



**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)

**Simplex Nails, Inc.
100 Petty Rd. Suite A
Lawrenceville, GA 30043**

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Simplex Roofing Fasteners

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 consists of pages 1 through 6.

The submitted documentation was reviewed by Frank Zuloaga, RRC.



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Expiration Date: 04/18/07
Approval Date: 04/18/02
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ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Fasteners

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Base-Lok Fastener	3" head dia. x 1.7" long	PA 117 (A) PA 117 (B)	Glass filed nylon base sheet fastener for use in lightweight concrete, cementitious wood fiber and gypsum roof decks.
Tube-Lok Nail	1" head dia. x various lengths	PA 117 (A) PA 114 (E)	Steel, hollow shank base sheet fastener for use in lightweight concrete, cementitious wood fiber and gypsum roof decks.
3" Simplex Insulation Plate	3" diameter	PA 117 (B) PA 114 (E)	Corrosion resistant, steel stress plate for use with Tube-Lok nail or alternate Metro-Dade Approved roofing fasteners.
2" Simplex Membrane Plate	2" diameter	PA 117 (B) PA 114 (E)	Corrosion resistant, steel stress plate for use with Tube-Lok nail.

TEST REPORTS

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corporation	Corrosion Resistance	J.I. 0D4A3.AM	02/04/98
Factory Mutual Research Corporation	Wind Uplift Resistance (Cementitious Wood Fiber Decks)	J.I. 0D0A5.AM	02/04/98
Factory Mutual Research Corporation	Wind Uplift Resistance (Lightweight Concrete Decks)	J.I. 2D0A0.AM	12/19/97
Exterior Research & Design, LLC.	Withdrawal Resistance & Base Sheet Rupture PA 117(A) & (B)	Report #5070.06.97-1	06/15/97



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PROPERTIES:

Note: A 2 to 1 margin of safety has been applied to test results producing the design values noted herein.

Withdrawal Resistance Performance - PA 117(A) - Static Load			
Fastener	Deck Type	Static Withdrawal Resistance (lbf)	
Min. 1" Tube-Lok	Poured gypsum	133.3	
	Cementitious wood fiber	35.7	
	Min. 200-psi Cellular LWC	28 day cure 54.3	
Base-Lok	Cementitious wood fiber	96.1	
	Min. 200-psi Cellular LWC	3 day cure 48.3	28 day cure 90.8
	Min. 180-psi Aggregate LWC	3 day cure 48.3	28day cure 90.8

Withdrawal Resistance Performance - PA 117(A) - Pulsating Load		
Fastener	Deck Type	Pulsating Withdrawal Resistance (lbf)
Min. 1" Tube-Lok	Poured gypsum	114.2
	Cementitious wood fiber	25.6
	Min. 200-psi Cellular LWC	28 day cure 54.3
Base-Lok	Cementitious wood fiber	70.2
	Min. 200-psi Cellular LWC	28 day cure 63.3
	Min. 180-psi Aggregate LWC	28 day cure 71.1



Base Sheet Rupture Performance - PA 117(B), Base-Lok Fastener			
Base Sheet	Value	Base Sheet	Value
Celotex Hydrostop	107.8	Johns Manville Dynabase	104.9
GAFLAS #75	87.4	Johns Manville Ventsulation	104.1
GAFLAS Stratavent	109.0	SOPREMA Sopraglass 100	85.0
GS All Weather/Empire	79.5	SOPREMA Sopravent	110.0
GS Glass Base	96.0	SOPREMA Sopra-G	99.3
GS Flex-I-Glas Base	106.6	SOPREMA Modified Sopra-G	99.4
GS PolySMS	115.0	SOPREMA Sopralene 180	129.6
Malarkey #501	96.1	US Intec Ultrabase	97.7
Malarkey #515	93.6	US Intec Flex Base 30	103.8
Malarkey #603	107.6	US Intec 190P	120.8
Malarkey #605	109.0	US Intec Permavent	85.1
Johns Manville Glasbase	90.4	US Intec Bondable Base	80.9

Base Sheet Rupture Performance - PA 117(B) Tube-Lok Fastener with 2" or 3" Diameter Head or Plate			
Base Sheet	Value	Base Sheet	Value
Celotex Hydrostop	91.9	Johns Manville Dynabase	57.1
GAFLAS #75	52.6	Johns Manville Ventsulation	56.1
GAFLAS Stratavent	58.0	SOPREMA Sopraglass 100	85.9
GS All Weather/Empire	54.9	SOPREMA Sopravent	65.4
GS Glass Base	75.8	SOPREMA Sopra-G	62.3
GS Flex-I-Glas Base	60.4	SOPREMA Modified Sopra-G	50.3
GS PolySMS	203.0	SOPREMA Sopralene 180	142.4
Malarkey #501	56.7	US Intec Ultrabase	52.9
Malarkey #515	73.2	US Intec Flex Base 30	56.7
Malarkey #603	55.2	US Intec 190P	190.3
Malarkey #605	99.1	US Intec Permavent	54.2
Johns Manville Glasbase	53.5	US Intec Bondable Base	38.3

Note: A 2 to 1 margin of safety has been applied to test results providing the above noted design values.



APPROVED APPLICATIONS:

Tradename: Base-Lok Fastener

Deck: Cementitious Wood Fiber, Gypsum or Lightweight Insulating Concrete

Compatible Plate(s): N/A (Base-Lok has integral plate).

Base Sheet: See specific Roof Assembly Product Control Notice of Acceptance for accepted base sheets.

Application: See specific Roof Assembly Product Control Notice of Acceptance for Approved attachment patterns.

Tradename: Tube-Lok Nail

Deck: Cementitious Wood Fiber, Gypsum

Compatible Plate(s): See specific Roof Assembly Product Control Notice of Acceptance

Base Sheet: See specific Roof Assembly Product Control Notice of Acceptance for accepted base sheets.

Application: See specific Roof Assembly Product Control Notice of Acceptance for Approved attachment patterns.

Tradename: 3” Simplex Insulation Plate

Deck: Wood, Steel, Concrete

Insulations: See specific Roof Assembly Product Control Notice of Acceptance for accepted insulations.

Application: See specific Roof Assembly Product Control Notice of Acceptance for Approved attachment patterns.



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 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 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.)**

END OF THIS ACCEPTANCE



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