



**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)

**Owens Corning
One Owens Corning Parkway
Toledo, OH 43659**

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 the BCCO and accepted by the Building Code and Product Review Committee 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: MiraVista Shake and Slate

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 5.
The submitted documentation was reviewed by Frank Zuloaga, RRC.



**NOA No. 01-0215.02
Approval Date: 05/16/02
Expiration Date: 05/16/07
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ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub-Category: Shakes & Slate
Materials: Fiberglass-reinforced Composite
Deck Type: Wood

SCOPE:

This approves a roofing system using MiraVista Shake & Slate, manufactured by Owens Corning as described in this Notice of Acceptance. For the locations where the pressure requirements, as determined by applicable building code, do not exceed the design pressure values obtain by calculations in compliance with RAS 127 using the values listed in section 4 herein. The attachment calculations shall be done as a moment based system.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
MiraVista Shakes & Slate	L - 22" W - 5.5", 7.8" & 13.3" Thickness from $\frac{3}{8}$ " at butt end to $\frac{3}{4}$ " at tail end.	PA 110	Fiberglass-reinforced composite material.
Clip	2" x $\frac{3}{4}$ " x $\frac{1}{2}$ " Min 18 gauge		J-shaped stainless steel clip for panel installation

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
PRI Asphalt Technologies	OCF-23-02-01 OCF-23-02-02	PA 108	07/20/99
PRI Asphalt Technologies	OCF-24-02-01 OCF-24-02-02	PA 102 Static Uplift Resistance	10/04/99
PRI Asphalt Technologies	OCF-32-02-01	PA 102 Static Uplift Resistance	04/11/2000
PRI Asphalt Technologies	OCF-057-02-01 OCF-058-02-01	PA 100 Wind Driven Rain	12/07/01
Underwriters Laboratories, Inc.	00Nk30080	ASTM E 108	11/08/00
Exterior Research & Design, LLC	100373.10.01-1	TAS 135	10/29/01



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APPROVED SYSTEMS:

- Deck Type:** Wood, Non-insulated
- Deck Description:** New Construction: $1\frac{9}{32}$ " or greater plywood or wood plank.
- Slope Range:** 4:12" or greater
- Underlayment:** Underlayment shall be applied in accordance with applicable Building Code. Two plies of ASTM D 226 Type I felt overlapped 19", or a single layer of one of the following: ASTM D 226 Type II felt overlapped a minimum of 4" on side laps and 6" end lap. Underlayment shall be installed with minimum 12 ga. corrosion resistant roofing nails and tin caps, spaced 12" o.c. staggered in the field and 6" o.c. at the laps. Nails shall penetrate through the sheathing or wood plank a minimum of $\frac{3}{16}$ " or penetrate a 1" or greater thickness of lumber a minimum of 1".
- Interlayment:** Interlayment (required) shall be minimum ASTM D 226 Type II with a minimum width of 18" and shall be applied between each succeeding course of shake or slate. Interlayment shall be installed with minimum 12 ga. corrosion resistant roofing nails, spaced 12" o.c. No Interlayment shall be exposed.
- Eave Metal:** Eave and gable drip metal shall be in compliance with applicable Building Code and in accordance with RAS 111.
- Valleys:** Valley metal shall be a minimum 24" wide preformed W-shape metal with returns. Valley metal shall be set over a minimum 36" wide sweat sheet of minimum ASTM D 226 type II embedded in roofing cement, or an approved self-adhered membrane. Valley metal shall be secure with roofing nails spaced a maximum 12" o.c. at outer most part of metal on each side. Valley detail shall be in accordance with the current published manufacturer's literature.
- Application:** MiraVista Shakes & Slates shall be installed in accordance with Owens Corning's current published installation manual. MiraVista Shake & Slate shall have a maximum 10" exposure. MiraVista Shake & Slate shall be fastened with a minimum of two corrosion resistant roofing nails as listed herein and shall penetrate through underlying panel. Nails shall be of sufficient length to penetrate through the sheathing a minimum of $\frac{3}{16}$ ". See Table 3 herein for attachment resistant.
- Starter:** Install required starter flush or over the edge, overhang shall not exceed 1". Fasten each starter with a minimum of two corrosion resistant roofing nails. Nails shall be of sufficient length to penetrate sheathing $\frac{3}{16}$ ".
- Ridge & Hips:** Ridges shall be covered with panels having a width that is approximately the same as the field exposure. Pre-manufactured hip and ridge units are acceptable. In all cases the ridge pieces shall cover the last course of the field shake & slate by a minimum of 4- $\frac{1}{2}$ ". Ridge & Hip panels shall be set over one or more plies of 8" wide ASTM D 226 type II felt. Fasten each side of ridge or hip with one corrosion resistant screw of sufficient length to penetrate through the sheathing $\frac{3}{16}$ ". All trim pieces shall have double coverage. See manufacture's published installation manual for detail.



DATA FOR ATTACHMENT CALCULATIONS:

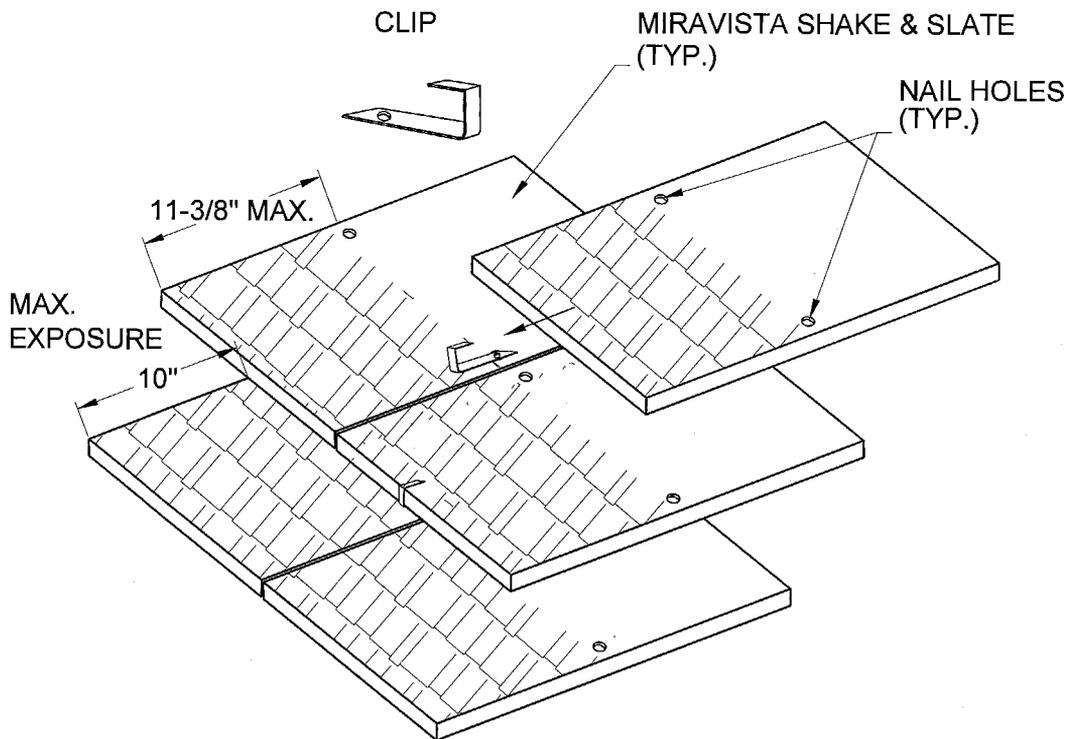
Table 1: Aerodynamic Multipliers- λ(ft³)	
Profile	λ (ft³) Direct Deck Application
MiraVista Shake	0.341
MiraVista Slate	0.439

Table 2: Restoring Moments due to Gravity - M_g (ft-lbf)	
Profile	4":12" or greater Direct Deck
MiraVista Shake & Slate	3.7

Table 3: Attachment Resistance Expressed as a Moment - M_f (ft-lbf) for Nail-On Systems		
Profile	Approved Nails	Approved Field Clip With:
	Two 8d	Two 6d
MiraVista Shake & Slate	38.4	77.5 ¹

1. 18 gauge clip installed on one of the two nail location below the clipped panel.

DRAWINGS



MIRA VISTA SHAKE & SLATE



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. This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.
3. The applicant shall retain the services of a Miami-Dade County certified testing laboratory to maintain quality control in compliance with the Florida Building Code.
4. Application for building permit shall be accompanied by copies of the following:
 - a. This Notice of Acceptance.
 - b. Any other documents required by the Building Official or applicable Building Code in order to properly evaluate the installation of this system.
5. Calculations in accordance with RAS 127 shall be performed as an moment based system.

END OF THIS ACCEPTANCE



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