



**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)

**Genflex Roof Systems
250 W. 96th Street
Indianapolis, IN 46260**

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 Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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: Genflex EPDM Single Ply Roof Systems over Recover Decks

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

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

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

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

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

This NOA renews NOA No. 04-0211.03 and consists of pages 1 through 12.
The submitted documentation was reviewed by Jorge L. Acebo.



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ROOFING SYSTEM APPROVAL

| | |
|---------------------------------|--------------------------------|
| Category: | Roofing |
| Sub-Category: | Single Ply |
| Material: | EPDM |
| Deck Type: | Recover |
| Maximum Design Pressure: | See Specific System Assemblies |

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> |
|--|---|---------------------------|--|
| GenFlex II EPDM | Various widths x Various lengths x .045" or .060" | TAS 110 | Un-reinforced EPDM Membrane |
| GenFlex II FRM | Various widths x Various lengths x .045" or .060" | TAS 110 | Reinforced EPDM Membrane |
| GenFlex II FR EPDM | Various widths x Various lengths x .045" or .060" | TAS 110 | Un-reinforced Fire Retardant EPDM Membrane |
| GenFlex Flex Flash E Uncured EPDM | 6"-48" x various | TAS 110 | Uncured EPDM flashing membrane |
| GenFlex Flex Flash N Uncured Neoprene | 6"-48" x various | TAS 110 | Uncured neoprene flashing membrane |
| GenFlex Seam Tape | 3" x 100' | TAS 110 | Extruded black rubber adhesive tape for membrane lapped seams |
| GenFlex Bar Anchor Cover Tape | 6" x 100' | TAS 110 | Extruded black rubber adhesive tape laminated to rubber strips |
| GenFlex Primer | 1-5 gallon cans | TAS 110 | Primer for pretreatment of adhered seams |
| GenFlex EPDM Bonding Adhesive Type E | 5 gallon cans | TAS 110 | Contact adhesive for membrane to substrate |
| GenFlex G-400 Splice Adhesive | 1-5 gallon cans | TAS 110 | EPDM seam adhesive |
| GenFlex Edge Caulk | 10 oz tubes or 1 gallon cans | TAS 110 | Seam caulk for adhered seams |
| Genflex Waterstop | 10 oz tubes | TAS 110 | Butyl mastic for compression seal joints |



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| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> |
|---|---------------------|---------------------------|--|
| GenFlex Pitch Pan Filler | 1.5 gallon cans | TAS 110 | Two component pourable urethane sealant |
| GenFlex Anchor Bars | 16 Gauge x 10' x 1" | TAS 114 | Bar anchors for mechanically attachment of the roof membrane |
| GenFlex Termination Bar | .09" x 1.25" x 10' | TAS 114 | Membrane termination bar |
| GenFlex Termination Rings | 16 Gauge x 1" rings | TAS 114 | Termination bar for pipe flashings |
| GenFlex EPDM Pipe Boots | | TAS 110 | Prefabricated Pipe boots |
| GenFlex EPDM Peel and Stick Pipe Boots | | TAS 110 | Self adhering pipe boots |
| GenFlex EPDM Inside and Outside Corners | | TAS 110 | Pre-molded corners |
| FlexGuard Walkpad | 3/8" x 2' x 3' | TAS 110 | Membrane proction board |
| GenFlex ACE Coating | 5 gallon cans | TAS 110 | Acrylic base polymer coating for EPDM membrane |
| GenFlex Low Rise Insulation Adhesive | various | TAS 110 | Single component Urethane insulation adhesive. |



APPROVED INSULATIONS:

TABLE 2

| Product Name | Product Description | Manufacturer (With Current NOA) |
|--|--|--|
| ISO-3 | Isocyanurate Insulation | GenFlex |
| Hy Therm, Pyrox, White Line | Isocyanurate Insulation | Apache Products Co. |
| ACFoam Composite | Isocyanurate Insulation with perlite facer | Atlas Roofing Corp. |
| ACFoam II | Isocyanurate Insulation | Atlas Roofing Corp. |
| Styrofoam | Extruded polystyrene insulation | Dow |
| ISO 95+ GL, 95+ GW, FG | Isocyanurate Insulation | Firestone |
| ISO 95+ Composite | Isocyanurate Insulation with perlite facer | Firestone |
| Isotherm R (EnergyGuard) | Polyisocyanurate foam insulation | GAF |
| Dens Deck | Silicon treated gypsum | G-P Products |
| ENRGY 2, ENRGY PSI-25, UltraGard Gold | Isocyanurate Insulation | Johns Manville |
| Fesco Foam | Isocyanurate Insulation with perlite facer | Johns Manville |
| Expanded Polystyrene (EPS) | Expanded polystyrene insulation. | Generic |
| Extruded Polystyrene (XPS) | Extruded polystyrene insulation. | Generic |
| Wood Fiberboard | Regular wood fiber insulation | Generic |
| High Density Wood Fiberboard | High Density Wood Fiber insulation board. | Generic |
| Perlite Insulation Board | Perlite Insulation | Generic |
| Type X Gypsum | Gypsum Wallboard | Generic |
| Huntsman EPS | Expanded polystyrene insulation | Huntsman Corp. |
| FOAMULAR | Extruded polystyrene insulation | Owens Corning |
| Fiberglas | Fiber glass roof insulation. | Owens Corning |
| Multi Max | Isocyanurate Insulation | Rmax, Inc. |
| Thermarroof Composite | Isocyanurate Insulation with perlite facer | Rmax, Inc. |
| Structodeck | High density wood fiber | Wood Fiber Industries |



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APPROVED FASTENERS:

TABLE 3

| Fastener Number | Product Name | Product Description | Dimensions | Manufacturer (With Current NOA) |
|------------------------|-------------------------------|---|-----------------------|--|
| 1. | GenFlex RM II | Galvalume AZ55 coated steel seam plate. | 2" round | GenFlex |
| 2. | Dekfast Fasteners | Insulation and membrane fastener | Various | Construction Fasteners, Inc. |
| 3. | Dekfast Hex Plate | Insulation and membrane fastener | Various | Construction Fasteners, Inc. |
| 4. | #12 & #14 Roofgrip | Insulation and membrane fastener | Various | ITW Buildex |
| 5. | Metal Plate | Galvalume AZ50 stress plate | 3" square 3" round | ITW Buildex |
| 6. | Plastic Plate | Polyethylene stress plate | 3.2" round | ITW Buildex |
| 7. | Olympic Fasteners | Insulation and membrane fastener | Various | Olympic Mfg. Group |
| 8. | Strap/Iron-Lok Toggle | Steel bolt with CR-10 coating, steel toggle and plastic-strap | Various | Olympic Mfg. Group |
| 9. | Olympic Standard | Galvalume AZ55 stress plate | 3" round | Olympic Mfg. Group |
| 10. | Olympic G-2 | Galvalume AZ55 stress plate | 3.5" round | Olympic Mfg. Group |
| 11. | Olympic | Plastic plates for fasteners. | 3" round | Olympic Mfg. Group |
| 12. | Lite-Deck Fasteners | Insulation fastener for cementitious and gypsum decks | Various | Olympic Mfg. Group |
| 13. | NTB Magnum | Insulation fastener for cementitious and gypsum decks | Various | Olympic Mfg. Group |
| 14. | Lite-Deck Plate | Galvalume AZ55 stress plate | 3" round | Olympic Mfg. Group |
| 15. | NTB Plate | Galvalume AZ55 stress plate | 3" round | Olympic Mfg. Group |
| 16. | GTL Fastener | Insulation fastener for cementitious and gypsum decks with a 3" round head plate. | Various | Olympic Mfg. Group |
| 17. | NTB Metal Barbed Stress Plate | Galvalume AZ55 stress plate | 2" round | Olympic Mfg. Group |
| 18. | NTB Plastic Plate | Plastic plates for NTB 2" head fasteners. | 3" round | Olympic Mfg. Group |
| 19. | Powerlite | Insulation fastener for cementitious and gypsum decks | Various | Powers Fasteners Inc. |
| 20. | Powerlite | Galvalume AZ55 stress plate | 3" round | Powers Fasteners Inc. |



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APPROVED FASTENERS:**TABLE 3**

| Fastener Number | Product Name | Product Description | Dimensions | Manufacturer (With Current NOA) |
|------------------------|------------------------|---|-------------------|--|
| 21. | Rawl Drive | Insulation fastener for concrete decks | | Powers Fasteners, Inc. |
| 22. | Rawl Spike | Insulation fastener for concrete decks | | Powers Fasteners, Inc. |
| 23. | Rawl | Galvalume AZ55 steel plate | 3" round | Powers Fasteners, Inc. |
| 24. | Insul-Fixx Fastener | Insulation fastener for use in wood and steel decks | Various | SFS Stadler, Inc. |
| 25. | Insul-Fixx S | Galvalume AZ55 stress plate | 3" round | SFS Stadler, Inc. |
| 26. | Insul-Fixx PG | Polyethylene stress plate | 3" round | SFS Stadler, Inc. |
| 27. | Tru-Fast Fasteners | Insulation and membrane fastener | Various | The Tru-Fast Corp. |
| 28. | Tru-Fast MP-3 | Galvalume AZ50 steel plate | 3.23" round | The Tru-Fast Corp. |
| 29. | Tru-Fast Plastic Plate | Polyethylene stress plate | 3" round | The Tru-Fast Corp. |

EVIDENCE SUBMITTED:

| <u>Test Agency</u> | <u>Test Identifier</u> | <u>Description</u> | <u>Date</u> |
|---------------------------------|-------------------------------|---------------------------|--------------------|
| Factory Mutual Research | 2X6A3.AM | FM 4470 | 04/11/94 |
| | 3000919 | FM 4470 | 04/07/99 |
| | 3010412 | FM 4470 | 02/18/02 |
| | 3008869 | FM 4470 | 12/27/00 |
| | 3009797 | FM 4470 | 02/04/02 |
| Underwriters Laboratories, Inc. | R9334 | UL790 | 12/17/93 |



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APPROVED ASSEMBLIES

- Membrane Type:** Single Ply, EPDM
- Deck Type 7I:** Recover
- Deck Description:** Concrete/poured gypsum/cementitious wood fiber/wood/steel
- System Type A:** All layers of insulation adhered to a primed deck, subsequently membrane adhered to insulation.

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 |
|--|-----------------------------------|-------------------------------------|
| AC Foam II, ISO-3, ISO-95+, ENRGY 2, ENRGY 3, PSI-25 Minimum 1.5" thick | N/A | N/A |
| Dens Deck Minimum 1/4." thick | N/A | N/A |

Note: Existing roof shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All layers of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft² or Low Rise Insulation Adhesive in two 3/4" to 1" wide ribbons at maximum spacing of 12" o.c. or OlyBond Adhesive Fastener applied at a rate of 1gal./ 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.

- Vapor Retarder:** None.
- Barrier:** None.
- Membrane:** GenFlex II EPDM, GenFlex II FR EPDM, GenFlex II EPDM FRM adhered to the approved substrate with GenFlex bonding adhesive applied to both surfaces at the rate of 60 ft²/gal.
- Surfacing:** (Optional) Genflex ACE coating at an application rate of 1 gal./sq. with optional silica sand applied into the wet coating.
- Maximum Design Pressure:**
 - 90 psf (Insulation layers adhered with Low Rise Insulation Adhesive)
(See General Limitation #9)
 - 232.5 psf (Insulation layers adhered in OlyBond Adhesive Fastener)
(See General Limitation #9)
 - 435 psf (Insulation layers adhered in hot asphalt) (See General Limitation #9)



Membrane Type: Single Ply, EPDM
Deck Type 7I: Recover
Deck Description: Concrete/poured gypsum/cementitious wood fiber/wood/steel
System Type C: All layers of insulation simultaneously attached; membrane fully adhered.

All General and System Limitations apply.

| Base Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft² |
|--|---|--|
| Extruded Polystyrene, Expanded Polystyrene (For use under wood fiber only) Minimum 1" thick | N/A | N/A |
| ACFoam II, WHITELINE, AP, Isotherm R, Hy-Therm Minimum 1.3" thick | N/A | N/A |
| ISO-95 FG, ISO-95 GL, GW, Rhoflex Isocyanurate, Minimum 1.4" thick | N/A | N/A |
| ACFoam Composite, Iso-95 Composite, Rhoflex Composite Minimum 1.5" thick | N/A | N/A |
| ENRGY 2, PSI-25 Minimum 2" thick | N/A | N/A |
| Wood Fiber Minimum 1" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft² |
| Ultra/M-II Isoglas Minimum 1.2" thick | See Table 3 | 1:2 ft ² |
| ACFoam-II, Isotherm R, WHITELINE, AP Minimum 1.3" thick | See Table 3 | 1:2.67 ft ² |
| ISO-95 FG Minimum 1.4" thick | See Table 3 | 1:2.67 ft ² |
| ISO-95 GL, GW Minimum 1.4" thick | See Table 3 | 1:2 ft ² |
| ACFoam Composite, Iso-95 Composite Minimum 1.5" thick | See Table 3 | 1:2.67 ft ² |
| ISO 95+ GL, ENRGY 2, ENRGY PSI-25, ACFoam-II Minimum 2" thick | See Table 3 | 1:4 ft ² |
| High Density Wood Fiber, Wood Fiber Minimum 1" thick | See Table 3 | 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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

- Vapor Retarder: Any UL or FMRC approved vapor retarder may be installed on the roof deck or over the first layer of insulation.
- Barrier: (Optional) ½" gypsum board loose laid and secured with the insulation assembly.
- Membrane: GenFlex II EPDM, GenFlex II FR EPDM, GenFlex II EPDM FRM adhered to the approved substrate with GenFlex bonding adhesive applied to both surfaces at the rate of 65 ft²/gal.
- Surfacing: (Optional) Genflex ACE coating at an application rate of 1 gal./sq. with optional silica sand applied into the wet coating.
- Maximum Design Pressure: -45 psf (See General Limitation #9)



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Membrane Type: Single Ply, EPDM

Deck Type 7I: Recover

Deck Description: Concrete/poured gypsum/cementitious wood fiber/wood/steel

System Type D: Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply.

| Base Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft² |
|---|---|--|
| Extruded Polystyrene, Expanded Polystyrene, Perlite Minimum 1" thick | N/A | N/A |
| Thermarroof Plus Minimum 1.5" thick | N/A | N/A |
| Fiberglas Minimum 1⁵/₁₆" thick | N/A | N/A |
| Base or Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft² |
| Isotherm R, WHITELINE, PYREX Minimum 1.3" thick | N/A | N/A |
| ISO-95 GL, GF, GW, Multi-Max, UltraGard Gold Minimum 1.4" thick | N/A | N/A |
| ACFoam Composite, Iso-95 Composite, Fesco Foam, Thermarroof Composite Minimum 1.5" thick | N/A | N/A |
| ENRGY 2, PSI-25 Minimum 2" thick | N/A | N/A |
| Wood Fiber Minimum 1" thick | N/A | N/A |

One of the following is required over insulation listed as Base Layer and optional over insulation listed as Base or Top Layer.

| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft² |
|---|---|--|
| Structodek, Sturdi-Top, High Density Wood Fiber Board Minimum 1/2" thick | N/A | N/A |
| Wood Fiber Minimum 1" thick | N/A | N/A |



Note: Top layer shall have preliminary attachment, prior to the installation of the membrane sheet, 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. All layers of insulation and base sheet shall be simultaneously fastened. See membrane sheet below for fasteners and density.

- Vapor Retarder: Any UL or FMRC approved vapor retarder may be installed on the roof deck or over the first layer of insulation.
- Barrier: (Optional) ½" gypsum board loose laid and secured with the insulation assembly.
- Membrane: GenFlex II EPDM, GenFlex II FR EPDM, GenFlex II EPDM FRM attached with bar anchors as described below or GenFlex II EPDM FRM attached with screws and discs as described below.
- Fastening #1: Bar anchors are placed over the roof membrane or in laps at a maximum of 72" o.c. and secured 6" o.c. through pre-drilled holes with approved fasteners and the bars are covered with an adhered 6" lap, adhered 8" strip, lap with 5" wide seam tape or 6" wide cover tape.
- Fastening #2: Approved fasteners and 2" Plates or Olympic XHD fasteners and RM II Seam Discs are placed 6" o.c. in 6" wide laps 84" o.c. in the GenFlex II FRM membrane, and the laps are sealed with lap adhesive and lap sealant following the GenFlex requirements.
- Fastening #3: Olympic Metal Batten Bars within a 6' side lap at a maximum spacing of 114" o.c. and secured 12" o.c. through pre-drilled holes with Olympic Super XHD Fasteners. Seal laps with GenFlex Primer and Seam Tape.
- Surfacing: (Optional) Genflex ACE coating at an application rate of 1 gal./sq. with optional silica sand applied into the wet coating.
- Maximum Design Pressure: -45 psf (See General Limitation #7)



RECOVER SYSTEM LIMITATIONS:

1. All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.

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 sidelap 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 and/or RAS 137. 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 9B-72 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



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