

**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: Plantation 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.

This NOA renews NOA# 22-0331.15 and consists of pages 1 through 7.
The submitted documentation was reviewed by Alex Tigera.



12/18/25

**NOA No.: 25-0722.01
Expiration Date: 12/08/30
Approval Date: 12/18/25
Page 1 of 7**

ROOFING ASSEMBLY APPROVAL

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

1. SCOPE

This approves a roofing system using **Plantation Concrete Roof Tile**, as manufactured by Westlake Royal Roofing, LLC in Okeechobee, FL as described in Section 2 of this Notice of Acceptance, designed to comply with the Florida Building Code for High Velocity Hurricane Zone. For use in 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 prepared as a moment based system.

2. PRODUCT DESCRIPTION

<u>Manufactured by Applicant</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Plantation Tile	Length: 16½" Width: 13"	TAS 112	Flat profile concrete roof tile, Type 3a Interlocking, Class III; 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. MANUFACTURING LOCATION

1. Okeechobee, FL

2.2 PRODUCTS MANUFACTURED BY OTHERS

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
APOC® Polyset® AH-160 (HFC)	Two component polyurethane foam adhesive.	ICP Construction, Inc.
APOC® Polyset® AH-160 (HFO1)	Two component polyurethane foam adhesive.	ICP Construction, Inc.
TILE BOND™ Roof Tile Adhesive	Single component polyurethane foam roof tile adhesive.	DuPont de Nemours, Inc.
DAP StormBond® 2 Roof Tile Adhesive	Two component polyurethane foam adhesive.	DAP Global, Inc.
DAP StormBond® Roof Tile Adhesive	One component polyurethane foam adhesive.	DAP Global, Inc.
Quikrete® Roof Tile Mortar, FL-15	Premixed, pre-bagged gray roof tile mortar.	The Quikrete Companies, Inc.



NOA No.: 25-0722.01
Expiration Date: 12/08/30
Approval Date: 12/18/25
Page 2 of 7

2.3 SUBMITTED EVIDENCE:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
American Test Lab of South Florida	RT0624.05-14 RT0817.07-20	TAS 112 TAS 112	07/03/14 08/14/20
Redland Technologies	7161-03 Appendix III	Static Uplift Testing PA 102 & PA 102(A)	Dec. 1991
The Center for Applied Engineering, Inc.	94-060B 94-084	Static Uplift Testing PA 101 (Adhesive Set) Static Uplift Testing PA 101 (Mortar Set)	March 1994 May 1994
Redland Technologies	7161-03 Appendix II Letter Dated Aug. 1, 1994	Wind Tunnel Testing PA 108 (Nail-On) Wind Tunnel Testing PA 108 (Nail-On) Wind Tunnel Testing PA 108 (Mortar Set)	Dec. 1991 Aug. 1994 July 1994
	P0631-01 P0402	Withdrawal Resistance Testing of screw vs. smooth shank nails	Sept. 1993
The Center for Applied Engineering, Inc.	Project No. 307025 Test #MDC-76	Wind Driven Rain PA 100	Oct. 1994
Walker Engineering, Inc.	Calculations Calculations Calculations Calculations Calculations	Aerodynamic Multiplier 25-7183 25-7094 25-7496 25-7584 25-7804b-8 25-7804-4 & 5 25-7848-6 Two Patty Adhesive Set System	March 1999 April 1999 March 1995 February 1996 April 1996 December 1996 April 1999
Farabaugh Engineering and Testing Inc.	T295-11 T306-11 T279-11	TAS-108 TAS-108 TAS-108	10/05/11 10/04/11 09/23/11
PRI Construction Material Technologies	DAPF-004-02-08 DAPF-004-02-09 DAPF-004-02-10 2002T0003.05 RT0511.04-25	TAS 101 TAS 101 TAS 101 TAS 101 TAS 112	07/26/18 07/26/18 07/26/18 11/06/20 05/16/25

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 Minimum 4/12 slope requirement for mechanically attached tiles.
- 3.6 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.
- 3.7 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 **Plantation 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 (l x w)

Tile Profile	Weight-W (lbf)	Length-l (ft)	Width-w (ft)
Plantation Tile	11.6	1.375	1.08

Table 2: Aerodynamic Multipliers - λ (ft³)

Tile Profile	λ (ft ³) Batten Application	λ (ft ³) Direct Deck Application
Plantation Tile	0.267	0.289

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

Tile Profile	2": 12"		3": 12"		4": 12"		5": 12"		6": 12"		Greater than 7": 12"	
	Battens	Direct Deck	Battens	Direct Deck								
Plantation Tile	N/A	7.91	N/A	7.79	6.75	7.67	6.61	7.52	6.44	7.32	6.26	7.04

**Table 4: Attachment Resistance Expressed as a Moment - M_f (ft-lbf)
For Nail-On Systems**

Tile Profile	Fastener Type	Direct Deck (Min 15/32" plywood)	Direct Deck (Min. 19/32" plywood)	Battens
Plantation Tile	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 minimum of 2½" from the head of tile.

**Table 5: Attachment Resistance Expressed as a Moment M_f (ft.-lbf)
for Two Patty Adhesive² Set Systems**

Tile Profile: Plantation Tile	Tile Application	Paddy weight	Adhesive Contact Area	Minimum Attachment Resistance
TILE BOND™ Roof Tile Adhesive – (Independent)		13.9 grams each	-	31
APOC® Polyset® AH-160 (HFC & HFO1)		8 grams each	-	31
DAP StormBond® 2 Roof Tile Adhesive		8 grams each	-	45
DAP StormBond® Roof Tile Adhesive		18.7 grams to underlayment	-	76
		10.5 grams at headlap	-	

2. See manufacturer component approval for installation requirements.

**Table 6: Attachment Resistance Expressed as a Moment - M_f (ft-lbf)
for Single Patty Adhesive³ Set Systems**

Tile Profile: Plantation Tile

Tile Application	Paddy weight	Adhesive Contact Area	Minimum Attachment Resistance
APOC® Polyset® AH-160 (HFC & HFO1)	45 grams each	-	119
APOC® Polyset® AH-160 (HFC & HFO1)	24 grams each	-	40
DAP StormBond® 2 Roof Tile Adhesive	45 grams each	-	73
DAP StormBond® 2 Roof Tile Adhesive	24 grams each	-	48

3. See manufacturer component approval for installation requirements.

**Table 7: Attachment Resistance Expressed as a Moment - M_f (ft-lbf)
for Mortar Set Systems**

Tile Profile	Tile Application	Attachment Resistance
Plantation Tile	Mortar Set ⁴	39.0

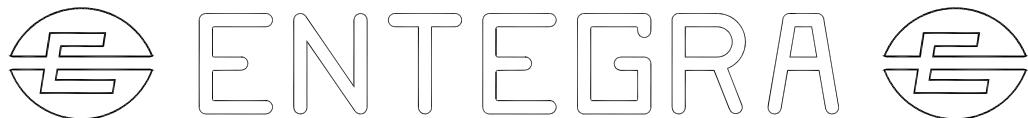
4. See specific mortar manufacturer's Notice of Acceptance.

5. LABELING

All tiles shall bear the imprint or identifiable marking of the manufacturer's name or logo as seen below or following statement: "Miami-Dade County Product Control Approved".



OR



PLANTATION ROOF TILE LABEL (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.

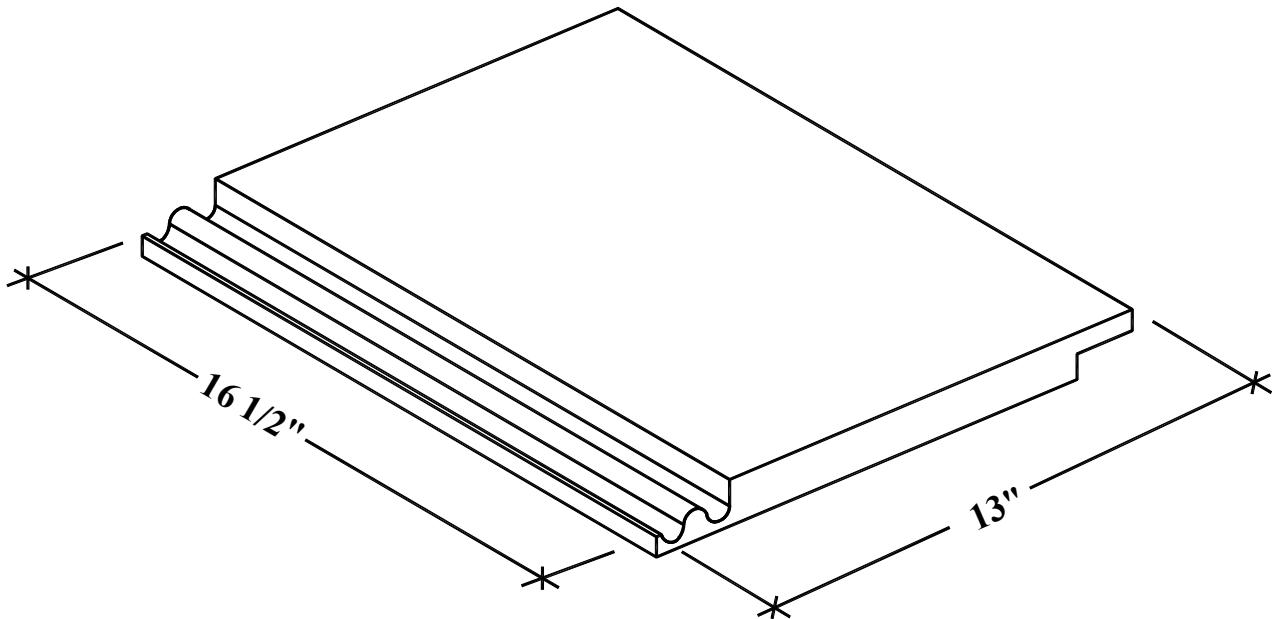
6.1.2 Any other documents required by Building Official or Applicable building code in order to properly evaluate the installation of this system.

MIAMI-DADE COUNTY
APPROVED

NOA No.: 25-0722.01
Expiration Date: 12/08/30
Approval Date: 12/18/25
Page 6 of 7

PROFILE DRAWING

PLANTATION FLAT CONCRETE TILE



END OF THIS ACCEPTANCE