

The Commission of the City of Coral Gables intends to adopt and increase impact fees and all persons engaging in development should make provisions for payment of those fees.

Building & Zoning Department  
405 Biltmore Way, Third Floor  
Coral Gables, Florida 33134  
Tel: 305-460-5235  
Fax: 305-460-5261  
www.coralgables.com

**CITY OF CORAL GABLES**  
**BUILDING AND ZONING DEPARTMENT**

*Permit Application*

**APPROVED**  
For Architectural Design Only  
City Board of Coral Gables, Florida  
Date: 04.15.13  
Amount: \$150.35  
Permit #: PL13041244

MCOL #

ALL OF THE FOLLOWING MUST BE COMPLETED BY APPLICANT ACCORDING TO FS 713.35

Date: 4/10/2013  
Application #:

Permit Type:	<input checked="" type="checkbox"/>
Building	
Electrical	
Mechanical	
Plumbing	
Roofing	<input checked="" type="checkbox"/>
Misc.	
App.	Date <u>4/5/13</u>

Master Permit #: PL13041244  
Control #:

Permit Change:	<input checked="" type="checkbox"/>
Change of Contractor	
Permit Extension	
Permit Renewal	
Permit Revision	
Permit Supplement	

Project Information:	<input checked="" type="checkbox"/>
Commercial:	
Residential:	<input checked="" type="checkbox"/>
Linear Feet:	<input checked="" type="checkbox"/>
Square Feet: <u>3000</u>	<input checked="" type="checkbox"/>
Value of Work: <u>32,900.</u>	<input checked="" type="checkbox"/>

**DESCRIPTION OF WORK (PRINT):**  
Re-roof to new Alhambra Flash Blend roof tiles.

**PROPERTY LOCATION:**  
Address: 2225 Segovia Circle  
Folio #: 0341080013660  
Lot: Block:  
Subdivision: . . .  
Plat book: Page:

**PROPERTY OWNER:**  
Name: Mary E. Olazabal  
Address: 2225 Segovia Circle  
City/State/Zip: Coral Gables, FL 33134  
Telephone No.: 305-667-6158 305-962-0998

**CONTRACTOR:** Perkins Roofing Corporation  
Address: 575 NW 152 St.  
City/State/Zip: Miami, FL 33169  
License No.: CCC 042786 Telephone No.: 305-687-6521

**ARCHITECT:**  
Name:  
Address:  
City/State/Zip: Tel.:

**ENGINEER:**  
Name:  
Address:  
City/State/Zip: Tel.:

**BONDING:**  
Name:  
Address:  
Telephone No.:

**MORTGAGE LENDER:**  
Name:  
Address:  
Telephone No.:

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work has commenced prior to the issuance of a permit and that all work will be performed to meet the standards of all laws regulating the construction in the City of Coral Gables. I understand that a separate permit must be secured for ELECTRICAL, PLUMBING, SIGNS, WELLS, POOLS, BOILERS, TANKS, AIR CONDITIONERS, ROOFING, AWNINGS, ETC. The Historical Resources Department's approval is required prior to the issuance of a demolition permit.  
WARNING TO OWNER: Failure to record a notice of commencement may result in you paying twice for improvements to your property. If you intend to obtain financing, consult with your lender or an attorney before recording your notice of commencement.  
OWNER'S AFFIDAVIT: I certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and zoning.

Signature of Owner Mary E. Olazabal

Signature of Qualifier Dea. Perkins, pres.

The foregoing instrument was acknowledged before me this 10<sup>th</sup> day of APRIL 2013 by Mary E. Olazabal  
 is personally known to me  
( ) has produced a  
NOTARY PUBLIC (SEAL)  
**LOUIS ROMANO**  
Commission # EE 077333  
Expires March 24, 2015  
Bonded Thru Troy Fair Insurance 800-385-7019

The foregoing instrument was acknowledged before me this 10 day of April 2013 by Mary E. Olazabal  
 is personally known to me  
( ) has produced a  
NOTARY PUBLIC (SEAL)  
Notary Public State of Florida  
**Michael Critchley**  
My Commission Expires 02/02/2016

**Section A (General Information)**

Master Permit No. \_\_\_\_\_ Process No. \_\_\_\_\_

Contractor's Name PERKINS ROOFING

Job Address 2225 Segovia Circle

**ROOF CATEGORY**

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Low Slope          | <input type="checkbox"/> Mechanically Fastened Tile | <input checked="" type="checkbox"/> Mortar/Adhesive Set Tile |
| <input type="checkbox"/> Asphaltic Shingles | <input type="checkbox"/> Metal Panel/Shingles       | <input type="checkbox"/> Wood Shingles/Shakes                |

Prescriptive BUR-RAS 150

Are there Gas Vent Stacks?  
 Yes  No   
 Type: Natural  LPG

**ROOF TYPE**

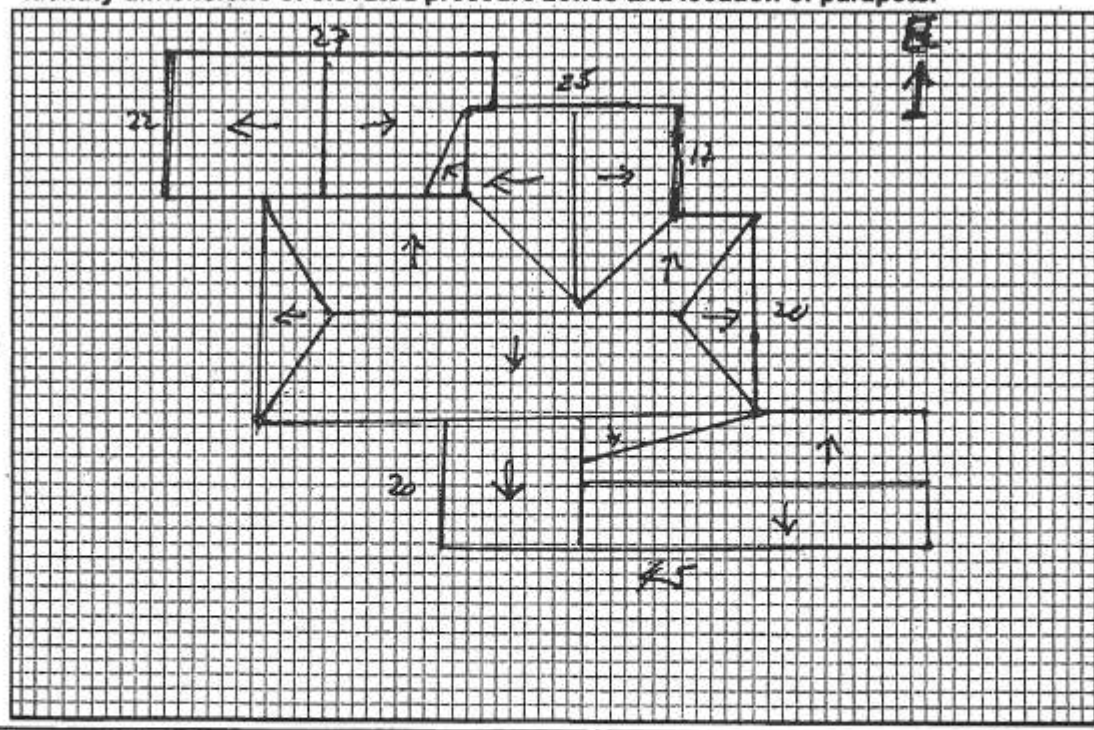
- |                                   |  |                                     |                                 |                                      |
|-----------------------------------|--|-------------------------------------|---------------------------------|--------------------------------------|
| <input type="checkbox"/> New Roof | <input checked="" type="checkbox"/> Re-Roofing | <input type="checkbox"/> Recovering | <input type="checkbox"/> Repair | <input type="checkbox"/> Maintenance |
|-----------------------------------|--|-------------------------------------|---------------------------------|--------------------------------------|

**ROOF SYSTEM INFORMATION**

Low Slope Roof Area (SF)	Steep Sloped Roof Area (SF)	Total (SF)
<u>0</u>	<u>3,000</u>	<u>3,000</u>

**Section B (Roof Plan)**

Sketch Roof Plan: Illustrate all levels and sections, roof drains, scuppers, overflow scuppers and overflow drains. Include dimensions of sections and levels, clearly identify dimensions of elevated pressure zones and location of parapets.





Florida Department of  
**Business & Professional  
Regulation**

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FL #  
Application Type  
Code Version  
Application Status  
Comments  
Archived

FL16057  
New  
2010  
Approved

Product Manufacturer  
Address/Phone/Email

Zion Tiles Corp.  
12002 Southwest 128th Court # 103  
Miami, FL 33186  
(305) 252-9077  
jgconsultants@charter.net

Authorized Signature

Mario Garcia  
jgconsultants@charter.net

Technical Representative  
Address/Phone/Email

Quality Assurance Representative  
Address/Phone/Email

Category  
Subcategory

Roofing  
Roofing Tiles

Compliance Method

Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer  
 Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report  
Florida License  
Quality Assurance Entity  
Quality Assurance Contract Expiration Date  
Validated By

Jesus Gonzalez  
PE-68553  
Keystone Certifications, Inc.  
12/31/2014  
Pedro Figueiredo  
 Validation Checklist - Hardcopy Received

Certificate of Independence

[FL16057\\_R0\\_COI\\_12132012\\_Alhambra\\_COI.pdf](#)

Referenced Standard and Year (of Standard)

Standard	Year
ASTM C1167	2003
TAS 101	1995

Equivalence of Product Standards Certified By:

Sections from the Code

**Quarterly Report**

**February 8, 2013**

**Manufacturer:** Imexinsa, Nicaragua.

Zion Tile Corporation  
 12002 S.W. 128<sup>th</sup> Court, Suite 103  
 Miami, FL 33186

**Product:** FL # 16057  
 Alhambra Handmade Clay Tile  
 Made in Nicaragua


**Referenced Quarter**

<input type="checkbox"/>	1 <sup>st</sup> Quarter (Oct-Dec)
<input checked="" type="checkbox"/>	2 <sup>nd</sup> Quarter (Jan-Mar)
<input type="checkbox"/>	3 <sup>rd</sup> Quarter (Apr-Jun)
<input type="checkbox"/>	4 <sup>th</sup> Quarter (Jul-Sep)
<b>Test Date(s):</b> 02/08/13 - 02/08/13	
<b>Technician:</b> Angel Alvarez	

Specimen #		1	2	3	4	5	Average	Specified
Length (in.)		17.29	17.34	17.30	17.50	17.16	17.32	+/- 5% of 17.5"
Width (in.)	Head End	7.499	7.647	7.572	7.665	7.494	7.58	+/- 5% of 7.5"
	Butt End	8.271	8.31	8.31	8.293	8.314	8.30	+/- 5% of 8.5"
Thickness (in.)		0.92	0.89	0.93	0.91	0.91	0.91	+/- 5% of .9"
Dry Wt. (lb.)		7.60	7.56	8.02	7.52	7.30	7.60	+/- 10% of 7.5 lbs
Transverse Strength (lbs.)		500	493	445	388	377	441	>400-Average of 5
Tested Dry - after 24 hr at 160°F								>350-Individual
Water Absorption (lb/ft)		13.00	13.50	14.15			13.55	<18-Average of 3
Permeability (pass or fail)		Pass	Pass	Pass			Pass	water droplets

Test Results: The tiles submitted meet the Florida Building Code (TAS-112-95) & A.S.T.M. C 67 physical tests for: dimensional, transverse breaking strength, water absorption and permeability.

To the best of my knowledge, belief and professional opinion, the above data represent the actual conditions as reported herein.

Sincerely,  
  
 Alberto Cardóna  
 P.E. Lic. # 17138

Office (305) 256-4550  
 Fax (866) 333-6988

1 of 5  
[www.floridatec.net](http://www.floridatec.net)

595 West 18 Street  
 Hialeah, FL 33010

Jesus Gonzalez, P.E., LEED AP  
7364 Sedgebrook Dr.  
Stanley, NC 28164

**PRODUCT EVALUATION REPORT**  
Florida Building Code 2010

Per Rule 9B-72.070 – Method 1-D Evaluation Report from a Professional Engineer  
REF: FL # 16057

**CATEGORY:** Roofing  
**SUB-CATEGORY:** Roofing Tiles  
**PRODUCT NAME:** Alhambra Handmade Clay Roof Tile  
**MATERIAL:** CLAY  
**SUPPORT TYPE:** Wood Deck

**DATE:** December 14, 2012

**MANUFACTURER:** IMEXINSA  
La Paz Centro, Nicaragua  
and distributed by:  
Zion Tile Corp.  
12002 Southwest 128th Court #103  
Miami, FL 33186

**PREPARED BY:** Florida Professional Engineer  
Jesus Gonzalez – PE 68553  
7364 Sedgebrook Dr.  
Stanley, NC 28164

**General:**

**Statement of Compliance:**

This product as described herein has demonstrated compliance with the Florida Building Code 2010, including the High Velocity Hurricane Zone of the Florida Building Code.

This engineering validation report is being issued per Rule Chapter No. 9B-72 to support the application to a Florida Product Approval using option under section 9B-72.070 (1) (D) of the Department of Community Affairs – Florida Building Commission.

**Scope:**

This roofing system using the "Alhambra Roof Tile" shall be used for locations where the pressure requirements, as determined by applicable Building Code do not exceed the design pressure values obtained by calculations in compliance with RAS 127 using the values listed

**Limitation and Conditions of Use:**

- 1- This system is for wood deck applications. Minimum deck requirements shall be in compliance with applicable Building Code
- 2- Fire Classification: Fire Classification is outside the scope of Rule 9B-72, and it is not included in this evaluation
- 3- Tiles shall pass a quarterly test performed by a State of Florida approved Laboratory in accordance with TAS 112, appendix 'A'. Results of the test shall be submitted to Keystone Certification, Inc. for review.
- 4- A static field test shall be performed in accordance with RAS 106
- 5- Minimum underlayment shall comply with the applicable Roofing Application Standard RAS 120.

**Installation**

- This product shall be install to comply with Roofing Application Standard RAS 120

Aerodynamic Multipliers – $\lambda(ft^3)$	
Tile Profile	Direct Deck Installation
Alhambra Tile	0.21

Restoring Moment due to Gravity – Mg (ft-lbf)						
Tile Profile	2":12"	3":12"	4":12"	5":12"	6":12"	7":12"
Alhambra Tile	Direct Deck	Direct Deck	Direct Deck	Direct Deck	Direct Deck	Direct Deck
	5.27	5.18	5.05	4.88	4.65	4.36

Attachment Resistance Expressed as a Moment - $M_f$ (ft-lbf) for Single Paddy Adhesive Set System		
Tile Profile	Tile Application	Minimum Attachment Resistance
Alhambra Tile	3M™ 2-Component Foam Roof Tile Adhesive AH-160 (Formerly known as Polyfoam Polipro AH160™)	113.010*

\* Paddy placement of 34.5 gram of 2-Component Foam Roof Tile Adhesive AH 160™ for pan Tile, 17.25 grams on each side of cap tiles

3M™ 2-Component Foam Roof Tile Adhesive AH-160 (NOA-12-0228.18, Exp:05/10/17) renews and revises NOA 11-0124.04 from Polifoam Polypro AH160™

Attachment Resistance Expressed as a Moment - $M_f$ (ft-lbf) for Mortar Set Systems		
Tile Profile	Tile Application	Minimum Attachment Resistance
Alhambra Tile	Mortar Set	38.80

