

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

NOTICE OF ACCEPTANCE (NOA)

PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 Miami. Florida 33175-2474

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MIAMI-DADE COUNTY

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 Systems over Wood Decks.

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

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

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

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

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

Sterier

This NOA revises NOA No. 17-1003.15 and consists of pages 1 through 22. The submitted documentation was reviewed by Alex Tigera.

MIAMI-DADE COUNTY
APPROVED

NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20 Page 1 of 22

ROOFING SYSTEM APPROVAL

Category: Roofing

Sub-Category: Built-Up Roofing

Material:FiberglassDeck Type:WoodMaximum Design Pressure:-60 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

| Product | Dimensions | Test Specification | Product <u>Description</u> |
|---|---|--|--|
| Black Diamond TM Base Sheet | 36" x 68'7"; Roll weight: 78 lbs. (2 squares) | ASTM D 1970 | Self-adhering fiberglass reinforced modified bitumen base sheet |
| Flintlastic Ultra Glass SA | 39 ³ / ₈ " x 33'11" | ASTM D 1970 | Self-adhering, fiberglass reinforced, SBS modified bitumen base/ply sheet. |
| 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 CoolStar | 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. Covered with reflective CoolStar Coating. |
| 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. |
| Yosemite® Venting Base Sheet | 39 3/8" x 32'10" | ASTM D 3909 ASTM D 4897 UL Type G3 | Mineral surfaced fiberglass reinforced buffer sheet. |
| Flintlastic Poly SMS Base Sheet | 39 ³ / ₈ " x 64'3" | ASTM D 4601 Grade S 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 | 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. |
| | | | |

Test

Product



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20 Page 2 of 22

| Flexiglas Base Sheet | 36" x 98'9"; Roll weight: 90 lbs. (3 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

| <u>Product Name</u> | Product Description | <u>Manufacturer</u> (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 |
| H-Shield | Polyisocyanurate foam insulation | Hunter Panels, LLC. |
| DensDeck, DensDeck Prime | Water resistant gypsum board | Georgia Pacific Gypsum LLC |
| ENRGY 3, ENRGY 3 25 PSI | Polyisocyanurate foam insulation | Johns Manville Corp. |
| Ultra-Max, Multi-Max FA-3 | Polyisocyanurate foam insulation | RMax Operating, LLC. |
| Structodek High Density Fiberboard Roof Insulation | High Density Wood Fiber insulation board. | Blue Ridge Fiberboard, Inc. |
| EnergyGuard TM Perlite Roof Insulation | Perlite insulation board | GAF |
| Fesco Board | Expanded perlite and fiber insulation | Johns Manville Corp. |



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20 Page 3 of 22

APPROVED FASTENERS:

TABLE 3

| <u>Fastener</u> | Product Name | Product | Dimensions | Manufacturer (With Current NOA) |
|-----------------|--|--|--|--------------------------------------|
| <u>Number</u> | <u>Name</u> | <u>Description</u> | Dimensions | (With Current NOA) |
| 1. | Dekfast DF-#14 PH3 & Dekfast DF-#15 PH3 | Insulation fastener | | SFS Group USA |
| 2. | Dekfast PLT-H-2-7/8 | Galvalume AZ50 steel plate | 2 ⁷ / ₈ " x 3 ½" | SFS Group USA |
| 3. | Dekfast PLT-P-R-3 | Polypropylene plate | 3" x 3 1/4" | SFS Group USA |
| 4. | #12 Standard Roofgrip & #14 Roofgrip | Insulation fastener for wood and steel. | | OMG, Inc. |
| 5. | AccuTrac Hextra | Insulation fastener for wood and steel | | OMG, Inc. |
| 6. | 3 in. Ribbed Galvalume Plate | Galvalume stress plate. | 3" round | OMG, Inc. |
| 7. | AccuTrac Plate | Galvalume stress plate. | 3" square | OMG, Inc. |
| 8. | 3 in. Round Metal Plate | Galvalume AZ50 steel plate | 3" round | OMG, Inc. |
| 9. | Trufast #12 DP & Trufast #14 HD Fastener | Insulation fastener for wood and steel decks | | Altenloh, Brinck & Co. U.S., Inc. |
| 10. | Trufast 3" Metal Insulation Plate | Galvalume AZ50 steel plate | 3" round | Altenloh, Brinck & Co. U.S., Inc. |
| 11. | FlintFast #12 & #14 | Insulation fastener for wood and steel decks | | CertainTeed LLC. |



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20 Page 4 of 22

EVIDENCE SUBMITTED:

| Test Agency/Identifier | <u>Name</u> | <u>Report</u> | Date |
|---|---------------------------------|----------------------|-------------|
| Trinity ERD | TAS 117 (B) | 3503.10.06 | 10/10/06 |
| • • | TAS 117 (B) | O6490.04.07-R1 | 06/27/07 |
| | TAS 117 (B)/ ASTM D6862 | C8500SC.11.07 | 11/30/07 |
| | FM 4470 / TAS 114 | C8370.08.08-R1 | 10/05/09 |
| | ASTM Physical Properties | C10080.09.08-R4 | 03/25/10 |
| | TAS 117 (B) | C35500.02.11 | 02/09/11 |
| | FM 4470 / TAS 114 | 3513.08.02-R1 | 03/17/11 |
| | FM 4470 / TAS 114 | 03515.07.03-1-R1 | 06/27/12 |
| | ASTM D4601 | C40050.09.12-1 | 09/28/12 |
| | ASTM D1970 | C40050.09.12-2 | 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 D3909 | CTR-SC11145.09.16-2B | 09/19/16 |
| | ASTM D4601 | CTR-SC11145.09.16-3A | 09/19/16 |
| | ASTM D4897 | CTR-SC11145.09.16-4 | 09/19/16 |
| Factory Mutual Research Corp. | FMRC 4470 | J.I. #3Y8A1.AM | 03/23/96 |
| | FMRC 4454 | J.I. 0D3A3.AM | 04/04/97 |
| | FMRC 4470 | J.I. 1D7A4.AM | 11/09/98 |
| | FMRC 4470 | J.I. 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 |
| Teemicrogres EEC | 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 |
| | ASTM D1970 | CTC-199-02-01 | 01/22/14 |
| | | | |



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20 Page 5 of 22

APPROVED ASSEMBLIES:

Deck Type 1I: Wood, Insulated

Deck Description: 19/32" or greater plywood or wood plank

System Type A(1): Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

Anchor sheet: All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS

Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet or Yosemite Venting

Base Sheet mechanically attached as detailed below.

Fastening: Anchor sheet shall be lapped 4" and fastened with approved roofing nails and tin caps 9" o.c. in

the lap and two rows staggered in the center of the sheet 12" o.c

One or more layers of any of the following insulations.

| Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--|--------------------------------|----------------------------------|
| FlintBoard _H ISO, ENRGY 3, Ultra-Max, H-Shield Minimum 1" thick | N/A | N/A |
| Fesco Board or EnergyGuard TM Perlite Roof Insulation Minimum ³ / ₄ " thick | N/A | N/A |
| Structodek High Density Fiberboard Roof Insulation Minimum ½" thick | N/A | N/A |
| DensDeck, Dens-Deck Prime Minimum 1/4" 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 ft². 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: Install one ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, (Optional) Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Glasbase Base

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, Flexiglas 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.



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20 Page 6 of 22 **Cap Sheet:** (Optional)

One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar 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. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
- 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)



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20

Page 7 of 22

Deck Description: 19/32" or greater plywood or wood plank attached using approved nails spaced 6" o.c. at wood

joists spaced maximum 24" o. c

System Type A(2): Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

Anchor sheet: All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Poly SMS Base Sheet,

Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Yosemite Venting Base Sheet or

Flintglas Premium Ply 6 mechanically attached as detailed below.

Fastening: Anchor sheet shall be lapped 4" and fastened with 11 ga. annular ring shank nails and approved

tin caps 8" o.c. in the lap and three rows staggered in the center of the sheet 8" o.c.

One or more layers of any of the following insulations.

| Insulation Layer | Insulation Fasteners | Fastener Density/ft ² | | | | |
|--|--|----------------------------------|--|--|--|--|
| | <u>(Table 3)</u> | | | | | |
| ENRGY 3, Multi-Max FA-3, ACFoam-II, F | lintBoard ISO, FlintBoard _H ISO | O, H-Shield | | | | |
| Minimum 1.5" thick | N/A | N/A | | | | |
| Fesco Board or EnergyGuard TM Perlite Roo | Fesco Board or EnergyGuard TM Perlite Roof Insulation | | | | | |
| Minimum ¾" thick | N/A | N/A | | | | |
| Structodek High Density Fiberboard Roof I | nsulation | | | | | |
| Minimum ½" thick | N/A | N/A | | | | |
| DensDeck, DensDeck Prime | | | | | | |
| Minimum 1/4" 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 ft². 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: Install one ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, (Optional) 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 20-40 lbs./sq.

Ply Sheet: One ply of All Weather/Empire Base Sheet, Flexiglas 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 20-40 lbs./sq.



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20

Page 8 of 22

Cap Sheet: (Optional)

One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar 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. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
- 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: -52.5 psf (See General Limitation #7)



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20 Page 9 of 22

Deck Description: 19/32" or greater plywood or wood plank attached using approved nails spaced 6" o.c. at wood

joists spaced maximum 24" o. c

System Type A(3): Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

Anchor sheet: All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Poly SMS Base Sheet,

Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Yosemite Venting Base Sheet or

Flintglas Premium Ply 6 mechanically attached as detailed below.

Fastening: Anchor sheet shall be lapped 4" and fastened with 11 ga. annular ring shank nails and approved

tin caps 8" o.c. in the lap and three rows staggered in the center of the sheet 8" o.c.

One or more layers of any of the following insulations.

Insulation LayerInsulation Fasteners
(Table 3)Fastener
Density/ft²

ENRGY 3, Multi-Max FA-3, ACFoam-II, FlintBoard ISO, FlintBoard_H ISO, H-Shield 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 ft². 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 or Flintlastic Ultra Glass SA self-adhered.

Ply Sheet: One ply of All Weather/Empire Base Sheet, Flexiglas 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 20-40 lbs./sq.

Cap Sheet: One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping of

(**Optional**) approved asphalt at an application rate of 20-40 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. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of

approved asphalt at 60 lb./sq.

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: -52.5 psf (See General Limitation #7)



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20 Page 10 of 22

Deck Description: 19/32" or greater plywood or wood plank attached using approved nails spaced 4" o.c. at

wood joists spaced maximum 24" o. c.

System Type A(4): Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

Anchor Sheet All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Poly SMS Base Sheet,

Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Yosemite Venting Base Sheet

or Flintglas Premium Ply 6 mechanically attached as detailed below.

Fastening: Anchor sheet shall be lapped 4" and fastened with 11 ga. annular ring shank nails and

approved tin caps 8" o.c. in the lap and three rows staggered in the center of the sheet 8" o.c.

One or more layers of any of the following insulations.

| <u>Insulation Layer</u> | Insulation Fasteners (Table 3) | <u>Fastener</u> <u>Density/ft²</u> |
|--|---------------------------------|---------------------------------------|
| ENRGY 3, Multi-Max FA-3, ACFoam-II, FlintBoard ISO, FlintBo | oard _H ISO, H-Shield | |
| Minimum 1.5" thick | N/A | N/A |
| Fesco Board or EnergyGuard TM Perlite Roof Insulation | | |
| Minimum 3/4" thick | N/A | N/A |
| Structodek High Density Fiberboard Roof Insulation | | |
| Minimum ½" thick | N/A | N/A |
| DensDeck, DensDeck Prime | | |
| Minimum ¼" 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 ft². 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: Install one ply of All Weather/Empire, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic (Optional) Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet

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 20-40 lbs./sq.

Ply Sheet: One ply of All Weather/Empire Base Sheet, Flexiglas 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 20-40 lbs./sq.



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20 Page 11 of 22 **Cap Sheet:** (Optional)

One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping of approved asphalt at an application rate of 20-40 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. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
- 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)



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20 Page 12 of 22

¹⁹/₃₂" or greater plywood or wood plank. **Deck Description:**

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

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 |
|---|--------------------------------|-------------------------|
| ACFoam-II, FlintBoard ISO Minimum 1.3" thick | 1, 4, 5 | 1:3 ft ² |
| ENRGY 3, H-Shield, FlintBoard _H ISO Minimum 1.4" thick | 1, 4, 5, 9 or 11 | 1:3 ft ² |
| Ultra-Max Minimum 1.5" thick | 1, 4, 5, 9 or 11 | 1:2.9 ft ² |
| Fesco Board or EnergyGuard TM Perlite Roof Insulation Minimum ¾" thick | 1, 4, 5, 9 or 11 | 1:2 ft ² |
| Structodek High Density Fiberboard Roof Insulation Minimum ½" thick | 1, 4, 5, 9 or 11 | 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).

| Top Insulation Layer (Optional) | Insulation Fasteners | Fastener |
|---------------------------------|-----------------------------|-------------------------|
| | (Table 3) | Density/ft ² |

Any of the insulations listed for Base Layer, above.

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: | Install one ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, |
|--------------------|--|
| (Optional) | Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Glasbase Base |
| | Chart dimently, even the ten leven of ingulation. A dhore with any annuous described as a sub-slt at |

Sheet directly over the top layer of insulation. Adhere with any approved mopping asphalt at

an application rate of 20-35 lbs./sq.



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20

Page 13 of 22

Ply Sheet: One ply of All Weather/Empire Base Sheet, Flexiglas 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.

One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping of **Cap Sheet:** (Optional)

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. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.

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)



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20

Page 14 of 22

Deck Description: 19/32" or greater plywood or wood plank.

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.

| Base Insulation Layer (Optional) | Insulation Fasteners (Table 3) | <u>Fastener</u> <u>Density/ft²</u> |
|---|-----------------------------------|---------------------------------------|
| ACFoam II, ENRGY 3, Ultra-Max, FlintBoard ISO, FlintBoard _H IS | O, H-Shield | |
| Minimum 1" thick | N/A | N/A |
| Fesco Board or EnergyGuard TM Perlite Roof Insulation | | |
| Minimum 3/4" thick | N/A | N/A |
| Structodek High Density Fiberboard Roof Insulation | | |
| Minimum ½" thick | N/A | N/A |

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

| Top Insulation Layer | Insulation Fasteners (Table 3) | <u>Fastener</u> <u>Density/ft²</u> |
|---|--------------------------------|---------------------------------------|
| ACFoam-II, FlintBoard ISO | | |
| Minimum 1.3" thick | 1, 4, 5 | 1:3 ft ² |
| FlintBoard _H ISO, ENRGY 3, H-Shield | | |
| Minimum 1.4" thick | 1, 4, 5, 9 or 11 | 1:3 ft ² |
| Ultra-Max | | |
| Minimum 1.5" thick | 1, 4, 5, 9 or 11 | 1:2.9 ft ² |
| Fesco Board or EnergyGuard™ Perlite Roof Insulation | | |
| Minimum ¾" thick | 1, 4, 9 or 11 | 1:2 ft ² |
| Structodek High Density Fiberboard Roof Insulation | | |
| Minimum ½" thick | 1, 4, 5, 9 or 11 | 1:2 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. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: Install one ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, (Optional) 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 20-40 lbs./sq.

Ply Sheet: One ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20,



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20 Page 15 of 22 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 20-40 lbs./sq.

Cap Sheet: (Optional)

One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping of approved asphalt at an application rate of 20-40 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. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
- 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)



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20 Page 16 of 22

Deck Description: 19/32" or greater plywood or wood plank.

System Type D: 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.

| Base Insulation Layer (Optional) | Insulation Fasteners (Table 3) | <u>Fastener</u> <u>Density/ft²</u> |
|--|--|--|
| ACFoam-II, ENRGY 3, ENRGY 3 25 PSI, FlintBoard ISO, Flint Minimum 1.5" thick | tBoard _H ISO, H-Shield N/A | N/A |
| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft² |
| Fesco Board or EnergyGuard TM Perlite Roof Insulation Minimum ¾" thick | N/A | N/A |
| Structodek High Density Fiberboard Roof Insulation Minimum ½" thick | N/A | N/A |
| DensDeck, DensDeck Prime Minimum ¼" thick | N/A | N/A |

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane 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.

Base Sheet: All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly

SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet or Yosemite

Venting Base Sheet mechanically attached as detailed below.

Fastening: OMG #12 Standard Roofgrip or #14 Roofgrip fasteners with OMG 3 in. Round Metal Plates,

Dekfast DF-#14 PH3 or Dekfast DF-#15 PH3 with Dekfast PLT-H-2-7/8 Plates, Trufast #12 DP or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates or FlintFast #12 & #14 Fasteners with FlintFast 3" Insulation Plates spaced 4" o.c. at a 4" side lap and two staggered

rows in the center of the sheet, 24" o.c.

Ply Sheet: One ply of All Weather/Empire Base Sheet, Flexiglas 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: One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping of

(**Optional**) approved asphalt at an application rate of 20-35 lbs./sq.



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20 Page 17 of 22 **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. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
- 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)



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20

Page 18 of 22

Deck Description: 19/32" or greater plywood or wood plank.

System Type E(1): Base sheet mechanically attached.

All General and System Limitations apply.

Base Sheet: All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly

SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Yosemite Venting Base Sheet or Flintglas Premium Ply 6 mechanically attached as detailed below.

Fastening: Base sheet shall be lapped 4" and fastened with approved roofing nails and tin caps 9" o.c. in

the lap and two rows staggered in the center of the sheet 12" o.c.

Ply Sheet: One ply of All Weather/Empire Base Sheet, Flexiglas 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: One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar 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. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of

approved asphalt at 60 lb./sq.

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

(Optional)

Pressure: -45 psf (See General Limitation #9)



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20

Page 19 of 22

Deck Description: 19/32" or greater plywood or wood plank attached using approved nails spaced 6" o.c. at wood

joists spaced maximum 24" o. c.

System Type E(2): Base sheet mechanically attached.

All General and System Limitations apply.

Base Sheet: All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Poly SMS Base Sheet,

Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Yosemite Venting Base Sheet or

Flintglas Premium Ply 6 mechanically attached as detailed below

Fastening: Base sheet shall be lapped 4" and fastened with 11 ga. annular ring shank nails and approved

tin caps 8" o.c. in the lap and three rows staggered in the center of the sheet 8" o.c

Ply Sheet: One ply of All Weather/Empire Base Sheet, Flexiglas 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: One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping of

(Optional) 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. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of

approved asphalt at 60 lb./sq.

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: -52.5 psf (See General Limitation #7)



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20

Page 20 of 22

Deck Description: 19/32" or greater plywood or wood plank attached using approved nails spaced 4" o.c. at wood

joists spaced maximum 24" o. c.

System Type E(3): Base sheet mechanically attached.

All General and System Limitations apply.

Base Sheet: All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Poly SMS Base Sheet,

Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Yosemite Venting Base Sheet or

Flintglas Premium Ply 6 mechanically attached as detailed below

Fastening: Base sheet shall be lapped 4" and fastened with 11 ga. annular ring shank nails and approved tin

caps 8" o.c. in the lap and three rows staggered in the center of the sheet 8" o.c

Ply Sheet: One ply of All Weather/Empire Base Sheet, Flexiglas 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 20-40 lbs./sq.

Cap Sheet: One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping of

(**Optional**) approved asphalt at an application rate of 20-40 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. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of

approved asphalt at 60 lb./sq.

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)



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20 Page 21 of 22

WOOD DECK SYSTEM LIMITATIONS:

1. A slip sheet is required with Ply 4 and Ply 6 when used as a mechanically fastened base or anchor sheet.

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



NOA No.: 20-0723.19 Expiration Date: 06/19/23 Approval Date: 09/17/20 Page 22 of 22