MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

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

# NOTICE OF ACCEPTANCE (NOA)

**GAF**
**1 Campus Drive**
**Parsippany, NJ 07054**

## 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: GAF Liberty™ SBS Self-Adhering Modified Bitumen Roofing Systems Over Steel 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 and revises NOA No. 22-0107.03and consists of pages 1 through 9.
The submitted documentation was reviewed by Jorge L. Acebo.

## ROOFING SYSTEM APPROVAL

**Category:** Roofing
**Sub-Category:** Modified Bitumen
**Material:** APP/SBS
**Deck Type:** Steel
**Maximum Design Pressure:** -60 psf.

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

**TABLE 1**

| Product | Dimensions | Test Specification | Product Description |
|---|---|---|---|
| Liberty™ SBS Self-Adhering Base/Ply Sheet | 39.375" x 66' | ASTM D4601 | Self-adhered, SBS modified base or ply sheet with glass reinforced mat. |
| Ruberoid® SBS Heat-Weld™ 25 | 39.37" (1 meter) wide | ASTM D6163 | SBS modified asphalt base sheet reinforced with a glass fiber mat and smooth surfaced. |
| Ruberoid® SBS Heat-Weld™ Smooth | 39.37" (1 meter) wide | ASTM D6164 | Non-woven polyester mat coated with SBS polymer-modified asphalt and smooth surfaced. |
| Ruberoid® SBS Heat-Weld™ Granule | 39.37" (1 meter) wide | ASTM D6164 | Non-woven polyester mat coated with SBS polymer-modified asphalt and surfaced with mineral granules. |
| Ruberoid® SBS Heat-Weld™ 170 FR | 39.37" (1 meter) wide | ASTM D6164 | Non-woven polyester mat coated with fire retardant SBS polymer-modified asphalt and surfaced with mineral granules. |
| Ruberoid® SBS Heat-Weld™ Plus | 39.37" (1 meter) wide | ASTM D6164 | Non-woven polyester mat coated with SBS polymer-modified asphalt and surfaced with mineral granules. |
| Ruberoid® SBS Heat-Weld™ Plus FR | 39.37" (1 meter) wide | ASTM D6164 | Non-woven polyester mat coated with fire retardant SBS polymer-modified asphalt surfaced with mineral granules. |
| Ruberoid® EnergyCap™ SBS Heat-Weld™ Plus FR | 39.37" (1 meter) wide | ASTM D6164 | Non-woven polyester mat coated with fire retardant SBS polymer-modified asphalt and surfaced with mineral granules with factory applied EnergyCote™. |
| Ruberoid® Torch Smooth | 39.37" (1 meter) wide | ASTM D6222 | Non-woven polyester mat coated with APP modified asphalt and smooth surfaced. |

| Product | Dimensions | Test Specification | Product Description |
|---|---|---|---|
| Tri-Ply® TP-4 | 39.37" (1 meter) wide | ASTM D6222 | Non-woven polyester mat coated with APP modified asphalt and smooth surfaced. |
| Ruberoid® Torch Granule | 39.37" (1 meter) wide | ASTM D6222 | Non-woven polyester mat coated with APP modified asphalt and surfaced with mineral granules. |
| Tri-Ply® TP-4G | 39.37" (1 meter) wide | ASTM D6222 | Non-woven polyester mat coated with APP modified asphalt and surfaced with mineral granules. |
| Ruberoid® Torch FR | 39.37" (1 meter) wide | ASTM D6222 | Non-woven polyester mat coated with fire retardant polymer modified asphalt surfaced with mineral granules. |
| Ruberoid® EnergyCap™ Torch Plus FR | 39.37" (1 meter) wide | ASTM D6222 | APP modified cap membrane with a torch grade bottom surface and a mineral granular top surface coated with factory applied EnergyCote™. |
| Ruberoid® EnergyCap™ Torch Granule FR | 39.37" (1 meter) Wide | ASTM D6222 | APP modified cap membrane with a torch grade bottom surface and a mineral granular top surface coated with factory applied EnergyCote™. |
| GAFGLAS® Mineral Surfaced Cap Sheet | 39.37" (1 meter) wide | ASTM D3909 | Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules. |
| Tri-Ply® Mineral Surfaced Cap Sheet | 39.37" (1 meter) wide | ASTM D3909 | Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules. |
| GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet | 39.4" (1 meter) wide | ASTM D3909 | Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules and factory applied EnergyCote™. |
| Topcoat® Surface Seal SB | 5 gallons | ASTM D6083 | Solvent based sprayable thermoplastic rubber sealant designed to protect and restore aged roof surfaces and to increase a roof's reflectivity. |
| Topcoat® Membrane | 1,5 or 55 gallons | ASTM D6083 | An acrylic, water based elastomeric membrane system designed to protect various types of roofing surfaces. |
| Topcoat® MB Plus | 5 or 55 gallons | Proprietary | Water based, low VOC primer designed to block asphalt bleed-through. |

## APPROVED INSULATIONS:

**TABLE 2**

| Product Name | Product Description | Manufacturer (With Current NOA) |
|---|---|---|
| EnergyGuard™ Polyiso Insulation | Polyisocyanurate foam insulation | GAF |
| EnergyGuard™ Tapered Polyiso Insulation | Polyisocyanurate foam insulation | GAF |
| EnergyGuard™ RA Polyiso Insulation | Polyisocyanurate foam insulation | GAF |
| EnergyGuard™ RA Tapered Polyiso Insulation | Polyisocyanurate foam insulation | GAF |
| EnergyGuard™ RH Polyiso Insulation | Polyisocyanurate foam insulation | GAF |
| EnergyGuard™ RH Tapered Polyiso Insulation | Polyisocyanurate foam insulation | GAF |
| EnergyGuard™ RN Polyiso Insulation | Polyisocyanurate foam insulation | GAF |
| EnergyGuard™ RN Tapered Polyiso Insulation | Polyisocyanurate foam insulation | GAF |
| EnergyGuard™ Perlite Roof Insulation | Perlite insulation board | GAF |
| DensDeck® Roof Board | Gypsum board | Georgia-Pacific Gypsum LLC |
| DensDeck® Prime® Roof Board | Gypsum board | Georgia-Pacific Gypsum LLC |
| Securock® Gypsum-Fiber Roof Board | Gypsum board | United States Gypsum Corporation |
| Securock® Glass-Mat Roof Board | Gypsum board | United States Gypsum Corporation |

## APPROVED FASTENERS:

**TABLE 3**

| Fastener Number | Product Name | Product Description | Dimensions | Manufacturer (With Current NOA) |
|---|---|---|---|---|
| 1. | Drill-Tec™ #12 Fasteners | Carbon steel fastener used in steel or wood decks. | various | GAF |
| 2. | Drill-Tec™ #14 Fasteners | Carbon steel fastener used in steel, wood or concrete decks. | various | GAF |
| 3. | Drill-Tec™ XHD Fastener | Carbon steel extra heavy duty fastener used in steel decks. | various | GAF |
| 4. | Drill-Tec™ 3" Standard Steel Plate | Round galvalume stress plate used with Drill-Tec™ fasteners. | 3” round | GAF |
| 5. | Drill-Tec™ 3" Steel Plate | Round galvalume plated steel stress plate with reinforced ribs for use with Drill-Tec™ fasteners. | 3” round | GAF |
| 6. | Drill-Tec™ AccuTrac® Flat Plate | AZ-SS aluminized steel plate for use with Drill-Tec™ #12 Fastener, Drill-Tec™ #14 Fastener and Drill-Tec™ XHD Fastener. | 3x3 | GAF |
| 7. | Drill-Tec™ AccuTrac® Recessed Plate | Galvalume steel plate for use with Drill-Tec™ fasteners. | 3x3 | GAF |
| 8. | Drill-Tec™ ASAP 3S | Drill-Tec™ #12 fastener with Drill-Tec™ 3" Standard Steel Plate. | Various | GAF |

## EVIDENCE SUBMITTED:

| Test Agency | Test Name | TestIdentifier | Date |
|---|---|---|---|
| FM Approvals | 4470 | 3024805 | 11/20/06 |
| | 4470 | 3036225 | 08/10/09 |
| | 4470 | 3036614 | 06/09/09 |
| | 4470 | 3044862 | 05/11/12 |
| | 4470 | 3047636 | 08/08/13 |
| UL LLC | UL 790 | R10689 | 04/30/21 |
| | UL 790 | R1306 | 11/28/22 |
| NEMO | ASTM D3909/TAS110 | 4Q-GAF-20-SSMBB-01.A | 03/04/21 |
| | ASTM D3909 | 4q-GAF-21-SSMBB-02.A | 12/02/21 |
| Trinity \| ERD | ASTM D6222 | G43190.11.13-1 | 11/15/13 |
| | ASTM D6163 | G40630.01.14-1 | 01/06/14 |
| | ASTM D6164 | G40630.01.14-2A-1-R1 | 01/07/14 |
| | ASTM D6164 | G40630.01.14-2B-R2 | 01/07/14 |
| | ASTM D6164 | G40630.01.14-2C | 01/07/14 |
| | ASTM D4601 | G43180.01.14-1 | 01/10/14 |
| | ASTM D6222 | G30250.02.10-2-R1 | 05/20/14 |
| | ASTM D6164 | G40630.03.14 | 03/06/14 |
| | ASTM D6222 | G43190.03.14-1 | 03/06/14 |
| | ASTM D6222 | G43190.03.14-2 | 03/06/14 |
| | ASTM D5147 | G43190.05.14-R1 | 03/13/19 |
| | ASTM D3909 | G43610.01.14 | 01/22/14 |
| | ASTM D6164 | G46160.09.14-3B | 09/09/14 |
| | ASTM D1970 | SC13285.03.17-1 | 03/08/17 |
| | ASTM D3909 | SC6870.08.14-R1 | 09/04/14 |
| | ASTM D6222 | 4S-GAF-18-001.03.19.A-R1 | 03/03/19 |
| | ASTM D4601/D1970 | SC16440.12.17 | 12/31/17 |
| PRI Construction Materials | ASTM D6083 | GAF-498-02-01 | 08/22/16 |
| Technologies LLC | ASTM D6083 | GAF-276-02-01REV | 01/03/11 |
| | ASTM C1289 | GAF-464-02-01 | 02/06/14 |
| | ASTM D6083 | GAF-498-02-01 | 09/16/16 |
| | ASTM D6083 | GAF-499-02-01 | 03/12/14 |
| | ASTM D6083 | GAF-500-02-01 | 03/12/14 |
| | ASTM C1289 | GAF-629-02-01 | 02/26/16 |
| | ASTM C794 | GAF-692-02-01 | 06/22/16 |
| | ASTM D6222 | 376T0143 | 08/23/21 |
| | ASTM D6222 | 376T0144 | 08/26/21 |
| | ASTM D6222 | 376T0145 | 08/26/21 |
| | ASTM D6164 | 376T0220 | 02/10/22 |
| | ASTM D3909 | 376T0272 | 2/3/22 |
| | ASTM D6222 | 376T0273 | 5/4/22 |
| | ASTM D6222 | 376T0274 | 5/4/22 |

## DECK STRESS ANALYSIS CALCULATIONS/REPORTS

| Engineer/Agency | Identifier | Assemblies | Date |
|---|---|---|---|
| FM Approval Deck Limitation | N/A | C | 01/01/13 |

## APPROVED ASSEMBLIES:

**Membrane Type:** APP/SBS

**Deck Type 1I**: Steel, Insulated

**Deck Description:** Min. 22 gauge, Grade 33, Type B, wide rib steel deck secured to minimum ¼" thick structural steel supports spaced maximum 6' o.c. using two ICH Traxx/5 fasteners spaced 6" o.c. along each support. Deck side laps fastened with ICH Traxx/1 fasteners spaced maximum 24" o.c.
**This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.**

**System Type C:** Insulation is mechanically attached through loose laid optional thermal barrier to the deck. Membrane fully adhered.

**Thermal Barrier: (Optional)** Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime® Roof Board, 1/2" Securock® Gypsum-Fiber Roof Board or 3/4" EnergyGuard™ Perlite Roof Insulation loose laid on steel deck.

**All General and System Limitations apply.**
One or more layers of any of the following insulations.

| Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft$^2$ |
|---|---|---|
| **EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 2" thick** | **1 & 4** | **1:1.45** |

**Note: Optional thermal barrier (when present) is loose laid over the deck and simultaneously mechanically attached with the insulation layer as specified above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** Liberty™ SBS Self-Adhering Base/Ply Sheet self-adhered with minimum 3" wide laps and rolled with a weighted roller in accordance with manufacturer's instructions.

**Ply Sheet: (Optional)** One layer of Liberty™ SBS Self-Adhering Base/Ply Sheet, self-adhered with minimum 3" wide laps and rolled with a weighted roller in accordance with manufacturer's instructions

**Membrane:** One or more layers of Ruberoid® SBS Heat-Weld™ 25, Ruberoid® SBS Heat-Weld™ Smooth, Ruberoid® SBS Heat-Weld™ Granule, Ruberoid® SBS Heat-Weld™ 170 FR, Ruberoid® SBS Heat-Weld™ Plus, Ruberoid® SBS Heat-Weld™ Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld™ Plus FR with minimum 3" wide laps. Membrane is heat welded to the self-adhering base/ply in accordance with manufacturer's application instructions.
Or
One or more layers of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Ruberoid® Torch 180, RoofMatch™ APP Modified Granular, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Plus FR or Ruberoid® EnergyCap™ Torch Granule FR with minimum 3" wide laps. Membrane is torch adhered to the self-adhering base/ply in accordance with manufacturer's application instructions.

**Surfacing:** **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be listed in a current NOA Approval and applied in accordance with manufacturer's instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
4. Fibered Aluminum Roof Coating.

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

## STEEL DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gauge attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.

## 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 Engineer, 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 with 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