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PRODUCT CONTROL NOTICE OF ACCEPTANCE

Versico, Incorporated
3485 Fortuna Drive
Akron ,OH 44312

Your application for Notice of Acceptance (NOA) of:

Versigard Single Ply Roofing System - LWC Deck

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0504.01
EXPIRES: 08/23/2006

Raul Rodriguez
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 08/23/2001

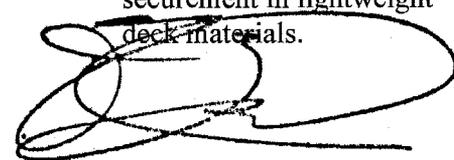
ROOFING SYSTEM APPROVAL

Category:	Roofing	Approval Date:	<u>August 23, 2001</u>
Sub-Category:	Single Ply	Expiration Date:	<u>August 23, 2006</u>
Material:	EPDM		
Deck Type:	Lightweight Concrete		
Maximum Design Pressure:	-45 psf		
Fire Classification:	See General Limitation #1		

TABLE 1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT

<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Versigard G100SA White Seam Adhesive		PA 110	Seam Adhesive for White/Black membranes
Versigard White/Black EPDM	various	ASTM D 4637	Non-reinforced white/black EPDM membrane.
Versigard G300LS White Lap Sealant		PA 110	Lap Sealant for white/black membranes.
Versigard G100B Seam Adhesive		PA 110	Seam Adhesive for black membranes
Versigard G200SA Yellow Substrate Adhesive		PA 110	Standard substrate adhesive.
Versigard II EPDM	various	ASTM D 4637	Non-reinforced, fire retardant black EPDM membrane.
Versigard II Reinforced EPDM	various	ASTM D 4637	Reinforced, fire retardant black EPDM membrane.
Versigard G300LS Black Lap Sealant		PA 110	Lap Sealant for black membranes
Versico Insulation Plates	2 7/8" dia.	PA 114	Metal plates used for insulation securement.
Versigard Reinforced EPDM	various	ASTM D 4637	Reinforced black EPDM membrane.
Versico Polymer Seam Plates	2" dia.	PA 114	Plastic plates used for membrane securement with Versigard fasteners.
Versico B-500 Bonding Adhesive		PA 110	Water-based bonding adhesive.
Versico Lightweight Insulation Plates	3" dia.	PA 114	Metal plates used for insulation securement with Lightweight Fasteners.
Versico Lightweight Fasteners	0.687 dia.	PA 114	Threaded plastic fasteners for insulation and membrane securement in lightweight deck materials.



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<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Versico Seam Fastening Plates	2" dia.	PA 114	Metal plates used for membrane securement with Versigard fasteners.
Versico Lightweight Seam Plates	2" dia.	PA 114	Metal plates used for membrane securement with Lightweight Fasteners.
Versico HPV or MPV Fasteners	#14	PA 114	Threaded fasteners used for insulation and membrane securement in steel, wood and concrete decks.

TABLE 2

TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS

<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
Celcore		PA 110	Cellular insulating concrete system	Celcore, Inc. (with current NOA)
Elastizell		PA 110	Cellular insulating concrete system	Elastizell Corp. (with current NOA)
Asphalt Primer		ASTM D 41	Asphalt Primer	Generic (with current NOA)
Insta-Stick	various	PA 110	Polyisocyanurate foam insulation	Insta-Foam (with current NOA)
Lite-Deck Fastener		PA 114	Insulation fastener	Olympic Manufacturing Group, Inc. (with current NOA)
N.T.B. Magnum		PA 114	Glass reinforced nylon fastener for use in gypsum and cementitious wood fiber decks.	Olympic Manufacturing Group, Inc. (with current NOA)

EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Architectural Testing Inc.	ATI-17214	Wind Uplift Classification	03/20/96
Architectural Testing Inc.	ATI-17601-01	Wind Uplift Classification	06/29/96
Architectural Testing Inc.	ATI-17601-02	Wind Uplift Classification	07/30/96
Architectural Testing Inc.	ATI-18535	Wind Uplift Classification	10/14/96
Factory Mutual Research Corporation	J.I. 0T8A2.AM	Fire Classification	04/23/91
Factory Mutual Research Corporation	J.I. 0W2A5.AM	Wind Uplift Classification	05/28/93



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<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Factory Mutual Research Corporation	J.I. 2W8A8.AM	Wind Uplift and Fire Classification	09/27/93
Factory Mutual Research Corporation	J.I. 1V3A1.AM	Pullout Test	05/11/92
Factory Mutual Research Corporation	J.I. 2V1A1.AM	Wind Uplift Classification	01/20/93
Factory Mutual Research Corporation	J.I.1B7A5.AM	Wind Uplift and Fire Classification	02/23/98
Factory Mutual Research Corporation	J.I. 2Z3A9.AM	Wind Uplift and Fire Classification	07/30/97
Factory Mutual Research Corporation	J.I. 4B2A1.AM	Wind Uplift Classification	06/11/97
Factory Mutual Research Corporation	J.I.3B8Q4.AM	Wind Uplift Classification	06/04/97
Factory Mutual Research Corporation	J.I. 0B4A7.AM	Wind Uplift Classification	05/29/97
Factory Mutual Research Corporation	J.I. 2B2A1.AM	Wind Uplift Classification	05/29/97
Factory Mutual Research Corporation	J.I. 2Z2A8.AM	Seam Test	05/16/97
Factory Mutual Research corporation	J.I. 3B5A1.AM	Wind Uplift and Fire Classification	04/28/97
Factory Mutual Research Corporation	J.I.1Z2A7.AM	Fire Classification	03/20/96
Factory Mutual Research Corporation	J.I. 3Y7Q2.AM	Corrosion Test	03/14/95
Factory Mutual Research Corporation	J.I. 1Y2A1.AM	Seam Test	02/23/95
Factory Mutual Research Corporation	J.I. 2X7A4.AM	Wind Uplift Classification	02/09/95
Factory Mutual Research Corporation	J.I.3X5A2.AM	Hail Damage Testing	07/18/94
Underwriters Laboratories, Inc.	96NK21757	Fire Classification	09/06/96
Underwriters Laboratories, Inc.	96NK10924	Fire Classification	10/31/96
Underwriters Laboratories, Inc.	96NK28871	Fire Classification	11/06/96
Underwriters Laboratories, Inc.	96NK33323	Fire Classification	10/24/97



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SYSTEMS

- Membrane Type:** Single Ply, Thermoset, EPDM, Reinforced and Noneinforced
- Deck Type 4:** Lightweight Concrete, Uninsulated, over Steel Deck New Construction
- Deck Description:** Cellular or Aggregate Lightweight Concrete
- System Type F-1:** Membrane fully adhered to a properly primed lightweight insulating concrete deck.

All General and System Limitations apply.

- Vapor Retarder:** None
- Membrane:** Versigard EPDM, II EPDM, Reinforced, II Reinforced EPDM, or Versigard White/ Black EPDM, 45 or 60 mil membrane fully adhered to the lightweight deck using G200SA applied to the substrate at a rate of 1 gal/60 ft.², or B-500 applied to the substrate at 1 gal./sq.
- Surfacing:** (Optional) A two part surfacing consisting of Hypalon applied to a clean membrane surface, after a two week cure at the rate of 1 gal./150 ft.² and silica sand applied into the wet coating at a rate of 35 lbs./sq.
- Maximum Design Pressure:** -45 psf. (See Additional Limitation #9)

LIGHTWEIGHT INSULATING CONCRETE SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.
3. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be a minimum of 250 psi.



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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 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 or Architect may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Miami-Dade County Protocol TAS 105 and calculations in compliance with Miami-Dade Roofing Application Standard RAS 117.
- 7 Perimeter and corner areas shall comply with the enhanced uplift pressure of these areas, as calculated in compliance with Chapter 23 of the South Florida Building Code. Fastener densities shall be increase for both insulation and base sheet as calculated in compliance with Miami-Dade County Roofing Application Standard RAS 117. **(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 Miami-Dade County Roofing Application Standard RAS 111 and the wind load requirements of Chapter 23 of the South Florida Building Code.
- 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.)**



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NOTICE OF ACCEPTANCE STANDARD CONDITIONS

- 1 Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
- 2 Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
- 3 Renewals of Acceptance will not be considered if:
 - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b) The product is no longer the same product (identical) as the one originally approved;
 - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
- 4 Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
- 5 Any of the following shall also be grounds for removal of this Acceptance:
 - a) Unsatisfactory performance of this product or process;
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
- 6 The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
- 7 A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all times. The copies need not be resealed by the engineer.
- 8 Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
- 9 This Acceptance contains pages 2 through 7.

END OF THIS ACCEPTANCE



Frank Zuloaga, RRC
Roofing Product Control Examiner