



**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)**

**Clay Tile Ventures, Inc. DBA Redland Clay Tile  
24699 Humphires Rd.  
P.O. Box 430  
Tecate, CA 91980**

**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 Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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.

**DESCRIPTION: Alfaro "S" Clay 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 consists of pages 1 through 4.

The submitted documentation was reviewed by Frank Zuloaga, RRC



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Approval Date: 05/14/04  
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## ROOFING ASSEMBLY APPROVAL

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

### 1. SCOPE

This approves a new roofing system using **Alfaro One Piece S' Clay Roof Tiles**, as manufactured by **Clay Tile Ventures, Inc. DBA Redland Clay Tile**. 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 Applicant</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Alfaro One Piece 'S' Tile	L = 18- <sup>1</sup> / <sub>16</sub> " W = 10" Thick nominal: 1/2" H = 2- <sup>1</sup> / <sub>8</sub> "	TAS 112	High profile One-Piece "S" clay roof tile.
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 SUBMITTED EVIDENCE:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
PRI Asphalt Technology, Inc.	SPC-02-02-01	ASTM C 1167	12/30/03
PRI Asphalt Technology, Inc.	SPC-002-02-02	PA 101	11/14/03
PRI Asphalt Technology, Inc.	SPC-002-02-03	PA 102	11/14/03
PRI Asphalt Technology, Inc.	SPC-002-02-04	PA 101	01/06/04

### 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 may be required in accordance with RAS 106, see applicable building code for requirements.
- 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



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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.
- 3.8 All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.

**4. INSTALLATION**

- 4.1 AlfaroOne Piece 'S' Clay Roof Tile and its components shall be installed in strict compliance with Roofing Application Standard RAS 118, and RAS 120.
- 4.2 Data For Attachment Calculations

<b>Table 1: Average Weight (W) and Dimensions (l x w )</b>			
<b>Tile Profile</b>	<b>Weight-W (lbf)</b>	<b>Length-l (ft)</b>	<b>Width-w (ft)</b>
One Piece 'S' Tile	6.75	1.52	0.83

<b>Table 2: 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>
One Piece 'S' Tile	0.323

<b>Table 3: Restoring Moments due to Gravity – M<sub>g</sub> (ft-lbf)</b>										
<b>Tile Profile</b>	<b>3": 12" or less</b>		<b>4": 12"</b>		<b>5": 12"</b>		<b>6": 12"</b>		<b>7": 12" or greater</b>	
	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck
One Piece 'S' Tile	N/A	5.35	N/A	5.27	N/A	5.16	N/A	5.03	N/A	4.89

<b>Table 4: Attachment Resistance Expressed as a Moment – M<sub>f</sub> (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>	<b>Battens</b>
	1 .#8 Screw	13.56	13.56	N/A

1. Screw must be installed in the inside nail hole located nearest to the hump of the tile.



Table 5A: Attachment Resistance Expressed as a Moment – $M_r$ (ft-lbf) for Single Paddy Adhesive Set Systems		
Tile Profile	Tile Application	Minimum Attachment Resistance
One Piece 'S' Tile	Polyfoam PolyPro™	83.49 <sup>1</sup>
1 Medium paddy placement of 40.5grams of PolyPro™.		

Table 5B: Attachment Resistance Expressed as a Moment – $M_r$ (ft-lbf) for Mortar Set Systems		
Tile Profile	Tile Application	Attachment Resistance
One Piece 'S' Tile	Mortar Set	34.83

**5. LABELING**

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

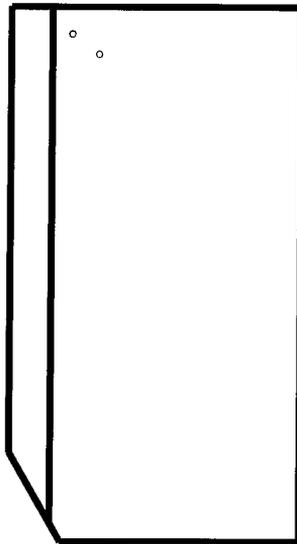
**6. BUILDING PERMIT REQUIREMENTS**

**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**  
**ALFARO ONE PIECE 'S' CLAY ROOF TILE**



END OF THIS ACCEPTANCE



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