



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](http://www.miamidade.gov/economy)

**CertainTeed Corporation**  
**1400 Union Meeting Road, P.O. Box 1100**  
**Blue Bell, PA 19422-0761**

**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: CertainTeed Modified Bitumen Roofing Systems over Cementitious Wood Fiber 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 No. 13-0204.05 and consists of pages 1 through 14.  
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 14-0224.06  
Expiration Date: 06/19/18  
Approval Date: 04/10/14  
Page 1 of 14

## ROOFING SYSTEM APPROVAL

|                                 |                  |
|---------------------------------|------------------|
| <b>Category:</b>                | Roofing          |
| <b>Sub-Category:</b>            | Modified Bitumen |
| <b>Material:</b>                | APP/SBS          |
| <b>Deck Type:</b>               | Wood             |
| <b>Maximum Design Pressure:</b> | -67.5 psf.       |

### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

| <u>Product</u>                     | <u>Dimensions</u>   | <u>Test Specification</u>               | <u>Product Description</u>   |
|------------------------------------|---|---|--|
| All Weather/Empire Base Sheet      | 36" x 65' 10";<br>Roll weight: 86 lbs.<br>(2 squares)     | ASTM D 4601 Type II<br>UL Type 15       | Asphalt coated, fiberglass reinforced base sheet   |
| Flex-I-Glas™ Base Sheet            | 36" x 98' 9"; Roll weight: 90 lbs.<br>(3 squares)         | ASTM D 4601, Type II<br>UL Type G2      | Modified Bitumen coated fiberglass base sheet.   |
| Flex-I-Glas™ FR Base Sheet         | 39 3/8" x 50'; Roll weight: 90 lbs.<br>(1.5 squares)      | ASTM D 6163, Grade S, Type I            | Modified Bitumen coated fiberglass base sheet.   |
| Flintglas® Ply Sheet Type IV or VI | 36" x 164' 7"; Roll weight: 40/55 lbs.<br>(5 squares)     | ASTM D 2178 Type IV or VI<br>UL Type G1 | Fiberglass, asphalt impregnated ply sheet.   |
| Flintlastic STA                    | 39 3/8" x 33'; Roll weight: 90 lbs.<br>(1 square)         | ASTM D 6222, Grade S, Type II           | Smooth surfaced APP Modified Bitumen membrane with non-woven polyester mat reinforcement for torch application.                |
| Flintlastic GTA, GTA-FR            | 39 3/8" x 33' 3"; Roll weight: 105 lbs.<br>(1 square)     | ASTM D 6222, Grade G, Type II           | Granule surfaced APP Modified Bitumen membrane with non-woven polyester mat reinforcement for torch application.               |
| Flintlastic GMS, GMS Premium       | 39 3/8" x 34' 2"; Roll weight: 100/105 lbs.<br>(1 square) | ASTM D 6164, Grade G, Type II           | Granule surfaced SBS Modified Bitumen membrane with non-woven polyester mat reinforcement for mop application.                 |
| Flintlastic FR, FR-P Premium       | 39 3/8" x 34' 2"; Roll weight: 105 lbs.<br>(1 square)     | ASTM D 6164, Grade G, Type I            | Fire resistant, granule surfaced SBS Modified Bitumen Membrane with non-woven polyester mat reinforcement for mop application. |
| Flintlastic FR Cap Sheet           | 39 3/8" x 34' 2"; Roll weight: 90 lbs.<br>(1 square)      | ASTM D 6163, Grade G, Type I            | Fire resistant, granule surfaced SBS Modified Bitumen membrane with fiberglass mat reinforcement for mop applications.         |



**TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:**

**TABLE 1**

| <b><u>Product</u></b>                  | <b><u>Dimensions</u></b>                               | <b><u>Test Specification</u></b> | <b><u>Product Description</u></b>  |
|--|--|----------------------------------|--|
| Flintlastic FR Cap T                   | 39-3/8" x 34'2"; Roll weight: 81lbs. (1 square)        | ASTM D6163                       | Granule surfaced SBS Modified Bitumen membrane with fiberglass mat reinforcement for torch application.  |
| Flintlastic FR Base T                  | 39-3/8" x 33'; Roll Weight: 81lbs. (1.0 squares)       | ASTM D6163                       | Modified Bitumen, coated fiberglass base sheet for torch application.  |
| Flintlastic FR Cap CoolStar            | 39 3/8" x 34' 2"; Roll weight: 90 lbs. (1 square)      | ASTM D 6163                      | Fire resistant, granule surfaced SBS Modified Bitumen membrane with fiberglass mat reinforcement for mop applications. Covered with reflective CoolStar Coating.   |
| Flintlastic FR Cap T CoolStar          | 39 3/8" x 34' 2"; Roll weight: 90 lbs. (1 square)      | ASTM D 6163                      | Fire resistant, granule surfaced SBS Modified Bitumen membrane with fiberglass mat reinforcement for mop applications. Covered with reflective CoolStar Coating.   |
| Flintlastic GTA, GTA-FR CoolStar       | 39 3/8" x 33' 3"; Roll weight: 105 lbs. (1 square)     | ASTM D 6222                      | Granule surfaced APP Modified Bitumen membrane with non-woven polyester mat reinforcement for torch application. Covered with reflective CoolStar Coating.   |
| Flintlastic GMS/GMS Premium CoolStar   | 39 3/8" x 34' 2"; Roll weight: 100/105 lbs. (1 square) | ASTM D 6164                      | Granule surfaced SBS Modified Bitumen membrane with non-woven polyester mat reinforcement for mop application. Covered with reflective CoolStar Coating.   |
| Flintlastic FR-P/FR-P Premium CoolStar | 39 3/8" x 34' 2"; Roll weight: 105 lbs. (1 square)     | ASTM D 6164                      | Fire resistant, granule surfaced SBS Modified Bitumen Membrane with non-woven polyester mat reinforcement for mop application. Covered with reflective CoolStar Coating. Covered with reflective CoolStar Coating. |
| Ultra Poly SMS                         | 36" x 64'4" (2 squares)                                | ASTM D 6164, Grade S, Type I     | Smooth surfaced SBS Modified Bitumen Membrane with non-woven polyester mat reinforcement for mop applications.   |
| GlasBase™ Base Sheet                   | 36" x 98'9"; Roll weight: 69 lbs. (3 squares)          | ASTM D 4601<br>UL Type G2        | Asphalt coated, fiberglass base sheet.   |



**TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:**

**TABLE 1**

| <u>Product</u>              | <u>Dimensions</u>                                  | <u>Test Specification</u>                   | <u>Product Description</u>                                      |
|-----------------------------|--|---|---|
| PolySMS Base Sheet          | 39 3/8" x 64' 4"; Roll weight: 90 lbs. (2 squares) | ASTM D 4601, Grade S, Type II<br>UL Type G2 | Modified Bitumen coated polyester base sheet.                   |
| Yosemite® Buffer Base Sheet | 36" x 32' 10"; Roll weight: 90 lbs. (1 square)     | ASTM D 3909<br>ASTM D 4897<br>UL Type 30    | Mineral Surfaced fiberglass reinforced buffer sheet.            |
| Black Diamond™ Base Sheet   | 36" x 68' 7"; Roll weight: 78 lbs. (2 squares)     | ASTM D 1970                                 | Self-adhering fiberglass reinforced modified bitumen base sheet |

**APPROVED INSULATIONS:**

**TABLE 2**

| <u>Product Name</u>          | <u>Product Description</u>       | <u>Manufacturer (With Current NOA)</u> |
|------------------------------|----------------------------------|--|
| FlintBoard ISO               | Polyisocyanurate foam insulation | CertainTeed Corporation                |
| ACFoam-II                    | Polyisocyanurate foam insulation | Atlas Roofing Corporation              |
| High Density Wood Fiberboard | Wood fiber insulation board      | Generic                                |
| Perlite Insulation           | Perlite insulation board         | Generic                                |
| DensDeck, DensDeck Prime     | Water resistant gypsum board     | Georgia Pacific Gypsum LLC             |
| H-Shield                     | Polyisocyanurate foam insulation | Hunter Panels LLC                      |
| ENRGY 3, ENRGY 3 25 PSI      | Polyisocyanurate foam insulation | Johns Manville Corp.                   |
| Multi-Max-3                  | Polyisocyanurate roof insulation | RMax Operating, 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.                     | Twin Loc-Nails      | Galvanized stress plate and tube with integrated locking staple. | 2.7" round x various lengths | ES Products, Inc.                      |



**EVIDENCE SUBMITTED:**

| <u>Test Agency/Identifier</u>   | <u>Name</u>                                 | <u>Report</u>      | <u>Date</u>   |          |
|---------------------------------|---|--------------------|---------------|----------|
| Factory Mutual Research Corp.   | FMRC 4470                                   | J.I. 3Y8A1.AM      | 03/23/96      |          |
|                                 | FMRC 4470                                   | J.I. 0D3A3.AM      | 04/04/97      |          |
|                                 | FMRC 4470                                   | J.I. 2D0A0.AM      | 12/23/98      |          |
|                                 | FMRC 4470                                   | J.I. 1D7A4.AM      | 11/09/98      |          |
| Underwriters Laboratories, Inc. | UL 790                                      | R11656             | 01/11/13      |          |
| United States Testing Company   | ASTM D 5147                                 | 97457-4            | 06/03/88      |          |
|                                 | ASTM D 5147                                 | 97-457-2R          | 12/02/87      |          |
| Momentum Technologies, Inc.     | ASTM D 4601                                 | AX31G8D            | 09/05/08      |          |
|                                 | ASTM D6164                                  | AX31G8F            | 06/05/09      |          |
|                                 | ASTM D6222                                  | AX31G8G            | 06/05/09      |          |
|                                 | ASTM D 3909/ D 4897                         | AX31G8C            | 09/05/08      |          |
| Trinity ERD                     | TAS 114(J)                                  | #3504.06.01-1      | 06/05/01      |          |
|                                 | TAS 117 (B)                                 | 3503.10.06         | 10/10/06      |          |
|                                 | TAS 117 (B)                                 | O6490.04.07-R1     | 06/27/07      |          |
|                                 | TAS 114 (H)                                 | Letter             | 04/05/06      |          |
|                                 | TAS 114                                     | 3533.01.06         | 01/06/06      |          |
|                                 | TAS 114                                     | 3521.07.04         | 07/29/04      |          |
|                                 | TAS 117 (B)/ ASTM D 6862                    | C8500SC.11.07      | 11/30/07      |          |
|                                 | TAS 114                                     | C8370.08.08        | 08/19/08      |          |
|                                 | ASTM Physical Properties                    | C10080.09.08-R4    | 03/25/10      |          |
|                                 | ASTM D6164/D4798                            | C31410.01.11-2     | 01/10/11      |          |
|                                 | ASTM D4601                                  | C40050.09.12-1     | 09/28/12      |          |
|                                 | ASTM D1970                                  | C40050.09.12-2     | 09/28/12      |          |
|                                 | ASTM D5147/D4798                            | C31410.10.10-R1    | 11/01/12      |          |
|                                 | ASTM D5147/D4798                            | C31410.01.11-1-R1  | 11/01/12      |          |
|                                 | ASTM D4798                                  | C31410.01.11-2A-R1 | 02/21/13      |          |
|                                 | ASTM D4798                                  | C31410.12.13       | 12/05/13      |          |
|                                 | ASTM D6222                                  | C40050.12.13       | 12/05/13      |          |
|                                 | PRI Construction Materials Technologies LLC | ASTM D6163         | CTC-032-02-01 | 01/22/08 |
|                                 |   | ASTM D6163         | CTC-066-02-01 | 08/09/11 |
| ASTM D6222                      |   | CTC-070-02-01      | 08/09/11      |          |
| ASTM D6164/D4798                |   | CTC-093-02-01      | 08/09/11      |          |
| ASTM D2178                      |   | CTC-122-02-01      | 03/13/12      |          |
| ASTM D2178                      |   | CTC-123-02-01      | 03/13/12      |          |
| ASTM D4601                      |   | CTC-127-02-01      | 03/13/12      |          |
| ASTM D6163                      |   | CTC-128-02-01      | 06/11/12      |          |
| ASTM D6163                      |   | CTC-129-02-01      | 06/11/12      |          |
| ASTM D6164                      |   | CTC-132-02-01      | 06/11/12      |          |
| ASTM D6164                      |   | CTC-162-02-01      | 05/09/13      |          |
| ASTM D6164                      |   | CTC-161-02-01      | 05/09/13      |          |
| ASTM D6162                      |   | CTC-183-02-01      | 10/02/13      |          |
| ASTM D6164                      | CTC-190-02-01                               | 12/02/13           |               |          |



## APPROVED ASSEMBLIES

- Membrane Type:** APP Modified  
**Deck Type 5I:** Cementitious Wood Fiber, Insulated  
**Deck Description:** Cementitious Wood Fiber  
**System Type A(1):** Anchor sheet mechanically fastened; all insulation layers adhered with approved asphalt

### All General and System limitations apply.

- Anchor Sheet:** One ply of Glas-Base, Flexiglas Base, Flexiglas FR Base or All Weather/Empire Base mechanically attached to the deck with Twin Loc-Nails spaced 7" o.c. in 4" side lap and two staggered rows in center of the sheet, 7" o.c.
- Fastening #1:** Twin Loc-Nails spaced 7" o.c. in 4" side lap and two staggered rows in center of the sheet, 7" o.c.  
*(Maximum Design Pressure –60 psf., See General Limitation #7.)*
- Fastening #2:** Twin Loc-Nails spaced 9" o.c. in 4" side lap and two staggered rows in center of the sheet, 9" o.c.  
*(Maximum Design Pressure –60 psf., See General Limitation #7.)*

One or more layers of any of the following insulations:

| <u>Base Insulation Layer</u>  | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|---|---|--|
| ACFoam-II, ENRGY 3, FlintBoard ISO, Multi-Max-3, H-Shield<br>Minimum 1.5" thick | N/A                                       | N/A  |
| <u>Top Insulation Layer</u>   | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
| FescoBoard<br>Minimum 0.75" thick   | N/A                                       | N/A  |
| Approved High Density Wood Fiberboard<br>Minimum 0.5" thick                     | N/A                                       | N/A  |

**Note:** All insulation shall be adhered to the anchor sheet in full mopping of approved hot 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 may be used as a top layer placed with the polyisocyanurate side facing down.

- Base Sheet:** One ply of All Weather/Empire Base Sheet, Glas-Base, Flexiglas Base, Flexiglas FR Base, Poly SMS, Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.



- Ply Sheet:** (Optional) One ply of Glas-Base, Flexiglas Base, Flexiglas FR Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet self-adhered or Flintlastic STA torch adhered.
- Membrane:** One ply of Flintlastic FR Cap T or Flintlastic FR Cap T CoolStar, Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR CoolStar or Flintlastic GTA-FR torch adhered to base sheet or ply sheet.
- Maximum Design Pressure:** See fastening requirements listed above.



**Membrane Type:** SBS Modified  
**Deck Type 5I:** Cementitious Wood Fiber, Insulated  
**Deck Description:** Cementitious Wood Fiber  
**System Type A(2):** Anchor sheet mechanically fastened; all insulation layers adhered with approved asphalt

**All General and System limitations apply.**

**Anchor Sheet:** One ply of Glas-Base, Flexiglas Base, Flexiglas FR Base or All Weather/Empire Base mechanically attached to the deck as detailed below.

**Fastening #1:** Twin Loc-Nails spaced 7" o.c. in 4" side lap and two staggered rows in center of the sheet, 7" o.c.  
*(Maximum Design Pressure –60 psf., See General Limitation #7.)*

**Fastening #2:** Twin Loc-Nails spaced 9" o.c. in 4" side lap and two staggered rows in center of the sheet, 9" o.c.  
*(Maximum Design Pressure –60 psf., See General Limitation #7.)*

One or more layers of any of the following insulations:

| <u>Base Insulation Layer</u>  | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|---|---|--|
| ACFoam-II, ENRGY 3, FlintBoard ISO, Multi-Max-3, H-Shield<br>Minimum 1.5" thick | N/A                                       | N/A  |
| <u>Top Insulation Layer</u>   | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
| FescoBoard<br>Minimum 0.75" thick   | N/A                                       | N/A  |
| Approved High Density Wood Fiberboard<br>Minimum 0.5" thick                     | N/A                                       | N/A  |

**Note:** All insulation shall be adhered to the anchor sheet in full mopping of approved hot 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 may be used as a top layer placed with the polyisocyanurate side facing down.

**Base Sheet:** One ply of All Weather/Empire Base Sheet, Glas-Base, Flexiglas Base, Flexiglas FR Base, Poly SMS, Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.





**Ply Sheet:** (Optional) One ply of All Weather/Empire Base Sheet, Glas-Base, Flexiglas Base, Flexiglas FR Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet (for use with a torched cap sheet only) self-adhered.

**Membrane:** One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic FR Cap Sheet, Flintlastic FR Cap Sheet CoolStar applied to the base sheet or ply sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Flintlastic FR Cap T or Flintlastic FR Cap T CoolStar torch adhered to base or ply sheet.

**Maximum Design Pressure:** See fastening requirements listed above.



**Membrane Type:** APP Modified  
**Deck Type 5I:** Cementitious Wood Fiber, Insulated  
**Deck Description:** Cementitious Wood Fiber  
**System Type A(3):** Anchor sheet mechanically fastened; all insulation layers adhered with approved asphalt

**All General and System limitations apply.**

**Anchor Sheet:** One ply of All Weather/Empire Base Sheet, Glas-Base, Flexiglas Base, Flexiglas FR Base mechanically attached to the deck as detailed below.

**Fastening #1:** Twin Loc-Nails spaced 7" o.c. in 4" side lap and two staggered rows in center of the sheet, 7" o.c.  
*(Maximum Design Pressure –60 psf., See General Limitation #7.)*

**Fastening #2:** Twin Loc-Nails spaced 9" o.c. in 4" side lap and two staggered rows in center of the sheet, 9" o.c.  
*(Maximum Design Pressure –60 psf., See General Limitation #7.)*

One or more layers of any of the following insulations:

| <u>Base Insulation Layer</u>  | <u>Insulation Fasteners</u><br><u>(Table 3)</u> | <u>Fastener</u><br><u>Density/ft<sup>2</sup></u> |
|---|---|--|
| ACFoam-II, ENRGY 3, FlintBoard ISO, Multi-Max-3, H-Shield<br>Minimum 1.5" thick | N/A   | N/A  |

**Note:** All insulation shall be adhered to the anchor sheet in full mopping of approved hot 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 may be used as a top layer placed with the polyisocyanurate side facing down.

**Base Sheet:** One ply of Black Diamond Base Sheet, self-adhered.

**Ply Sheet:** (Optional) One ply of All Weather/Empire Base Sheet, Glas-Base, Flexiglas Base, Flexiglas FR Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet self-adhered or Flintlastic STA torch adhered.

**Membrane:** One ply of Flintlastic FR Cap T or Flintlastic FR Cap T CoolStar, Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base sheet or ply sheet.

**Maximum Design Pressure:** See fastening requirements above.



**Membrane Type:** SBS Modified  
**Deck Type 5I:** Cementitious Wood Fiber, Insulated  
**Deck Description:** Cementitious Wood Fiber  
**System Type A(4):** Anchor sheet mechanically fastened; all insulation layers adhered with approved asphalt

**All General and System limitations apply.**

**Anchor Sheet:** One ply of Glas-Base, Flexiglas Base, Flexiglas FR Base or All Weather/Empire Base mechanically attached to the deck as detailed below.

**Fastening #1:** Twin Loc-Nails spaced 7" o.c. in 4" side lap and two staggered rows in center of the sheet, 7" o.c.  
*(Maximum Design Pressure –60 psf., See General Limitation #7.)*

**Fastening #2:** Twin Loc-Nails spaced 9" o.c. in 4" side lap and two staggered rows in center of the sheet, 9" o.c.  
*(Maximum Design Pressure –60 psf., See General Limitation #7.)*

One or more layers of any of the following insulations:

| <u>Base Insulation Layer</u>  | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|---|---|--|
| ACFoam-II, ENRGY 3, FlintBoard ISO, Multi-Max-3, H-Shield<br>Minimum 1.5" thick | N/A                                       | N/A  |

**Note:** All insulation shall be adhered to the anchor sheet in full mopping of approved hot 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 may be used as a top layer placed with the polyisocyanurate side facing down.

**Base Sheet:** One ply of Black Diamond Base Sheet self-adhered.

**Ply Sheet:** (Optional) One ply of All Weather/Empire Base Sheet, Glas-Base, Flexiglas Base, Flexiglas FR Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet (for use with a torched cap sheet only) self-adhered.

**Membrane:** One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap Sheet, Flintlastic FR Cap Sheet CoolStar, adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap T or Flintlastic FR Cap T CoolStar torch adhered to ply sheet.

**Maximum Design Pressure:** See fastening requirements listed above.



**Membrane Type:** APP Modified  
**Deck Type 5I:** Cementitious Wood Fiber, Non-Insulated  
**Deck Description:** Cementitious Wood Fiber  
**System Type E(1):** Base sheet mechanically fastened.

**All General and System limitations apply.**

**Base Sheet:** One ply of Glas-Base, Flexiglas Base, Flexiglas FR Base or All Weather/Empire Base mechanically fastened to the deck as detailed below:

**Fastening #1:** Twin Loc-Nails spaced 7" o.c. in 4" side lap and two staggered rows in center of the sheet, 7" o.c.  
*(Maximum Design Pressure –67.5 psf., See General Limitation #9.)*

**Fastening #2:** Twin Loc-Nails spaced 9" o.c. in 4" side lap and two staggered rows in center of the sheet, 9" o.c.  
*(Maximum Design Pressure –60 psf., See General Limitation #9.)*

**Ply Sheet:** (Optional) One ply of All Weather/Empire Base Sheet, Glas-Base, Flexiglas Base, Flexiglas FR Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet self-adhered or Flintlastic STA torch adhered.

**Membrane:** One ply of Flintlastic FR Cap T CoolStar or Flintlastic FR Cap T, Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base sheet or ply sheet.

**Surfacing:** (Required if no cap sheet is used) Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following:

1. Flood coat of hot asphalt with an application rate of 60 lbs./sq.  $\pm$  20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.
2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, APOC #212 Fibrated Aluminum Roof Coating at an application rate of 1½ gal./sq., or APOC #400 Sunbrite at an application rate of 3 gal./sq.

**Maximum Design Pressure:** See Fastening requirements above.



**Membrane Type:** SBS Modified  
**Deck Type 5I:** Cementitious Wood Fiber, Non-Insulated  
**Deck Description:** Cementitious Wood Fiber  
**System Type E(2):** Base sheet mechanically fastened.

**All General and System limitations apply.**

**Base Sheet:** One ply of GlasBase, Flexiglas Base, Flexiglas FR Base or All Weather/Empire Base mechanically fastened to the deck:

**Fastening #1:** Twin Loc-Nails spaced 7" o.c. in 4" side lap and two staggered rows in center of the sheet, 7" o.c.  
*(Maximum Design Pressure –67.5 psf., See General Limitation #9.)*

**Fastening #2:** Twin Loc-Nails spaced 9" o.c. in 4" side lap and two staggered rows in center of the sheet, 9" o.c.  
*(Maximum Design Pressure –60 psf., See General Limitation #9.)*

**Ply Sheet:** (Optional) One ply of All Weather/Empire Base Sheet, Glas-Base, Flexiglas Base, Flexiglas FR Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet (for use with a torched cap sheet only) self-adhered.

**Membrane:** One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic FR Cap Sheet, Flintlastic FR Cap Sheet CoolStar applied to the base sheet or ply sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Flintlastic FR Cap T or Flintlastic FR Cap T CoolStar torch adhered to base or ply sheet.

**Maximum Design Pressure:** See Fastening requirements above.



## 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 61G20-3 of the Florida Administrative Code.

**END OF THIS ACCEPTANCE**