MIAMI-DADE COUNTY
PRODUCT CONTROL
SECTION
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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

# NOTICE OF ACCEPTANCE (NOA)

**SOPREMA, Inc.**
**310 Quadral Drive**
**Wadsworth, OH 44281**

## 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: Colphene H and Colphene H-EV Waterproofing Systems**

**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. 16-0229.06 and consists of pages 1 through 10.
The submitted documentation was reviewed by Jorge L. Acebo.

## ROOFING SYSTEM APPROVAL

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| **Category:** | Roofing |
| **Sub-Category:** | Waterproofing Systems |
| **Material:** | Rubberized Asphalt |
| **Deck Type:** | Concrete |
| **Maximum Design Pressure:** | -515 psf. |

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

**TABLE 1**

| Product | Dimensions | Test Specification | Product Description |
|---|---|---|---|
| Colphene H | 35 lbs. boxes | CGSB 37.50-M89 | Single component hot-applied rubberized asphalt compound for reinforced or non-reinforced applications. |
| Colphene H-EV | 35 lbs. boxes | CGSB 37.50-M89 | Single component hot-applied rubberized asphalt compound for reinforced or non-reinforced applications. |
| Elastophene Sanded | 39" x 49' (1½ sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Colphene Sanded | 39" x 49' (1½ sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene 180 Sanded | 39" x 49' (1½ sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Colphene 180 Sanded | 39" x 49' (1½ sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Sopralene 180 FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants and a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film). |

| Product | Dimensions | Test Specification | Product Description |
|---|---|---|---|
| Colphene 180 FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants and a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film). |
| Sopraflash-R | 36” x 180’ | Proprietary | A polyester/nylon composite mat. |
| Elastocol 350 | 19L pail | Proprietary | Water based primer |
| Elastocol 500 | various | ASTM D41 | Asphalt primer. |
| TPO Primer | Pint cans | Proprietary | Synthetic rubber/resin solution primer. |
| Duotack | 5, 50 gallon pail | Proprietary | Two part elastomeric urethane foam adhesive. |
| Duotack Neo | 5, 50 gallon pail | Proprietary | Two part polyurethane foam adhesive. |
| Sopramastic SP1 | 5, 50 gallon pail | ASTM C920 Type S, Grade NS, Class 50 | A solvent free sealant. |
| Sopradrain ECO-2 WR | 39” x 61.5” (2 sq.) | Proprietary | Polypropylene roof drain. |
| Sopradrain ECO-Vent WR | 39” x 61.5” (2 sq.) | Proprietary | Polypropylene roof drain. |

## TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS:

| Product | Dimensions | Test Specification | Product Description | Manufacturer |
|---|---|---|---|---|
| Portland Cement | Various | ANSI A118.1 | A thin-set Portland based mortar formulated for ceramic tile installation. | Generic |
| Exterior Ceramic Tiles | 12” x 12” x ½” | ASTM C56 ANSI A137.1 | Ceramic plaza deck walking tiles, 5% water absorption max. | Generic |
| Concrete Pavers | 12” x 12” x 1” | ASTM C936 | High density concrete pavers. | Generic |
| Wausau Lok-Down Paver | 24” x 24” x 2” | ASTM C936 | 8000 psi Min. Compressive strength, 5% water absorption. | Wausau Tile, Inc. |
| Lok-Down Tab | Base: 6.5” square plate Top: 5.8” square plate | Proprietary | SBR rubber tab used to support pavers to stand. | Wausau Tile, Inc. |
| Terra Stand Pedestal | 5” round | Proprietary | Copolymer polypropylene stand. | Wausau Tile, Inc. |

## EVIDENCE SUBMITTED:

| Test Agency | Test Name/Report | Test Identifier | Date |
|---|---|---|---|
| Underwriters Laboratories, Inc. | UL 790 | R11436 | 02/23/15 |
| Factory Mutual Research Corp. | FM 4470 | 3046765 | 02/15/13 |
| Trinity \| ERD | TAS 114 | 2755.09.02 | 10/19/02 |
| | ASTM D6163 | S35860.05.12-1-R2 | 03/14/13 |
| | CGSB 37.50-M89 | SC5490.04.14-2 | 04/01/14 |
| | TAS 114(D) | SC5190.08.14-R1 | 07/09/15 |
| | ASTM D6164 | S43400.08.14-6 | 08/26/14 |
| | ASTM D6164 | S43400.08.14-7-R1 | 11/20/14 |
| | ASTM D6164 | S35860.05.12-2-R3 | 08/29/14 |
| | Physical Properties | S45890.09.14 | 09/02/14 |
| | Physical Properties | SC6780.09.14 | 09/05/14 |
| | ASTM D6163 | S43400.08.14-4-R1 | 11/24/14 |
| | ASTM D6164 | S44110.01.15-4A-R3 | 05/01/15 |
| Momentum Technologies Int.<br>A Division of RCMA Americas, Inc. | CGSB-37.50.M89 | TX17D4A | 06/19/15 |
| Intertek \| Architectrural Testing | Physical Properties | F0856.01-106-18 | 05/13/16 |

## APPROVED APPLICATIONS:

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|---|---|
| **Deck Type 3:** | Concrete Decks, Non-Insulated |
| **Deck Description:** | Terrace/Plaza Deck, Planter, Traffic |
| **System Type F(1):** | Membranes applied directly to substrate for Terrace/Plaza Decks, Planters or Traffic Areas. |

**All General and System Limitations apply.**

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| **Substrate Preparation:** | All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions. |
| **Primer:** | Elastocol 350 or Elastocol 500 primer applied to deck at a rate of 100-150 $ft^2$/gal. |
| **Base Coat:** | Colphene H or Colphene H-EV applied at a rate of 0.6 lbs/$ft^2$ (4.39 kg/$m^2$) to a minimum thickness of 90-mil. |
| **Reinforcement:** | Sopraflash-R is firmly applied into the hot applied base coat while still hot and tacky to ensure adhesion. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment. Overlap fabric a minimum of 2" (both side laps and end laps) and ensure Colphene H or Colphene H-EV is applied between overlaps. |
| **Top Coat:** | Colphene H or Colphene H-EV s applied at a rate of 0.9 lbs/$ft^2$ (2.93 kg/$m^2$) to a minimum thickness of 125-mil. Total minimum membrane thickness shall be 215-mils (5.5 mm). |
| **Protection Course:** | Elastophene Sanded, Elastophene 180 Sanded, Sopralene 180 FR GR, Colphene Sanded, Colphene 180 Sanded or Colphene 180 FR GR shall be applied over the hot applied top coat while still hot and tacky to ensure adhesion. Overlap protection course side laps a minimum of 2" and end laps a minimum of 4" and ensure Colphene H or Colphene H-EV is applied between overlaps. |
| **Integrity Test:** | Required, and shall be performed by an approved lab in accordance with ASTM D5957. Water maybe maintained for a period longer than 24 hours if required. |
| **Inspection:** | Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected. |
| **Surfacing:** | Wausau Terra-System One with Lok-Down adhered to the top surface of the waterproofing system in Sopramastic SP1 at 0.30 – 0.35 gal/$ft^2$. (0.1 gal/pedestal base). Followed by the 2' x 2' Terra-Pavers and the Lok-Down securement tabs and screws.<br>NOTE: All plastic surfaces shall be primed with TPO Primer prior to application of Sopramastic SP1 adhesive. |
| **Maximum Design Pressure:** | -67.5 psf. (See General Limitation #9) |

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| **Deck Type 3:** | Concrete Decks, Non-Insulated |
| **Deck Description:** | Terrace/Plaza Deck, Planter, Traffic |
| **System Type F(2):** | Membranes applied directly to substrate for Terrace/Plaza Decks, Planters or Traffic Areas. |

**All General and System Limitations apply.**

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| **Substrate Preparation:** | All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions. |
| **Primer:** | Elastocol 350 or Elastocol 500 primer applied to deck at a rate of 100-150 $ft^2$/gal. |
| **Base Coat:** | Colphene H or Colphene H-EV applied at a rate of 0.6 lbs/$ft^2$ (4.39 kg/$m^2$) to a minimum thickness of 90-mil. |
| **Reinforcement:** | Sopraflash-R is firmly applied into the hot applied base coat while still hot and tacky to ensure adhesion. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment. Overlap fabric a minimum of 2" (both side laps and end laps) and ensure Colphene H or Colphene H-EV is applied between overlaps. |
| **Top Coat:** | Colphene H or Colphene H-EV s applied at a rate of 0.9 lbs/$ft^2$ (2.93 kg/$m^2$) to a minimum thickness of 125-mil. Total minimum membrane thickness shall be 215-mils (5.5 mm). |
| **Protection Course:** | Elastophene Sanded, Elastophene 180 Sanded, Sopralene 180 FR GR, Colphene Sanded, Colphene 180 Sanded or Colphene 180 FR GR shall be applied over the hot applied top coat while still hot and tacky to ensure adhesion. Overlap protection course side laps a minimum of 2" and end laps a minimum of 4" and ensure Colphene H or Colphene H-EV is applied between overlaps. |
| **Drain Board:** | Sopradrain ECO-Vent WR or Sopradrain ECO-2 WR adhered with Duotack or Duotack Neo adhesive applied in 6" spots in a 12 x 12-inch grid. |
| **Integrity Test:** | Required, and shall be performed by an approved lab in accordance with ASTM D5957. Water maybe maintained for a period longer than 24 hours if required. |
| **Inspection:** | Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected. |
| **Surfacing:** | Min. 12" x 12" x ½" Exterior grade ceramic plaza deck walking tiles or min. 12" x 12" x 1" thick concrete pavers installed in ANSI A118.1 dry set mortar, ¼" notched trowel per ANSI A108.5. |
| **Maximum Design Pressure:** | -252.5 psf. (See General Limitation #9) |

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| **Deck Type 3:** | Concrete Decks, Non-Insulated |
| **Deck Description:** | Terrace/Plaza Deck, Planter, Traffic |
| **System Type F(3):** | Membranes applied directly to substrate for Terrace/Plaza Decks, Planters or Traffic Areas. |

**All General and System Limitations apply.**

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| **Substrate Preparation:** | All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions. |
| **Primer:** | Elastocol 350 or Elastocol 500 primer applied to deck at a rate of 100-150 $ft^2$/gal. |
| **Base Coat:** | Colphene H or Colphene H-EV applied at a rate of 0.6 lbs/$ft^2$ (4.39 kg/$m^2$) to a minimum thickness of 90-mil. |
| **Reinforcement:** | Sopraflash-R is firmly applied into the hot applied base coat while still hot and tacky to ensure adhesion. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment. Overlap fabric a minimum of 2" (both side laps and end laps) and ensure Colphene H or Colphene H-EV is applied between overlaps. |
| **Top Coat:** | Colphene H or Colphene H-EV s applied at a rate of 0.9 lbs/$ft^2$ (2.93 kg/$m^2$) to a minimum thickness of 125-mil. Total minimum membrane thickness shall be 215-mils (5.5 mm). |
| **Protection Course:** | Elastophene Sanded, Elastophene 180 Sanded, Sopralene 180 FR GR, Colphene Sanded, Colphene 180 Sanded or Colphene 180 FR GR shall be applied over the hot applied top coat while still hot and tacky to ensure adhesion. Overlap protection course side laps a minimum of 2" and end laps a minimum of 4" and ensure Colphene H or Colphene H-EV is applied between overlaps. |
| **Integrity Test:** | Required, and shall be performed by an approved lab in accordance with ASTM D5957. Water maybe maintained for a period longer than 24 hours if required. |
| **Inspection:** | Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected. |
| **Surfacing:** | Exterior grade ceramic plaza deck walking tiles (Minimum size of 12" x 12" and minimum ½" thickness) tiles shall be embedded into dry-set Portland Cement applied with a ¼" square notched trowel. Tiles should then be carefully embedded in the mortar bed and tapped in place to insure full solid bearing. Tile shall be installed in accordance with applicable Building Code. |
| **Maximum Design Pressure:** | -375 psf. (See General Limitation #9) |

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|---|---|
| **Deck Type 3:** | Concrete Decks, Non-Insulated |
| **Deck Description:** | Terrace/Plaza Deck, Planter, Traffic |
| **System Type F(4):** | Membranes applied directly to substrate for Terrace/Plaza Decks, Planters or Traffic Areas. |

**All General and System Limitations apply.**

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| **Substrate Preparation:** | All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions. |
| **Primer:** | Elastocol 350 or Elastocol 500 primer applied to deck at a rate of 100-150 $ft^2$/gal. |
| **Base Coat:** | Colphene H or Colphene H-EV applied at a rate of 0.6 lbs/$ft^2$ (4.39 kg/$m^2$) to a minimum thickness of 90-mil. |
| **Reinforcement:** | Sopraflash-R is firmly applied into the hot applied base coat while still hot and tacky to ensure adhesion. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment. Overlap fabric a minimum of 2" (both side laps and end laps) and ensure Colphene H or Colphene H-EV is applied between overlaps. |
| **Top Coat:** | Colphene H or Colphene H-EV s applied at a rate of 0.9 lbs/$ft^2$ (2.93 kg/$m^2$) to a minimum thickness of 125-mil. Total minimum membrane thickness shall be 215-mils (5.5 mm). |
| **Protection Course:** | Elastophene Sanded, Elastophene 180 Sanded, Sopralene 180 FR GR, Colphene Sanded, Colphene 180 Sanded or Colphene 180 FR GR shall be applied over the hot applied top coat while still hot and tacky to ensure adhesion. Overlap protection course side laps a minimum of 2" and end laps a minimum of 4" and ensure Colphene H or Colphene H-EV is applied between overlaps. |
| **Integrity Test:** | Required, and shall be performed by an approved lab in accordance with ASTM D5957. Water maybe maintained for a period longer than 24 hours if required. |
| **Inspection:** | Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected. |
| **Surfacing:** | Min. 12" x 12" x 1" thick concrete pavers installed in ANSI A118.1 dry set mortar, ¼" notched trowel per ANSI A108.5. |
| **Maximum Design Pressure:** | -515 psf. (See General Limitation #9) |

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|---|---|
| **Deck Type 3:** | Concrete Decks, Non-Insulated |
| **Deck Description:** | Min. 2500 psi, dual slab construction (roof plaza and parking decks) |
| **System Type F(5):** | Membranes applied directly to primed substrate with concrete surfacing. |

**All General and System Limitations apply.**

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| **Substrate Preparation:** | All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions. |
| **Primer:** | Elastocol 350 or Elastocol 500 primer applied to deck at a rate of 100-150 $ft^2$/gal. |
| **Base Coat:** | Colphene H or Colphene H-EV applied at a rate of 0.6 lbs/$ft^2$ (4.39 kg/$m^2$) to a minimum thickness of 90-mil. |
| **Reinforcement:** | Sopraflash-R is firmly applied into the hot applied base coat while still hot and tacky to ensure adhesion. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment. Overlap fabric a minimum of 2" (both side laps and end laps) and ensure Colphene H or Colphene H-EV is applied between overlaps. |
| **Top Coat:** | Colphene H or Colphene H-EV s applied at a rate of 0.9 lbs/$ft^2$ (2.93 kg/$m^2$) to a minimum thickness of 125-mil. Total minimum membrane thickness shall be 215-mils (5.5 mm). |
| **Protection Course:** | Elastophene Sanded, Elastophene 180 Sanded, Sopralene 180 FR GR, Colphene Sanded, Colphene 180 Sanded or Colphene 180 FR GR shall be applied over the hot applied top coat while still hot and tacky to ensure adhesion. Overlap protection course side laps a minimum of 2" and end laps a minimum of 4" and ensure Colphene H or Colphene H-EV is applied between overlaps. |
| **Integrity Test:** | Required, and shall be performed by an approved lab in accordance with ASTM D5957. Water maybe maintained for a period longer than 24 hours if required. |
| **Inspection:** | Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected. |
| **Drainage Layer: (Optional)** | Install drainage board over top ply membrane |
| **Surfacing:** | Structural Concrete Slab, minimum 2500 psi, in compliance with applicable Building Code. |
| **Maximum Design Pressure:** | N/A<br>(Topping concrete slab shall comply with applicable Building Code requirement.) |

## 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. All work shall be performed by a Contractor licensed to do roofing/waterproofing and be a Manufacturer Trained 'Qualified Applicator' approved by SOPREMA. SOPREMA shall supply a list of approved applicators to the authority having jurisdiction.
3. Required integrity flood testing shall be provided to the Building Official for review at time of final inspection.
4. A non-skid surfacing is required for all pedestrian areas, plaza decks or balconies.
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. Insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

# END OF THIS ACCEPTANCE