



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 31525-99
www.miamidade.gov/pera

AvenEx Coating Technologies
600, 1111 West Hastings Street
Vancouver, BC V6E 2J3 Canada

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: Alpha, Beta, Delta, Hertz PSU, Hertz 60 PSU, Saturn PSU and Gamma PSU
Synthetic Roofing Underlayments

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. 23-0222.12 and consists of pages 1 through 9.

The submitted documentation was reviewed by Jorge L. Acebo.

01/16/25



NOA No.: 24-0815.01
Expiration Date: 06/10/26
Approval Date: 01/16/25
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ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Underlayment
Material: Polypropylene

SCOPE:

This approves the **Alpha, Beta, Delta, Hertz PSU, Hertz 60 PSU, Saturn PSU and Gamma PSU Synthetic Roofing Underlayments**, as described in this Notice of Acceptance; designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

PRODUCT DESCRIPTION:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Alpha Synthetic Underlayment (<i>Manufacturing location #1</i>)	48" x 250' rolls & 42" x 286' rolls	ASTM D8257	Polymer-based scrim-reinforced roofing underlayment, consisting of woven polyolefin base with a layer of nonwoven polyolefin sheet and a polymer coating on the back side, with a nominal unit weight of 2.25 lbs./square.
Beta Synthetic Underlayment (<i>Manufacturing location #1</i>)	48" x 250' rolls	ASTM D8257	Polymer-based scrim-reinforced roofing underlayment, consisting of woven polyolefin base with a layer of nonwoven polyolefin sheet and a polymer coating on the back side, with a nominal unit weight of 3.80 lbs./square.
Delta Synthetic Underlayment (<i>Manufacturing location #1</i>)	48" x 250' rolls	ASTM D8257	Polymer-based scrim-reinforced roofing underlayment, consisting of woven polyolefin base with a layer of nonwoven polyolefin sheet and a polymer coating on the back side, with a nominal unit weight of 3.40 lbs./square.
Hertz PSU (<i>Manufacturing location #2</i>)	36" x 67' rolls	ASTM D1970	High temp. self adhered roofing underlayment.
Hertz 60 PSU (<i>Manufacturing location #2</i>)	36" x 67' rolls	ASTM D1970, TAS 103	High temp. self adhered roofing underlayment.
Saturn PSU (<i>Manufacturing location #2</i>)	36" x 67' rolls	ASTM D1970	High temp. self adhered roofing underlayment.
Gamma PSU (<i>Manufacturing location #1</i>)	36" x 67' rolls	ASTM D1970	High temp. self adhered roofing underlayment.

MANUFACTURING LOCATION:

1. Parzai, India
2. Dubai, United Arab Emirates



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EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
NEMO ETC, LLC.	4L-ACT-18-002.07.18-2	UL 1897	07/05/18
	4j-ACT-22-SSUDL-01.A	ASTM D1970	07/29/22
	4j-ACT-22-SSUDL-02.A	ASTM D4798	05/06/22
	4a-ACT-22-LSWUS-01.A.R1	TAS 114 (C)	12/16/24
	4j-ACT-23-SSUDL-02.A	ASTM D4798	10/02/23
	4j-ACT-23-SSUDL-06.A	ASTM D226	12/05/23
	4j-ACT-23-SSUDL-05.A	TAS 103	03/22/24
	4j-ACT-SSUDL-001.A	ASTM D8257	05/01/24
	4j-ACT-23-SSUDL-08.A	ASTM D1623	04/12/24
	4a-ACT-LSWUS-002.A	UL 1897	08/08/24
QAI Laboratories	RJ8657P-3	ASTM D1970	11/09/22
	RJ8657P-4	ASTM D1970	11/09/22
	RJ8299P-8	ASTM D8257	02/15/22
	RJ8299P-17	ASTM D8257	02/15/22
	RJ8299P-12	ASTM D8257	03/29/22
	RJ9546P-1	ASTM D1970	08/30/24

APPROVED ASSEMBLIES:

Deck Type 1: Wood, Non-Insulated

Deck Description: ¹⁹/₃₂" or greater plywood or wood plank

System E(1): Anchor/Base Sheet mechanically fastened to deck

Anchor/Base Sheet: One or more plies of Alpha, Beta or Delta applied with minimum 4" side laps and minimum 6" vertical laps and mechanically fastened as noted below.

Fastening: Miami-Dade approved nails & metal/tin caps spaced 6" o.c. at the 4" side laps and three staggered rows 12" o.c. equally spaced grid pattern in the field of the sheet.

Surfacing: Alpha, Beta, and Delta underlayments are approved for synthetic and/or composite shingles, asphaltic shingles, synthetic and/or composite cedar shakes, wood shakes, wood shingles, non-structural metal roofing, synthetic and/or composite slates, and quarry slates holding current NOA. Must comply with applicable Roofing Application Standards and Building Codes.

Tile Roofing is not an approved roof covering for use with this assembly.



Deck Type 1: Wood, Non-Insulated

Deck Description: $1\frac{9}{32}$ " or greater plywood or wood plank

System E(2): Anchor/Base Sheet mechanically fastened to deck

Anchor/Base Sheet: One or more plies of Alpha, Beta or Delta applied with minimum 4" side laps and minimum 6" vertical laps and mechanically fastened as noted below.

Fastening: Miami-Dade approved nails & metal/tin caps spaced 6" o.c. at the 4" side laps and three staggered rows 12" o.c. equally spaced grid pattern in the field of the sheet.

Membrane: One or more plies of Hertz PSU, Saturn PSU or Gamma PSU, self-adhered, with a minimum 4" side laps and minimum 6" vertical laps.

Surfacing: Hertz PSU, Saturn PSU or Gamma PSU underlayments are approved for synthetic and/or composite shingles, asphaltic shingles, synthetic and/or composite cedar shakes, wood shakes, wood shingles, non-structural metal roofing, synthetic and/or composite slates, and quarry slates holding current NOA. Must comply with applicable Roofing Application Standards and Building Codes.

Tile Roofing is not an approved roof covering for use with this assembly.

Deck Type 1: Wood, Non-Insulated

Deck Description: $1\frac{9}{32}$ " or greater plywood or wood plank

System E(3): Anchor/Base Sheet mechanically fastened to deck

Anchor/Base Sheet: One or more plies of Alpha, Beta or Delta applied with minimum 4" side laps and minimum 6" vertical laps and mechanically fastened as noted below.

Fastening: Miami-Dade approved nails & metal/tin caps spaced 6" o.c. at the 4" side laps and three staggered rows 12" o.c. equally spaced grid pattern in the field of the sheet.

Membrane: One or more plies of Hertz 60 PSU, self-adhered, with a minimum 4" side laps and minimum 6" vertical laps.

Surfacing: Hertz 60 PSU underlayments are approved for synthetic and/or composite shingles, asphaltic shingles, synthetic and/or composite cedar shakes, wood shakes, wood shingles, non-structural metal roofing, synthetic and/or composite slates, quarry slates, holding current NOA. Must comply with applicable Roofing Application Standards and Building Codes.

Tile Roofing is not an approved roof covering for use with this assembly.



Deck Type 1: Wood, Non-Insulated

Deck Description: 15/32" APA rated, 32/16 span, Exposure 1, PS1, CDX, 4-ply plywood or wood plank secured with #8 wood screws spaced 6" o.c. at supports maximum 24" o.c. spacing and blocking with a maximum of 48" o.c. spacing.

System E(4): Anchor/Base Sheet mechanically fastened to deck

Anchor/Base Sheet: Alpha Synthetic Underlayment

Fastening: 12 ga. x 3/8-inch head diameter annular ring shank roofing nails and 32 ga. x 1-5/8-inch diameter tin caps 6-in. o.c. at the 6-in. lap and 12-in. o.c. at three equally spaced field rows

Membrane: Hertz 60 PSU, self adhered and back-nailed in the 3.5 in wide side lap using 12 ga. x 3/8-inch head diameter annular ring shank roofing nails and 32 ga. x 1-5/8-inch diameter tin caps 12-in. o.c.

Surfacing: Hertz 60 PSU underlayment is approved for synthetic and/or composite shingles, asphaltic shingles, synthetic and/or composite cedar shakes, wood shakes, wood shingles, non-structural metal roofing, synthetic and/or composite slates, quarry slates, mechanically fastened roof tile, and foam-adhered roof tile (see Note) holding current NOA. Must comply with applicable Roofing Application Standards and Building Codes.

Note: For tile roof assemblies, refer to RAS 118, 119 or 120 and the tile manufacturer's NOA. For foam-adhered tile roof assemblies using Hertz 60 PSU, approved for use with **DAP StormBond® Roof Tile Adhesive** and **DAP StormBond® 2 Roof Tile Adhesive**

Underlayment Uplift

Design Pressure: -45 psf.*

*** Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system. Refer to roof system NOA for maximum design pressure of the final roof assembly.**



Deck Type 1: Wood, Non-Insulated

Deck Description: 19/32" APA rated, 40/20 span, Exposure 1, PS1, CDX, 4-ply plywood or wood plank secured with #10 wood screws spaced 6" o.c. at supports maximum 24" o.c. spacing and blocking.

System E(5): Anchor/Base Sheet mechanically fastened to deck

Anchor/Base Sheet: G.A.P. #30 Asphalt Saturated Organic Felt

Fastening: 12 ga. ring shank nails and 1-5/8-in. tin caps, 6-in. o.c. at the 4-in. laps and 12-in. o.c. at two (2) equally spaced center rows

Membrane: Saturn PSU, self adhered and back-nailed using 12 ga. ring shank nails and 1-5/8-in. tin caps 12-in. o.c.

Cap Ply: Hertz PSU, self-adhered and back-nailed using 12 ga. ring shank nails and 1-5/8-in. tin caps 12-in. o.c.

Surfacing: Hertz PSU and Saturn PSU underlayments are approved for synthetic and/or composite shingles, asphaltic shingles, synthetic and/or composite cedar shakes, wood shakes, wood shingles, non-structural metal roofing, synthetic and/or composite slates, and quarry slates holding current NOA. Must comply with applicable Roofing Application Standards and Building Codes.

Underlayment Uplift

Design Pressure: -45 psf.*

*** Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system. Refer to roof system NOA for maximum design pressure of the final roof assembly.**

Deck Type 1: Wood, Non-Insulated

Deck Description: 15/32" APA rated, 32/16 span, Exposure 1, PS1, CDX, 4-ply plywood or wood plank secured with #8 wood screws spaced 6" o.c. at supports maximum 24" o.c. spacing and blocking with a maximum of 48" o.c. spacing.

System F(1): Membrane self-adhered directly to deck.

Membrane: Saturn PSU, self-adhered and back-nailed in the 3.5-in. wide side lap using 12 ga. x 3/8-inch diameter annular ring shank roofing nails and 32 a. x 1-5/8-inch diameter tin caps 12-in. o.c.

Surfacing: Saturn PSU underlayments are approved for synthetic and/or composite shingles, asphaltic shingles, synthetic and/or composite cedar shakes, wood shakes, wood shingles, non-structural metal roofing, synthetic and/or composite slates, and quarry slates holding current NOA. Must comply with applicable Roofing Application Standards and Building Codes.

Underlayment Uplift

Design Pressure: -52.5 psf.*

*** Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system. Refer to roof system NOA for maximum design pressure of the final roof assembly.**



Deck Type 1: Wood, Non-Insulated

Deck Description: 15/32" APA rated, 32/16 span, Exposure 1, PS1, CDX, 4-ply plywood or wood plank secured with #8 wood screws spaced 6" o.c. at supports maximum 24" o.c. spacing and blocking with a maximum of 48" o.c. spacing.

System F(2): Membrane self-adhered directly to deck.

Membrane: Hertz 60 PSU, self-adhered and back-nailed in the 3.5-in. side lap using 12 ga. x 3/8-inch head diameter annular ring shank roofing nails and 32 ga. x 1-5/8-inch diameter tin caps 12-in. o.c.

Surfacing: Hertz 60 PSU underlayment is approved for synthetic and/or composite shingles, asphaltic shingles, synthetic and/or composite cedar shakes, wood shakes, wood shingles, non-structural metal roofing, synthetic and/or composite slates, quarry slates, mechanically fastened roof tile, and foam-adhered roof tile (see Note) holding current NOA. Must comply with applicable Roofing Application Standards and Building Codes.

Note: For tile roof assemblies, refer to RAS 118, 119 or 120 and the tile manufacturer's NOA. For foam-adhered tile roof assemblies using Hertz 60 PSU, approved for use with **DAP StormBond® Roof Tile Adhesive** and **DAP StormBond® 2 Roof Tile Adhesive**

Underlayment Uplift

Design Pressure: -90 psf.*

*** Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system. Refer to roof system NOA for maximum design pressure of the final roof assembly.**

Deck Type 1: Wood, Non-Insulated

Deck Description: 19/32" APA rated, 40/20 span rating, CDX, 4-ply or greater plywood or wood plank #10 wood screws, 6" o.c. at max. 24" spans.

System F(3): Membrane self-adhered directly to deck.

Membrane: One or more plies of Hertz PSU, self-adhered and back-nailed using 12 ga. Ring shank nails and 1-5/8" tin caps 12" o.c.

Surfacing: Hertz PSU underlayments are approved for synthetic and/or composite shingles, asphaltic shingles, synthetic and/or composite cedar shakes, wood shakes, wood shingles, non-structural metal roofing, synthetic and/or composite slates, and quarry slates, holding current NOA. Must comply with applicable Roofing Application Standards and Building Codes.

Underlayment Uplift

Design Pressure: -97.5 psf.*

*** Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system. Refer to roof system NOA for maximum design pressure of the final roof assembly.**



Deck Type 1:	Wood, Non-Insulated
Deck Description:	¹⁵ / ₃₂ " APA rated, 40/20 span rating, CDX, 4-ply or greater plywood or wood plank #8 wood screws, 6" o.c. at supports and blocked 48-in. o.c., max. 24" spans.
System F(4):	Membrane self-adhered directly to deck.
Membrane:	One or more plies of Hertz PSU, self-adhered and back-nailed in the 3.5-in wide side lap using 12 ga. x 3/8-inch head diameter annular ring shank roofing nails and 32 ga. x 1-5/8-inch diameter tin caps 12-in. o.c.
Surfacing:	Hertz PSU underlayment is approved for synthetic and/or composite shingles, asphaltic shingles, synthetic and/or composite cedar shakes, wood shakes, wood shingles, non-structural metal roofing, synthetic and/or composite slates, quarry slate holding current NOA. Must comply with applicable Roofing Application Standards and Building Codes.

Underlayment Uplift

Design Pressure: -105 psf.*

*** Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system. Refer to roof system NOA for maximum design pressure of the final roof assembly.**

BUILDING PERMIT REQUIREMENTS:

Application for building permit shall be accompanied by copies of the following:

1. This Notice of Acceptance.
2. Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of this material.

LIMITATIONS:

1. Fire classification is not part of this acceptance.
2. This acceptance is for prepared roofing applications. Minimum deck requirements shall be in compliance with applicable building code.
3. Alpha, Beta, Delta, Hertz PSU, Hertz 60 PSU, Saturn PSU, and Gamma PSU Underlayments shall be applied to a clean and dry surface.
4. Alpha, Beta, Delta, Hertz PSU, Hertz 60 PSU, Saturn PSU, and Gamma PSU Underlayments may be used with any approved roof covering Notice of Acceptance listing Alpha, Beta, Delta, Hertz PSU, Hertz 60 PSU, Saturn PSU, and Gamma PSU Underlayments as a component part of an assembly in the Notice of Acceptance. If Alpha, Beta, Delta, Hertz PSU, Hertz 60 PSU, Saturn PSU, and Gamma PSU Underlayments are not listed; a request may be made to the Authority Having Jurisdiction (AHJ) or the Miami-Dade County Product Control Department for approval provided that appropriate documentation is provided to detail compatibility of the products, wind uplift resistance, and fire testing results.
5. Alpha, Beta, Delta, Hertz PSU, Hertz 60 PSU, Saturn PSU, and Gamma PSU Underlayments shall not be used on slopes less than 2:12. In general, on slopes less than 4:12, a double layer is recommended. Double layer application is best achieved by using 19" side laps, making sure the side laps are 'shingled in' to shed water.



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6. 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.
7. Alpha, Gamma and Saturn PSU Underlayments shall not be left exposed as a temporary roof for longer than 90 days after application. Beta, Delta, Hertz PSU, and Hertz 60 PSU shall not be left exposed as a temporary roof for longer than 180 days after application.
8. The manufacturer reserves the right to change product exposure period at any time; not to exceed the preceding maximum time limitations.
9. Flat Tiles shall be staged onto Hertz 60 PSU as per manufacturer's requirements, not to exceed 10-high, to the standard maximum roof pitch 4:12 (see Figure 1 below).

Profiles tiles shall be staged onto Hertz 60 PSU as per manufacturer's requirements, not to exceed 10-high, to the standard maximum roof pitch of 4:12 (See Figure 2, below).

At roof slopes greater than the above limitations, the use of loading battens or toe boards are required to load the roof tile.

Tile Staging Method



Figure 1: Flat 10-tile stack



Figure 2. Profile Stacking Method

At roof slopes greater than the preceding limitation all tiles shall be loaded onto a nominal 1" x 2" horizontal batten to prevent slippage.

10. All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.

MIAMI-DADE COUNTY
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END OF THIS ACCEPTANCE

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