



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 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 renews NOA# 13-0219.11 and consists of pages 1 through 8.
The submitted documentation was reviewed by Alex Tigera.

Alex Tigera 7/10/15



NOA No.: 14-0626.03
Expiration Date: 08/31/18
Approval Date: 08/28/14
Page 1 of 8

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Single Ply
Material: TPO
Deck Type: Wood
Maximum Design Pressure -67.5 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.
Carlisle FAST 100 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
Cold Applied Adhesive	Various	TAS 110	Asphalt Modified Polyether Adhesive



NOA No.: 14-0626.03
Expiration Date: 08/31/18
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Page 2 of 8

APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
Polyisocyanurate HP-NB, HP-H	Polyisocyanurate roof insulation.	Carlisle Syntec, Inc.
Dens Deck, Dens Deck Prime	Silicon treated gypsum	Georgia Pacific Gypsum Corp.
Wood Fiberboard	Regular wood fiber insulation	Generic
High Density Wood Fiberboard	High Density Wood Fiber insulation board.	Generic
XPS	Extruded polystyrene	Generic
Structodeck High Density Fiberboard 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, Inc.
2.	Piranha, Piranha Xtra Plates	Barbed Metal plates used for membrane securement with Sure-Seal fasteners.	2-3/8" dia	Carlisle Syntec, Inc.
3.	#12 Standard Roofgrip, #14 Roofgrip	Insulation and membrane fastener	Various	OMG, Inc.
4.	#12 Standard Stainless Steel	Stainless steel insulation and membrane fastener	Various	OMG, Inc.
5.	Trufast #14 HD Fasteners	Insulation and membrane fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
6.	Trufast #12 DP Fastener	Insulation and membrane fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
7.	Trufast 3" Metal Insulation Plate	Insulation and membrane fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
8.	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 Approval Guide Excerpt	FMRC Standard 4470 Wind Uplift Classification Listings	10/15/97 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 ACRC 07-051	TAS 114-J TAS 114-J	10/23/07 09/05/07
Trinity ERD	C46470.07.14-1A C46470.07.14-1B C46470.07.14-2A C46470.07.14-4-R1	TAS 131 TAS 131 TAS 131 TAS 131	07/16/14 07/16/14 07/30/14 07/21/14



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>
One of the following covered with the boards listed in "Base or Top Insulation Layer".		
XPS		
Minimum 1" thick	N/A	N/A

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. Single and multiple layers of insulation can be attached to base layer with Carlisle Syntec FAST Adhesive, Carlisle Olybond 500BA, Carlisle One-Step Adhesive.

<u>Base or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Polyisocyanurate HP-H, HP-NB		
Minimum 1.5" thick	1, 3, 4	1:2 ft ²
Minimum 2" thick	1, 5, 6	1:4 ft ²
High Density Fiberboard		
Minimum ³ / ₄ " thick	3, 4, 5, 6	1:2.67 ft ²
Structodeck High Density Wood Fiber Board		
Minimum ¹ / ₂ " thick	3, 4	1:2 ft ²
Wood Fiber		
Minimum 1" thick	1, 3, 4, 5, 6	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:	1/4", 3/8", 1/2", or 5/8" gypsum.
Membrane #1:	<p>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 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</p> <p><i>Maximum Design Pressure –45 psf (See General Limitation #9)</i></p>
Membrane #2:	<p>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</p> <p><i>Maximum Design Pressure –45 psf. (See General Limitation #9)</i></p> <p>Sure-Weld FleeceBACK 100 or 115 mil membrane fully adhered to the insulation using FAST Adhesive applied to the substrate at a rate of 1 gal/sq.</p> <p><i>Maximum Design Pressure –45 psf. (See General Limitation #9)</i></p>
Membrane #3:	<p>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 Cold Applied Adhesive applied to the substrate at a rate of 1 gal/67 ft.²</p> <p><i>Maximum Design Pressure –45 psf. (See General Limitation #9)</i></p>
Maximum Design Pressure:	See Membrane Options Above