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
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www.miamidade.gov/economy

Westlake Royal Roofing LLC
7575 Irvine Center Drive #100
Irvine, California, USA 92816

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: Saxony-Slate & Saxony Shake, Flat Profile Tile

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 NOA# 22-0714.15 consists of pages 1 through 7.
The submitted documentation was reviewed by Alex Tigera.

06/27/24

ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub-Category: Roofing Tiles
Material: Concrete

1. SCOPE

This approves a roofing system using **Saxony-Slate & Saxony Shake**, as manufactured by Westlake Royal Roofing LLC as described in Section 2 of this Notice of Acceptance. For locations where the pressure requirements, as determined by applicable Building Code does not exceed the design pressure values obtained 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.

2. PRODUCT DESCRIPTION

Manufactured by Applicant	Dimensions	Test Specifications	Product Description
Saxony-Slate & Saxony Shake	L =16.5 ” W =13 ” H = 1.42” Thickness: .66”	TAS 112	Flat, interlocking, concrete tile equipped with two nail holes. For direct deck or battened nail-on, mortar or adhesive set applications.
Trim Pieces	L= varies W = varies Varying thickness	TAS 112	Accessory trim, concrete roof pieces for use at hips, rakes, ridges and valley terminations. Manufactured for each tile profile.

2.1 PRODUCTS MANUFACTURED BY OTHERS

Product Name	Product Description	Manufacturer (With Current NOA)
ICP Adhesives Polyset AH-160	Two component polyurethane foam adhesive.	ICP Adhesives and Sealants, Inc.
TILE BOND™ Roof Tile Adhesive	Single component polyurethane foam roof tile adhesive.	The Dow Chemical Company
“Tile Tite” Roof Tile Mortar	Premixed, pre-bagged roof tile mortar.	Bermuda Roof Co. Inc.
Bonsal Roof Tile Mortar	Premixed, pre-bagged roof tile mortar.	Bonsal American
“Quikrete” Roof Tile Mortar, FL-15	Premixed, pre-bagged gray roof tile mortar.	The Quikrete Companies, Inc.

2.2 MANUFACTURING LOCATION

1. Katy, Texas

2.3 SUBMITTED EVIDENCE:

Test Agency	Test Identifier	Test Name/Report	Date
Redland Technologies	7161-03 Appendix III	PA 102 & PA 102(A)	Dec. 1991
	7161-03 Appendix II	PA 108 (Nail-On)	Dec. 1991
	Letter	PA 108 (Nail-On)	Aug. 1994
	P0631-01	PA 108 (Mortar Set)	July 1994
	P0402	Withdrawal Resistance Testing of screw vs. smooth shank nails	Sept. 1993
The Center for Applied Engineering, Inc.	94-060A	PA 101 (Mortar Set)	March, 1994
	94-084	PA 101 (Adhesive Set)	May 1994
	25-7094-2	PA 102 (4" Headlap, Nails, Direct Deck, New Construction)	Oct. 1994
	25-7094-8	PA 102 (4" Headlap, Nails, Battens)	Oct. 1994
	25-7094-5	PA 102 (4" Headlap, Nails, Direct Deck, Recover/Reroof)	Oct. 1994
	25-7183-6	PA 102 (2 Quik-Drive Screws, Direct Deck)	Feb. 1995
	25-7183-5	PA 102 (2 Quik-Drive Screws, Battens)	Feb. 1995
	25-7214-1	PA 102 (1 Quik-Drive Screw, Direct Deck)	March, 1995
	25-7214-5	PA 102 (1 Quik-Drive Screw, Battens)	March, 1995
	Project No. 307025 Test #MDC-77	PA 100	Oct. 1994
Celotex Corporation Testing Service	520109-1	PA 101	Dec. 1998
	520111-4	PA 101	March 1999
	520191-1	PA 101	March 1999
Walker Engineering, Inc.	Calculations	Aerodynamic Multiplier	October 2007
	Calculations	Moment of Gravity	August 2007
	Calculations	25-7094	February 1996
	Calculations	25-7496	April 1996
	Calculations	25-7584	December 1996
	Calculations	25-7804b-8	December 1996
	Calculations	25-7804-4 & 5	December 1996
	Calculations	25-7848-6	December 1996
	Calculations	25-7183	March 1995
	Calculations	Aerodynamic Multipliers	April 1999
	Calculations	Two Paddy Adhesive Set System	April 1999
American Test Lab of South Florida	TAS 112	RT1023.01-18	October 30, 2018
	TAS 112	RT0502.02-24	05/15/24
	TAS 112	RT0502.01-24	05/15/24
Walker Engineering, Inc.	Calculations	Restoring Moment Aerodynamic Multipliers	March 29, 2018

3. LIMITATIONS

3.1 Fire classification is not part of this acceptance.
3.2 For mortar or adhesive set tile applications, a static field uplift test shall be performed in accordance with TAS 106.
3.3 Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test in accordance with TAS 112, appendix 'A'. Such testing shall be submitted to the Miami-Dade Product Control office for review.
3.4 Minimum underlayment shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.
3.5 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.
3.6 Mechanically attached tiles minimum 4/12 slope.
3.7 This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.
3.8 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.

4. INSTALLATION

4.1 **Saxony-Slate & Saxony Shake** and its components shall be installed in strict compliance with Roofing Application Standard RAS 118, RAS 119, and RAS 120.
4.2 Data For Attachment Calculations

Table 1: Average Weight (W) and Dimensions (l x w)

Tile Profile	Weight-W (lbf)	Length-l (ft.)	Width-w (ft)
Saxony-Slate & Saxony Shake	10.9	1.38	0.92

Table 2: Aerodynamic Multipliers - λ (ft^3)

Tile Profile	λ (ft^3) Batten Application	λ (ft^3) Direct Deck Application
Saxony-Slate & Saxony Shake	0.144	0.156

Table 3: Restoring Moments due to Gravity - M_g (ft.-lbf)

Tile Profile	2":12"		3":12"		4":12"		5":12"		6":12"		7":12" or greater	
Saxony-Slate & Saxony Shake	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck
	N/A	7.48	N/A	7.42	6.69	7.32	6.56	7.18	6.41	7.02	6.24	6.83

Table 4: Attachment Resistance Expressed as a Moment - M_f (ft.-lbf) for Mechanically Attached Systems				
Tile Profile	**Fastener Type**	**Direct Deck (min 15/32" plywood)**	**Direct Deck (min. 19/32" plywood)**	**Battens**
Saxony-Slate & Saxony Shake	2-10d Ring Shank Nails	30.9	38.1	17.2
	1-10d Smooth or Screw Shank Nail	7.3	9.8	4.9
	2-10d Smooth or Screw Shank Nails	14.0	18.8	7.4
	1 #8 Screw	30.8	30.8	18.2
	2 #8 Screw	51.7	51.7	24.4
	1-10d Smooth or Screw Shank Nail (Field Clip)	24.3	24.3	24.2
	1-10d Smooth or Screw Shank Nail (Eave Clip)	19.0	19.0	22.1
	2-10d Smooth or Screw Shank Nails (Field Clip)	35.5	35.5	34.8
	2-10d Smooth or Screw Shank Nails (Eave Clip)	31.9	31.9	32.2
	2-10d Ring Shank Nails[1]	50.3	65.5	48.3
1 Installation with a 4" tile headlap and fasteners are located a min. of 2½" from head of tile.				

Table 5: Attachment Resistance Expressed as a Moment M_f (ft.-lbf) for Two Paddy Adhesive Set Systems		
Tile Profile	**Tile Application[2]**	**Minimum Attachment Resistance**
Saxony-Slate & Saxony Shake	TILE BOND™ Roof Tile Adhesive	31.3[3]
	ICP Adhesives Polyset® AH-160	31.3[4]
2 See manufactures component approval for installation requirements. 3 Medium paddy weight of 13.9 grams per paddy of TILE BOND™ Roof Tile Adhesive. 4 Medium paddy weight of 8 grams per paddy of Polyset® AH-160		

Table 6: Attachment Resistance Expressed as a Moment - M_f (ft.-lbf) for Single Paddy Adhesive Set Systems		
Tile Profile	**Tile Application**	**Minimum Attachment Resistance**
Saxony-Slate & Saxony Shake	ICP Adhesives Polyset AH-160	118.9[5]
	ICP Adhesives Polyset AH-160	40.4[6]
5 Large paddy weight of 45 grams per paddy of Polyset® AH-160		
6 Medium paddy weight of 24 grams per paddy of Polyset® AH-160.		

Table 7: Attachment Resistance Expressed as a Moment - M_f (ft.-lbf) for Mortar Set Systems		
Tile Profile	**Tile Application**	**Attachment Resistance**
Saxony-Slate & Saxony Shake	Mortar Set[7]	39.0
7 See specific mortar manufacturers Notice of Acceptance		

5. LABELING

All tiles shall bear the imprint or identifiable marking of the manufacturer's name or logo **(See Detail Below)**, or following statement: "Miami-Dade County Product Control Approved".

(LOCATED ON UNDERSIDE OF TILE)

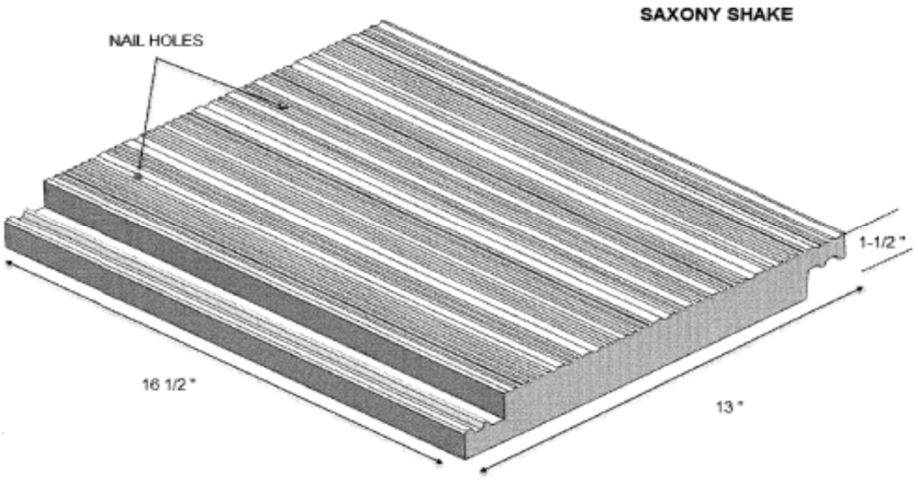
6. BUILDING PERMIT REQUIREMENTS:

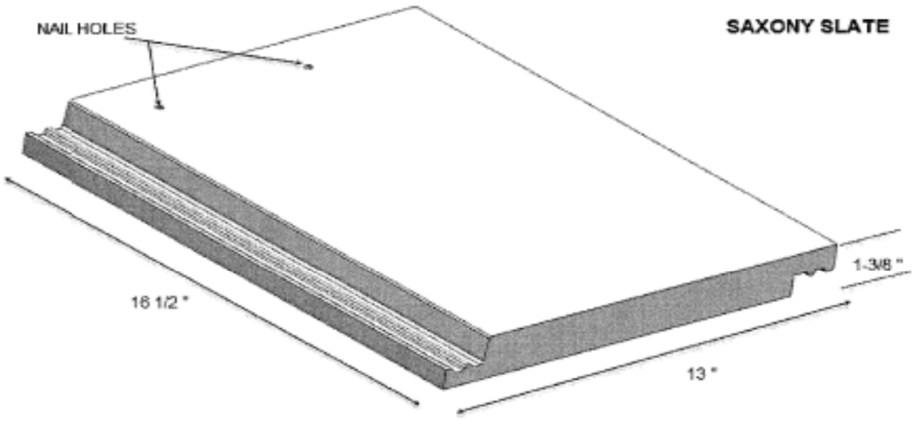
6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance.

6.1.2 Any other documents required by Building Official or Applicable building code in order to properly evaluate the installation of this system.

PROFILE DRAWINGS





END OF THIS ACCEPTANCE