Roatan Mahogany USA, Inc.
4004C Aurora Street
Coral Gables, FL 33146

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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, including the High Velocity Hurricane Zone.

DESCRIPTION: Swietenia Series Outswing Opaque Wood Doors-L.M.I.

APPROVAL DOCUMENT: Drawing No. 18-107 (old 15-256), titled “Swietenia Series Mahogany Swing-Out Door-Opaque Door”, sheets 1 through 7 of 7, dated FEB 26, 2018, prepared by EngCo Inc., signed and sealed by Pedro M. De Figueiredo, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitation:
1. See sheet 5 for hardware. See primary locking notes 2 & 3 and additional secondary locking during Hurricane events, per note 4.
2. Min 3ksi concrete required at head/sill installation

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", 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 NOA revises NOA #15-0921.11 and consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P.E.
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

I. Evidence submitted under previous approvals

A. DRAWINGS
1. Manufacturer's parts drawings and sections (submitted under files #13-0814.06/#12-0713.08)
2. Drawing No. 15-256 (old 12-133-R1), titled “Swietenia Series Mahogany Swing-Out Door-Opaque Door”, sheets 1 through 7 of 7, dated AUG 26, 2015, prepared by EngCo Inc., signed and sealed by Pedro M. De Figueiredo, P.E.

B. TESTS (submitted under files #14-0722.11/#13-0814.06/#12-0713.08/#07-0717.10)
1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

C. CALCULATIONS
1. Anchor Calculations and structural analysis, complying with FBC2014(5th edition), prepared by EngCo Inc., dated 04/21/2016, signed and sealed by Pedro De Figueiredo, P.E.

D. QUALITY ASSURANCE
1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS
1. None.

F. STATEMENTS
3. Statement letter of conformance to FBC 2004 and no financial interest, prepared by Engco Inc., dated 08/28/07, signed and sealed by Pedro DeFigueiredo, P.E. (submitted under file #07-0717.10)

G. OTHER (Items #2 & #3, submitted under files #14-0722.11)
1. This NOA revises NOA #14-0722.11, expiring AUG 08, 2019.
2. Copy of Bill of sales between Roatan Mahogany Millwork, Inc. (seller) and Roatan Mahogany USA, Inc. (buyer) dated 09/26/13, signed by respective official of the companies.
3. Florida Department of state, listing of active status of Roatan Mahogany USA, Inc.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0305.05
Expiration Date: August 08, 2019
Approval Date: May 03, 2018

E - 2
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. New Evidence submitted

A. DRAWINGS
1. Drawing No. 18-107 (old 15-256), titled “Swietenia Series Mahogany Swing-Out Door-Opaque Door”, sheets 1 through 7 of 7, dated FEB 26, 2018, prepared by EngCo Inc., signed and sealed by Pedro M. De Figueiredo, P.E.
   Note: This revision consist of FBC updated note and DWG #.

B. TESTS
1. None.

C. CALCULATIONS
1. None.

D. QUALITY ASSURANCE
1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS
1. None.

F. STATEMENTS

G. OTHER
1. This NOA revises 15-0921.11, expiring 08/08/2019.
2. Verification test required at renewal per RER e-mail dated APR 23, 2018

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0305.05
Expiration Date: August 08, 2019
Approval Date: May 03, 2018
GENERAL NOTES:
FLORIDA BUILDING CODE 2017 - 6TH EDITION - MIFZ
LARGE & SMALL MISSILE IMPACT RATED

1. DEFINITION: THIS PRODUCT IS A SWING-OUT MAHOGANY DOOR;
   DESIGNED, CONSTRUCTED AND DEDUCED TO ENCLOZE AN AREA,
   PROVIDING PROTECTION FROM HURRICANE FORCE WINDS WITHIN
   THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN
   THIS APPROVAL.

2. CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN
   ACCORDANCE WITH THE FLORIDA BUILDING CODE, HIGH VELOCITY
   HURRICANE ZONES (MIFZ).

3. POSTING: A PERMANENT LEGIBLE DECAL SHALL BE PLACED AT A
   READILY VISIBLE LOCATION STATING THE FOLLOWING:
   "ROATAN MAHOGANY USA, INC. - MIAMI - FLORIDA
   LARGE MISSILE IMPACT RESISTANT
   SWITENIA MACROPHYLLA - SWING-OUT DOOR,
   MIAMI-DADE COUNTY PRODUCT APPROVED."

4. LOADS: DESIGNED LOAD CALCULATED BASED ON THE ASCE 7-10 AND
   PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH
   SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT
   EXCEED THE ALLOWABLE PRESSURES HEREIN SPECIFIED. THE DESIGN
   PRESSURES, AS DETERMINED FROM ASCE 7-10, ARE TO BE MULTIPLE
   BY 0.6.

5. MATERIAL: ALL WOOD MATERIAL TO BE FABRICATED FROM KILN
   DRIED MAHOGANY.

6. FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS
   SPECIFIED IN THE CURRENT SET OF DRAWINGS, INSTALLATION
   AND LOADS AS PER THIS APPROVAL.

7. USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR,
   ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:
   7.1. THE STABILITY OF THE STRUCTURE WHERE THE SHUTTER IS TO
   BE ATTACHED INSURING PROPER ANCHORAGE.
   7.2. THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED
   TO WIND LOADS, LOCAL CODE REQUIREMENTS, DESIGNED
   PRESSURES ETC.
   7.3. THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.

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DESIGNED PRESSURE RATING
Pd = ± 75 P5F

MAXIMUM FRAME SIZES
FINISHED WIDTH: FW = 39 1/2"
FINISHED HEIGHT: FH = 123"

MAXIMUM DOOR PANEL SIZES:
DOOR PANEL WIDTH: DPW = 36 1/2"
DOOR PANEL HEIGHT: DPW = 120"

MAXIMUM CLADDING SIZES
1 1/2" MAHOGANY SOLID WOOD PANEL
RAISED PANEL: 25 3/4" X 103 1/2"

WOOD TYPE:
VERNACULAR NAME: TRUE MAHOGANY
SCIENTIFIC NAME: SWITENIA MACROPHYLLA G. KING
FAMILY: MELIACEAE
MINIMUM SPECIFIC GRAVITY: 0.45

LEGEND
FH - FINISHED HEIGHT
FW - FINISHED WIDTH
DLO - DAY LIGHT OPENING
DPI - DOOR PANEL HEIGHT
DPW - DOOR PANEL WIDTH

MIAMI-DADE BCCO:

MATERIAL MANUFACTURER:
ROATAN MAHOGANY USA, INC.
2300 AURORA STREET
CORAL GABLES, FLORIDA

PRODUCT MANUFACTURING:
SWITENIA MACROPHYLLA G. KING
MELIACEAE

PRODUCT MATERIAL:
MAHOGANY
WOOD TYPE:
TRUE MAHOGANY

PRODUCT CODE:
SINGLE PANEL Swing-Out Door

PRODUCT NAME:
MAHOGANY SWING-OUT DOOR

MANUFACTURING DATE:
FEB 26 2018

SCALE:
1/8"-1-07

DRAWING NO:
1 OF 7

SHOP DRAWING:
RAS-52609

COPYRIGHT:
© 2018 ROATAN MAHOGANY USA, INC.

BUILDING CODE:
FLORIDA BUILDING CODE 2017 - 6TH EDITION - MIFZ

HURRICANE ZONE:
MIAMI-DADE COUNTY

REVISIONS:
No. 52609

This product complies with the Florida Building Code, High Velocity Hurricane Zones (MIFZ).

This product is resistant to large missile impacts.

This product is designed and constructed in accordance with the Florida Building Code, High Velocity Hurricane Zones (MIFZ).

This product is fabricated from kiln-dried mahogany.

This product is assembled with screws and anchors as specified in the current set of drawings, installation, and loads as per this approval.

This product is designed and calculated based on the ASCE 7-10 and provided by a professional architect or engineer for each specific project.

This product is installed where the shutter is attached, ensuring proper anchorage.

This product is verified by the qualified architect or engineer of record for the specific project, including site-specific project criteria, wind loads, local code requirements, designed pressures, etc.

This product is adequate for the specific project as per the approval.

This product is designed with a designed pressure rating of ± 75 P5F.

This product is designed for a maximum frame size of 39 1/2" width and 123" height.

This product is designed for a maximum door panel size of 36 1/2" width and 120" height.

This product is designed with a maximum cladding size of 1 1/2" mahogany solid wood panel raised panel: 25 3/4" x 103 1/2".

This product uses true mahogany as the wood type.

The minimum specific gravity of true mahogany is 0.45.

This product is manufactured by Roatan Mahogany USA, Inc., 2300 Aurora Street, Coral Gables, Florida.

This product is a single panel swing-out door.

This product is manufactured using Swietenia macrophylla G. King, belonging to the family Meliaceae.

This product is designed and manufactured under the Miami-Dade County Building Code.

This product is designed and manufactured to comply with the Florida Building Code, High Velocity Hurricane Zones (MIFZ).

This product is designed and manufactured to comply with the Miami-Dade County Building Code.

This product is designed and manufactured with a focus on resistance to large missile impacts.

This product is designed and manufactured to comply with the Florida Building Code, High Velocity Hurricane Zones (MIFZ).

This product is designed and manufactured to comply with the Miami-Dade County Building Code.

This product is manufactured with a focus on durability and resistance to large missile impacts.

This product is designed and manufactured to comply with the Florida Building Code, High Velocity Hurricane Zones (MIFZ).

This product is designed and manufactured with a focus on resistance to large missile impacts.

This product is designed and manufactured to comply with the Miami-Dade County Building Code.

This product is manufactured with a focus on durability and resistance to large missile impacts.

This product is designed and manufactured to comply with the Florida Building Code, High Velocity Hurricane Zones (MIFZ).

This product is designed and manufactured with a focus on resistance to large missile impacts.

This product is designed and manufactured to comply with the Miami-Dade County Building Code.

This product is manufactured with a focus on durability and resistance to large missile impacts.

This product is designed and manufactured to comply with the Florida Building Code, High Velocity Hurricane Zones (MIFZ).

This product is designed and manufactured with a focus on resistance to large missile impacts.

This product is designed and manufactured to comply with the Miami-Dade County Building Code.
TYPICAL PAIR ELEVATIONS

TYPE 5
SPLIT PANEL CONFIGURATION

TYPE 6
ARCH CONFIGURATION

TYPE 7
SQUARE CONFIGURATION

DESIGNED PRESSURE RATING

\[ P_d = \pm 75 \text{ PSF} \]

MAXIMUM FRAME SIZES:
FINISHED WIDTH: FW = 75 1/2"
FINISHED HEIGHT: FH = 123"

MAXIMUM CLADDING SIZES:
1 1/2" MAHOGANY SOLID WOOD PANEL
DLO: 25" X 103 3/4"
**3- NATIONAL .60" DIAM. THROW BOLT**

**HARDWARE LAY-OUT**

- **100° STEEL KEEPER**
  - (2) #14X1 1/4" WOOD SCREWS

- **DOUBLE PLATE .082" THICK STEEL**
  - (6) #14X1 1/4" WOOD SCREWS

**MATERIALS**

1. 4-1/2" x 4-1/2" x 136 HAGER 1279 HINGES SPACED AS PER ELEVATIONS ABOVE AND CONNECTED WITH (6) #12X1 1/4" PM SS #6S. (SQUARE DOOR, 4 PER LEAF AND ARCH DOOR, 3 PER LEAF).

2. ARDICMPX THREE POINT CREMONES ON ACTIVE LEAF FASTENED WITH (2) #10X1 1/2" PM SS #6S.

3. HARROW PRODUCTS INC. FLUSH BOLTS 20G UL LISTED TOP AND BOTTOM OF INACTIVE LEAF.

4. SECONDARY LOCKS ACTIVATE ONLY WHEN HURRICANE FORCE WINDS ARE EXPECTED - NATIONAL .60 DIA THROW BOLT ANCHORED WITH (6) #14X1 1/4" ON ACTIVE AND INACTIVE DOORS TOP AND BOTTOM RAILS.

**MATERIALS**

- **TOP & BOTTOM GUIDE**
- **MID GUIDE**
- **LOCK**
  - (2) #10X1 1/2" WOOD SCREWS
  - (2) #10X1 1/2" WOOD SCREWS
  - (2) #10X1 1/2" WOOD SCREWS
  - 3 1/4" WOOD SCREWS
TYPICAL ANCHORAGE DETAILS

OPTION 1
FRAME WITH MAXIMUM 1/4" PT WOOD SHIM
1/4" ULTRACON BY ELCO WITH 1 1/4" MIN.
EMBEDMENT INTO MASONRY
(SEE SHEET 3 OF 7 FOR ANCHORS LAY-OUT)

OPTION 2
FRAME WITH MAXIMUM 1/4" PT WOOD SHIM AND
1 1/4" PT CNT, WOOD SPACER
1/4" ULTRACON BY ELCO WITH 1 1/4" MIN.
EMBEDMENT INTO MASONRY
(SEE SHEET 3 OF 7 FOR ANCHORS LAY-OUT)

OPTION 3
FRAME WITH MAXIMUM 1/4" PT WOOD SHIM
AND 2X PT CNT, WOOD BUCK BY OTHERS
1/4" ULTRACON BY ELCO WITH 1 1/2" MIN.
EMBEDMENT INTO MASONRY
(SEE SHEET 3 OF 7 FOR ANCHORS LAY-OUT)

OPTION 4
FRAME WITH MAXIMUM 1/4" PT WOOD SHIM
1/4" W/HWX DRILL/SELF DRILLING SCREWS BY
ELCO INTO MIN 1/8" A3E STEEL
(SEE SHEET 3 OF 7 FOR ANCHORS LAY-OUT)

ACTIVE ASTRAGAL INSTALLATION TO DOOR STILE
SAME DETAIL TOP AND BOTTOM

2 1/2" STARTING OF #12X1 WOOD SCREWS SPACED AT 5" OC

FRAME AND DOOR ASSEMBLY

TYPICAL CORNER FRAMING

CLUSTER OF (4) #12X1 HARDWARE

CLUSTER SPACED AT 1 3/4"

TYPICAL #12X1 WOOD SCREWS
SPACED AT 1 1/2" OC

INACTIVE ASTRAGAL INSTALLATION TO DOOR STILE
SAME DETAIL TOP AND BOTTOM

NOTE: AFTER FRAMING ASSEMBLAGE
ALL JOINTS ARE TO BE SEALED
WITH DOW 393 SILICONE.