



**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 Forever, LLC  
6801 NW 77<sup>th</sup> Avenue  
Miami, FL 33166**

**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 and the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Almansa "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 revises NOA # 06-0706.06 and consists of pages 1 through 5.  
The submitted documentation was reviewed by Alex Tigera.



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Expiration Date: 04/11/07  
Approval Date: 10/19/06  
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## ROOFING ASSEMBLY APPROVAL:

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

### 1. SCOPE

This approved a roofing system using Almansa 'S' Clay Roof Tile, as manufactured by Imerys TC Espana, S.A. (Ceramica Collado, S.A) in Albacete, Spain and described in Section 2 of this Notice of Acceptance. For the locations where the pressure requirements, as determined by applicable Building Code does 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>
Almansa 'S' Tile	L = 19 1/2" W = 13" 1/2" thick nominal 3.5" high	TAS 112	High profile clay roof tile. For direct deck or batten nail-on, mortar set or adhesive set applications.
Trim Pieces	L = varies W = 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 PRODUCT DESCRIPTION

<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	Dec. 1991
Redland Technologies	7161-03 Appendix II	Wind Tunnel Testing TAS 108 (Nail-On)	Dec. 1991
Redland Technologies	Letter Dated Aug. 1, 1994	Wind Tunnel Testing TAS 108 (Nail-On)	Aug. 1994
Redland Technologies	P0631-01	Wind Tunnel Testing TAS 108 (Mortar Set)	July 1994
Redland Technologies	P0402	Withdrawal Resistance Testing of screw vs. smooth shank nails	Sept. 1993
Redland Technologies	7161-03 Appendix III	Static Uplift Testing TAS 102(A)	Dec. 1991



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The Center for Applied Engineering, Inc.	94-83	Static Uplift Testing TAS 101 (Adhesive Set)	April 1994
The Center for Applied Engineering, Inc.	94-084	Static Uplift Testing TAS 101 (Mortar Set)	May 1994
The Center for Applied Engineering, Inc.	25-7200-1	Static Uplift Testing TAS 102 (Quick-Drive Screws, Battens)	Feb. 1995
The Center for Applied Engineering, Inc.	Project No. 307025 Test #MDC-78	Wind Driven Rain TAS 100	Oct. 1994
Walker Engineering, Inc.	Calculations	Aerodynamic Multiplier	March 1999
Celotex Corporation Testing	MTS 520649	Static Uplift Testing TAS 102(A)	May 2000
PRI Asphalt Technology, Inc.	CCS-003-02-01	Static Uplift Testing TAS 101	July 2001
PRI Asphalt Technology, Inc.	CCS-002-01	TAS 100	July 2001
PRI Asphalt Technology, Inc.	CCS-001-02-01	TAS 112	July 2001

### 3. LIMITATIONS

- 3.1 Fire classification is not part of this acceptance.
- 3.2 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 County Product Control Division for review.
- 3.3 Minimum underlayments shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.
- 3.4 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.
- 3.5 This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable Building Code.
- 3.6 May be installed on slopes 7:12 and greater.



#### 4. INSTALLATION

4.1 Almansa '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

Table 1: Aerodynamic Multipliers - $\lambda$ (ft <sup>3</sup> )		
Tile Profile	$\lambda$ (ft <sup>3</sup> ) Batten Application	$\lambda$ (ft <sup>3</sup> ) Direct Deck Application
One Piece 'S' Tile	0.254	0.275

Table 2: Restoring Moments due to Gravity - $M_g$ (ft-lbf)										
Tile Profile	3": 12" or less		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
One Piece 'S' Tile	6.94	7.40	6.86	7.31	6.75	7.19	6.62	7.05	6.45	6.88

Table 3: 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
One Piece 'S' Tile	1-10d Smooth or Screw Shank Nail	5.1	6.8	2.8
	1 .#8 Screw	28.7	28.7	N/A
	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

Table 4: Attachment Resistance Expressed as a Moment $M_f$ (ft-lbf) for Two Patty Adhesive Set Systems		
Tile Profile	Tile Application	Minimum Attachment Resistance
One Piece 'S' Tile	Adhesive	29.3 <sup>2</sup>
1. See manufactures component approval for installation requirements.		
2 Dow Chemical TileBond Average weight per patty 10.7 grams. Polyfoam Product, Inc. Average weight per patty 8 grams.		

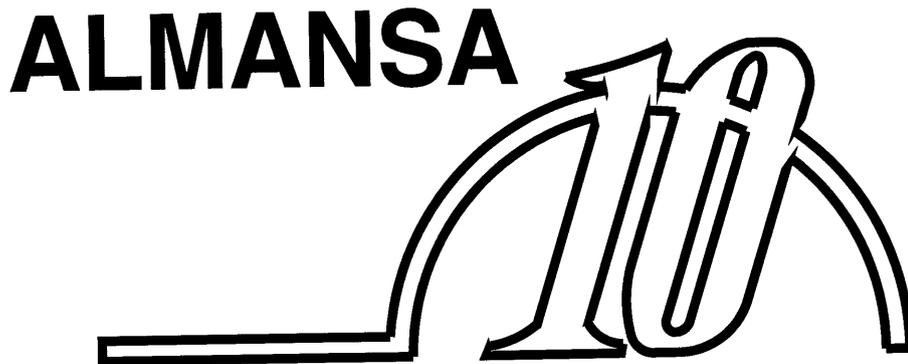


Table 4A: Attachment Resistance Expressed as a Moment - $M_r$ (ft-lbf) for Single Patty Adhesive Set Systems		
Tile Profile	Tile Application	Minimum Attachment Resistance
One Piece 'S' Tile	Polyfoam PolyPro™	66.5 <sup>3</sup>
	Polyfoam PolyPro™	60.3 <sup>4</sup>
3 Large paddy placement of 63grams of PolyPro™.		
4 Medium paddy placement of 28.5 grams of PolyPro™.		

Table 4B: 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 <sup>1</sup>	24.50

**5. LABELING**

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



LABEL FOR ALMANSA "S" TILE  
LOCATED UNDERNEATH TILE

**6. BUILDING PERMIT REQUIREMENTS**

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

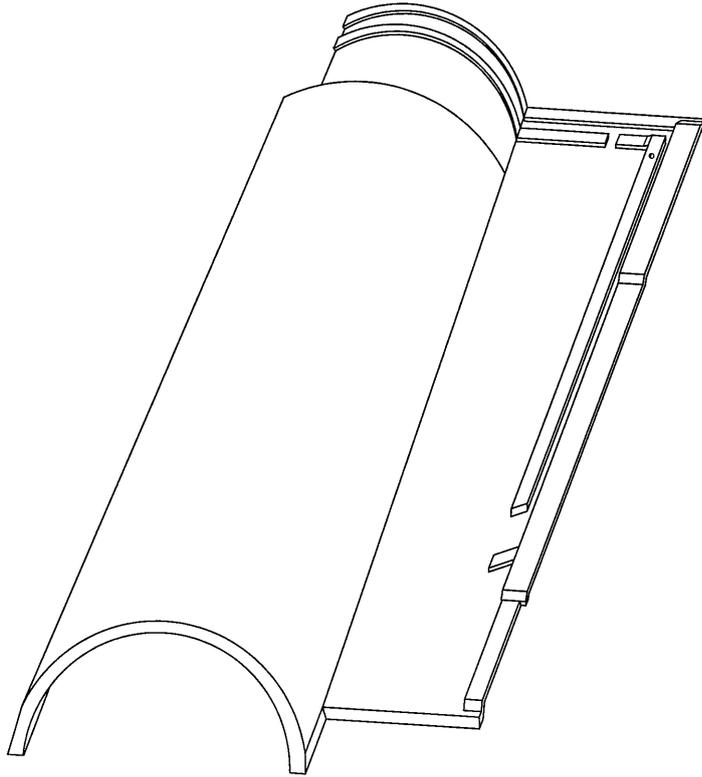
**6.1.1** This Notice of Acceptance.

**6.1.2** Any other documents required by the Building Official or applicable Building Code in order to properly evaluate the installation of this system.



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**PROFILE DRAWINGS  
ONE PIECE 'S' CLAY ROOF TILE**



**END OF THIS ACCEPTANCE**



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