

# Ruberoid<sup>®</sup> Modified Bitumen Roof Systems for Cementitious Wood Fiber Decks

## Miami-Dade County Notice of Acceptance (NOA)

Updated: 4/09



*Quality You Can Trust...From  
North America's Largest Roofing Manufacturer!™*

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BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908

**NOTICE OF ACCEPTANCE (NOA)**

**GAF Material Corporation**  
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 by the BCCO and accepted by the Building Code and Product Review Committee 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 and the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: GAF RUBEROID® Modified Bitumen Roof System for 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 revises NOA No. 08-0317.03 and consists of pages 1 through 20.  
The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 09-0226.06  
Expiration Date: 11/06/13  
Approval Date: 04/22/09  
Page 1 of 20

## ROOFING SYSTEM APPROVAL

|                                |                         |
|--------------------------------|-------------------------|
| <b>Category:</b>               | Roofing                 |
| <b>Sub-Category:</b>           | Modified Bitumen        |
| <b>Material:</b>               | SBS/APP                 |
| <b>Deck Type:</b>              | Cementitious Wood Fiber |
| <b>Maximum Design Pressure</b> | -82.5 psf               |

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

TABLE 1

| <u>Product</u>   | <u>Dimensions</u>        | <u>Test Specification</u>  | <u>Product Description</u>   |
|--|--------------------------|----------------------------|--|
| LeakBuster™ Matrix™<br>307 Premium Asphalt<br>Primer                   | 5, 55 gallons            | ASTM D 41                  | Asphalt concrete primer used to promote adhesion of asphalt in built-up roofing.   |
| GAF Mineral Shield®<br>Granules  | 60 lb. bags              | ASTM D 1863                | Granules for surfacing of exposed asphalt, cold process cement or emulsion. GAF Mineral Shield® Granules shall be used for flashing applications only. |
| Leak Buster™ Matrix™<br>305 Fibered Asphalt<br>Emulsion                | 5 gallons                | ASTM 1227                  | Surface coating for smooth surfaced roofs.   |
| LeakBuster™<br>Matrix™ 303 Premium<br>Fibered Aluminum Roof<br>Coating | 1, 5 gallons             | ASTM D 2824                | Fibered aluminum coating.  |
| LeakBuster™ Matrix™<br>203 Plastic Roof Cement                         | 1, 5 gallons             | ASTM D 3019<br>ASTM D 3409 | Refined asphalt blended with a mineral stabilizer and fibers. Permits adhesion to wet and dry surfaces.  |
| LeakBuster™ Matrix™<br>304 Non Fibered<br>Aluminum Roof Coating        | 5 gallons                | ASTM D 2824,<br>Type I     | Non-fibered. Aluminum pigmented, asphalt roof coating  |
| RUBEROID® Modified<br>Bitumen Flashing Cement                          | 5 gallons                | ASTM D 4586                | Fiber reinforced, polymer modified Flashing cement   |
| GAFGLAS® #75   | 39.37"<br>(1 meter) wide | ASTM D 4601                | Asphalt impregnated and coated glass mat base sheet.   |
| GAFGLAS® #80<br>ULTIMA Base Sheet                                      | 39.37"<br>(1 meter) wide | ASTM D 4601                | Asphalt impregnated and coated, fiberglass base sheet  |
| GAFGLAS®<br>Flex Ply™ 6  | 39.37"<br>(1 meter) wide | ASTM D 2178                | Type VI asphalt impregnated glass felt with asphalt coating.   |
| GAFGLAS® Ply 4   | 39.37"<br>(1 meter) wide | ASTM D 2178                | Type IV asphalt impregnated glass felt with asphalt coating.   |



| <u>Product</u>                                       | <u>Dimensions</u>        | <u>Test Specification</u>                           | <u>Product Description</u>  |
|--|--------------------------|---|---|
| GAFGLAS® Mineral Surfaced Cap Sheet                  | 39.37"<br>(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"<br>(1 meter) wide | ASTM D 3909<br>Energystar™<br>Title 24<br>Compliant | Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules with factory applied EnergyCote™   |
| GAFGLAS® STRATAVENT® Eliminator™ Perforated          | 39.37"<br>(1 meter) wide | ASTM D 4897<br>ASTM D 3672                          | 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® Flashing                                    | Various                  |   | Asphalt coated glass fiber mat flashing sheet available in three sizes.   |
| GAFGLAS® STRATAVENT® Eliminator™ Perforated Nailable | 39.37"<br>(1 meter) wide | ASTM D 4897<br>ASTM D 3672                          | Fiberglass base sheet impregnated and coated on both sides with asphalt. Surfaced on the bottom side with mineral granules embedded in asphaltic coating.                           |
| RUBEROID® SBS Heat-Weld™ Smooth                      | 1 meter<br>(39.37") wide | ASTM D 6164   | Non-Woven Polyester mat coated with polymer-modified asphalt and smooth surfaced.   |
| RUBEROID® SBS Heat-Weld™ Granule                     | 39.37"<br>(1 meter) wide | ASTM D 6164   | Non-Woven Polyester mat coated with polymer modified asphalt and surfaced with mineral granules.  |
| Roof Match™ APP Granule                              | 107 sq. ft.<br>(9.9 m2)  | ASTM D 6222<br>ASTM D 5147                          | Non-woven polyester mat coated with polymer modified asphalt and surfaced with colored mineral granules.  |
| RUBEROID® SBS Heat-Weld™ 170 FR                      | 39.37"<br>(1 meter) wide | ASTM D 6164   | Non-Woven Polyester mat coated with fire retardant polymer modified asphalt and surfaced with mineral granules.   |
| RUBEROID® SBS Heat-Weld™ PLUS                        | 39.37"<br>(1 meter) wide | ASTM D 6164   | Non-Woven Polyester mat coated with polymer modified asphalt and surfaced with mineral granules.  |
| RUBEROID® SBS Heat-Weld PLUS FR                      | 39.37"<br>(1 meter) wide | ASTM D 6164   | Non-Woven Polyester mat coated with fire retardant polymer modified asphalt and surfaced with mineral granules.   |
| RUBEROID® EnergyCap SBS Heat-Weld™ PLUS FR           | 39.37"<br>(1 meter) wide | ASTM D 6164   | A fiberglass mat reinforced, SBS modified bitumen cap membrane.   |



| <u>Product</u>                       | <u>Dimensions</u>        | <u>Test Specification</u>                  | <u>Product Description</u>  |
|--------------------------------------|--------------------------|--|---|
| RUBEROID® SBS Heat-Weld™ 25          | 39.37"<br>(1 meter) wide | ASTM D 6164                                | Non-Woven Polyester mat coated with polymer modified asphalt and smooth surfaced.                               |
| RUBEROID® Modified Base Sheet        | 39.37"<br>(1 meter) wide | ASTM D 4601,<br>Type II, UL<br>Type G2 BUR | Premium glass fiber reinforced SBS-modified base sheet  |
| RUBEROID® 20                         | 39.37"<br>(1 meter) wide | ASTM D 6163<br>ASTM D 5147                 | SBS modified asphalt base sheet and interply sheet reinforce with a glass fiber mat.                            |
| RUBEROID® Mop Granule                | 39.37"<br>(1 meter) wide | ASTM D 6222<br>ASTM D 5147                 | Non-woven polyester mat coated with polymer modified asphalt and surfaced with mineral granules.                |
| Roof Match™ SBS Granule              | 107 sq. ft.<br>(9.9 m2)  | ASTM D 6222<br>ASTM D 5147                 | Non-woven polyester mat coated with polymer modified asphalt and surfaced with colored mineral granules.        |
| RUBEROID® Mop Plus (Granule)         | 39.37"<br>(1 meter) wide | ASTM D 6222<br>ASTM D 5147                 | Non-woven polyester mat coated with polymer modified asphalt and surfaced with mineral granules.                |
| RUBEROID® MOP Smooth                 | 39.37"<br>(1 meter) wide | ASTM D 6164<br>ASTM D 5147                 | Non-woven polyester mat coated with polymer modified asphalt and smooth surfaced.                               |
| RUBEROID® MOP 170FR                  | 39.37"<br>(1 meter) wide | ASTM D 6164<br>ASTM D 5147                 | Non-Woven polyester mat coated with fire retardant polymer modified asphalt and surfaced with mineral granules. |
| RUBEROID® MOP FR                     | 39.37"<br>(1 meter) wide | ASTM D 6164<br>ASTM D 5147                 | Non-Woven polyester mat coated with fire retardant polymer modified asphalt and surfaced with mineral granules. |
| RUBEROID® TORCH Smooth               | 39.37"<br>(1 meter) wide | ASTM D 5147                                | Heavy duty, polyester reinforced, asphalt modified bitumen membrane, smooth surface.                            |
| RUBEROID® TORCH Granule              | 39.37"<br>(1 meter) wide | ASTM D 5147                                | Asphalt impregnated, coated felt, surfaced with mineral granule.  |
| RUBEROID® EnergyCap Torch Granule FR | 1 meter<br>(39.37") wide | ASTM D 6222                                | A fiberglass mat reinforced, SBS modified bitumen cap membrane.   |
| Roof Match™ APP Torch Granule        | 107 sq. ft.<br>(9.9 m2)  | ASTM D 6222<br>ASTM D 5147                 | Non-woven polyester mat coated with polymer modified asphalt and surfaced with colored mineral granules.        |



| <u>Product</u>   | <u>Dimensions</u>        | <u>Test Specification</u>                 | <u>Product Description</u>  |
|--|--------------------------|---|---|
| RUBEROID® TORCH PLUS (Granule)                               | 39.37"<br>(1 meter) wide | ASTM D 6222<br>ASTM D 5147                | Heavy duty, polyester reinforced, asphalt modified bitumen membrane, granule surface  |
| RUBEROID® TORCH FR   | 39.37"<br>(1 meter) wide | ASTM D 6222<br>ASTM D 5147                | Non-woven polyester mat coated with fire retardant polymer modified asphalt surfaced with mineral granules.                     |
| RUBEROID® 170FR TORCH  | 39.37"<br>(1 meter) Wide | ASTM D 6222<br>ASTM D 5147                | Heavy duty, polyester reinforced, coated with fire retardant asphalt modified bitumen membrane, granule surface.                |
| RUBEROID® EnergyCap SBS Heat Weld Plus FR                    | 39.37"<br>(1 meter) wide | ASTM D6163<br>ASTM D5147                  | A fiberglass mat reinforced, SBS modified bitumen cap membrane.   |
| RUBEROID® 30   | 39.37"<br>(1 meter) wide | ASTM D 6163<br>ASTM D 5147                | Non woven fiberglass mat coated with polymer modified asphalt and surfaced with mineral granules.                               |
| RUBEROID® 30 FR  | 39.37"<br>(1 meter) wide | ASTM D 6163<br>ASTM D 5147                | Non woven fiberglass mat coated with fire retardant polymer modified asphalt and surfaced with mineral granules.                |
| RUBEROID® EnergyCap SBS 30 FR                                | 39.37"<br>(1 meter) wide | ASTM D 6163                               | A fiberglass mat reinforced, SBS modified bitumen cap membrane.   |
| RUBEROID® ULTRACLAD® SBS                                     | 39.37"<br>(1 meter) wide | ASTM D 6298<br>ASTM D 5147                | Woven fiberglass mat coated with Polymer modified asphalt and surfaced with aluminum, copper or stainless steel foil.           |
| RUBEROID® Dual FR  | 39.37"<br>(1 meter) Wide | ASTM D 6164<br>ASTM D 5147                | Non-woven polyester and fiberglass mat coated with fire retardant, polymer modified asphalt and surfaced with mineral granules. |
| Vent Stacks<br>(metal and plastic)                           |                          | TAS 100(A)<br>ASTM D 1929<br>ASTM D 635   | One way valve vent used to relieve built-up pressure within the roof system. GAF Vent Stacks are available in metal or plastic. |
| GAF Built-Up Roofing Asphalt                                 | 100 lb. cartons,<br>bulk | ASTM D 312,<br>Types I, II, III<br>and IV | Interply mopping and surfacing asphalt  |
| RUBEROID® MOD Asphalt, Asphalt L & Asphalt P                 | 60 lb. kegs              |   | SEBS modified asphalt   |
| RUBEROID® SEBS Modified Asphalt, Asphalt Lite & Asphalt Plus | 60 lb. kegs              |   | SEBS modified asphalt   |



| <u>Product</u>  | <u>Dimensions</u> | <u>Test Specification</u>   | <u>Product Description</u>                                      |
|---|-------------------|---|---|
| TOPCOAT®<br>Surface Seal SB   | 5 gallons         |   | Surface coating for smooth surfaced and mineral surfaced roofs. |
| LeakBuster™ Matrix™<br>715 MB Elastomeric<br>Roofing Membrane       | 5 gallons         | ASTM D 3412<br>ASTM D 21-96<br>ASTM D 1475<br>ASTM E 1644<br>ASTM D 6083  | Surface coating for smooth surfaced and mineral surfaced roofs. |
| Leak Buster™<br>Matrix™ 531<br>WeatherCote™                         | 5 gallons         |   | Surface coating for smooth surfaced and mineral surfaced roofs. |
| Matrix Low VOC  | 5 gallons         |   | Surface coating for smooth surfaced and mineral surfaced roofs. |
| LeakBuster™ Matrix™<br>102 SBS Adhesive                             | 5 gallons         | ASTM D 3019   | Cold Applied Modified SEBS Asphalt Adhesive                     |
| Leak Buster™ Matrix™<br>103 Cold Process<br>Adhesive                | 5 gallons         | ASTM D 3019   | Cold Applied Asphalt Adhesive.                                  |
| LeakBuster™ Matrix™<br>201 Premium SBS<br>Flashing Cement           | 5 gallons         | ASTM D 3019   | Cold Applied Modified SEBS Asphalt Adhesive – Flashing Grade.   |
| LeakBuster™ Matrix™<br>202 SBS Flashing Cement                      | 5 gallons         | ASTM D 3019   | Cold Applied Modified SEBS Asphalt Adhesive.                    |
| LeakBuster™ Matrix™<br>203 Plastic Roof Cement                      | 5 gallons         | ASTM D 4586   | Standard Plastic Asphalt Roofing Cement                         |
| Matrix 213 Gun Grade<br>Plastic Cement                              | 5 gallons         | ASTM D 4586   | Standard Plastic Asphalt Roofing Cement Caulk Grade.            |
| Leak Buster™ Matrix™<br>322 <u>Elastomeric Roof<br/>Coating</u>     |                   | ASTM D 1653<br>ASTM D 12<br>ASTM E 470<br>ASTM D 6038   | Surface coating for smooth surfaced and mineral surfaced roofs. |
| Leak Buster™ Matrix™<br>602 MB Xtra Elastomeric<br>Roofing Membrane | 5 gallons         | ASTM D 412<br>ASTM B 117<br>ASTM C 794<br>ASTM G 21<br>FTMS141.6271<br>ASTM D 21-96<br>ASTM D 1475<br>ASTM E 1644 | Surface coating for smooth surfaced and mineral surfaced roofs. |



| <u>Product</u>  | <u>Dimensions</u> | <u>Test Specification</u>   | <u>Product Description</u>  |
|---|-------------------|---|---|
| LeakBuster™ Matrix™<br>715 MB Elastomeric<br>Roofing Membrane | 5 gallons         | ASTM D 3412<br>ASTM D 21-96<br>ASTM D 1475<br>ASTM E 1644<br>ASTM D 6083  | Surface coating for smooth surfaced and mineral surfaced roofs.                                   |
| TOPCOAT®<br>FireShield® SB<br>Fireshield® MB                  | 5, 55 gallons     | ASTM D 412<br>ASTM D 21<br>ASTM D 1475<br>ASTM E 1644   | Elastomeric roofing membrane  |
| TOPCOAT® MB Plus  | 5, 55 gallons     | ASTM D 412,<br>ASTM D 21-96,<br>ASTM D 1475,<br>ASTM E 1644   | Water-based, low VOC, sprayable polymeric liquid, which cures to form a seamless rubber membrane. |
| RUBEROID® Modified<br>Bitumen Adhesive                        | 5 gallons         | ASTM D 3019<br>Type III   | Fiber reinforced, rubberized Adhesive   |
| EnergyCote™ Coating   | 2, 5 gallons      |   | Highly reflective elastomeric coating   |
| TOPCOAT®<br>Surface Seal SB                                   |                   | ASTM D 412<br>ASTM B 117<br>ASTM C 794<br>ASTM G 21<br>FTMS141.6271<br>ASTM D 21-96<br>ASTM D 1475<br>ASTM E 1644 | Surface coating for smooth surfaced and mineral surfaced roofs.                                   |



**APPROVED INSULATIONS:**

**TABLE 2**

| <b>Product Name</b>  | <b>Product Description</b>   | <b>Manufacturer<br/>(With Current NOA)</b> |
|--|--|--|
| EnergyGuard™,<br>EnergyGuard™ RN ,<br>EnergyGuard™ RA                            | Polyisocyanurate foam insulation   | GAF Materials Corp.                        |
| EnergyGuard™ Composite<br>EnergyGuard™ Composite RA<br>EnergyGuard™ Composite RN | Polyisocyanurate foam insulation with high density fiberboard or Permalite perlite insulation. | GAF Materials Corp.                        |
| EnergyGuard™ Fiberboard  | Fiberboard insulation.   | GAF Materials Corp.                        |
| EnergyGuard™ Perlite   | Perlite insulation board.  | GAF Materials Corp.                        |
| EnergyGuard™ CANT™   | Cut perlite board  | GAF Materials Corp.                        |
| EnergyGuard™ Perlite Recover Board   | Perlite recover board  | GAF Materials Corp.                        |
| EnergyGuard™ Tapered Edge Strip  | Tapered perlite board  | GAF Materials Corp.                        |
| Dens Deck®<br>Dens Deck Prime®<br>Dens Deck DuraGuard®                           | Water resistant gypsum board   | BMCA                                       |
| Structodek® TD   | Flame Resistant High Density Wood Fiber board.   | Knight-Celotex                             |
| Structodek®  | Insulation board   | Knight-Celotex                             |
| SECUROCK®  | Fiber reinforced roof board  | Gypsum board                               |



**APPROVED FASTENERS:**

**TABLE 3**

| <b>Fastener Number</b> | <b>Product Name</b>                   | <b>Product Description</b>  | <b>Dimensions</b>                                 | <b>Manufacturer (With Current NOA)</b> |
|------------------------|---------------------------------------|---|---|--|
| 1.                     | Drill-Tec™ II NTB                     | Glass reinforced Nylon insulation fastener for gypsum & CWF decks with barbs. |   | BMCA                                   |
| 2.                     | Drill-Tec™ NTB Plate                  | Galvalume stress plate  | 3" round  | BMCA                                   |
| 3.                     | Drill-Tec™ CR 1.2 Base Sheet Fastener | Base sheet fastening only   |   | BMCA                                   |
| 4.                     | Drill-Tec™ Locking Impact Nail        | Base Sheet fastener for lightweight concrete, gypsum & tectum decks.          | Fastener: Various lengths<br>Plate: 2.7" diameter | BMCA                                   |

**EVIDENCE SUBMITTED:**

| <u>Test Agency</u>              | <u>Test Identifier</u> | <u>Description</u> | <u>Date</u> |
|---------------------------------|------------------------|--------------------|-------------|
| Factory Mutual Research Corp.   | FMRC 1996              | 4470               | 01.01.96    |
|                                 | 2B8A4.AM               | 4470               | 07.02.97    |
|                                 | 3B9Q1.AM               | 4470               | 01.08.98    |
|                                 | 0D0A8.AM               | 4470               | 07.09.99    |
|                                 | 0Y9Q5.AM               | 4470               | 04.01.98    |
| Underwriters Laboratories, Inc. | R1306, 00NK07638       | UL 790             | 07.17.00    |
| IRT-ARCON, Inc.                 | 02-026                 | TAS 114            | 07.26.02    |
| Exterior Research & Design, LLC | 4670.03.01-1           | TAS 117            | 09.20.01    |



**APPROVED ASSEMBLIES**

- Membrane Type:** SBS Heat Weld
- Deck Type 6I:** Cementitious Wood Fiber
- Deck Description:** Cementitious Wood Fiber
- System Type A(1):** Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

**All General and System Limitations shall apply.**

One or more layers of any of the following insulations.

| <b>(Optional) Base Layer</b>             | <b>Insulation Fasteners<br/>(Table 3)</b> | <b>Fastener<br/>Density/ft<sup>2</sup></b> |
|--|---|--|
| EnergyGuard™ PolyIso<br>Minimum 1" thick | N/A                                       | N/A  |
| <b>Top Insulation Layer</b>              | <b>Insulation Fasteners<br/>(Table 3)</b> | <b>Fastener<br/>Density/ft<sup>2</sup></b> |
| Dens Deck®<br>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 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. GAF requires either a ply of GAFGLAS® STRATAVENT® Eliminator™ Perforated laid dry or a layer of EnergyGuard™ Perlite or wood fiber overlay board on polyisocyanurate insulation applications.**

- Anchor sheet:** One ply of GAFGLAS® STRATAVENT® Eliminator™ Nailable, or GAFGLAS® #75, GAFGLAS® #80 ULTIMA™ Base Sheet, RUBEROID® Mop Smooth, RUBEROID® 20, RUBEROID® HW 25, RUBEROID® HW Smooth mechanically fastened with Drill Tec™ Locking Impact Nail at a 3" side lap 9" o.c. and in two rows staggered in the center of the sheet 12" o.c.
- Base Sheet:** One or more plies of RUBEROID® HW 25 or RUBEROID® HW Smooth, 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)
- Membrane:** One or more plies of RUBEROID® SBS Heat-Weld™ PLUS, RUBEROID® SBS Heat-Weld™ PLUS FR, RUBEROID® SBS Heat-Weld™ 170 FR, RUBEROID® EnergyCap SBS Heat-Weld™ PLUS FR, RUBEROID® SBS Heat-Weld™, RUBEROID® SBS Heat-Weld™ Smooth, and RUBEROID® SBS Heat-Weld™ 25 applied according to manufactures instructions.



- Surfacing: (Optional, required if RUBEROID® Mop Smooth, RUBEROID® 20, RUBEROID® SBS Heat-Weld™ 25 or RUBEROID® SBS Heat-Weld™ Smooth is top membrane)
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. or applied in a flood coat of Leak Buster™ Matrix™ 103 Cold Process Adhesive applied at a rate of 3 gal./sq.
  2. GAFGLAS® Mineral Surfaced Cap Sheet, GAFGLAS® EnergyCap™ Mineral Surfaced Capsheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
  3. Leak Buster™ Matrix™ 303 Premium Fibered Aluminum Roof Coating, at 1.5 gal./sq.
  4. Leak Buster™ Matrix™ 715, Leak Buster™ Matrix™ 322, TOPCOAT® MB Plus, TOPCOAT® Fireshield Elastomeric Roofing Membrane, applied at 1 to 1.5 gal./sq.
  5. Leak Buster™ Matrix™ 602 MB Xtra Elastomeric Roofing Membrane, EnergyCote™ roof coating applied at 1 to 1.5 gal./sq.
  6. TOPCOAT® Surface Seal, TOPCOAT® Fireshield® SB Solvent based Elastomeric Roofing Membrane applied at 1 to 1.5 gal./sq.
  7. Advance Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer's specifications and applicable Building Codes.

Maximum Design  
Pressure: -82.5 psf (See General Limitation #7)



**Membrane Type:** APP/SBS Heat Weld  
**Deck Type 6I:** Cementitious Wood Fiber  
**Deck Description:** Cementitious Wood Fiber  
**System Type A(2):** Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

**All General and System Limitations shall apply.**

One or more layers of any of the following insulations.

| <b>Insulation Layer</b>  | <b>Insulation Fasteners<br/>(Table 3)</b> | <b>Fastener<br/>Density/ft<sup>2</sup></b> |
|--|---|--|
| <b>EnergyGuard™ RA<br/>Minimum 1.2" thick</b>  | N/A                                       | N/A  |
| <b>EnergyGuard™ PolyIso, EnergyGuard™ RA, RN, Ultra<br/>Minimum 1.3" thick</b>   | N/A                                       | N/A  |
| <b>EnergyGuard, EnergyGuard™ Composite, EnergyGuard™ RA, EnergyGuard™ RN<br/>Minimum 1.4" thick</b>  | N/A                                       | N/A  |
| <b>EnergyGuard™ Composite, EnergyGuard™ RA, RA<br/>Minimum 1.5" thick</b>  | N/A                                       | N/A  |
| <b>EnergyGuard™ RA, EnergyGuard™ PolyIso<br/>Minimum 1.75" thick</b>   | N/A                                       | N/A  |
| <b>Structodek®, Structodek® TD, EnergyGuard™ Fiberboard, EnergyGuard™ Recover Board,<br/>Gypsum Board, EnergyGuard™ Perlite<br/>Minimum ½" thick</b> | N/A                                       | N/A  |

**Note:** All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. GAF requires either a ply of GAFGLAS® STRATAVENT® Eliminator™ Perforated laid dry or a layer of EnergyGuard™ Perlite or wood fiber overlay board on polyisocyanurate insulation applications.

**Anchor sheet:** One ply of GAFGLAS® STRATAVENT® Eliminator™ Nailable, or GAFGLAS® #75, GAFGLAS® #80 ULTIMA™ Base Sheet, RUBEROID® Mop Smooth, RUBEROID® 20, RUBEROID® HW 25, RUBEROID® HW Smooth mechanically fastened with Drill Tec™ Locking Impact Nail at a 3" side lap 9" o.c. and in two rows staggered in the center of the sheet 12" o.c.

**Base Sheet:** One or more plies of GAFGLAS® Ply 4, STRATAVENT® Eliminator™ Perforated laid dry, GAFGLAS® FlexPly™6 or GAFGLAS® #75, GAFGLAS® #80 ULTIMA™ Base Sheet, RUBEROID® Mop Smooth, RUBEROID® 20, RUBEROID® Modified 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: (Optional, Required over STRATAVENT® Eliminator™ Perforated ) One or more plies of GAFGLAS® PLY 4, GAFGLAS® FlexPly™ 6, GAFGLAS® #80 ULTIMA sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- Membrane: One or more plies of RUBEROID® Torch Smooth, RUBEROID® Torch Granule, Roof Match™ APP Torch Granule, RUBEROID® Torch Plus Granule, RUBEROID® EnergyCap SBS Torch Plus FR or RUBEROID® Torch FR or RUBEROID® EnergyCap SBS Torch Granule FR torch applied according to manufacturer's application instructions  
Or  
One or more plies of RUBEROID® SBS Heat-Weld™ PLUS, RUBEROID® SBS Heat-Weld™ PLUS FR, RUBEROID® SBS Heat-Weld™ 170 FR, RUBEROID® EnergyCap SBS Heat-Weld™ PLUS FR, RUBEROID® SBS Heat-Weld™, RUBEROID® SBS Heat-Weld™ Smooth, RUBEROID® ULTRACLAD® SBS and RUBEROID® SBS Heat-Weld™ 25 applied according to manufacturer's application instructions.
- Surfacing: (Optional, required if RUBEROID® Mop Smooth, RUBEROID® 20, RUBEROID® SBS Heat-Weld™ 25 or RUBEROID® SBS Heat-Weld™ Smooth is top membrane)
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. or applied in a flood coat of Leak Buster™ Matrix™ 103 Cold Process Adhesive applied at a rate of 3 gal./sq.
  2. GAFGLAS® Mineral Surfaced Cap Sheet, GAFGLAS® EnergyCap™ Mineral Surfaced Capsheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
  3. Leak Buster™ Matrix™ 303 Premium Fibered Aluminum Roof Coating, at 1.5 gal./sq.
  4. Leak Buster™ Matrix™ 715, Leak Buster™ Matrix™ 322, TOPCOAT® MB Plus, TOPCOAT® Fireshield Elastomeric Roofing Membrane, applied at 1 to 1.5 gal./sq.
  5. Leak Buster™ Matrix™ 602 MB Xtra Elastomeric Roofing Membrane, EnergyCote™ roof coating applied at 1 to 1.5 gal./sq.
  6. TOPCOAT® Surface Seal, TOPCOAT® Fireshield® SB Solvent based Elastomeric Roofing Membrane applied at 1 to 1.5 gal./sq.
  7. Advance Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer's specifications and applicable Building Codes.

Maximum Design Pressure: -82.5 psf (See General Limitation #7)



**Membrane Type:** SBS/SBS Cold Applied  
**Deck Type 6I:** Cementitious Wood Fiber, Insulated  
**Deck Description:** Cementitious Wood Fiber  
**System Type A(3):** Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

**All General and System Limitations shall apply.**

One or more layers of any of the following insulations.

| <b>Base Insulation Layer</b>   | <b>Insulation Fasteners<br/>(Table 3)</b> | <b>Fastener<br/>Density/ft<sup>2</sup></b> |
|--|---|--|
| <b>EnergyGuard™ RA<br/>Minimum 1.2" thick</b>  | N/A                                       | N/A  |
| <b>EnergyGuard™ PolyIso, EnergyGuard™ RA<br/>Minimum 1.3" thick</b>  | N/A                                       | N/A  |
| <b>EnergyGuard™, EnergyGuard™ RN, EnergyGuard™ Composite<br/>Minimum 1.4" thick</b>  | N/A                                       | N/A  |
| <b>EnergyGuard™ RA, EnergyGuard™ Composite, EnergyGuard™ Composite RA, RN<br/>Minimum 1.5" thick</b>   | N/A                                       | N/A  |
| <b>EnergyGuard™ RA<br/>Minimum 1.75" thick</b>   | N/A                                       | N/A  |
| <b>Gypsum Board, EnergyGuard™ Fiberboard, Structodek®, Structodek® TD, EnergyGuard™<br/>Recover Board, EnergyGuard™ Perlite<br/>Minimum ½" thick</b> | N/A                                       | N/A  |
| <b>Base or Top Insulation Layer</b>  | <b>Insulation Fasteners<br/>(Table 3)</b> | <b>Fastener<br/>Density/ft<sup>2</sup></b> |
| <b>Dens Deck®, Dens Deck Prime®<br/>DensDeck DuraGuard™, Securock™<br/>Minimum ¼" thick</b>  | N/A                                       | N/A  |
| <b>Structodek®, Structodek® TD, EnergyGuard™ Fiberboard, EnergyGuard™ Recover Board,<br/>EnergyGuard™ Perlite<br/>Minimum ½" thick</b>               | N/A                                       | N/A  |

**Note:** All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. GAF requires either a ply of GAFGLAS® STRATAVENT® Eliminator™ Perforated laid dry or a layer of EnergyGuard™ Perlite or wood fiber overlay board on polyisocyanurate insulation applications.



- Anchor sheet: One ply of GAFGLAS® STRATAVENT® Eliminator™ Nailable, or GAFGLAS® #75, GAFGLAS® #80 ULTIMA™ Base Sheet, RUBEROID® Mop Smooth, RUBEROID® 20, RUBEROID® HW 25, RUBEROID® HW Smooth mechanically fastened with Drill Tec™ Locking Impact Nail at a 3" side lap 9" o.c. and in two rows staggered in the center of the sheet 12" o.c.
- Base Sheet: One ply of STRATAVENT® Eliminator™ Perforated laid dry or GAFGLAS® #75, GAFGLAS® #80 ULTIMA™ Base Sheet, RUBEROID® Mop Smooth, RUBEROID® 20, RUBEROID® HW 25, RUBEROID® HW Smooth, RUBEROID® Modified Base Sheet or RUBEROID® 20 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: (Optional), one or more plies of GAFGLAS® PLY 4, GAFGLAS® FlexPly™ 6, GAFGLAS® #80 ULTIMA™, RUBEROID® MOP Smooth or RUBEROID® 20 sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- Membrane: One or more plies of RUBEROID® MOP Smooth, RUBEROID® Mop 170 FR, RUBEROID® Mop Granule, Roof Match™ SBS Granule, RUBEROID® Mop Plus Granule, RUBEROID®20, RUBEROID®30, RUBEROID® EnergyCap SBS 30 FR, RUBEROID®30 FR or RUBEROID® Mop FR, RUBEROID® Dual FR or RUBEROID® ULTRACLAD® SBS in adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.  
 Or,  
 One or more plies of RUBEROID® MOP Smooth, RUBEROID® Mop Granule, Roof Match™ SBS Granule RUBEROID® Mop 170 FR, RUBEROID® Mop Plus Granule, RUBEROID® 30, RUBEROID® EnergyCap SBS 30 FR, RUBEROID® 30 FR, RUBEROID® Mop FR or RUBEROID® Dual FR in at an LeakBuster™ Matrix™ 102 SBS Adhesive application rate of 1-2 gal./sq.



Surfacing:

(Optional, required if RUBEROID® Mop Smooth, RUBEROID® 20, RUBEROID® SBS Heat-Weld™ 25 or RUBEROID® SBS Heat-Weld™ Smooth is top membrane)

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. or applied in a flood coat of Leak Buster™ Matrix™ 103 Cold Process Adhesive applied at a rate of 3 gal./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, GAFGLAS® EnergyCap™ Mineral Surfaced Capsheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Leak Buster™ Matrix™ 303 Premium Fibered Aluminum Roof Coating, at 1.5 gal./sq.
4. Leak Buster™ Matrix™ 715, Leak Buster™ Matrix™ 322, TOPCOAT® MB Plus, TOPCOAT® Fireshield Elastomeric Roofing Membrane, applied at 1 to 1.5 gal./sq.
5. Leak Buster™ Matrix™ 602 MB Xtra Elastomeric Roofing Membrane, EnergyCote™ roof coating applied at 1 to 1.5 gal./sq.
6. TOPCOAT® Surface Seal, TOPCOAT® Fireshield® SB Solvent based Elastomeric Roofing Membrane applied at 1 to 1.5 gal./sq.
7. Advance Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer's specifications and applicable Building Codes.

Maximum Design

Pressure:

-82.5 psf (See General Limitation #7)



**Membrane Type:** APP/SBS Heat Weld  
**Deck Type 5:** Cementitious Wood Fiber, Non-Insulated  
**Deck Description:** Cementitious Wood fiber  
**System Type E(1):** Anchor sheet mechanically fastened

**All General and System Limitations shall apply.**

**Anchor Sheet:** Install one ply of GAFGLAS® #75, GAFGLAS® #80 ULTIMA™ Base Sheet, GAFGLAS® STRATAVENT® Eliminator™ Nailable, RUBEROID® MOP Smooth, RUBEROID® 20, RUBEROID® Modified Base Sheet, RUBEROID® SBS Heat-Weld™ Smooth or RUBEROID® SBS Heat-Weld 25 base sheet mechanically fastened with 1.8" Drill Tec™ Locking Impact Nail fastened at 9" o.c. at the 3" side lap and in two 12" o.c. staggered rows in the field.

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

**Membrane:** One or more plies of RUBEROID® Torch Smooth, RUBEROID® Torch Granule, Roof Match™ APP Torch Granule, RUBEROID® Torch Plus Granule RUBEROID® EnergyCap Torch Granule FR or RUBEROID® Torch FR torch applied according to manufacturer's application instructions.  
Or,  
One or more plies of RUBEROID® SBS Heat-Weld™ Smooth, RUBEROID® SBS Heat-Weld™ FR, RUBEROID® SBS Heat-Weld™ Plus FR, RUBEROID® EnergyCap SBS Heat-Weld™ PLUS FR, RUBEROID® SBS Heat-Weld™ 25, RUBEROID® SBS Heat-Weld™ Granule, RUBEROID® SBS Heat-Weld™ 170 FR, RUBEROID® SBS Heat-Weld™ Plus Granule, RUBEROID® ULTRACLAD® SBS applied according to manufacturer's application instructions.

**Surfacing:** (Optional, required if RUBEROID® Mop Smooth, RUBEROID® 20, RUBEROID® SBS Heat-Weld™ 25 or RUBEROID® SBS Heat-Weld™ Smooth is top membrane)

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. or applied in a flood coat of Leak Buster™ Matrix™ 103 Cold Process Adhesive applied at a rate of 3 gal./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, GAFGLAS® EnergyCap™ Mineral Surfaced Capsheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Leak Buster™ Matrix™ 303 Premium Fibered Aluminum Roof Coating, at 1.5 gal./sq.
4. Leak Buster™ Matrix™ 715, Leak Buster™ Matrix™ 322, TOPCOAT® MB Plus, TOPCOAT® Fireshield Elastomeric Roofing Membrane, applied at 1 to 1.5 gal./sq.
5. Leak Buster™ Matrix™ 602 MB Xtra Elastomeric Roofing Membrane, EnergyCote™ roof coating applied at 1 to 1.5 gal./sq.
6. TOPCOAT® Surface Seal, TOPCOAT® Fireshield® SB Solvent based Elastomeric Roofing Membrane applied at 1 to 1.5 gal./sq.
7. Advance Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer's specifications and applicable Building Codes.

**Maximum Design Pressure:** -82.5 psf (See General Limitation #7)



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**Membrane:** SBS/SBS Cold Applied  
**Deck Type 5:** Cementitious Wood Fiber, Non-Insulated  
**Deck Description:** Cementitious wood fiber  
**System Type E(2):** Anchor sheet mechanically fastened

**All General and System Limitations shall apply.**

**Anchor Sheet:** Install one ply of GAFGLAS® #75, GAFGLAS® #80 ULTIMA™ Base Sheet, GAFGLAS® STRATAVENT® Eliminator™ Nailable, RUBEROID® MOP Smooth, RUBEROID® 20, RUBEROID® Modified Base Sheet, RUBEROID® SBS Heat-Weld™ Smooth or RUBEROID® SBS Heat-Weld 25 base sheet mechanically fastened with 1.8" Drill Tec™ Locking Impact Nail fastened at 9" o.c. at the 3" side lap and in two 12" o.c. staggered rows in the field.

**Ply Sheet:** (Optional) One or more plies of GAFGLAS® Ply 4, GAFGLAS® Flex Ply™ 6, GAFGLAS® #80 ULTIMA or RUBEROID® 20 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

**Membrane:** One or more plies of RUBEROID® MOP Smooth, RUBEROID® Mop 170 FR, RUBEROID® Mop Granule, Roof Match™ SBS Granule RUBEROID® Mop Plus Granule, RUBEROID® 20, RUBEROID® 30, RUBEROID® EnergyCap SBS 30 FR, RUBEROID® 30 FR, RUBEROID® Mop FR, RUBEROID® Dual FR or RUBEROID® ULTRACLAD® SBS in adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.  
Or,  
One or more plies of RUBEROID® MOP Smooth, RUBEROID® Mop Granule, Roof Match™ SBS Granule RUBEROID® Mop 170 FR, RUBEROID® Mop Plus Granule, RUBEROID® 30, RUBEROID® EnergyCap SBS 30 FR, RUBEROID® 30 FR, RUBEROID® Mop FR or RUBEROID® Dual FR in LeakBuster™ Matrix™ 102 SBS Adhesive at an application rate of 1-2 gal./sq.



Surfacing:

(Optional, required if RUBEROID® Mop Smooth, RUBEROID® 20, RUBEROID® SBS Heat-Weld™ 25 or RUBEROID® SBS Heat-Weld™ Smooth is top membrane)

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. or applied in a flood coat of Leak Buster™ Matrix™ 103 Cold Process Adhesive applied at a rate of 3 gal./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, GAFGLAS® EnergyCap™ Mineral Surfaced Capsheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Leak Buster™ Matrix™ 303 Premium Fibered Aluminum Roof Coating, at 1.5 gal./sq.
4. Leak Buster™ Matrix™ 715, Leak Buster™ Matrix™ 322, TOPCOAT® MB Plus, TOPCOAT® Fireshield Elastomeric Roofing Membrane, applied at 1 to 1.5 gal./sq.
5. Leak Buster™ Matrix™ 602 MB Xtra Elastomeric Roofing Membrane, EnergyCote™ roof coating applied at 1 to 1.5 gal./sq.
6. TOPCOAT® Surface Seal, TOPCOAT® Fireshield® SB Solvent based Elastomeric Roofing Membrane applied at 1 to 1.5 gal./sq.
7. Advance Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer's specifications and applicable Building Codes.

Maximum Design

Pressure: -82.5 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 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 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 9B-72 of the Florida Administrative Code.

**END OF THIS ACCEPTANCE**



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