



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/pera](http://www.miamidade.gov/pera)

## NOTICE OF ACCEPTANCE (NOA)

**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:** Tuscany 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# 24-1015.02 and consists of pages 1 through 9.  
The submitted documentation was reviewed by Alex Tigera.

03/06/25



NOA No.: 25-0127.09  
Expiration Date: 01/29/30  
Approval Date: 02/13/25  
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## ROOFING ASSEMBLY APPROVAL

**Category:** Roofing  
**Sub Category:** Roofing Tiles  
**Material:** Concrete

### 1. SCOPE

This approves a roofing system using **Tuscany Roof Tile** manufactured by **Crown Building Products of Florida LLC** in **Arcadia, FL**, 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

| <u>Manufactured by Applicant</u> | <u>Dimensions</u>  | <u>Test Specifications</u>        | <u>Product Description</u>  |
|----------------------------------|--|-----------------------------------|---|
| Crown Tuscany Roof Tile          | L = 17.0"<br>W = 13.0"<br>0.50" thick nominal<br>2.3" high | TAS 112<br>Type – 1b<br>Class III | Low profile interlocking, concrete roof tile. For direct deck, batten nail-on, mortar or adhesive set applications              |
| Trim Pieces                      | Length: varies<br>Width: varies<br>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>                 | <u>Product Description</u>                             | <u>Manufacturer (With Current NOA)</u> |
|-------------------------------------|--|--|
| APOC® Polyset® RTA-1 (HFO)          | Single component polyurethane foam roof tile adhesive. | ICP Construction, Inc.                 |
| 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.                |
| “Tile Tite” Roof Tile Mortar        | Premixed, pre-bagged roof tile mortar.                 | Bermuda Roof Co. Inc.                  |
| DAP StormBond® 2 Roof Tile Adhesive | Two component polyurethane foam adhesive.              | DAP Global, Inc.                       |



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DAP StormBond® Roof Tile Adhesive One component polyurethane foam adhesive.

DAP Global, Inc.

## 2.2 MANUFACTURING LOCATION

2.2.1. Arcadia, Fl.

## 2.3 SUBMITTED EVIDENCE:

| <u>Test Agency</u>                       | <u>Test Identifier</u>       | <u>Test Name/Report</u>                                       | <u>Date</u>   |
|--|------------------------------|---|---------------|
| Redland Technologies                     | 7161-03 Appendix III         | PA 102 & PA 102(A)  | 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. | 94-083                       | PA 101 (Adhesive Set)   | April 1994    |
|  | 94-084                       | PA 101 (Mortar Set)   | May 1994      |
|  | 25-7094-(1, 4 & 7)           | PA 102  | Oct. 1994     |
|  | 25-7183-(1,2 & 7)            | PA 102  | Nov. 1994     |
|  | 25-7214-(2 & 6)              | PA 102  | Feb. 1995     |
|  | 25-7487-(1)                  | PA 102  | March, 1995   |
|  | 25-7496 (2 & 3)              | PA 102  | Sept. 1996    |
|  | 25-7804-5                    |   |               |
| Celotex Corporation Testing Services     | 528454-2-1                   | PA 101  | Sept. 1998    |
|  | 520109-2                     | PA 101  | December 1998 |
| Walker Engineering, Inc.                 | 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    |
|  | Evaluation Calculations      | Aerodynamic Multiplier  | April 1999    |
| Evaluation Calculations                  | wo Paddy Adhesive Set System | April 1999  |               |
| American Test Lab of South Florida       | RT0908.02-14                 | TAS 112   | 09/18/14      |
|  | RT0912.02-14                 | Restoring Moment Aerodynamic Multiplier                       | 09/18/14      |
|  | RT1021.01-15                 | TAS112  | 12/10/15      |
|  | RT1211.01-15                 | Restoring Moment  | 12/11/15      |
|  | RT1211.01-15                 | Aerodynamic Multiplier  | 12/11/15      |
|  | RT1203.02-18                 | TAS 112   | 12/11/18      |
|  | RT0531.02-19                 | TAS 112   | 05/31/19      |
|  | RT0904.02-24                 | TAS 112   | 09/11/24      |
| NEMO ETC, LLC                            | 4c-DPBS-20-LSOTM-01.C.R2     | TAS 101   | 12/17/20      |
|  | 4c-ICP-21-LSOTM-01.A         | TAS 101   | 01/26/22      |
|  | 4p-ICP-22-SSLAP-06.A         | ASTM D1623  | 08/29/23      |



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**2.3 SUBMITTED EVIDENCE:**

| <u>Test Agency</u>                      | <u>Test Identifier</u> | <u>Test Name/Report</u> | <u>Date</u> |
|---|------------------------|-------------------------|-------------|
| PRI Construction Materials Technologies | 4c-ICP-23-LSOTM-01.A   | TAS 101                 | 11/13/24    |
|   | 2002T0003.09           | TAS 101                 | 10/05/20    |
|   | 2002T0010              | TAS 101                 | 09/26/23    |
|   | 2002T0007              | 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 in accordance with TAS 106 may required, refer to applicable building code.
- 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 and Neighborhood Compliance Department – Product Control Section for review.
- 3.4 Minimum underlayment shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.
- 3.5 4/12 Minimum slope 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.

**4. INSTALLATION**

- 4.1 Crown Tuscan 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.

| Tile Profile           | Weight-W (lbf) | Length-l (ft) | Width-w (ft) |
|------------------------|----------------|---------------|--------------|
| Tuscan Crown Roof Tile | 10.0           | 1.42          | 1.08         |

| Tile Profile           | λ (ft³)<br>Batten Application | λ (ft³)<br>Direct Deck Application |
|------------------------|-------------------------------|------------------------------------|
| Tuscan Crown Roof Tile | 0.289                         | 0.313                              |

| Tile Profile           | 2":12"  |             | 3":12"  |             | 4":12"  |             | 5":12"  |             | 6":12"  |             | 7":12" or greater |             |
|------------------------|---------|-------------|---------|-------------|---------|-------------|---------|-------------|---------|-------------|-------------------|-------------|
|                        | Battens | Direct Deck | Battens | Direct Deck | Battens | Direct Deck | Battens | Direct Deck | Battens | Direct Deck | Battens           | Direct Deck |
| Tuscan Crown Roof Tile | N/A     | 7.06        | N/A     | 6.99        | 6.88    | 6.88        | 6.73    | 6.74        | 6.57    | 6.57        | 6.39              | 6.39        |



**Table 4: Attachment Resistance Expressed as a Moment -  $M_r$  (ft.-lbf)  
for Mechanically Attached Systems**

| <b>Tile Profile</b>     | <b>Fastener Type</b>                              | <b>Direct Deck<br/>(min 15/32"<br/>plywood)</b> | <b>Direct Deck<br/>(min. 19/32"<br/>plywood)</b> | <b>Battens</b> |
|-------------------------|---|---|--|----------------|
| Tuscany Crown Roof Tile | 2-10d Ring Shank Nails                            | 27.8  | 37.4   | 28.8           |
|                         | 1-10d Smooth or Screw Shank Nail                  | 8.8   | 11.8   | 4.1            |
|                         | 2-10d Smooth or Screw Shank Nails                 | 16.4  | 21.9   | 7.1            |
|                         | 1 #8 Screw  | 25.8  | 25.8   | 22.9           |
|                         | 2 #8 Screw  | 47.1  | 47.1   | 49.1           |
|                         | 1-10d Smooth or Screw Shank Nail<br>(Field Clip)  | 24.3  | 24.3   | 24.2           |
|                         | 1-10d Smooth or Screw Shank Nail<br>(Eave Clip)   | 19.0  | 19.0   | 22.1           |
|                         | 2-10d Smooth or Screw Shank Nails<br>(Field Clip) | 35.5  | 35.5   | 34.8           |
|                         | 2-10d Smooth or Screw Shank Nails<br>(Eave Clip)  | 31.9  | 31.9   | 32.2           |

**Table 5: Attachment Resistance Expressed as a Moment -  $M_r$  (ft.-lbf)  
for Mechanically Attached Systems**

| <b>Tile Profile</b>     | <b>Fastener Type</b>                | <b>Direct Deck<br/>(min 15/32"<br/>plywood)</b> | <b>Direct Deck<br/>(min. 19/32"<br/>plywood)</b> | <b>Battens</b> |
|-------------------------|-------------------------------------|---|--|----------------|
| Tuscany Crown Roof Tile | 2-10d Ring Shank Nails <sup>1</sup> | 43.0  | 67.5   | 50.9           |

<sup>1</sup> Installation with a 4" tile headlap and fasteners are located a min. of 2½" from head of tile.



**Table 6: Attachment Resistance Expressed as a Moment  $M_f$  (ft.-lbf)  
for Two Patty Adhesive<sup>2</sup> Set Systems**

| <b>Tile Profile:</b> Tuscany Crown Roof Tile     |                            |                              |                                      |
|--|----------------------------|------------------------------|--------------------------------------|
| <b>Tile Application</b>                          | <b>Paddy weight</b>        | <b>Adhesive Contact Area</b> | <b>Minimum Attachment Resistance</b> |
| TILE BOND™ Roof Tile Adhesive – (Interdependent) | 12.5 grams to underlayment | 16 in <sup>2</sup>           | 35                                   |
|  | 12.5 grams at headlap      | 16 in <sup>2</sup>           |                                      |
| TILE BOND™ Roof Tile Adhesive – (Independent)    | 25 grams each              | 8 in <sup>2</sup>            | 67                                   |
| APOC® Polyset® AH-160 (HFC & HFO1)               | 8 grams each               | -                            | 26                                   |
| DAP StormBond® 2 Roof Tile Adhesive              | 8 grams each               | -                            | 108                                  |
| DAP StormBond® Roof Tile Adhesive                | 8 grams to underlayment    | -                            | 86                                   |
|  | 5 grams at headlap         | -                            |                                      |
| APOC® Polyset® RTA-1 (HFO)                       | 12 grams to underlayment   | (4" x 3") 12 in <sup>2</sup> | 44.6                                 |
|  | 10 grams at headlap        | (1" x 8") 8 in <sup>2</sup>  |                                      |

<sup>2</sup> See manufacturer component approval for installation requirements.

**Table 7: Attachment Resistance Expressed as a Moment -  $M_f$  (ft-lbf)  
for Single Patty Adhesive<sup>3</sup> Set Systems**

| <b>Tile Profile:</b> Tuscany Crown Roof Tile |                     |                              |                                      |
|--|---------------------|------------------------------|--------------------------------------|
| <b>Tile Application</b>                      | <b>Paddy weight</b> | <b>Adhesive Contact Area</b> | <b>Minimum Attachment Resistance</b> |
| APOC® Polyset® AH-160 (HFC & HFO1)           | 54 grams each       | -                            | 87                                   |
| APOC® Polyset® AH-160 (HFC & HFO1)           | 24 grams each       | -                            | 46                                   |
| DAP StormBond® 2 Roof Tile Adhesive          | 30 grams each       | -                            | 43                                   |

<sup>3</sup> See manufacturer component approval for installation requirements.



**Table 8: Attachment Resistance Expressed as a Moment -  $M_f$  (ft.-lbf)  
for Mortar Set Systems**

| Tile Profile   | Tile Application        | Attachment Resistance |
|--|-------------------------|-----------------------|
| Tuscany Crown Roof Tile                                  | Mortar Set <sup>4</sup> | 20.6                  |
| 4 See specific mortar manufacturers Notice of Acceptance |                         |                       |

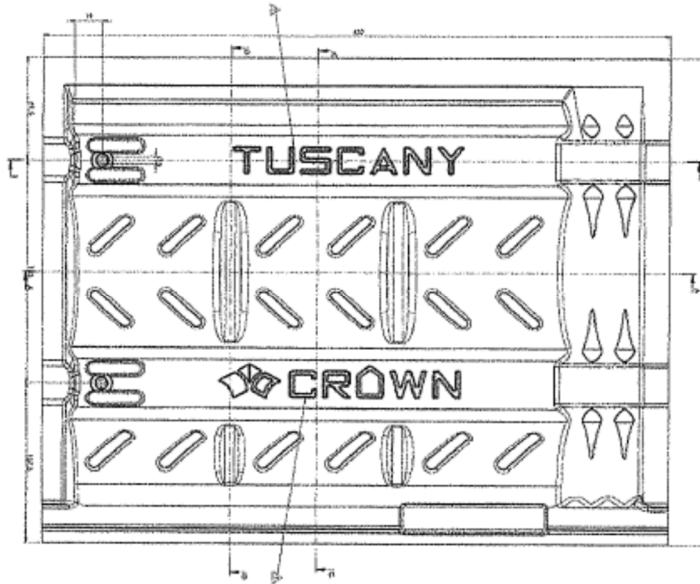
**Table 9: Attachment Resistance Expressed as a Moment  $M_f$  (ft.-lbf)  
for Hybrid Attachment (Adhesive<sup>5</sup> and Mechanical)**

| Tile Profile: Tuscany Crown Roof Tile                                    |                     |                       |                               |
|--|---------------------|-----------------------|-------------------------------|
| Tile Application   | Paddy weight        | Adhesive Contact Area | Minimum Attachment Resistance |
| Two (2) #8 Screws and APOC <sup>®</sup> Polyset <sup>®</sup> RTA-1 (HFO) | 11 grams at headlap | -                     | 63                            |
| 5 See manufacturer component approval for installation requirements.     |                     |                       |                               |



## 5. LABELING

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



**LABEL FOR CROWN TUSCANY ROOF TILE )  
(LOCATED ON THE UNDERSIDE OF TILE)**

## 6. BUILDING PERMIT REQUIREMENTS:

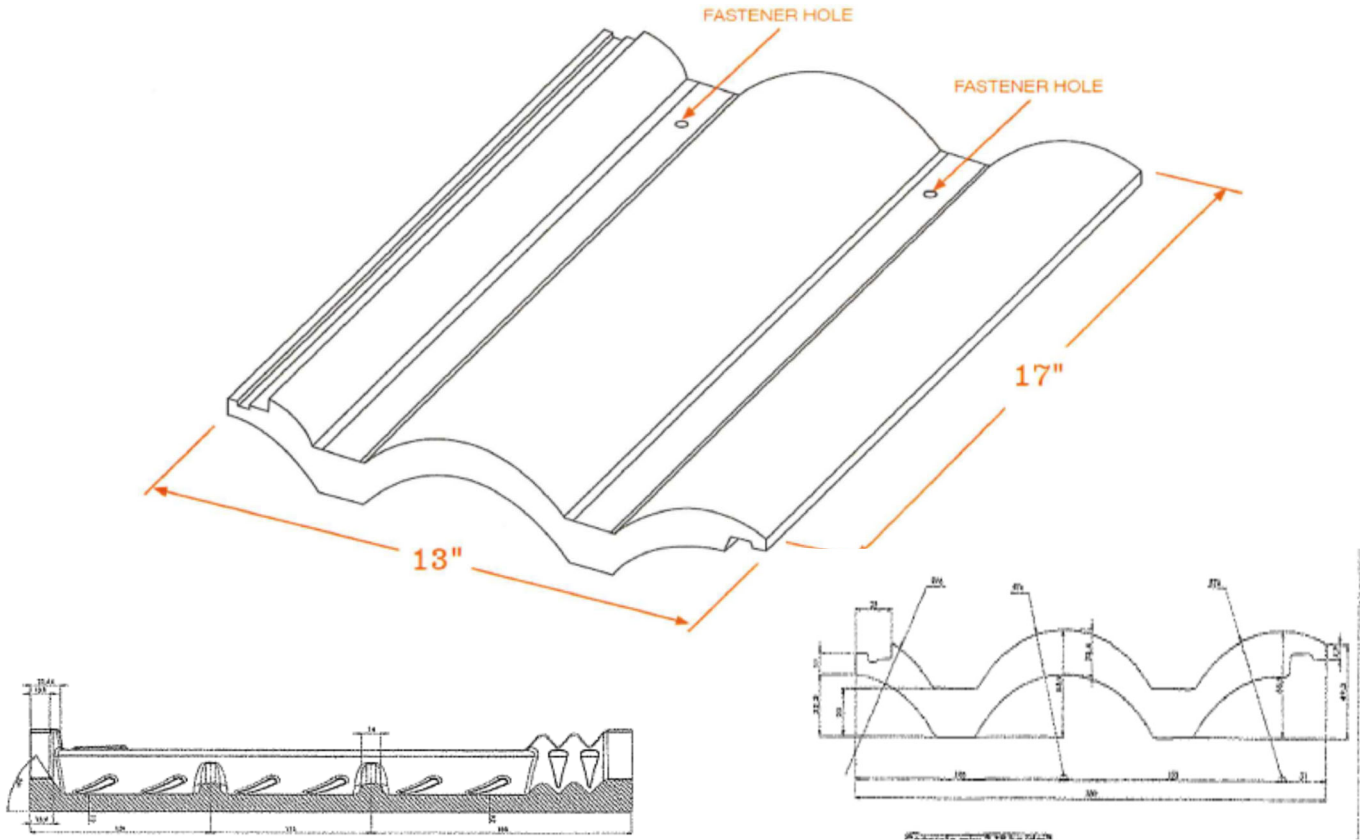
- 6.1 Application for building permit shall be accompanied by copies of the following:
- 6.1.1 This Notice of Acceptance.
  - 6.1.2 Any other documents required by Building Official or Applicable building code in order to properly evaluate the installation of this system.





# PROFILE DRAWING

## TUSCANY



### CROWN TUSCANY ROOF TILE

END OF THIS ACCEPTANCE