



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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www.miamidade.gov/economy

CertainTeed Corporation
18 Moores Road
Malvern, PA 19355

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: Flintlastic Self-Adhered Roofing Systems Over Recover Decks

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

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

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

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

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

This NOA consists of pages 1 through 9.

The submitted documentation was reviewed by Alex Tigera.



NOA.: 11-0113.09
Expiration Date: 08/20/20
Approval Date: 08/20/15
Page 1 of 9

ROOFING SYSTEM APPROVAL

<u>Category:</u>	Roofing
<u>Sub-Category:</u>	Modified Bitumen
<u>Material:</u>	APP, SBS
<u>Deck Type:</u>	Recover
<u>Maximum Design Pressure</u>	-97.5 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Spec</u>	<u>Description</u>
Flintlastic SA NailBase	39 ³ / ₈ " x 66'6"; Roll weight: 82 lbs. (2 squares)	ASTM D 4601, Type II	Fiberglass reinforced, SBS modified bitumen base sheet.
Flintlastic SA PlyBase	39 ³ / ₈ " x 66'6"; Roll weight: 86 lbs. (2 squares)	ASTM D 1970	Self-adhering, fiberglass reinforced, SBS modified bitumen base/ply sheet.
Flintlastic SA Mid Ply	39 ³ / ₈ " x 32'11"; Roll weight: 62 lbs. (1 square)	ASTM D 6163, Grade S, Type I	Self-adhering, polyester reinforced, SBS modified bitumen ply sheet.
Flintlastic SA Cap FR	39 ³ / ₈ " x 32'11"; Roll weight: 88 lbs. (1 square)	ASTM D 6163, Grade G, Type I	Self-adhering, fiberglass reinforced, SBS modified bitumen cap sheet.
Flintlastic SA Cap FR CoolStar	39 ³ / ₈ " x 32'11"; Roll weight: 90 lbs. (1 square)	ASTM D 6163, Grade G, Type I	Self-adhering, fiberglass reinforced, SBS modified bitumen cap sheet with reflective coating.
Flintlastic SA Cap	39 ³ / ₈ " x 32'11"; Roll weight: 95 lbs. (1 square)	ASTM D 6164, Grade G, Type I	Self-adhering, polyester reinforced, SBS modified bitumen cap sheet.
Flintlastic SA Cap CoolStar	39 ³ / ₈ " x 32'11"; Roll weight: 98 lbs. (1 square)	ASTM D 6164, Grade G, Type I	Self-adhering, polyester reinforced, SBS modified bitumen cap sheet with reflective coating.

APPROVED INSULATIONS:

TABLE 2

<u>Product</u>	<u>Product Description</u>	<u>Manufacturer (with current NOA)</u>
FlintBoard ISO, FlintBoard _H ISO	Polyisocyanurate insulation	CertainTeed Corp.
ACFoam-II	Polyisocyanurate insulation	Atlas Roofing Corp.
ENRGY 3	Polyisocyanurate insulation	Johns Manville Corp.
Multi-Max FA-3	Polyisocyanurate insulation	Rmax Operating, LLC.
DensDeck, DensDeck Prime	Gypsum coverboard	Georgia Pacific Gypsum LLC.
H-Shield	Polyisocyanurate insulation	Hunter Panels, LLC.

APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (with current NOA)</u>
1.	Dekfast 14 with Dekfast Galvalume Steel Hex Plate	Roofing screw with hexagonal steel plate	SFS Intec, Inc.
2.	Trufast #14 HD Fastener with Trufast 3" Metal Insulation Plate	Roofing screw with 3" round steel plate	Altenloh, Brinck & Co. U.S., Inc.
3.	#14 Roofgrip with Flat Bottom Metal Plate	Roofing screw with 3" square steel plate	OMG, Inc.
4.	FlintFast #14 with 3" Metal Insulation Plate	Roofing screw with 3" round steel plate	CertainTeed Corp.

APPROVED SURFACING/COATING OPTIONS:

TABLE 4

Chosen components must be applied according to manufacturer's application instructions. Any coating, listed below, used as a surfacing, must be listed within a current NOA.

<u>System Number</u>	<u>Manufacturer</u>	<u>Application</u>
1.	Generic	Gravel applied at 400 lbs/sq., adhered with flood coat of asphalt at 60 lbs/sq.
2.	Generic	Slag applied at 300 lbs/sq., adhered with flood coat of asphalt at 60 lbs/sq.
3.	Karnak Corp.	Karnak (#97 AF) Fibrated Aluminum Roof Coating applied at an application rate of 1.5 gal/sq.
4.	CertainTeed Corp.	FlintCoat A-150 applied at an application rate of 1.5 gal/sq.
5.	Gardner Asphalt Corp.	APOC #212 Fibrated Aluminum Roof Coating applied at an application rate of 1.5 gal/sq.
6.	Gardner Asphalt Corp.	APOC #400 Sunbrite applied at an application rate of 3 gal./sq.

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Underwriters Laboratories	R11656	UL790	Annually
Momentum Technologies, Inc.	DX08C4A	Physical Properties	03/22/04
	DX20E3A	Physical Properties	03/22/04
Factory Mutual Research	3037127	FM 4470	01/11/10
	3031350	FM 4470	09/27/07
Trinity ERD	C31410.06.10	ASTM D 5147/4798	06/03/10
	C7290.01.08	ASTM D 4601/1970	01/16/08
	C8370.08.08-R1	TAS 114-H/J & TAS 117(B)	10/05/09
	C8500SC.11.07-R1	ASTM D 6862/TAS 117(B)	08/07/09
	C10080.09.08-R4	ASTM D 5147/6163/6164	03/25/10
		ASTM D 6222/3909	
	C10080.09.10-R1	ASTM D 5147 & 6163	11/18/10
	C35460.05.11	ASTM D 1876	06/16/11
PRI Construction Materials Technologies	CTC-034-02-01 REV	ASTM D 6163	11/24/08

APPROVED ASSEMBLIES

Membrane Type:	SBS Modified, Self-Adhering
Deck Type 7I:	Recover, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type A(1):	One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply.

Primer: (Optional)	Concrete deck primed with ASTM D 41 asphalt primer at a rate of 0.75 gal/sq and allowed to dry prior to application of insulation.
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One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
FlintBoard ISO, AC Foam-II, ENRGY 3, Multi-Max FA-3, FlintBoard _H ISO, H-Shield Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Insta Stik Quik Set Insulation Adhesive, OMG OlyBond 500, OMG OlyBond 500 Green, Tite-Set Roofing Adhesive, 3M Polyurethane Foam Insulation Adhesive CR-20, Millennium One Step Foamable Adhesive applied in ¾" ribbons spaced 12" o.c. or with hot asphalt in full coverage at a rate of 20-25 lbs/ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations 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 may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet:	One or more layers of Flintlastic SA PlyBase or Flintlastic SA Mid Ply, self-adhered.
Ply Sheet: (Optional)	One ply of Flintlastic SA PlyBase or Flintlastic SA Mid Ply, self-adhered.
Membrane:	One layer of Flintlastic SA Cap, Flintlastic SA Cap FR, Flintlastic SA Cap FR CoolStar or Flintlastic SA Cap CoolStar, self-adhered.
Surfacing: (Optional)	Any of the approved surfacing/coating options listed in Table 4.
Maximum Design Pressure:	-105.0 psf (See General Limitation #9.)



Membrane Type: SBS Modified, Self-Adhering
Deck Type 7I: Recover, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type C(1): All layers of insulation simultaneously fastened

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners Table 3</u>	<u>Fastener Density/ft²</u>
FlintBoard ISO, ACFoam-II, ENRGY 3 or Multi-Max FA-3 Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners Table 3</u>	<u>Fastener Density/ft²</u>
DensDeck Prime Minimum 1/4" thick	1, 2, 4	1:1.33 ft ²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The 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.

Base Sheet: One layer of Flintlastic SA PlyBase or Flintlastic SA Mid Ply, self-adhered.

**Ply Sheet:
(Optional)** One ply of Flintlastic SA PlyBase or Flintlastic SA Mid Ply, self-adhered.

Membrane: One layer of Flintlastic SA Cap, Flintlastic SA Cap FR, Flintlastic SA Cap FR CoolStar or Flintlastic SA Cap CoolStar, self-adhered.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

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



Membrane Type:	SBS Modified, Self-Adhering
Deck Type 7I:	Recover, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type D(1):	All layers of insulation and base sheet simultaneously attached

All General and System Limitations apply.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners Table 3</u>	<u>Fastener Density/ft²</u>
FlintBoard ISO, ACFoam-II, ENRGY 3 or Multi-Max FA-3 Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners Table 3</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum 1/4" thick	N/A	N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet:	One layer of Flintlastic SA NailBase, mechanically attached as detailed below.
Fastening:	Base sheet shall be fastened with Dekfast Galvalume Steel Hex plates and Dekfast 14 fasteners, OMG Flat Bottom Metal Plates with OMG #14 Roofgrip fasteners, Trufast 3" Metal Insulation Plates with Trufast #14 HD Fastener, or FlintFast #14 with FlintFast 3" Insulation Plates spaced 8" o.c. at a 4" wide side lap and two rows staggered in the field of the sheet, 8" o.c.
Ply Sheet: (Optional)	One ply of Flintlastic SA PlyBase or Flintlastic SA Mid Ply, self-adhered.
Membrane:	One layer of Flintlastic SA Cap, Flintlastic SA Cap FR, Flintlastic SA Cap FR CoolStar or Flintlastic SA Cap CoolStar, self-adhered.
Surfacing: (Optional)	Any of the approved surfacing/coating options listed in Table 4.
Maximum Design Pressure:	-82.5 psf (See General Limitation #7.)



Membrane Type: SBS Modified, Self-Adhering
Deck Type 3: Recover
Deck Description: 2500 psi structural concrete or concrete plank
System Type F(1): Base sheet adhered to deck

All General and System Limitations apply.

Primer: Deck is primed with ASTM D41 Primer applied at a rate of 0.75 gal/sq
Base Sheet: One ply of Flintlastic SA PlyBase or Flintlastic SA Mid Ply, self-adhered.
**Ply Sheet:
(Optional)** One ply of Flintlastic SA PlyBase or Flintlastic SA Mid Ply, self-adhered.
Membrane: One layer of Flintlastic SA Cap, Flintlastic SA Cap FR, Flintlastic SA Cap FR CoolStar or Flintlastic SA Cap CoolStar, self-adhered.
**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.
**Maximum Design
Pressure:** -97.5 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.

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 side lap 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.
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 Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to 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 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