

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

- WIS 10 AND
 05/07/13
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OK -
 Histore
 Open
 5-1-13

CITY OF CORAL GABLES
BUILDING AND ZONING DEPARTMENT

Permit Application

exclusive
 AB041689

MCOL #

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

Date: _____

Application #: _____

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

Permit Type:	<input checked="" type="checkbox"/>
Building	<input type="checkbox"/>
Electrical	<input type="checkbox"/>
Mechanical	<input type="checkbox"/>
Plumbing	<input type="checkbox"/>
Roofing	<input checked="" type="checkbox"/>
Misc.	<input type="checkbox"/>
App.	<input type="checkbox"/>
Date	4/30/13

Master Permit #: BL-12-09-120/

Control #: BL3041970*

Project Information:	<input checked="" type="checkbox"/>
Commercial	<input type="checkbox"/>
Residential:	<input checked="" type="checkbox"/>
Linear Feet:	1624 <input checked="" type="checkbox"/>
Square Feet:	7648 <input checked="" type="checkbox"/>
Value of Work:	\$60,000 <input checked="" type="checkbox"/>

DESCRIPTION OF WORK (PRINT):
 2a - ROOF and NEW ROOF
 FLAT and TILE.
 Alhambra Barrel Terracotta
 ZION TILE / ALHAMBRA HANDMADE CLAY
 COLOR: TERRACOTTA

PROPERTY LOCATION:
 Address: 641 San Lorenzo Ave.
 Coral Gables FL 33146
 Folio #: 0341200221480
 Lot: _____ Block: _____
 Subdivision: _____
 APPROVED CMM 26 APR 13
 Plat book: _____ Page: _____

PROPERTY OWNER:
 Name: Armando J. Olivera
 Address: 712 San Esteban Ave.
 City/State/Zip: Coral Gables FL 33146
 Telephone No.: _____

CONTRACTOR: CODA ROOFING INC.
 Address: 4678 E 10 Ln
 City/State/Zip: Hialeah FL 33018
 License No.: CCC1326045
 Telephone No.: 31381-1060

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 *Armando J. Olivera*

Signature of Qualifier *[Signature]*

The foregoing instrument was acknowledged before me this 15 day of *April* 20 *13* by *Armando J. Olivera*
 () is personally known to me,
 () has produced a _____ as identification,
 NOTARY PUBLIC (SEAL) *[Signature]*
 CARMEN TORRE
 MY COMMISSION # DO B67067
 EXPIRES: April 22, 2013
 Bonded Thru Budget Notary Services

The foregoing instrument was acknowledged before me this 25 day of *April* 20 *13*
 () is personally known to me,
 () has produced a _____ as identification,
 NOTARY PUBLIC (SEAL) *[Signature]*
 MARICELA LOPEZ
 Notary Public - State of Florida
 My Comm. Expires Sep 11, 2016
 Commission # EE 200620
 Bonded Through National Notary Assn.

Florida Building Code Edition 2010

High-Velocity Hurricane Zone Uniform Permit Application Form

Section A (General Information)

Master Permit No. BL-12-09-1201 Process No. _____

Contractor's Name CODA Roofing INC.

Job Address 641 SAN LORENZO AVE.

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)

700

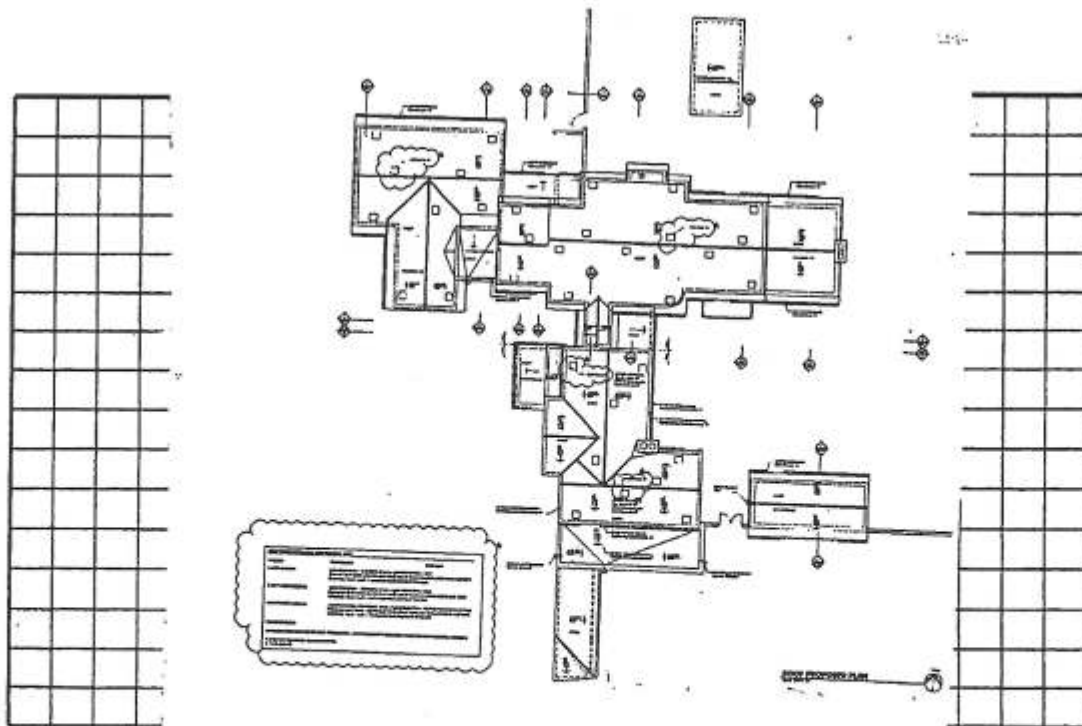
Steep Sloped Roof Area (SF)

New Roof 5322
Re-Roof 1626

Total (SF)

7.648

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 Building Code Edition 2010

High-Velocity Hurricane Zone Uniform Permit Application Form

Section C (Low Slope Application)
 Fill in specific roof assembly components
 and identify manufacturer
 (If a component is not used, identify as "NA")

System Manufacturer: GAF

Product Approval No.: 09-0224-01

Design Wind Pressures, From RAS 128 or Calculations:

P1: -42.8 P2: -71.7 P3: -108.0

Max. Design Pressure, from the specific Product:
 Approval system: 52.5

Deck:
 Type: WOOD

Gauge/Thickness: 5/8"

Slope: 1/2"

Anchor/Base Sheet & No. of Ply(s): 1 glass 005F

Anchor/Base Sheet Fastener/Bonding Material: 1/4" FS ROOF NAILS

Insulation Base Layer: n/a

Base Insulation Size and Thickness: n/a

Base Insulation Fastener/Bonding Material: n/a

Top Insulation Layer: n/a

Top Insulation Size and Thickness: n/a

Top Insulation Fastener/Bonding Material: n/a

Base Sheet(s) & No. of Ply(s): n/a

Base Sheet Fastener/Bonding Material: n/a

Ply Sheet(s) & No. of Ply(s): 1 ply Euc. 120

Ply Sheet Fastener/Bonding Material: Mop

Top Ply: 1 ply Euc. FR 170

Top Ply Fastener/Bonding Material: Mop

Surfacing: n/a

Fastener Spacing for Anchor/Base Sheet Attachment:

Field: 9" oc @ Lap, # Rows 2 @ 9" oc

Perimeter: 4" oc @ Lap, # Rows 6 @ 4" oc

Corner: 4" oc @ Lap, # Rows 6 @ 4" oc

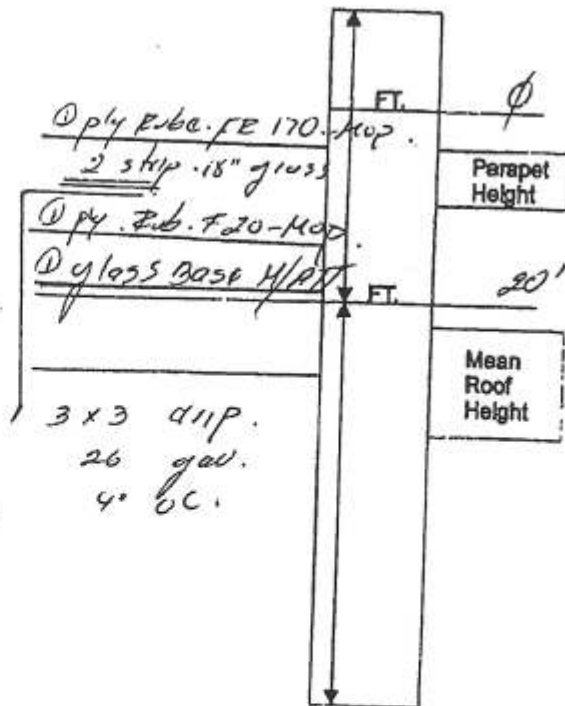
Number of Fasteners Per Insulation Board:

Field _____ Perimeter _____ Corner _____

Illustrate Components Noted and Detailed as Applicable:

Woodblocking, Gutter, Edge Termination, Stripping, Flashing, Continuous Cleat, Cant Strip, Base Flashing, Counter-Flashing, Coping, Etc.

Indicate: Mean Roof Height, Parapet Height, Height of Base Flashing, Component Material, Material Thickness, Fastener Type, Fastener Spacing or Submit Manufacturer Details that Comply with RAS 111 and Chapter 16



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

Section D (Steep Sloped Roof System)

Roof System Manufacturer: 3107

Notice of Acceptance Number: _____

Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):
P1: -39.1 P2: -68.1 P3: -100.7

Steep Sloped Roof System Description

Roof Slope:
3.75: 12

Ridge Ventilation?
n/a

Mean Roof Height: 20'

Deck Type: 5/8" plywood

Type Underlayment: #30 pound BASE MAT

Insulation: n/a

Fire Barrier: n/a

Fastener Type & Spacing: 1 1/4 PS Roof Nails.

Adhesive Type: polyfoam

Type Cap Sheet: #90 Mineral S.

Roof Covering: Alhambra

Type & Size Drip Edge: 3x3 galv.
26 gaw.
6" OC.

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_t with the values from M_r . If the M_t values are greater than or equal to the M_r values, for each area of the roof, then the tile attachment method is acceptable.

Method 1 "Moment Based Tile Calculations Per RAS 127"

$(P_1: 39.1 \times \lambda \cdot 0.21 = 8.21 \cdot M_g: 5.18 = M_{t1} 3.03$ Product Approval M_t 38.80
 $(P_2: 68.1 \times \lambda \cdot 0.21 = 14.34 \cdot M_g: 5.18 = M_{t2} 9.12$ Product Approval M_t 38.80
 $(P_3: 100.7 \times \lambda \cdot 0.21 = 21.44 \cdot M_g: 5.18 = M_{t3} 15.96$ Product Approval M_t 38.80

Method 2 "Simplified Tile Calculations Per Table Below"

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

M _r required Moment Resistance*					
Mean Roof Height → Roof Slope ↓	15'	20'	25'	30'	40'
2:12	34.4	36.6	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. Compared the values for P' with the values for P_r . If the P' values are greater than or equal to the P_r values, for each area of the roof, then the tile attachment method is acceptable.

Method 3 "Uplift Based Tile Calculations Per RAS 127"

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

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 ASCE7
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_t	Product Approval
Required Moment Resistance	M_r	Calculated
Minimum Attachment Resistance	P'	Product Approval
Required Uplift Resistance	P_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

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 – λ (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 Patty 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*

* Patty 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) 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

03.

030303

Labeling

All tiles shall bear an imprint per FBC 2010 Section 1715.8.1.

**ZION TILE CORP.
MADE IN NICARAGUA**

End of Evaluation Report.


PE-23553
Feb 15, 2013

Quarterly Report

February 8, 2013

Manufacturer: Imexinsa, Nicaragua.

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

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


Referenced Quarter	
<input type="checkbox"/>	1 st Quarter (Oct-Dec)
<input checked="" type="checkbox"/>	2 nd Quarter (Jan-Mar)
<input type="checkbox"/>	3 rd Quarter (Apr-Jun)
<input type="checkbox"/>	4 th Quarter (Jul-Sep)
Test Date(s): 02/08/13 - 02/08/13	
Technician: 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	7.865	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 Cardona
 P.E. Lic. # 17138



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Florida Department of
**Business & Professional
 Regulation**

Product Approval
 USER: Public User

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OFFICE OF THE SECRETARY

FL #	FL16057						
Application Type	New						
Code Version	2010						
Application Status	Approved						
Comments							
Archived	<input type="checkbox"/>						
Product Manufacturer	Zion Tiles Corp.						
Address/Phone/Email	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	Roofing						
Subcategory	Roofing Tiles						
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input checked="" type="checkbox"/> 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 Figueredo <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received						
Certificate of Independence	FL16057_R0_COI_12132012_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 3

Date Submitted

10/31/2012

Date Validated

02/15/2013

Date Pending FBC Approval

12/21/2012

Date Approved

02/19/2013

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 RO II Alhambra PER R1.pdf Verified By: Jesus Gonzalez 68553 Created by Independent Third Party: Yes Evaluation Reports FL16057 RO AE Alhambra PER R1.pdf FL16057 RO AE TAS 112 Report.pdf Created by Independent Third Party: Yes

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[Next](#)

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Product Approval Accepts:

