

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

OK for Historic Dept 4-1-14
OK for BOA Dept 4-7-14
13710 #1/14
AB/4042360
Master BL 4042484

MCOL #

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

Date: _____
Application #: _____

Permit Type:	<input checked="" type="checkbox"/>
Building	
Electrical	
Mechanical	
Plumbing	
Roofing	<input checked="" type="checkbox"/>
Misc.	
App.	<i>M/D 4/16/14</i>

Master Permit #: *BL 4042484*
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: <i>4913</i>	<input checked="" type="checkbox"/>
Value of Work:	<input checked="" type="checkbox"/>

DESCRIPTION OF WORK (PRINT): *NE W Roof*
REPLACE NEW ROOF
2 in tile Alhambra clay tile
ALHAMBRA / HANDMADE CLAY
ROOF TILE / CAP AND PAN
COLOR: TERRACOTTA

PROPERTY LOCATION:
Address: *1248 Coral Way, Coral Gables*
FL 33139
Folio #: *03 9118-002-0030*
Lot: *586* Block: *1*
Subdivision: *Coral Gables Sec D Rev*
PL APPROVED COMM 7 APR 14
Plat book: *25* Page: *74*

PROPERTY OWNER:
Name: *1248 Coral Way LLC*
Address: *5600 Riviera drive*
City/State/Zip: *Coral Gables*
Telephone No.: _____

CONTRACTOR: *American Construction & Repairs*
Address: *9200 West Bay Harbor Dr*
City/State/Zip: *Bay Harbor Islands, FL 33154*
License No.: *CGC00575* Telephone No.: *305-775-2509*

ARCHITECT:
Name: *Pedro Bravo*
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: *Kanappa*

Signature of Qualifier: *Charles E. Watta*

The foregoing instrument was acknowledged before me this *7* day of *April* 20 *14* by *Keren Appa*
Erika Del Rio
() is personally known to me
() has produced a _____ as identification.
COMMISSION # *EE 19687*
EXPIRES: *NOV. 27, 2016*
WWW.AARONNOTARY.COM
NOTARY PUBLIC (SEAL)

The foregoing instrument was acknowledged before me this *5* day of *March* 20 *14* by *Charles Watta*
() is personally known to me.
() has produced a _____ as identification.
Paola Gomez
PAOLA GOMEZ
Notary Public - State of Florida
My Comm. Expires *May 8, 2016*
Commission # *EE 19687* Form 61

Florida Building Code Edition 2010
High Velocity Hurricane Zone Uniform Permit Application Form

Section A (General Information)

Master Permit No. _____ Process No. _____

Contractor's Name _____

Job Address _____

ROOF CATEGORY

- Low Slope Mechanically Fastened Tile Mortar/Adhesive Set Tile
 Asphaltic Shingles Metal Panel/Shingles Wood Shingles/Shakes
 Prescriptive BUR-RAS 150

ROOF TYPE

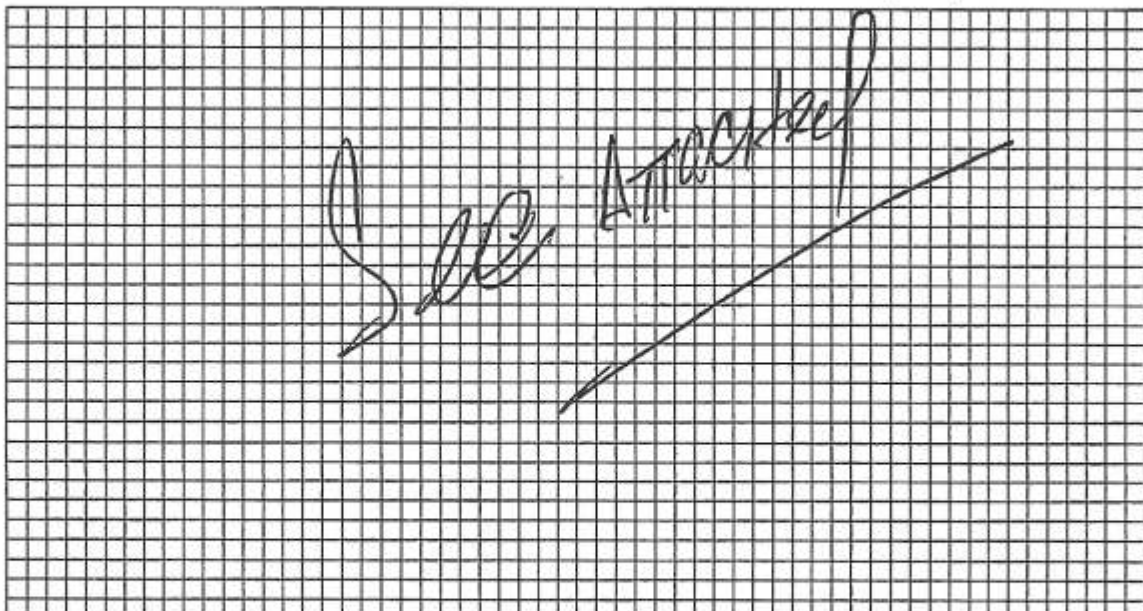
- New Roof Reroofing Recovering Repair Maintenance

ROOF SYSTEM INFORMATION

Low Slope Roof Area (SF) Steep Sloped Roof Area (SF) Total (SF)
944 4,129 4,913

SECTION B (Roof Plan)

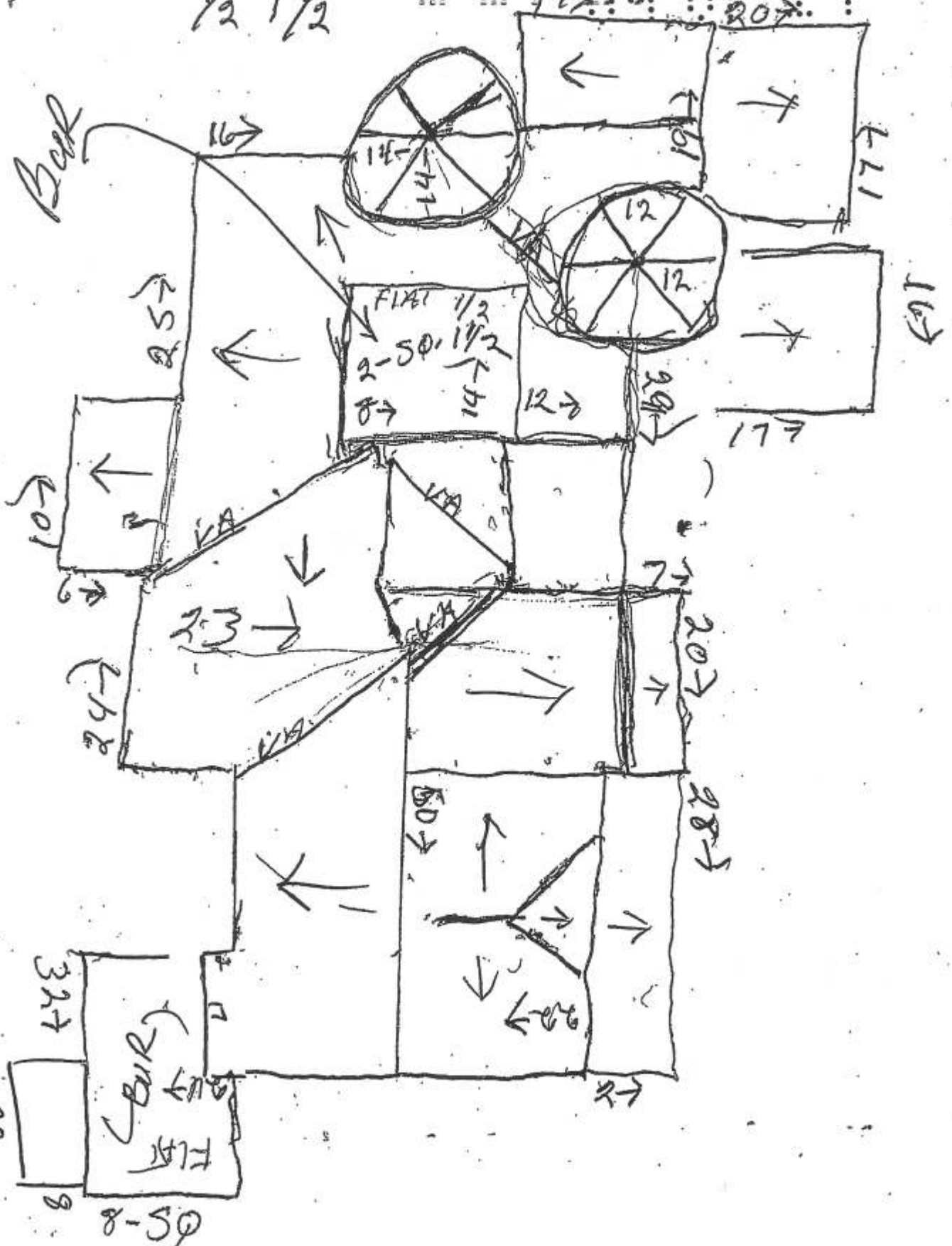
Sketch Roof Plan: Illustrate all levels and sections, roof drains, scuppers, overflow scuppers and overflow drains. Include dimensions of sections and levels, clearly identify dimensions of elevated pressure zones and location of parapets.



FRONT

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Florida Building Code Edition 2010
High Velocity Hurricane Zone Uniform Permit Application Form

Section D (Steep Sloped Roof System)

Roof System Manufacturer: Zion Tile Corp

Product Approval Number: FL# 16057-R1

Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):
P1: 39' P2: 68' P3: 100'

Maximum Design Pressure
Product Approval Specific System: 9749

Method of Tile Attachment: 3/4" 5 gram Polyfoam & H/100

Steep Sloped System Description

Deck Type: Plywood 5/8" min

Type Underlayment: 30# ASTM D226 Type II

Insulation: N/A

Fire Barrier: N/A

Fastener Type & Spacing: 1/4" Coil 1 5/8" TC 12" OC ^{6" OC LAPS} _{ROWS}

Adhesive Type: Self Adhered

Type Cap Sheet: Polyglass Tile Piers

Roof Covering: Alhambra Barrel Tile

Type & Size Drips Handmade
Edge: 3x3 Copper

Roof Slope: 4 : 12

Ridge Ventilation? N/A

Mean Roof Height: 17'

Florida Building Code Edition 2010
High Velocity Hurricane Zone Uniform Permit Application Form

Section E (Tile Calculations)

For Moment based tile systems, choose either Method 1 or 2. Compare the values for M_r with the values from M_i . If the M_r values are greater than or equal to the M_i values, for each area of the roof, then the tile attachment method is acceptable.

Method 1 "Moment Based Tile Calculations Per RAS 127"

$(P_1: 39' \times \lambda \cdot 317 = 1239) - M_g: 4.76 = M_{r1} 763$ Product Approval $M_i 97.49$
 $(P_2: 68' \times \lambda \cdot 317 = 2159) - M_g: 4.76 = M_{r2} 1683$ Product Approval $M_i 97.49$
 $(P_3: 100' \times \lambda \cdot 317 = 3192) - M_g: 4.76 = M_{r3} 2114$ Product Approval $M_i 97.49$

Method 2 "Simplified Tile Calculation Per Table Below"

Required Moment of Resistance (M_r) From Table Below _____ Product Approval M_i _____

M _r Required Moment Resistance*					
Mean Roof Height → Roof Slope ↓	15'	20'	25'	30'	40'
2:12	34.4	36.5	38.2	39.7	42.2
3:12	32.2	34.4	36.0	37.4	39.8
4:12	30.4	32.2	33.8	35.1	37.3
5:12	28.4	30.1	31.6	32.8	34.9
6:12	26.4	28.0	29.4	30.5	32.4
7:12	24.4	25.9	27.1	28.2	30.0

*Must be used in conjunction with a list of moment based tile systems endorsed by the Broward County Board of Rules and Appeals.

For Uplift based tile systems use Method 3. Compare the values for F' with the values for F_r . If the F' values are greater than or equal to the F_r values, for each area of the roof, then the tile attachment method is acceptable.

Method 3 "Uplift Based Tile Calculations Per RAS 127"

$(P_1: \text{ } \times 1: \text{ } = \text{ } \times w := \text{ }) - W: \text{ } \times \cos \theta: \text{ } = F_{r1}$ Product Approval F' _____
 $(P_2: \text{ } \times 1: \text{ } = \text{ } \times w := \text{ }) - W: \text{ } \times \cos \theta: \text{ } = F_{r2}$ Product Approval F' _____
 $(P_3: \text{ } \times 1: \text{ } = \text{ } \times w := \text{ }) - W: \text{ } \times \cos \theta: \text{ } = F_{r3}$ Product Approval F' _____

Where to Obtain Information		
Description	Symbol	Where to find
Design Pressure	P1 or P2 or P3	RAS 127 Table 1 or by an engineering analysis prepared by PE based on ASCE 7
Mean Roof Height	H	Job Site
Roof Slope	θ	Job Site
Aerodynamic Multiplier	λ	Product Approval
Restoring Moment due to Gravity	M_g	Product Approval
Attachment Resistance	M_i	Product Approval
Required Moment Resistance	M_r	Calculated
Minimum Attachment Resistance	F'	Product Approval
Required Uplift Resistance	F_r	Calculated
Average Tile Weight	W	Product Approval
Tile Dimensions	l = length w = width	Product Approval

All calculations must be submitted to the Building Official at the time of permit application.

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-R1

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

DATE: December 17, 2013

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 Miami Dade County's Notice of Acceptance

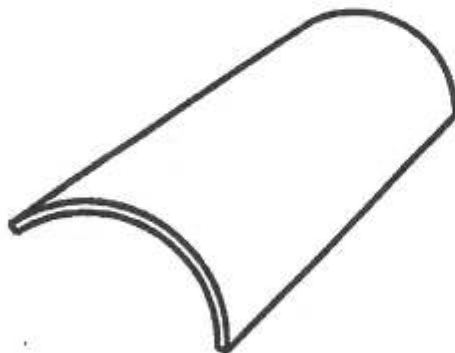
Scope:

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

in the "Installation" section of this approval. The attachment calculations shall be done as a moment based system.

Product Description

Profile Drawing



"Alhambra Tile"

Nominal Tile Dimension(s): L= 17.5"-18.5", W= 8" -8 ½" to 6"-6 ½" taper, Thickness = .65"-.75"

Engineering Properties from Test

Average Weight (W) and Dimension (L x W x T)				
Tile Profile	Weight - W	Length-L	Width	Thickness
Alhambra Barrel Tile	6.44 lbs	18.19"	8.3"	.73"

Evidence Submitted:

TAS 101-95 – Test Procedure for Static Uplift Resistance of Mortar of Adhesive Set Tile Systems. Test Agency – Florida Tec (C.A. # 26095), Report # 121643BR, Date 10/29/13

ASTM C 1167-03 – Standard Specifications for Clay Roof Tiles. Test Agency – Florida Tec (C.A. # 26095), Report # 121643A, Date 10/29/13

Quality Assurance Company

The manufacturer has demonstrated compliance with the Florida Building Code 9B-72.070 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through Keystone Certifications, Inc. (QUA 1824)

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 – λ (ft ³)	
Tile Profile	Direct Deck Installation
Alhambra Tile	0.317

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
	4.94	4.86	4.76	4.63	4.49	4.34

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	97.49*

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

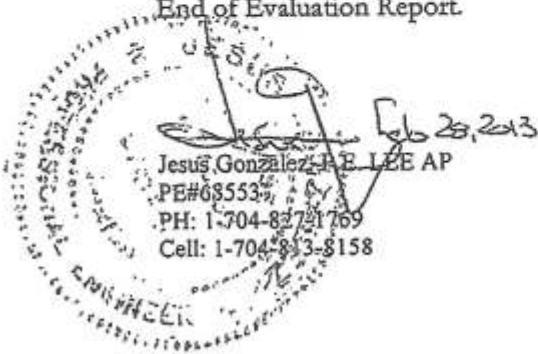
3M™ 2-Component Foam Roof Tile Adhesive AH-160 (NOA-12-0228.18, Exp 05/10/17)

Labeling

All tiles shall bear an imprint per FBC 2010 Section 1715.8.13

**ZION TILE CORP.
MADE IN NICARAGUA**

End of Evaluation Report.





Florida Department of
Business & Professional
Regulation

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Product Approval
USER: Public User

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FL #	FL16057-R1						
Application Type	Revision						
Code Version	2010						
Application Status	Approved						
Comments							
Archived							
Product Manufacturer	Zion Tiles Corp.						
Address/Phone/Email	12002 Southwest 128th Court #103 Miami, FL 33186 (305) 252-9077 jgconsultants@charter.net						
Authorized Signature	Marlo Garcia jgconsultants@charter.net						
Technical Representative							
Address/Phone/Email							
Quality Assurance Representative							
Address/Phone/Email							
Category	Roofing						
Subcategory	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	Jesus Gonzalez						
Florida License	PE-68553						
Quality Assurance Entity	Keystone Certifications, Inc.						
Quality Assurance Contract Expiration Date	12/31/2014						
Validated By	Pedro Figueiredo ✓ Validation Checklist - Hardcopy Received						
Certificate of Independence	Fl16057_R1_COI_Alhambra_COI.pdf						
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>ASTM C1167</td> <td>2003</td> </tr> <tr> <td>TAS 101</td> <td>1995</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	ASTM C1167	2003	TAS 101	1995
<u>Standard</u>	<u>Year</u>						
ASTM C1167	2003						
TAS 101	1995						
Equivalence of Product Standards Certified By							
Sections from the Code							

Product Approval Method

Method 1 Option D

Date Submitted

02/03/2013

Date Validated

02/28/2014

Date Pending FBC Approval

02/23/2013

Date Approved

03/01/2014

Summary of Products		
FL #	Model, Number or Name	Description
16057.1	ALHAMBRA ROOF TILE	ALHAMBRA HANDMADE CLAY TILE
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: See limitations and guidelines for installation listed in the product evaluation report. 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.		Installation Instructions FL16057_R1_II_140228_Evaluation Report Alhambra Roof Tile.pdf Verified By: Jesus Gonzalez PE#68553 Created by Independent Third Party: Yes Evaluation Reports FL16057_R1_AE_140228_Evaluation Report Alhambra Roof Tile.pdf Created by Independent Third Party: Yes

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Contact Us :: 1940 North Monroe Street, Tallahassee FL 32399 Phone: 850-487-1824

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Product Approval Accepts:

