MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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**DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)**
**BOARD AND CODE ADMINISTRATION DIVISION**

# NOTICE OF ACCEPTANCE (NOA)

**CertainTeed LLC.**
**20 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: CertainTeed Conventional Built-Up-Roof System 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 #20-0723.21 and consists of pages 1 through 10.
The submitted documentation was reviewed by Alex Tigera.

## ROOFING SYSTEM APPROVAL

**Category:** Roofing
**Sub-Category:** Built-Up Roofing
**Material:** Fiberglass
**Deck Type:** Cementitious Wood Fiber
**Maximum Design Pressure:** **-60 psf**

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

**TABLE 1**

| Product | Dimensions | Test Specification | Product Description |
|---|---|---|---|
| Flintglas Ply 4 | 36" x 164'7"; Roll weight: 40/55 lbs. (5 squares) | ASTM D 2178 Type IV UL Type G1 | Fiberglass, asphalt impregnated ply sheet. |
| Flintglas Premium Ply 6 | 39 3/8" x 164'7"; Roll weight: 40 lbs. (5 squares) | ASTM D 2178 Type VI UL Type G1 | Fiberglass, asphalt impregnated ply sheet. |
| Flintglas® MS Cap Sheet | 36" X 32'10"; Roll Weight: 78 lbs. (1 square) | ASTM D 3909 UL Type G3 | Asphalt impregnated and coated inorganic glass fiber surfaced with mineral granules used as the top ply in conventional built-up roof membranes. |
| Flintlastic Poly SMS Base Sheet | 39 3/8" x 64'3" | ASTM D 4601 Type II | SBS modified, polyester reinforced base/ply sheet. |
| Glasbase Base Sheet | 36" x 98'9"; Roll weight: 69 lbs. (3 squares) | ASTM D 4601 Type II | Asphalt coated, fiberglass base sheet. |
| All Weather/Empire Base Sheet | 36" x 65'10"; Roll weight: 86 lbs. (2 squares) | ASTM D 4601 Type II | SBS modified, fiberglass reinforced base/ply sheet. |
| Flintlastic Base 20 | 36" x 98'9"; Roll weight: 90 lbs. (3 squares) | ASTM D 6163 Grade S Type I | SBS modified, fiberglass reinforced base/ply sheet. |
| Flintlastic Ultra Poly SMS Base Sheet | 39 3/8" x 32'10" | ASTM D 6164 Grade S Type I | SBS modified, polyester reinforced base/ply sheet. |

## APPROVED INSULATIONS:

**TABLE 2**

| Product Name | Product Description | Manufacturer (With Current NOA) |
|---|---|---|
| FlintBoard ISO | Polyisocyanurate foam insulation | CertainTeed LLC. |
| FlintBoard$_H$ ISO | Polyisocyanurate foam insulation | CertainTeed LLC. |
| ACFoam-II | Polyisocyanurate foam insulation | Atlas Roofing Corporation |
| ISO 95+ GL | Polyisocyanurate foam insulation | Firestone Building Products Company, LLC. |
| H-Shield | Polyisocyanurate foam insulation | Hunter Panels, a div. of Carlisle Const. Materials |
| DensDeck | Water resistant gypsum board | Georgia Pacific Gypsum LLC. |
| DensDeck Prime | Water resistant gypsum board | Georgia Pacific Gypsum LLC. |
| ENRGY 3 | Polyisocyanurate foam insulation | Johns Manville Corp. |
| ENRGY 3 25 PSI | Polyisocyanurate foam insulation | Johns Manville Corp. |
| Ultra-Max | Polyisocyanurate roof insulation | RMax Operating, LLC. |
| Structodek High Density Fiberboard Roof Insulation | High Density Wood Fiber insulation board. | Blue Ridge Fiberboard, Inc. |
| EnergyGuard™ Perlite Roof Insulation | Perlite insulation board | GAF |
| Fesco Board | Expanded perlite and fiber insulation | Johns Manville Corp. |

## APPROVED FASTENERS:

**TABLE 3**

| Fastener Number | Product Name | Product Description | Dimensions | Manufacturer (With Current NOA) |
|---|---|---|---|---|
| 1. | Polymer Gyptec | Glass reinforced Nylon insulation fastener for gypsum & CWF decks. | | OMG, Inc. |
| 2. | Polymer Gyptec Insulation Plate | Galvalume stress plate | 3" round | OMG, Inc. |
| 3. | Lite Deck | Insulation fastener for CWF and Gypsum decks. | | OMG, Inc. |
| 4. | Lite Deck Plate | Galvalume stress plate | 3" round | OMG, Inc. |
| 5. | Trufast Twin Loc-Nail Assembled Fastener | Base ply fastening systems for lightweight concrete, gypsum or cementitious wood fiber decks | Various | Altenloh, Brinck & Co. U.S., Inc. |

## EVIDENCE SUBMITTED:

| Test Agency/Identifier | Name | Report | Date |
|---|---|---|---|
| Trinity\|ERD | TAS 117 (B) | 3503.10.06 | 10/10/06 |
| | TAS 117 (B) | O6490.04.07-R1 | 06/27/07 |
| | TAS 114 | 3521.07.04-R1 | 10/26/07 |
| | TAS 117 (B)/ ASTM D6862 | C8500SC.11.07 | 11/30/07 |
| | TAS 114 | C8370.08.08 | 08/19/08 |
| | TAS 117 (B) | C35500.02.11 | 02/09/11 |
| | ASTM D4601 | C40050.09.12-1 | 09/28/12 |
| | ASTM D3909 | C44200.03.13 | 03/22/13 |
| | ASTM D2178 | C47250.03.14 | 03/26/14 |
| | ASTM D1876 | C35460.05.11-R1 | 05/20/15 |
| | ASTM D3909 | CTR-SC11145.09.16-2A | 09/19/16 |
| | ASTM D4601 | CTR-SC11145.09.16-3A | 09/19/16 |
| | ASTM D3909 | CTR-SC11145.09.16-2B | 09/19/16 |
| | ASTM D4897 | CTR-SC11145.09.16-4 | 09/19/16 |
| Factory Mutual Research Corp. | FM 4470 | 3Y8A1.AM | 03/23/96 |
| | FM 4454 | 0D3A3.AM | 04/04/97 |
| | FM 4470 | 1D7A4.AM | 11/09/98 |
| | FM 4470 | 2D0A0.AM | 12/23/98 |
| Underwriters Laboratories, Inc. | UL 790 | R11656 | 01/11/13 |
| PRI Construction Materials Technologies LLC | ASTM D6163 | CTC-066-02-01 | 08/09/11 |
| | ASTM D2178 | CTC-123-02-01 | 03/13/12 |
| | ASTM D4601 | CTC-124-02-01 | 03/13/12 |
| | ASTM D4601 | CTC-127-02-01 | 03/13/12 |
| | ASTM D6164 | CTC-190-02-01 | 12/02/13 |
| NEMO \| etc. | FM 4474 & TAS 114 | 4L-CTR-18-002.09.18-1 | 09/21/18 |

## APPROVED ASSEMBLIES

**Deck Type 5I:** Cementitious Wood Fiber, Insulated

**Deck Description:** Cementitious wood fiber

**System Type B:** Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

**All General and System limitations apply.**

| **Base Insulation Layer** | **Insulation Fasteners Table 3** | **Fastener Density/ft²** |
|---|---|---|
| **ACFoam-II, FlintBoard ISO Minimum 1.3" thick** | **1 or 3** | **1:4 ft²** |
| **ENRGY 3, ENRGY 3 25 PSI, H-Shield, FlintBoard$_H$ ISO Minimum 1.4" thick** | **1 or 3** | **1:3 ft²** |
| **Structodek High Density Fiberboard Roof Insulation Minimum ½" thick** | **1 or 3** | **1:2 ft²** |
| **Fesco Board or EnergyGuard™ Perlite Roof Insulation Minimum ¾" thick** | **1 or 3** | **1:2 ft²** |

**Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details)**.

| **(Optional) Top Insulation Layer** | **Insulation Fasteners Table 3** | **Fastener Density/ft²** |
|---|---|---|
| **Any of the insulations listed for Base Layer, above.** | | |
| **DensDeck, DensDeck Prime Minimum ¼" thick** | **N/A** | **N/A** |
| **Structodek High Density Fiberboard Roof Insulation Minimum ½" thick** | **N/A** | **N/A** |
| **Fesco Board or EnergyGuard™ Perlite Roof Insulation Minimum ¾" thick** | **N/A** | **N/A** |

**Note: Optional top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.**

**Base Sheet: (Optional)** Install one ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Glasbase Base Sheet directly over the top layer of insulation. Adhere with any approved mopping asphalt at an application rate of 20-35 lbs./sq.

| | |
|---|---|
| **Ply Sheet:** | One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or two or more plies of Flintglas Ply Sheet 4 or Flintglas Premium Ply 6 adhered in a full mopping of approved asphalt at an application rate of 20-35 lbs./sq. |
| **Cap Sheet: (Optional)** | One ply of Flintglas MS Cap Sheet adhered in a full mopping of approved asphalt at an application rate of 20-35 lbs./sq. |
| **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:<br>1. Flood coat of hot asphalt with an application rate of 60 lbs./sq. ± 20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.<br>2. A two part coating consisting of a base coat of APOC #300 Non-Fibered Emulsion at rate of 3 gal./sq.; surfaced with 1 gal./sq. APOC#212 Fibered Aluminum Roof Coating. |
| **Maximum Design Pressure:** | -45 psf (See General Limitation #9) |

**Deck Type 5I:** Cementitious Wood Fiber, Insulated

**Deck Description:** Cementitious wood fiber

**System Type C:** All layers of insulation simultaneously attached.

**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, FlintBoard$_H$ ISO, ACFoam-II, ENRGY 3, Ultra-Max, H-Shield Minimum 1" thick** | **N/A** | **N/A** |
| **Structodek High Density Fiberboard Roof Insulation Minimum ½" thick** | **N/A** | **N/A** |
| **Fesco Board or EnergyGuard™ Perlite Roof Insulation Minimum ¾" 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.**

| **Top Insulation Layer** | **Insulation Fasteners Table 3** | **Fastener Density/ft²** |
|---|---|---|
| **ENRGY 3, ENRGY 3 25 PSI, ISO 95+ GL, H-Shield, FlintBoard$_H$ ISO Minimum 1.4" thick** | **1 or 3** | **1:3 ft²** |
| **Structodek High Density Fiberboard Roof Insulation Minimum ½" thick** | **1 or 3** | **1:2 ft²** |
| **Fesco Board or EnergyGuard™ Perlite Roof Insulation Minimum ¾" thick** | **1 or 3** | **1:2 ft²** |
| **DensDeck, DensDeck Prime Minimum ¼" thick** | **1 or 3** | **1:1.77 ft²** |

**Base Sheet: (Optional)** Install one ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Glasbase Base Sheet directly over the top layer of insulation. Adhere with any approved mopping asphalt at an application rate of 20-35 lbs./sq.

**Ply Sheet:** One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or two or more plies of Flintglas Ply Sheet 4 or Flintglas Premium Ply 6 adhered in a full mopping of approved asphalt at an application rate of 20-35 lbs./sq.

**Cap Sheet: (Optional)**

One ply of Flintglas MS Cap Sheet adhered in a full mopping of approved asphalt at an application rate of 20-35 lbs./sq.

**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. ± 20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.
2. A two part coating consisting of a base coat of APOC #300 Non-Fibered Emulsion at rate of 3 gal./sq.; surfaced with 1 gal./sq. APOC#212 Fibered Aluminum Roof Coating.

**Maximum Design Pressure:**

-45 psf (See General Limitation #9)

**Deck Type 5:** Cementitious Wood Fiber, Non-Insulated

**Deck Description:** Cementitious wood fiber

**System Type E:** Base sheet mechanically fastened to substrate

**All General and System limitations apply.**

**Base Sheet:** One ply of All Weather/Empire Base Sheet, y attached as detailed below.

**Fastening:** Base sheet attached with 1.8” Trufast Twin Loc-Nail Assembled Fastener at a 4" side lap 6" o.c. and two rows staggered in the center of the sheet, 10" o.c.

**Ply Sheet:** One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or two or more plies of Flintglas Ply Sheet 4 or Flintglas Premium Ply 6 adhered in a full mopping of approved asphalt at an application rate of 20-35 lbs./sq.

**Cap Sheet: (Optional)** One ply of Flintglas MS Cap Sheet adhered in a full mopping of approved asphalt at an application rate of 20-35 lbs./sq.

**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. ± 20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.
2. A two part coating consisting of a base coat of APOC #300 Non-Fibered Emulsion at rate of 3 gal./sq.; surfaced with 1 gal./sq. APOC#212 Fibered Aluminum Roof Coating.

**Maximum Design Pressure:** -60 psf (See General Limitation #7)

## 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**