

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

www.miamidade.gov/economy

Crown Building Products of Florida, LLC. 6018 HWY. 72 Arcadia, FL. 34266

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: Sanibel 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.

This NOA revises NOA# 23-0927.04 and consists of pages 1 through 7. The submitted documentation was reviewed by Alex Tigera.

09/05/24

MIAMI-DADE COUNTY

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ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	Roofing Tiles
Material:	Concrete
Deck Type:	Wood

1. SCOPE

This approves a system using **Sanibel Concrete Roof Tile**, as manufactured by **Crown Building Products of Florida**, **LLC**., and 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

<u>Manufactured by</u> <u>Applicant</u>	Dimensions	Test <u>Specifications</u>	Product <u>Description</u>
Sanibel Concrete Roof Tile	L = 17" W = 13.25" H = 3.1" Thickness: 0.56"	TAS 112	High profile, interlocking, one-piece, 'S' shaped concrete roof tile (Type 1a Class III), equipped with two nail holes. For direct deck or battened nail-on (4/12 min slope), 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 PRODUCTS MANUFACTURED BY OTHERS

<u>Product Name</u>	Product Description	<u>Manufacturer</u> (With Current NOA)
ICP Adhesives Polyset [®] AH-160	Two component polyurethane foam adhesive.	ICP Construction, Inc.
APOC [®] Polyset [®] RTA-1	Single component polyurethane foam roof tile adhesive.	ICP Construction, Inc.
TILE BOND TM Roof Tile Adhesive	Single component polyurethane foam roof tile adhesive.	DuPont de Nemours, Inc.
DAP StormBond [®] Roof Tile Adhesive	One component polyurethane foam adhesive.	DAP Global, Inc.
DAP StormBond [®] 2 Roof Tile Adhesive	Two component polyurethane foam adhesive.	DAP Global, Inc.

2.2 MANUFACTURING LOCATION

2.2.1 Arcadia, FL



2.3 EVIDENCE SUBMITTED

Test Agency	Test Identifier	Test Name/Report	Date
PRI Construction Materials	ACTI-002-02-01	TAS-112	Sept. 2006
	ACTI-002-02-04	TAS-100	Sept. 2006
Redland Technologies	7161-03 Appendix III	Static Uplift Testing TAS 102 & TAS 102(A)	Dec. 1991
	7161-03 Appendix II	Wind Tunnel Testing TAS 108(Nail-On)	Dec. 1991
	P0402	Withdrawal Resistance Testing of screw vs. smooth shank nails	Sept. 1993
	Letter Dated Aug. 1, 1994	Wind Tunnel Testing TAS 108 (Nail-On)	Aug. 1994
	P0631-01	Wind Tunnel Testing TAS 108 (Mortar Set)	July 1994
Nutting Engineering	13343.1	Physical Properties TAS 112	June 2006
The Center for Applied	25-7688-3	Static Uplift Testing	June 1996
Engineering, Inc.	25-7688-10	TAS 101 (Adhesive Set)	July 1996
		TAS 101 (Mortar Set)	T 100 C
	25-7688-5	Static Uplift Testing TAS 102	June 1996
		(3"Headlap, Nails, Direct Deck, New	
		Construction)	
	25-7688-4	Static Uplift Testing TAS 102	June 1996
	520111.2	(4"Headlap, Nails, Clips)	D 1000
Celotex Corporation	520111-3	Static Uplift Testing	Dec. 1998
Testing Services	520191-2-1	TAS 101	March 1999
Trinity/ERD	Calculations	Aerodynamic Multiplier & Restoring Moment Due to Gravity	Sept. 2006
American Test Lab of South	RT1028.01-13	TAS 112	11/13/13
Florida	RT1206.01-13	Aerodynamic Multiplier & Restoring	02/05/14
		Moment Due to Gravity	
	RT1203.01-18	TAS 112	12/11/18
NEMO ETC, LLC	4c-DPBS-20-LSOTM-01.A-R1	TAS 101	12/17/20
	4c-ICP-21-LSOTM-01.B	TAS 101	01/26/22
PRI Construction Materials	2002T0003.08	TAS 101	10/06/20
Technologies	2002T0008	TAS 101	09/26/23
C	2002T0011	TAS 101	09/26/23



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** This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.
- **3.7** Mechanically attached tile minimum slope 4/12.
- **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** Crown Building Products of Florida, LLC.'s Sanibel 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 ProfileWeight-W (lbf)Length-I (ft.)Width-w (ft.)						
Sanibel Concrete Roof Tile 11.33 1.417 1.104						

Table 2: Aerodynamic Multipliers - λ (ft ³)					
Tile λ (ft³) λ (ft³)ProfileBatten ApplicationDirect Deck Application					
Sanibel Concrete Roof Tile 0.289 0.313					

Table 3: Restoring Moments due to Gravity - Mg (ftlbf)												
Tile Profile	2":'	12	3":1	2"	4":1	2"	5":1	2"	6":1	2"	7":12 grea	-
Sanibel Concrete Roof	Battens	Direct Deck	Battens	Direct Deck								
Tile	N/A	9.05	N/A	8.96	8.79	8.81	8.60	8.62	8.38	8.40	8.13	8.16

Table 4: Attachment Resistance Expressed as a Moment - M _f (ftIbf) for Nail-On Systems					
Tile Profile	Fastener Type	Direct Deck (min 15/32" plywood)	Direct Deck (min. 19/32" plywood)	Battens	
Sanibel Concrete	2-10d Ring Shank Nails	28.6	41.2	19.4	
Roof 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	

Table 5: Attachment Resistance Expressed as a Moment M _f (ftIbf) for Two Patty Adhesive ¹ Set Systems				
Tile Profile	Minimum Attachment Resistance			
Sanibel Concrete Roof Tile	TILE BOND™ Roof Tile Adhesive	19 ²		
	TILE BOND™ Roof Tile Adhesive	58 ³		
	ICP Construction Inc.'s Polyset® AH-160	29.3 ⁴		
	DAP StormBond [®] (SB1)	59 ⁵		
	DAP StormBond [®] 2 (SB2)	101 ⁶		
	ICP Construction Inc.'s APOC [®] Polyset [®] RTA-1	53.5 ⁷		

1 See manufacturer component approval for installation requirements.

2 Medium paddy weight of 8 grams between tile and underlayment, paddy weight of 8 grams on overlap of tile of TILE BOND™ Roof Tile Adhesive

- 3 Medium paddy weight of 10 grams installed on the center of the back of the tile, second paddy weight of 20 grams on the underlayment. Place tile so that both paddys combine.
- Medium paddy weight of 8 grams per paddy of Polyset® AH-160
- 5 Medium paddy weight of 8 grams between tile and underlayment, paddy weight of 4 grams on overlap of tile of DAP StormBond [®] (SB1)
- 6 Medium paddy weight of 8 grams between tile and underlayment, paddy weight of 8 grams on overlap of tile of DAP StormBond [®]2 (SB2)
- 7 Medium paddy weight of 22 grams (two beads of 11grams each) between tile and underlayment, paddy weight of 11 grams on overlap of tile of APOC[®] Polyset[®] RTA-1



Table 6: Attachment Resistance Expressed as a Moment - M _f (ft-lbf) for Single Patty Adhesive ⁸ Set Systems					
Tile Profile	Tile Application	Minimum Attachment Resistance			
Sanibel Concrete Roof Tile	ICP Adhesives Polyset® AH-160	66.5 ⁹			
	ICP Adhesives Polyset® AH-160	38.7 ¹⁰			
	DAP StormBond [®] 2 (SB2)	4211			
8 See manufactures com	ponent approval for installation requirements				
9 Large paddy weight of	63 grams of Polyset® AH-160.				
10 Medium paddy weight of	of 24 grams of Polyset® AH-160.				
11 Medium paddy weight of	of 30 grams of DAP StormBond [®] 2(SB2)				

Table 7: Attachment Resistance Expressed as a Moment - M _f (ftIbf) for Mortar Set Systems				
Tile Profile	Tile Application	Attachment Resistance		
Sanibel Concrete Roof Tile	Mortar Set ⁹	24.5		
9 Tile-Tite Roof Tile Mortar.				

Table 8: Attachment Resistance Expressed as a Moment Mf (ftIbf) for Hybrid Attachment				
TileTile ApplicationMinimum AttachmentProfileResistance				
Sanibel Concrete Roof Tile	Two (2) #8 Screws and ICP Construction Inc.'s APOC [®] Polyset [®] RTA-1	57.1 ¹⁰		
12 Medium paddy weight of	11 grams per paddy of APOC [®] Polyset [®] RTA-1 at headlap.			

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".



LABEL FOR SANIBEL CONCRETE ROOF TILE (LOCATED UNDERNEATH OF TILE)

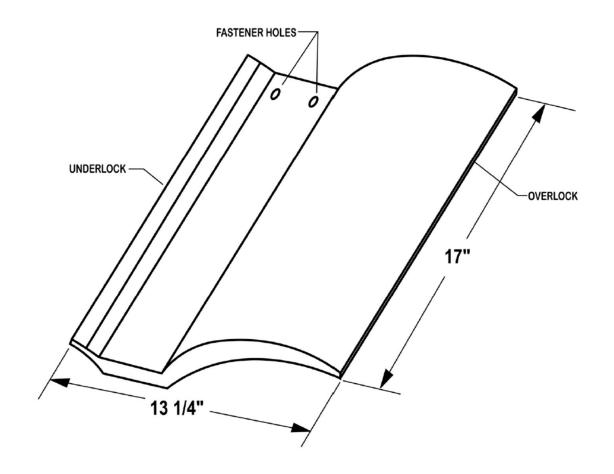


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6. **BUILDING PERMIT REQUIREMENTS:**

- 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.





SANIBEL CONCRETE ROOF TILE

END OF THIS ACCEPTANCE



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