



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
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www.miamidade.gov/economy

GAF
1361 Alps Road
Wayne, NJ 07470

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 Conventional Built-Up-Roofing Systems for Poured Gypsum Decks.

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

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

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

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

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

This NOA revises and renews NOA No. 09-0319.01 consists of pages 1 through 8.
The submitted documentation was reviewed by Juan E. Collao, R.A.



NOA No.: 13-0424.12
Expiration Date: 12/11/18
Approval Date: 11/07/13
Page 1 of 8

ROOFING SYSTEM APPROVAL

| | |
|---------------------------------|---------------|
| Category: | Roofing |
| Sub-Category: | BUR |
| Material: | Fiberglass |
| Deck Type: | Poured Gypsum |
| Maximum Design Pressure: | -75 psf |

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

| Product | Dimensions | Test Specification | Product Description |
|--|-----------------------|---------------------------|---|
| GAFGLAS® #75 Base Sheet | 39.37" (1 meter) Wide | ASTM D 4601 | Type II asphalt impregnated and coated glass mat base sheet. |
| GAFGLAS® #80 Ultima™ Base Sheet | 39.37" (1 meter) Wide | ASTM D 4601 | Type II asphalt impregnated and coated, fiberglass base sheet. |
| GAFGLAS® FlexPly™ 6 | 39.37" (1 meter) Wide | ASTM D 2178 | Type VI asphalt impregnated glass felt with asphalt coating. |
| GAFGLAS® Ply 4 | 39.37" (1 meter) Wide | ASTM D 2178 | Type IV asphalt impregnated glass felt with asphalt coating. |
| GAFGLAS® Mineral Surfaced Cap Sheet | 39.37" (1 meter) Wide | ASTM D 3909 | Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules. |
| GAFGLAS® EnergyCap™ BUR Mineral Surface Cap Sheet | 39.37" (1 meter) wide | ASTM D3909 | Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules with factory applied EnergyCote™ |
| GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet | 39.37" (1 meter) wide | ASTM D 4897 | Fiberglass base sheet impregnated and coated on both sides with asphalt. Surfaced on the bottom side with mineral granules embedded in asphaltic coating with factory perforations. |
| GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet | 39.37" (1 meter) wide | ASTM D 4897 | Fiberglass base sheet impregnated and coated on both sides with asphalt. Surfaced on the bottom side with mineral granules embedded in asphaltic coating. |
| Ruberoid® 20 | 39.37" (1 meter) wide | ASTM D 6163 | SBS modified asphalt base sheet and interply sheet reinforce with a glass fiber mat. |
| Topcoat® Surface Seal SB | 5 or 55 gallons | ASTM D 6083 | Solvent based sprayable thermoplastic rubber sealant designed to protect and restore aged roof surfaces and to increase a roof's reflectivity. |
| Topcoat® Elastomeric Roofing Membrane | 1, 5 or 55 gallons | ASTM D 6083 | An acrylic, water based elastomeric membrane system designed to protect various types of roofing surfaces. |



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> |
|------------------|-------------------|---------------------------|--|
| Topcoat® MB Plus | 5 or 55 gallons | Proprietary | Water based, low VOC primer used to block asphalt bleed-through. |

APPROVED INSULATIONS:

TABLE 2

| <u>Product Name</u> | <u>Product Description</u> | <u>Manufacturer (With Current NOA)</u> |
|--------------------------------------|----------------------------------|--|
| EnergyGuard™ Perlite Roof Insulation | Perlite insulation board. | GAF |
| EnergyGuard™ Perlite Recover Board | Perlite recover board | GAF |
| EnergyGuard™ Polyiso Insulation | Polyisocyanurate foam insulation | GAF |
| EnergyGuard™ RA Polyiso Insulation | Polyisocyanurate foam insulation | GAF |
| EnergyGuard™ RN Polyiso Insulation | Polyisocyanurate foam insulation | GAF |
| DensDeck® Roof Board | Gypsum Board | G-P Gypsum Corp. |
| Structodek® High Density Fiber Board | High Density Fiber board | Blue Ridge FiberBoard, Inc. |
| Securock® Gypsum-Fiber Roof Board | Gypsum roof board | USG Corporation |

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. | Drill-Tec™ Base Sheet Fastener (1.2 in.) | Base sheet fastening assembly. | 1.2 in. | GAF |
| 2. | Drill-Tec™ Base Sheet Fastener (1.7 in.) | Base sheet fastening assembly. | 1.7 in. | GAF |
| 3. | Drill-Tec™ Locking Impact Nail | Base sheet fastener with integrated Plate. | 1.8” long w/ 2.7” dia. plate | GAF |



EVIDENCE SUBMITTED:

| <u>Test Agency</u> | <u>Test Identifier</u> | <u>Description</u> | <u>Date</u> |
|-------------------------------------|------------------------|--------------------|-------------|
| Factory Mutual Research Corporation | J.I. 0D0A8.AM | 4470 | 07/09/97 |
| | J.I. 2B8A4.AM | 4470 | 07/02/97 |
| Trinity Engineering | #4483.04.97-1 | TAS 114 | 06/06/97 |
| Trinity ERD | G6850.08.07-1 | ASTM D3909 | 08/13/07 |
| | G34140.04.11-4 | ASTM D 4601 | 04/25/11 |
| | G30250.02.10-3-R1 | ASTM D 3909 | 11/26/12 |
| | G34140.04.11-5 | ASTM D 4897 | 04/25/11 |
| | G34140.04.11-5-R1 | ASTM D 4897 | 10/18/13 |
| | G34140.04.11-2 | ASTM D 6163 | 04/25/11 |
| PRI Asphalt Technologies, Inc. | GAF-082-02-01 | ASTM D 6083 | 05/09/06 |
| | GAF-084-02-01 | ASTM D 6083 | 05/07/06 |
| | GAF-314-02-01 | ASTM D 2178 | 08/23/11 |
| | GAF-315-02-01 | ASTM D 2178 | 08/23/11 |
| | GAF-209.211-02-01 | ASTM D 6083 | 05/05/09 |
| IRT-Arcon, Inc. | 02-011 | TAS 114 | 02/26/02 |
| IRT-Arcon, Inc. | 02-015 | TAS 114 | 03/26/02 |
| Momentum Technologies, Inc. | EX14A3A | ASTM D 6083 | 03/20/03 |



APPROVED ASSEMBLIES

Deck Type 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

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

All General and System Limitations shall apply.

Anchor sheet: One ply of GAFGLAS® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet or Ruberoid® 20 mechanically fastened as described below:

Fastening Options: Drill-Tec™ Base Sheet Fasteners (1.2) at a 2" side lap 9" o.c. and in two rows staggered in the center of the sheet 12" o.c.;
(Maximum Design Pressure –50 psf, See General Limitation #9)

Drill-Tec™ Base Sheet Fasteners (1.2) at a 2" side lap 9" o.c. and in three rows staggered in the center of the sheet 9" o.c.;
(Maximum Design Pressure –57.5 psf, See General Limitation #9)

Drill-Tec™ Base Sheet Fasteners (1.2) at a 4" side lap 7" o.c. and in three rows staggered in the center of the sheet 7" o.c.;
(Maximum Design Pressure –52.5 psf, See General Limitation #7)

Drill-Tec™ Locking Impact Nail fasteners at a 4" side lap 9" o.c. and in two rows staggered in the center of the sheet 12" o.c.;
(Maximum Design Pressure –75 psf, See General Limitation #7)

One or more layers of any of the following insulations.

| Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft² |
|---|---|--|
| EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Polyiso Insulation Minimum 1.3" thick | N/A | N/A |
| EnergyGuard™ Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1.4" thick | N/A | N/A |
| EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1.5" thick | N/A | N/A |
| EnergyGuard™ RA Polyiso Insulation Minimum 1.75" thick | N/A | N/A |
| EnergyGuard™ Perlite Roof Insulation, EnergyGuard™ Perlite Recover Board, Structodek® High Density Fiber Board, Securock® Gypsum-Fiber Roof Board Minimum ½" thick | N/A | N/A |



| Base or Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|---|-----------------------------------|-------------------------------------|
| Dens Deck [®] Roof Board Minimum ¼” thick | N/A | N/A |
| EnergyGuard [™] Perlite Roof Insulation, EnergyGuard [™] Perlite Recover Board, Structodek [®] High Density Fiber Board, Securock [®] Gypsum-Fiber Roof Board Minimum ½” 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. GAF requires either a ply of GAFGLAS[®] Stratavent[®] Eliminator[™] Perforated Venting Base Sheet laid dry or a layer of EnergyGuard[™] Perlite Roof Insulation or wood fiber overlay board on all polyisocyanurate insulation applications.

Base Sheet: One or more plies of GAFGLAS[®] Ply 4, GAFGLAS[®] Stratavent[®] Eliminator[™] Perforated Venting Base Sheet loose laid dry, GAFGLAS[®] FlexPly[™] 6 or GAFGLAS[®] #75 Base Sheet, GAFGLAS[®] #80 ULTIMA[™] Base Sheet adhered to the insulation in a full mopping of an approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. (See General Limitation #4)

Ply Sheet: One or more plies GAFGLAS[®] Ply 4, GAFGLAS[®] Flex Ply[™] 6 or GAFGLAS[®] #80 Ultima Base Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Cap Sheet: (Optional) One ply of GAFGLAS[®] Mineral Surfaced Cap Sheet or GAFGLAS[®] EnergyCap[™] BUR Mineral Surface Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing: **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.**

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. Topcoat[®] Elastomeric Roofing Membrane, Topcoat[®] MB Plus (to be used as a primer with Topcoat[®] Elastomeric Roofing Membrane) or Topcoat[®] Surface Seal SB applied at 1 to 1.5 gal./sq.

Maximum Design Pressure: See Fastening above.



Deck Type 6: Poured Gypsum Concrete, Non-insulated

Deck Description: Poured gypsum concrete.

System Type E: Base sheet mechanically fastened.

All General and System Limitations apply.

Base Sheet: One ply of GAFGLAS® #75 Base Sheet, GAFGLAS® FlexPly™ 6, GAFGLAS® #80 Ultima™ Base Sheet, GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet or Ruberoid® 20 mechanically fastened as described below:

Fastening Options: Drill-Tec™ Base Sheet Fasteners (1.2) at a 2" side lap 9" o.c. and in two rows staggered in the center of the sheet 12" o.c.;

(Maximum Design Pressure –50 psf, See General Limitation #9)

Drill-Tec™ Base Sheet Fasteners (1.2) at a 2" side lap 9" o.c. and in three rows staggered in the center of the sheet 9" o.c.;

(Maximum Design Pressure –57.5 psf, See General Limitation #9)

Drill-Tec™ Base Sheet Fasteners (1.2) at a 4" side lap 7" o.c. and in three rows staggered in the center of the sheet 7" o.c.;

(Maximum Design Pressure –52.5 psf, See General Limitation #7)

Drill-Tec™ Locking Impact Nail fasteners at a 4" side lap 9" o.c. and in two rows staggered in the center of the sheet 12" o.c.;

(Maximum Design Pressure –75 psf, See General Limitation #7)

Ply Sheet: One or more plies of GAFGLAS® Ply 4, GAFGLAS® FlexPly™ 6 or GAFGLAS® #80 Ultima™ Base Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. (See specification number for appropriate number of plies).

Cap Sheet: (Optional) One ply of GAFGLAS® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surface Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing: **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.**

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. Topcoat® Elastomeric Roofing Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Elastomeric Roofing Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.

Maximum Design Pressure: See Fastening 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 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE