.02
Expiration Date: 08/31/29
Approval Date: 03/12/26
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