



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908**

NOTICE OF ACCEPTANCE (NOA)

**CertainTeed Corporation (PA)
1400 Union Meeting Road
Blue Bell, PA 19422**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by the BCCO and accepted by the Building Code and Product Review Committee 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 BCCO (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. BCCO reserves the right to revoke this acceptance, if it is determined by BCCO 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 and the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Flintlastic SA Roofing Systems Over Concrete Decks

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

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

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

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

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

This NOA revises NOA No. 09-0310.09 and consists of pages 1 through 13.
The submitted documentation was reviewed by Jorge L. Acebo.



**NOA No.: 10-0330.03
Expiration Date: 06/09/15
Approval Date: 10/27/10
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ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Material:	SBS
Deck Type:	Concrete
Maximum Design Pressure	-630 psf

TABLE 1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Flintlastic SA NailBase	66'6" x 39-3/8"	ASTM D4601, Type II	Fiberglass reinforced, SBS modified bitumen base sheet.
Flintlastic SA Mid Ply	33'11" x 39-3/8"	ASTM D6164	Polyester and Fiberglass scrim reinforced, SBS modified ply sheet.
Flintlastic SA PlyBase	39'-3/8" x 66'6"	ASTM D1970	A self-adhering Fiber glass mat, SBS modified bitumen ply sheet.
Flintlastic SA Cap	33'11" x 39-3/8"	ASTM D6164	Polyester scrim reinforced, self-adhering SBS cap sheet.
Flintlastic SA Cap FR	33'11" x 39-3/8"	ASTM D6163	Fiberglass scrim reinforced, self-adhering fire retardant SBS cap sheet.
Flintlastic SA Cap CoolStar	33'11" x 39-3/8"	ASTM D6164	Polyester scrim reinforced, SBS cap sheet with a CoolStar coating.
Flintlastic SA Cap FR CoolStar	33'11" x 39-3/8"	ASTM D6163	Fiberglass scrim reinforced, fire retardant SBS cap sheet with a CoolStar coating.
FlintPrime Asphalt	1, 3 or 5 gal pail	ASTM D 41	Asphalt primer.
FlintPrime SA	1, 3 or 5 gal pail	Proprietary	Water based, polymer modified primer.

TABLE 2

APPROVED INSULATIONS:

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



APPROVED ASSEMBLIES:

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(1): One or more layers of insulation adhered with approved adhesive or asphalt

All General and System Limitations apply.

One or more layers of any of the following insulations.

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

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to asphalt-application of insulation. All insulation shall be adhered to the deck in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft² or TITASET Roofing Adhesive spray applied in continuous 3½ " wide ribbons spaced max. 12" o.c. 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.

Primer: Apply FlintPrime SA to DensDeck surface at 0.3 gal/square.

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

Ply Sheet: (Optional) One or more layers of Flintlastic SA Mid Ply or Flintlastic SA PlyBase self-adhered

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

Surfacing: None

Maximum Design Pressure: -192.5 psf (See General Limitation #9.)



Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(2): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply.

One or more layers of any of the following insulations.

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

Note: Concrete deck may be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered to the deck in Insta-Stik Roofing Adhesive applied in continuous ¾" to 1" wide beads spaced max. 12" o.c. or in Spray-N-Grip applied in full coverage. 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.

Primer: Apply FlintPrime SA to DensDeck surface at 0.3 gal/square.

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

Ply Sheet: (Optional) One or more layers of Flintlastic SA Mid Ply or Flintlastic SA PlyBase self-adhered

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

Surfacing: None

Maximum Design Pressure:

-120.0 psf	(with FlintBoard ISO or AC Foam II) (See General Limitation #9.)
-112.5 psf	(with ENRGY 3) (See General Limitation #9.)
-67.5 psf	(with Multi-Max FA-3) (See General Limitation #9.)



Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(3): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply.

One or more layers of any of the following insulations.

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

Note: All insulation shall be adhered to the deck in Weather-Tite Pourable Foam Insulation Adhesive applied in continuous ¾" wide strips spaced max. 12" o.c. 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.

Primer: Apply FlintPrime SA to DensDeck surface at 0.3 gal/square.

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

Ply Sheet: (Optional) One or more layers of Flintlastic SA Mid Ply or Flintlastic SA PlyBase self-adhered

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

Surfacing: None

Maximum Design

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



Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(4): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply.

One or more layers of any of the following insulations.

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

Note: All insulation shall be adhered to the deck in Weather-Tite One Step Pourable Foam Adhesive applied in continuous ¾" wide beads spaced max. 12" o.c. 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.

Primer: Apply FlintPrime SA to DensDeck surface at 0.3 gal/square.

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

Ply Sheet: (Optional) One or more layers of Flintlastic SA Mid Ply or Flintlastic SA PlyBase self-adhered

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

Surfacing: None

**Maximum Design
Pressure:** -192.5 psf (See General Limitation #9.)



Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(6): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
FlintBoard ISO, ACFoam II, ENRGY 3, H-Shield Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
DensDeck Minimum ¼" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered to the deck in OlyBond Adhesive Fastener spray applied at approximately 1 gal/square. 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.

Primer: Apply FlintPrime SA to DensDeck surface at 0.3 gal/square.
Base Sheet: One layer of Flintlastic SA Mid Ply, self-adhered
Ply Sheet: (Optional) One or more layers of Flintlastic SA Mid Ply or Flintlastic SA PlyBase self-adhered
Membrane: One layer of Flintlastic SA Cap or Flintlastic SA Cap FR, self-adhered
Surfacing: None
Maximum Design Pressure: -150 psf (See General Limitation #9.)



Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(7): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply.

One or more layers of any of the following insulations.

(Optional) Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
FlintBoard ISO, ACFoam II Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in OlyBond 500 applied in ¾" beads spaced max. 12" o.c. 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.

Primer: Apply FlintPrime SA to DensDeck surface at 0.3 gal/square.

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

Ply Sheet: (Optional) One or more layers of Flintlastic SA Mid Ply or Flintlastic SA PlyBase self-adhered

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

Surfacing: None

Maximum Design

Pressure: -150 psf (See General Limitation #9.)



Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(8): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply.

One or more layers of any of the following insulations.

(Optional) Base Insulation Layer

FlintBoard ISO, ACFoam II
Minimum 1.5" thick

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

N/A

N/A

Top Insulation Layer

DensDeck
Minimum ¼" thick

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

N/A

N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered to the deck in OlyBond 500 applied in ¾" beads spaced max. 12" o.c. 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.

Primer: Apply FlintPrime SA to DensDeck surface at 0.3 gal/square.

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

Ply Sheet: (Optional) One or more layers of Flintlastic SA Mid Ply or Flintlastic SA PlyBase self-adhered

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

Surfacing: None

Maximum Design

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



Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(9): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply.

One or more layers of any of the following insulations.

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

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered to the deck in TITASET applied in 3½" beads spaced max. 12" o.c. 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.

Primer: Apply FlintPrime SA to DensDeck surface at 0.3 gal/square.
Base Sheet: One or more layers of Flintlastic SA Mid Ply, self-adhered
Ply Sheet: (Optional) One or more layers of Flintlastic SA Mid Ply or Flintlastic SA PlyBase self-adhered
Membrane: One layer of Flintlastic SA Cap, self-adhered
Surfacing: None
Maximum Design Pressure: -192.5 psf (See General Limitation #9.)



Deck Type 3: Concrete Decks, Non-Insulated
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: Apply FlintPrime SA to deck surface at 0.2 gal/square.
Base Sheet: One layer of Flintlastic SA Mid Ply, self-adhered
Ply Sheet: (Optional) One or more layers of Flintlastic SA Mid Ply or Flintlastic SA PlyBase self-adhered
Membrane: One layer of Flintlastic SA Cap or Flintlastic SA Cap FR, self-adhered
Surfacing: None
Maximum Design Pressure: -550 psf (See General Limitation #9.)

Deck Type 3: Concrete Decks, Non-Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type F(2): Base sheet adhered to deck

All General and System Limitations apply.

Primer: Apply FlintPrime Asphalt or any approved ASTM D41 Primer to deck surface
Base Sheet: One layer of Flintlastic SA Mid Ply, self-adhered
Ply Sheet: (Optional) One or more layers of Flintlastic SA Mid Ply or Flintlastic SA PlyBase self-adhered
Membrane: One layer of Flintlastic SA Cap or Flintlastic SA Cap FR, self-adhered
Surfacing: None
Maximum Design Pressure: -630 psf (See General Limitation #9.)



CONCRETE DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.

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. **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 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 9B-72 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



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