

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

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Westlake Royal Roofing LLC 7575 Irvine Center Drive, Suite 100 Irvine, CA 92618

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: Spanish 'S' Nuevo Concrete Roof 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.

Steries

This NOA revises NOA# 19-1021.09 and consists of pages 1 through 7. The submitted documentation was reviewed by Alex Tigera.



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ROOFING ASSEMBLY APPROVAL

Category:RoofingSub-Category:Roofing TilesMaterial:ConcreteDeck Type:Wood

1. SCOPE

This approves a system using **Spanish 'S' Nuevo Concrete Roof Tile**, as manufactured by Westlake Royal Roofing LLC in Lake Wales, FL., and described 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 the installation section herein. The attachment calculations shall be done as a moment based system.

2. PRODUCT DESCRIPTION

Manufactured by Applicant	Dimensions	Test <u>Specifications</u>	Product <u>Description</u>
Spanish 'S' Nuevo Tile	L = 17" W = 9 $\frac{3}{4}$ " H = 2 $\frac{27}{32}$ " Min. 0.65" thick	TAS 112	High profile, interlocking, one-piece, 'S' shaped, high-pressure extruded concrete roof tile equipped with three nail holes. For direct deck nail-on, mortar set 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 MANUFACTURING LOCATION

1. Lake Wales, FL

2.2 SUBMITTED EVIDENCE:

Test Agency	Test Identifier	Test Name/Report	Date
Redland Technologies	7161-03	Static Uplift Testing	Dec. 1991
	Appendix III	PA 102 & PA 102(A)	
Redland Technologies	7161-03	Wind Tunnel Testing	Dec. 1991
	Appendix II	PA 108 (Nail-On)	
Redland Technologies	P0647-01	Wind Tunnel Testing	Aug. 1994
		PA 108 (Mortar Set)	
Redland Technologies	P0402	Withdrawal Resistance Testing of	Sept. 1993
		screw vs. smooth shank nails	
The Center for Applied	94-084	Static Uplift Testing	May 1994
Engineering, Inc.		PA 101 (Mortar Set)	
The Center for Applied	94-083	Static Uplift Testing	April 1994
Engineering, Inc.		PA 101 (Adhesive Set)	



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2.2 SUBMITTED EVIDENCE:

Test Agency	Test Identifier	Test Name/Report	Date
The Center for Applied	25-7183-4	Static Uplift Testing	Feb. 1995
Engineering, Inc.		PA 102 (2 Quik-Drive Screws,	
		Direct Deck)	
The Center for Applied	25-7214-3	Static Uplift Testing	March, 1995
Engineering, Inc.		PA 102 (1 Quik-Drive Screw,	
		Direct Deck)	
Redland Technologies	Letter Dated Aug. 1, 1994	Wind Tunnel Testing	Aug. 1994
		PA 108 (Nail-On)	
The Center for Applied	Project No. 307025	Wind Driven Rain	Oct. 1994
Engineering, Inc.	Test #MDC-78	PA 100	
Nutting Engineering	13343.1	Physical Properties	Feb 2009
		TAS 112	
Celotex Corporation Testing	520111-3	Static Uplift Testing	Dec. 1998
Service	520191-2-1	PA 101	March 1999
Walker Engineering, Inc.	Calculations	Aerodynamic Multiplier	Jan 2009
Walker Engineering, Inc.	Evaluation Calculations	25-7094	February 1996
Walker Engineering, Inc.	Evaluation Calculations	25-7496	April 1996
Walker Engineering, Inc.	Evaluation Calculations	25-7584	December 1996
		25-7804b-8	
		25-7804-4 & 5	
		25-7848-6	
Walker Engineering, Inc.	Evaluation Calculations	25-7183	March 1995
Walker Engineering, Inc.	Calculations	Two Patty Adhesive Set System	April 1999
Walker Engineering, Inc.	Evaluation Calculations	Restoring Moment Due to Gravity	Jan 2009
Walker Engineering, Inc.	Calculations	Aerodynamic Multiplier	09/01/10
		Restoring Moment Due to Gravity	09/02/10
American Test Lab of South	RT0130.01-14	TAS 112	02/05/14
Florida	RT0426.01-14	TAS 112	05/02/14
	RT0511.02-18	TAS 112	05/17/18
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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 Building Code Compliance 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** 4/12 minimum slope for mechanically attached tiles.
- **3.7** This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.
- **3.8** May be installed on slopes 7:12 and greater
- 3.9 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** Spanish 'S' Nuevo Concrete Roof Tile 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 (I x w)				
Tile Profile Weight-W (lbf) Length-I (ft.) Width-w (ft.)				
Spanish 'S' Nuevo Tile	8.95	1.417	0.8125	

Table 2: Aerodynamic Multipliers - λ (ft³)					
$ \begin{array}{cccc} \text{Tile} & & & & \lambda (\text{ft}^3) & & \lambda (\text{ft}^3) \\ \text{Profile} & & \text{Batten Application} & & \text{Direct Deck Application} \\ \end{array} $					
Spanish 'S' Nuevo Tile 0.215 0.233					

Table 3: Restoring Moments due to Gravity - M _g (ftlbf)												
Tile Profile	2:1	2	3:1	2	4:	12	5:1	12	6:	12	7:12 or	greater
Spanish 'S'	Battens	Direct										
Nuevo Tile		Deck										
	N/A	6.00	N/A	5.93	5.21	5.83	5.09	5.70	4.96	5.56	4.82	5.39



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Tile Profile	Fastener Type	Direct Deck (min 15/32" plywood)	Direct Deck (min. 19/32" plywood)	Battens
Spanish 'S'	2-10d Ring Shank Nails	28.6	41.2	19.4
Nuevo Tile	1-10d Smooth or Screw Shank Nail	5.1	6.8	2.8
	2-10d Smooth or Screw Shank Nails	6.9	9.2	7.3
	1 - #8 Screw	20.7	20.7	18.1
	2 - #8 Screws	43.2	43.2	29.8
	1-10d Smooth or Screw Shank Nail (Field Clip)	23.1	23.1	19.0
	1-10d Smooth or Screw Shank Nail (Eave Clip)	29.3	29.3	24.0
	2-10d Smooth or Screw Shank Nails (Field Clip)	27.6	27.6	38.6
	2-10d Smooth or Screw Shank Nails (Eave Clip)	38.1	38.1	41.8
	2 10d Ding Shapk Noile1	22.4	40.4	45.0
	2-10d Ring Shank Nails ¹ n with a 4" tile headlap and fasteners are locate	33.1	48.1	45.2

Table 5: Attachment Resistance Expressed as a Moment M _f (ftlbf) for Two Patty Adhesive Set Systems					
Tile Tile Application ² Minimum Attachment Profile Resistance					
Spanish 'S' Nuevo TileTILE BOND™ Roof Tile Adhesive29.3³ICP Adhesives Polyset® AH-16029.3⁴					

- See manufactures component approval for installation requirements.
- Medium paddy weight of 10.7 grams per paddy of TILE BOND™ Roof Tile Adhesive.
- Medium paddy weight of 8 grams per paddy of Polyset® AH-160

Table 6: Attachment Resistance Expressed as a Moment - M _f (ftlbf) for Single Patty Adhesive Set Systems				
Tile Profile	Tile Application	Minimum Attachment Resistance		
Spanish 'S' Nuevo Tile	ICP Adhesives Polyset® AH-160	66.5 ⁵		
	ICP Adhesives Polyset® AH-160	38.7 ⁶		
	ams per paddy of Polyset® AH-160.			

Medium paddy weight of 24 grams per paddy of Polyset® AH-160.



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Table 7: Attachment Resistance Expressed as a Moment - M _f (ftlbf) for Mortar Set Systems				
Tile Tile Attachment Profile Application Resistance				
Spanish 'S' Nuevo Tile Mortar Set ⁷ 24.5				
7 Tile-Tite Roof Tile Mortar.				

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".



SPANISH 'S' NUEVO CONCRETE ROOF TILE (LAKE WALES, FL.) (LOCATED ON UNDERSIDE OF TILE)

6. BUILDING PERMIT REQUIREMENTS

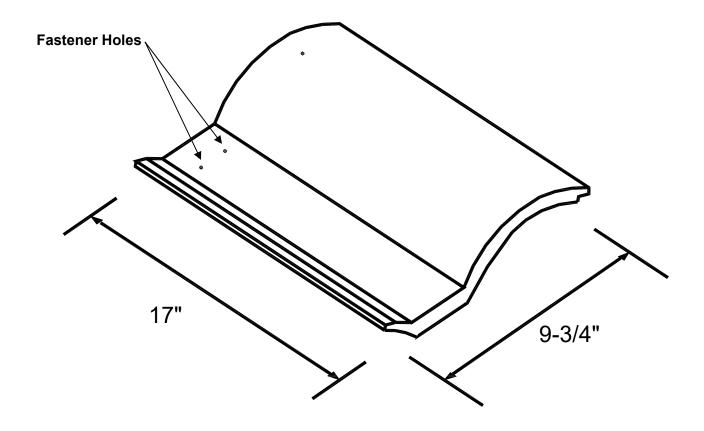
- **6.1** Application for building permit shall be accompanied by copies of the following:
 - **6.1.1** This Notice of Acceptance.
 - **6.1.2** Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of this system.



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PROFILE DRAWINGS



SPANISH 'S' NUEVO CONCRETE ROOF TILE

END OF THIS ACCEPTANCE



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