



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908**

**NOTICE OF ACCEPTANCE (NOA)**

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**Coma Cast Corporation  
4385 SW 70<sup>th</sup> Court  
Miami, FL 33155**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by the BCCO and accepted by the Building Code and Product Review Committee 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 BCCO (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. BCCO reserves the right to revoke this acceptance, if it is determined by BCCO 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 and the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Colterra "S" 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 renews NOA#01-0904.04 and consists of pages 1 through 5.  
The submitted documentation was reviewed by Alex Tigera.



**NOA No.: 06-0705.11  
Expiration Date: 11/21/11  
Approval Date: 10/12/06  
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## ROOFING ASSEMBLY APPROVAL

**Category:** Roofing  
**Sub Category:** Roofing Tiles  
**Material:** Clay

### 1. SCOPE

This new roofing system using Coma Cast Colterra 'S' Clay Roof Tile, as manufactured Coma Cast Corporation described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County. For the locations where the pressure requirements, 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 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>
Colterra 'S' Clay Roof Tile	Length: 18" Width: 11" varying thickness	TAS 112	High profile, one-piece, 'S' shaped, clay roof tile with a single roll. For direct deck nail-on, mortar set, or adhesive set applications.
Trim Pieces	Length: varies Width: varies varying thickness	TAS 112	Accessory trim, clay roof pieces for use at hips, rakes, ridges and valley terminations. Manufactured for each tile profile.

### 2.1 COMPONENTS OR PRODUCTS MANUFACTURED BY OTHERS

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>	<u>Manufacturer</u>
Rainproof II	30" x 75' roll 36" x 75' roll or 60" x 75' roll	TAS 104	Single ply, nail-on underlayment with 2" self-adhering top edge.	Protect-O-Wrap, Inc. (with current NOA)
Ice and Water Shield	36" x 75' roll	TAS 103	Self-adhering underlayment	W.R. Grace Co. (with current NOA)
Tile Nails	Min. 10dx 3"	TAS 114 Appendix E	Corrosion resistant screw or smooth shank nails	Generic (with current NOA)
Tile Screws	#8x 2 1/2" long 0.335" head dia. 0.131" shank dia. 0.175" screw thread dia.	TAS 114 Appendix E	Corrosion resistant, coated, square drive, galvanized, coarse thread wood screws	Generic (with current NOA)
Roof Tile Mortar ("TileTite™")	N/A	TAS 123	Prepared mortar mix designed for mortar set roof tile applications.	Bermuda Roof Company, Inc. (with current NOA)



<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>	<u>Manufacturer</u>
Roof Tile Mortar ("Quikrete® Roof Tile Mortar #1140")	N/A	TAS 123	Prepared mortar mix designed for mortar set roof tile applications.	Quikrete Construction Products (with current NOA)
Roof Tile Mortar ("BONSAL® Roof Tile Mortar Mix")	N/A	TAS 123	Prepared mortar mix designed for mortar set roof tile applications.	W. R. Bonsal Co. (with current NOA)
Roof Tile Adhesive ("Polypro® AH160")	N/A	See PCA	Two component polyurethane adhesive designed for adhesive set roof tile applications.	Polyfoam Products, Inc. (with current NOA)
Roof Tile Adhesive TileBond	Factory premixed canisters	See PCA	Single component polyurethane foam roof tile adhesive	Flexible Products (with current NOA)
Hurricane Clip & Fasteners	Clips Min. ½" width Min. 0.060" thick Clip Fasteners Min. 8d x 1 ¼"	TAS 114 Appendix E	Corrosion resistant clips with corrosion resistant nails.	Generic (with current NOA)

## 2.2 SUBMITTED EVIDENCE:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Redland Technologies	7161-03 Appendix III	Static Uplift Testing TAS 102 <input type="checkbox"/>	Dec. 1991
Redland Technologies	7161-03 Appendix III <input type="checkbox"/>	Static Uplift Testing TAS 102(A)	Dec. 1991
The Center for Applied Engineering, Inc.	94-083	Static Uplift Testing TAS 101 (Adhesive Set) <input type="checkbox"/>	April 1994
The Center for Applied Engineering, Inc.	94-084	Static Uplift Testing TAS 101 (Mortar Set) <input type="checkbox"/>	May 1994
The Center for Applied Engineering, Inc.	25-7094-9	Static Uplift Testing TAS 102 (4" Headlap, Nails, Direct Deck, New Construction) <input type="checkbox"/>	Oct. 1994
The Center for Applied Engineering, Inc.	25-7094-6	Static Uplift Testing TAS 102 (4" Headlap, Nails, Battens) <input type="checkbox"/>	Oct. 1994
The Center for Applied Engineering, Inc.	25-7183-4	Static Uplift Testing TAS 102 (2 Quik-Drive Screws, Direct Deck) <input type="checkbox"/>	Feb. 1995
The Center for Applied Engineering, Inc.	25-7183-3	Static Uplift Testing TAS 102 (2 Quik-Drive Screws, Battens) <input type="checkbox"/>	Feb. 1995



The Center for Applied Engineering, Inc.	25-7214-3	Static Uplift Testing TAS 102 (1 Quik-Drive Screw, Direct Deck)□	March, 1995
The Center for Applied Engineering, Inc.	25-7214-7	Static Uplift Testing TAS 102 (1 Quik-Drive Screw, Battens)□	March, 1995
Redland Technologies	7161-03	Wind Tunnel Testing TAS 108 (Nail-On)□	Dec. 1991
Redland Technologies	Appendix II Letter Dated Aug. 1, 1994	Wind Tunnel Testing TAS 108 (Nail-On)	Aug. 1994
Walker Engineering, Inc.	25-7183		March 1995
Walker Engineering, Inc.	25-7094		February 1996
Walker Engineering, Inc.	25-7496		April 1996
Walker Engineering, Inc.	25-7584 25-7804b-8 25-7804-4 & 5 25-7848-6		December 1996
Walker Engineering, Inc.	Aerodynamic Multipliers		April 1999
Walker Engineering, Inc.	Two Patty Adhesive Set System		April 1999



**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 RAS 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 This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.
- 3.7 May be installed on slopes 7:12 and greater.

**4. INSTALLATION**

- 4.1 Colterra 'S' Clay 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

<b>Table 1: Aerodynamic Multipliers - <math>\lambda</math> (ft<sup>3</sup>)</b>	
<b>Tile Profile</b>	<b><math>\lambda</math> (ft<sup>3</sup>) Direct Deck Application</b>
Colterra 'S'	0.263

<b>Table 2: Restoring Moments due to Gravity - <math>M_g</math> (ft-lbf)</b>					
<b>Tile Profile</b>	<b>3":12"</b>	<b>4":12"</b>	<b>5":12"</b>	<b>6":12"</b>	<b>7":12"</b>
Colterra 'S'	Direct Deck	DirectDeck	DirectDeck	DirectDeck	DirectDeck
	8.58	8.44	8.27	8.07	7.84



<b>Table 3: Attachment Resistance Expressed as a Moment - <math>M_r</math> (ft-lbf) for Nail-On Systems</b>			
<b>Tile Profile</b>	<b>Fastener Type</b>	<b>Direct Deck (min 15/32" plywood)</b>	<b>Direct Deck (min. 19/32" plywood)</b>
Colterra 'S'	2-10d Ring Shank Nails	28.6	41.2
	1-10d Smooth or Screw Shank Nail	5.1	6.8
	2-10d Smooth or Screw Shank Nails	6.9	9.2
	1 .#8 Screw	20.7	20.7
	2 .#8 Screws	43.2	43.2
	1-10d Smooth or Screw Shank Nail (Field Clip)	23.1	23.1
	1-10d Smooth or Screw Shank Nail (Eave Clip)	29.3	29.3
	2-10d Smooth or Screw Shank Nails (Field Clip)	27.6	27.6
	2-10d Smooth or Screw Shank Nails (Eave Clip)	38.1	38.1
	2-10d Ring Shank Nails <sup>1</sup>	33.1	48.1

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

<b>Table 4: Attachment Resistance Expressed as a Moment <math>M_r</math> (ft-lbf) for Two Patty Adhesive Set Systems</b>		
<b>Tile Profile</b>	<b>Tile Application</b>	<b>Minimum Attachment Resistance</b>
Colterra 'S'	Adhesive	29.3 <sup>3</sup>

<sup>2</sup> See manufactures component approval for installation requirements.  
<sup>3</sup> Flexible Products Company TileBond Average weight per patty 10.7 grams. Polyfoam Product, Inc. Average weight per patty 8 grams.

<b>Table 4A: Attachment Resistance Expressed as a Moment - <math>M_r</math> (ft-lbf) for Single Patty Adhesive Set Systems</b>		
<b>Tile Profile</b>	<b>Tile Application</b>	<b>Minimum Attachment Resistance</b>
Colterra 'S'	Polyfoam PolyPro™	66.5 <sup>4</sup>
	Polyfoam PolyPro™	38.7 <sup>5</sup>

<sup>4</sup> Large paddy placement of 63grams of PolyPro™.  
<sup>5</sup> Medium paddy placement of 24grams of PolyPro™.



<b>Table 4B: Attachment Resistance Expressed as a Moment - <math>M_f</math> (ft-lbf) for Mortar Set Systems</b>		
<b>Tile Profile</b>	<b>Tile Application</b>	<b>Attachment Resistance</b>
Colterra 'S'	Mortar Set	24.5

**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".

**COMCAST CORP MIAMI, FLA COLTERRA**

**COLTERRA "S" CLAY TILE LABEL**

**6. BUILDING PERMIT REQUIREMENTS**

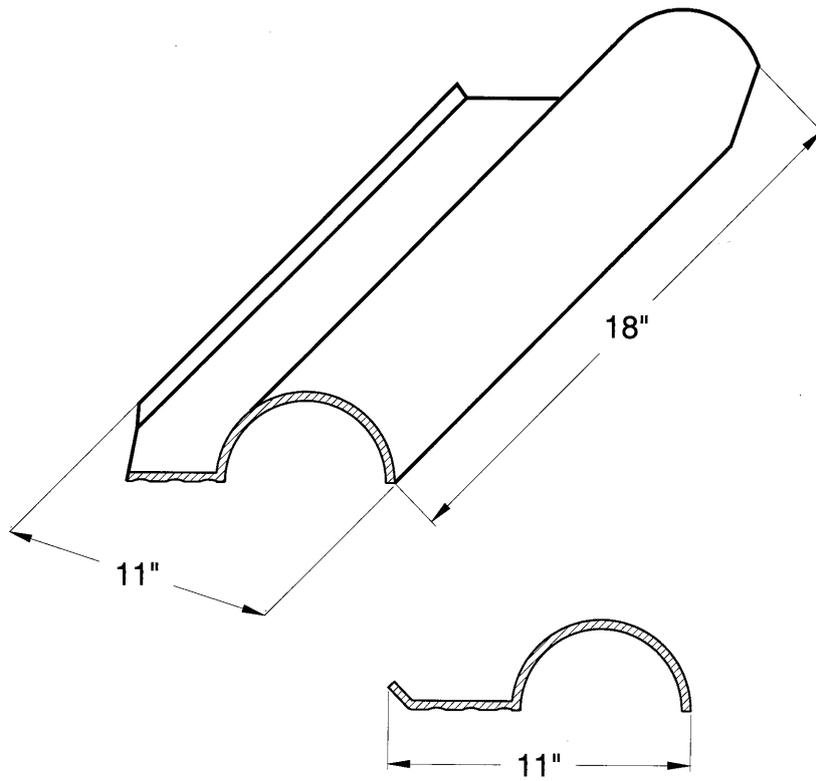
**6.1** Application for building permit shall be accompanied by copies of the following:

**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.



**PROFILE DRAWINGS**



**COLTERRA 'S' CLAY ROOF TILE**

**END OF THIS ACCEPTANCE**

