



**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)**

**Monier Lifetile, LLC  
3511 N. Riverside Ave  
Rialto, CA. 92377**

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

**DESCRIPTION: Cedarlite – Cedarlite 600 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 revises NOA#07-1023.10 and consists of pages 1 through 5.  
The submitted documentation was reviewed by Alex Tigera.



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Expiration Date: 12/16/12  
Approval Date: 06/03/09  
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## ROOFING ASSEMBLY APPROVAL

**Category:** Roofing  
**Sub-Category:** Flat Profile Roofing Tiles  
**Material:** Concrete

### 1. SCOPE

This approves a system using Monier Lifetile 'Cedarlite-Cedarlite 600' Concrete Roof Tile, as manufactured Monier Lifetile LLC in Gilroy, CA. 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>
Monier Lifetile LLC "Cedarlite-Cedarlite 600" Tile	l = 13-1/2" w = 13" 7/8" thick	TAS 112	Flat profile, interlocking, high pressure extruded concrete roof tile equipped with three nail holes and double roll ribs. For direct deck, mortar 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 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 PA 102 & PA 102(A)	Dec. 1991
Redland Technologies	7161-03 Appendix II	Wind Tunnel Testing PA 108 (Nail-On)	Dec. 1991
Redland Technologies	P0402	Withdrawal Resistance Testing of screw vs. smooth shank nails	Sept. 1993
Redland Technologies	Letter Dated Aug. 1, 1994	Wind Tunnel Testing PA 108 (Nail-On)	Aug. 1994
Redland Technologies	P0631-01	Wind Tunnel Testing PA 108 (Mortar Set)	July 1994
Nutting Engineers	13343.1	Physical Properties PA 112	June 2007
The Center for Applied Engineering, Inc.	25-7688-3 25-7688-10	Static Uplift Testing PA 101 (Adhesive Set) & (Mortar Set)	June 1996 July 1996



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<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
The Center for Applied Engineering, Inc.	25-7688-5	Static Uplift Testing PA 102 (3" Headlap, Nails, Direct Deck, New Construction)	June 1996
The Center for Applied Engineering, Inc.	25-7688-4	Static Uplift Testing PA 102 (4" Headlap, Nails, Clips)	June 1996
Walker Engineering, Inc.	Calculations	Restoring Moment Due to Gravity	August 2007
Walker Engineering, Inc.	Calculations	Aerodynamic Multiplier	October 2007

### 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 with a minimum of two screws.

### 4. INSTALLATION

- 4.1 Monier Lifetile 'Cedarlite-Cedarlite 600' 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

<b>Table 1: Average Weight (W) and Dimensions (l x w)</b>			
<b>Tile Profile</b>	<b>Weight-W (lbf)</b>	<b>Length - l (feet)</b>	<b>Width-w (feet)</b>
Monier Lifetile "Cedarlite-Cedarlite 600"	5.20	1.125	1.08

<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>
Monier Lifetile "Cedarlite-Cedarlite 600"	0.193



Table 3: Restoring Moments due to Gravity - $M_g$ (ft-lbf)						
Tile Profile	2":12"	3":12"	4":12"	5":12"	6":12"	7":12" or greater
Monier Lifetile "Cedarlite-Cedarlite 600"	2.92	2.89	2.84	2.77	2.72	2.64

Table 4: Attachment Resistance Expressed as a Moment - $M_r$ (ft-lbf) for Nail-On Systems				
Tile Profile	Tile Application	Approved Nails	Approved Screws <sup>2</sup>	
Monier Lifetile "Cedarlite-Cedarlite 600"	Direct Deck	2 nails	1 screw	2 screws
		16.4	16.4	27.6

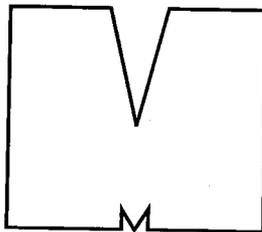
1. Data noted in Table 3 is for installation with a 3" tile headlap.  
2. Approved screws are as noted in the 'Trade Names of Products Manufactured by Others.' Clips on eave tiles may not be required for this attachment configuration, please refer to Miami-Dade Roofing Application Standard PA 115 for Moment of Resistance calculations.

Table 5: Attachment Resistance Expressed as a Moment - $M_r$ (ft-lbf) for Mortar or Adhesive Set Systems		
Tile Profile	Tile Application	Attachment Resistance
Monier Lifetile "Cedarlite-Cedarlite 600"	Mortar Set <sup>3</sup>	43.9 <sup>3</sup>
	Adhesive Set <sup>4</sup>	49.5 <sup>4</sup>

3. Tile-Tite Roof Tile Mortar.  
4. Adhesive quantity - 0.6 seconds, and a minimum foam patty weight of 17.2 grams.

**5. LABELING**

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



MONIERLIFETILE LLC, "CEDARLITE-CEDARLITE 600" FLAT TILE (GILROY, CA PLANT)  
LOCATED ON TOPSIDE OF TILE

**6. BUILDING PERMIT REQUIREMENTS**

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

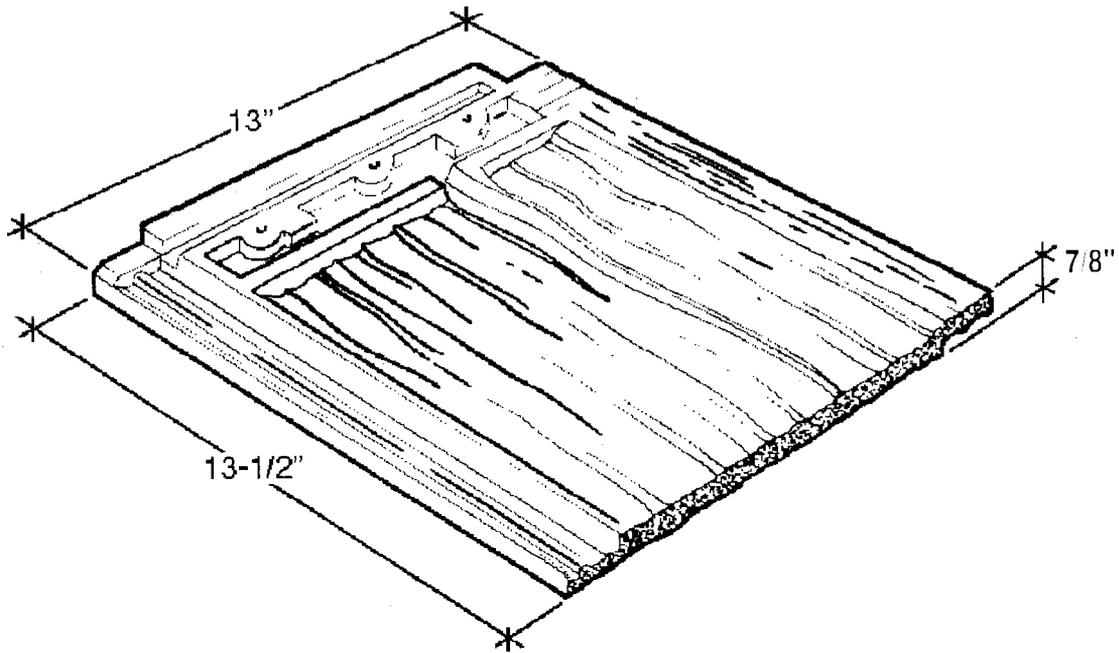
6.1.1 This Notice of Acceptance.

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



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**PROFILE DRAWING**



**MONIER LIFETILE "CEDARLITE-CEDARLITE 600" CONCRETE ROOF TILE**

**END OF THIS ACCEPTANCE**



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