



MIAMI-DADE COUNTY
 PRODUCT CONTROL SECTION
 11805 SW 26 Street, Room 208
 Miami, Florida 33175-2474
 T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
 BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

Rotan Mahogany Millwork, 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 PERA - 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. PERA 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: Series Outswing glazed Wood Doors-L,M,I.

APPROVAL DOCUMENT: Drawing No. 12-132 (old 07-212), titled "Mahogany Swing-Out Door-glazed Door", sheets 1 through 7 of 7, dated JUL 10, 2012, prepared by EngCo Inc., signed and sealed by Pedro M. De Figueiredo, P.E., bearing the Miami-Dade County Product Control Renewal 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

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 renews NOA # 12-0713.06 and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P.E.



5/22/13

NOA No. 13-0814.04
 Expiration Date: August 08, 2014
 Approval Date: August 29, 2013
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's parts drawings and sections (submitted under files # **12-0713.06** /# **07-0717.08**)
2. Drawing No. **12-132** (old **07-210**), titled "Mahogany Swing-Out Door-glazed Door", sheets 1 through 7 of 7, dated JUL 10, 2012, prepared by EngCo Inc., signed and sealed by Pedro M. De Figueiredo, P.E.
Note: This renews with no change from previous approval.

B. TESTS (submitted under files # **12-0713.06** /# **07-0717.08**)

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

along with marked-up drawings and installation diagram of an outswing mahogany door, prepared by Hurricane Engineering & Testing, Inc., Test Reports No(s). HETI-01-1184, dated 10/29/01, HETI-01-1095, dated 11/2/01, HETI-01-1185, dated 4/18/01, HETI-01-1077, dated 11/9/01, HETI-01-1190, dated 11/25/01, HETI-01-1079, dated 11/26/01, HETI-01-1007, dated 11/6/01, HETI-01-1186, dated 4/18/01 and HETI-01-1006, dated 10/26/01, all signed and sealed by Hector Medina, P.E.

C. CALCULATIONS

1. Anchor Calculations and structural analysis, complying with FBC-2004, prepared by EngCo Inc., dated July 12, 2007, signed and sealed by Pedro De Figueiredo, P.E. (submitted under file # **07-0717.08**).

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

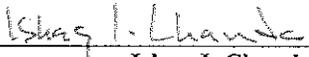
1. Notice of Acceptance No. **08-0709.04** issued to Nebula Glass International, Inc. dba Glasslam for "Glasslam Safety Plus II Laminated Glass", now known as Polymer Extrusion Technology dba Glasslam.

F. STATEMENTS

1. Statement letter of conformance to FBC 2007 & FBC 2010, prepared by Engco Inc., dated 08/13/10, signed and sealed by Pedro M. DeFigueiredo, P.E. (submitted under file # **12-0713.06**).
2. 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 # **07-0717.08**)
3. Lab compliance as part of the above referenced test report.
4. Statement quotation letter dated 08/13/12, issued by Fenestration Testing lab, Inc for retest, signed by Leigh B. Sanchez.

G. OTHER

1. This NOA conditionally **renews** NOA # **12-0713.06** for one year, subjected to successful retest, the current NOA expired on AUG 08, 2013.
2. Pending test proposal dated 08/13/12 approved by PERA.


Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 13-0814.04
Expiration Date: August 08, 2014
Approval Date: August 29, 2013

GENERAL NOTES:

FLORIDA BUILDING CODE 2010 HVHZ
LARGE & SMALL MISSILE IMPACT RATED

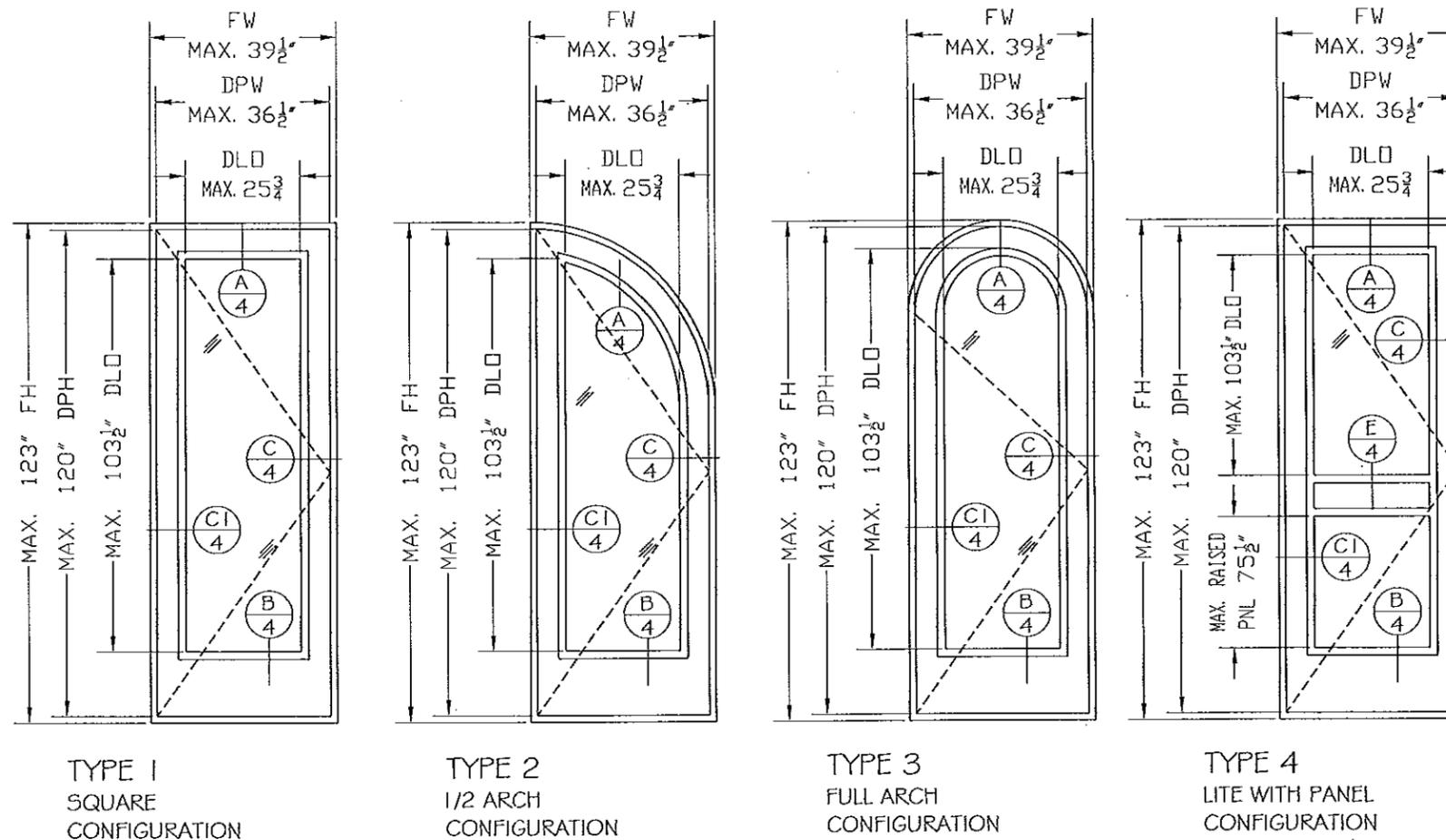
- 1- DEFINITION: THIS PRODUCT IS A SWING-OUT MAHOGANY DOOR; DESIGNED, CONSTRUCTED AND ERECTED TO ENCLOSE AN AREA, PROVIDING PROTECTION FROM HURRICANE FORCE WINDS WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL.
- 2- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE 2010 FLORIDA BUILDING CODE, HIGH VELOCITY HURRICANE ZONES (HVHZ).
- 3- POSTING: A PERMANENT LEGIBLE DECAL SHALL BE PLACED AT A READILY VISIBLE LOCATION STATING THE FOLLOWING:

"ROATAN MAHOGANY MILLWORK INC. - MIAMI - FLORIDA
LARGE MISSILE IMPACT RESISTANT
ROATAN 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 HERE IN 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, WINDLOADS, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
 - 7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.
- 8- DISSIMILAR MATERIALS: MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL, THAT COME IN CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2010 FLORIDA BUILDING CODE.

TABLE OF CONTENTS:

SHEET	CONTENTS
1 OF 7	TYPICAL SINGLE ELEVATIONS, DESIGN RATING, GENERAL NOTES
2 OF 7	TYPICAL PAIR ELEVATIONS, DESIGN RATING
3 OF 7	TYPICAL ANCHORAGE LAY-OUT
4 OF 7	TYPICAL CROSS SECTIONS AND CLADDING OPTIONS
5 OF 7	HARWARE LAY-OUT
6 OF 7	ANCHORAGE DETAIL, PRODUCT ASSEMBLY
7 OF 7	PRODUCT COMPONENTS AND BILL OF MATERIALS

TYPICAL SINGLE ELEVATIONS



DESIGNED PRESSURE RATING	
Pd = ± 75 PSF	
MAXIMUM FRAME SIZES: FINISHED WIDTH: FW = 39 1/2" FINISHED HEIGHT: FH = 123"	
MAXIMUM CLADDING SIZES: 1/2" GLASLAM SAFETY-PLUS II IMPACT GLASS DLO: 25 3/4" X 103 1/2" 1 1/2" MAHOGANY SOLID WOOD PANEL DLO: 25 3/4" X 75 1/2"	
LEGEND FH - FINISHED HEIGHT FW - FINISHED WIDTH DLO - DAY LIGHT OPENING DPH - DOOR PANEL HEIGHT DPW - DOOR PANEL WIDTH	

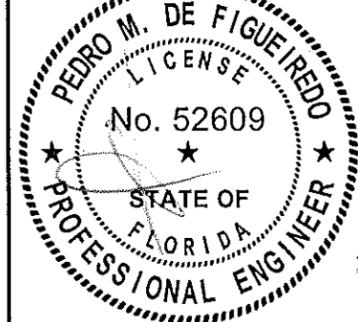
PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 13-0814.04
Expiration Date: AUG 08, 2014
By: [Signature]

WOOD TYPE:
VERNACULAR NAME: TRUE MAHOGANY SCIENTIFIC NAME: SWIETENIA MACROPHYLLA G. KING FAMILY: MELIACEAE MINIMUM SPECIFIC GRAVITY: 0.45
GLASS TYPE:
1/2" LAMINATED MADE OF TWO 3/16" ANNEAL LITES PLUS GLASLAM SAFETY-PLUS II INTERLAYER AS PER CURRENT NOA

MANUFACTURER:
ROATAN MAHOGANY MILLWORK INC
4004C AURORA STREET
CORAL GABLES, FL 33146
PHONE: (305) 774-5999
FAX: (305) 774-0083

PRODUCT:
MAHOGANY SWING-OUT DOOR
GLAZED DOOR
GLASS & WOOD PANEL OPTIONS
LARGE & SMALL MISSILE IMPACT

ENGINEERING:
ENGCO INC. CA 8116
5595 ORANGE DR. 201
DAVIE, FL. 33314
Tel.: (954) 585-0304
ENGCO@AOL.COM



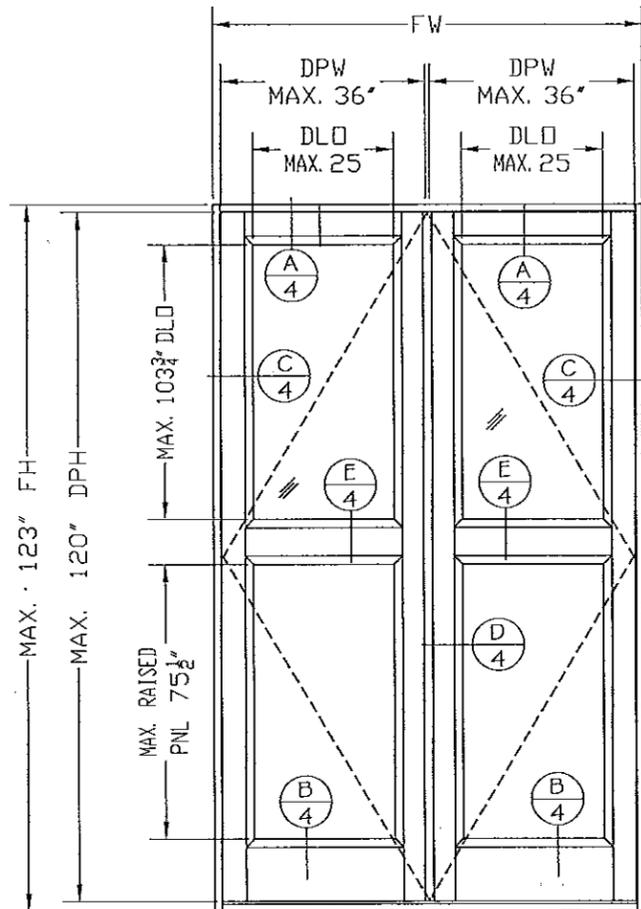
JUL 10 2012
Engineer Seal
Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 12-0713.06
Expiration Date: AUG 08, 2013
By: [Signature]

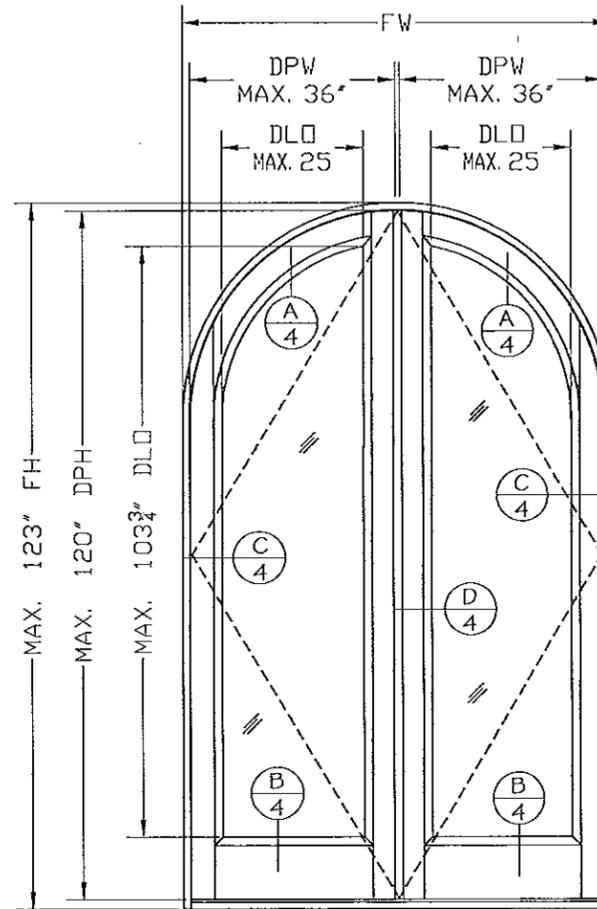
DATE: 06/25/2012
SCALE: NA
DESIGN BY: PPMF

SHEET 1 OF 7
DRAWING #: 12-132

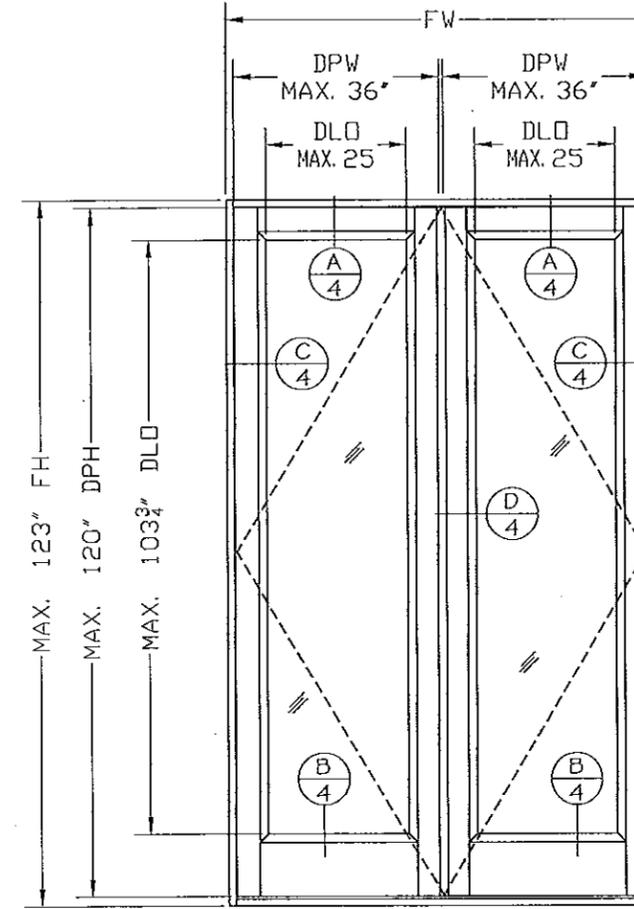
TYPICAL PAIR ELEVATIONS



TYPE 5
SPLIT PANEL CONFIGURATION



TYPE 6
ARCH CONFIGURATION



TYPE 7
SQUARE CONFIGURATION

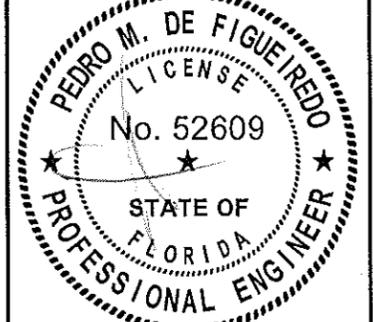
DESIGNED PRESSURE RATING $P_d = \pm 75$ PSF
MAXIMUM FRAME SIZES: FINISHED WIDTH: FW = 75 1/2" FINISHED HEIGHT: FH = 123"
MAXIMUM CLADDING SIZES: 1/2" GLASLAM SAFETY-PLUS II IMPACT GLASS DLO: 25" X 103 3/4" 1 1/2" MAHOGANY SOLID WOOD PANEL DLO: 25" X 103 3/4"

PRODUCT REVISED
to comply with the Florida
Building Code
Amendment No. 13-0814.04
Expiration Date 8/8/14
By: *Shane J. L...*
Product Control

MANUFACTURER:
**ROATAN
MAHOGANY
MILLWORK INC**
4004C AURORA STREET
CORAL GABLES, FL 33146
PHONE: (305) 774-5999
FAX: (305) 774-0083

PRODUCT:
**MAHOGANY
SWING-OUT DOOR**
GLAZED DOOR
GLASS & WOOD PANEL OPTIONS
LARGE & SMALL MISSILE IMPACT

ENGINEERING:
ENGCO INC. CA 8116
5595 ORANGE DR. 201
DAVIE, FL. 33314
Tel.: (954) 585-0304
ENGCO@AOL.COM



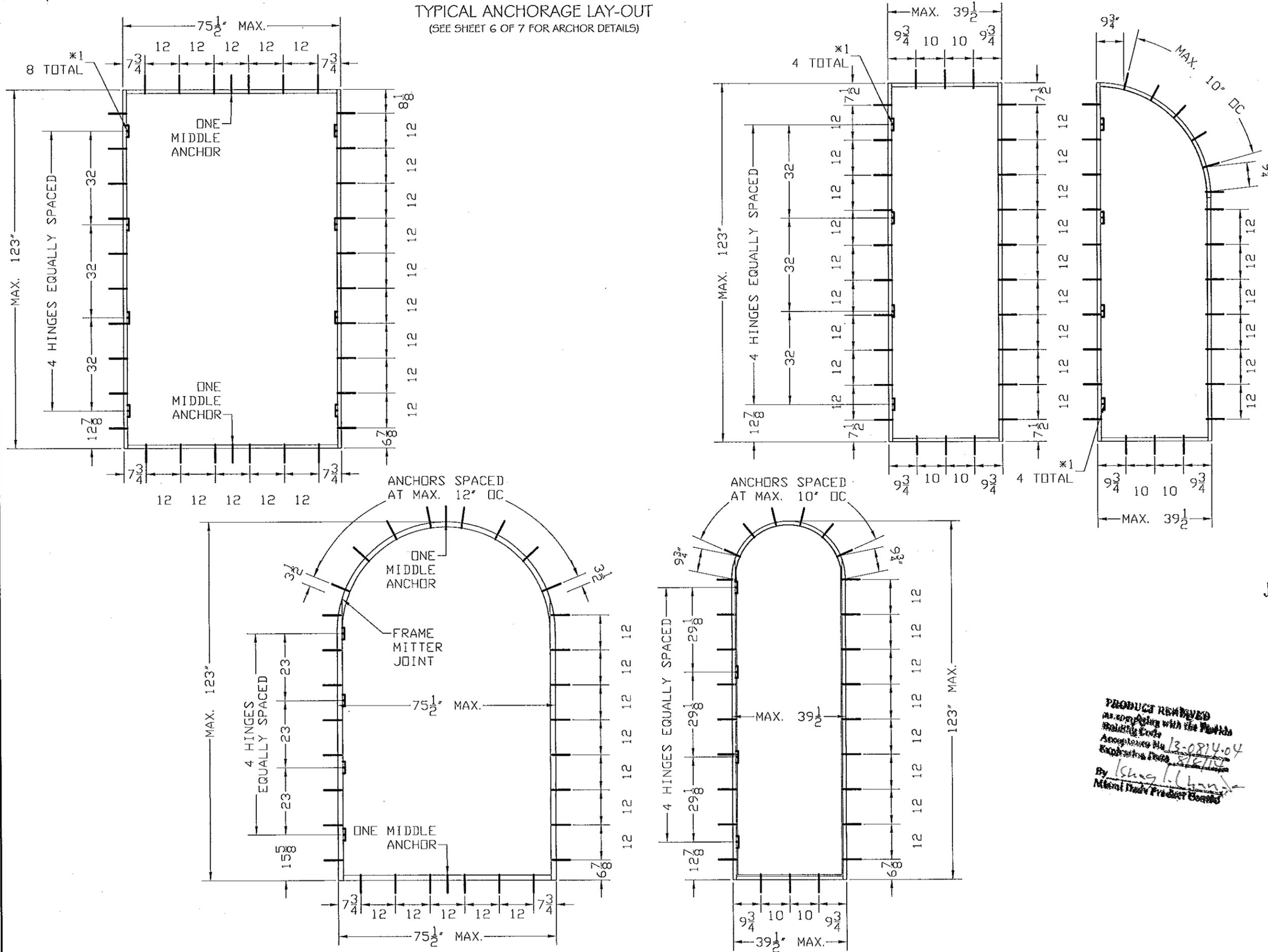
JUL 10 2012
Engineer Seal
Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:
PRODUCT REVISED
to comply with the Florida
Building Code
Amendment No. 12-0713-06
Expiration Date 8/8/13
By: *Shane J. L...*
Product Control

DATE: 06/25/2012
SCALE: NA
DESIGN BY: PPMF

SHEET 2 OF 7
DRAWING #: 12-132

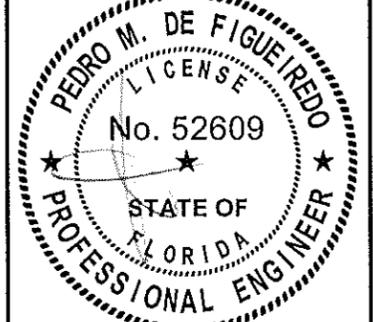
TYPICAL ANCHORAGE LAY-OUT
(SEE SHEET 6 OF 7 FOR ANCHOR DETAILS)



MANUFACTURER:
ROATAN MAHOGANY MILLWORK INC
4004C AURORA STREET
CORAL GABLES, FL 33146
PHONE: (305) 774-5999
FAX: (305) 774-0083

PRODUCT:
MAHOGANY SWING-OUT DOOR
GLAZED DOOR
GLASS & WOOD PANEL OPTIONS
LARGE & SMALL MISSILE IMPACT

ENGINEERING:
ENGCO INC. CA 8116
5595 ORANGE DR. 201
DAVIE, FL. 33314
Tel.: (954) 585-0304
ENGCO@AOL.COM



JUL 10 2012
Engineer Seal
Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0713-06
Expiration Date 8/8/13
By Ismael J. Chando
Miami Dade Product Council

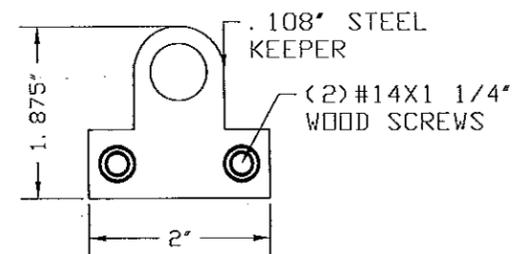
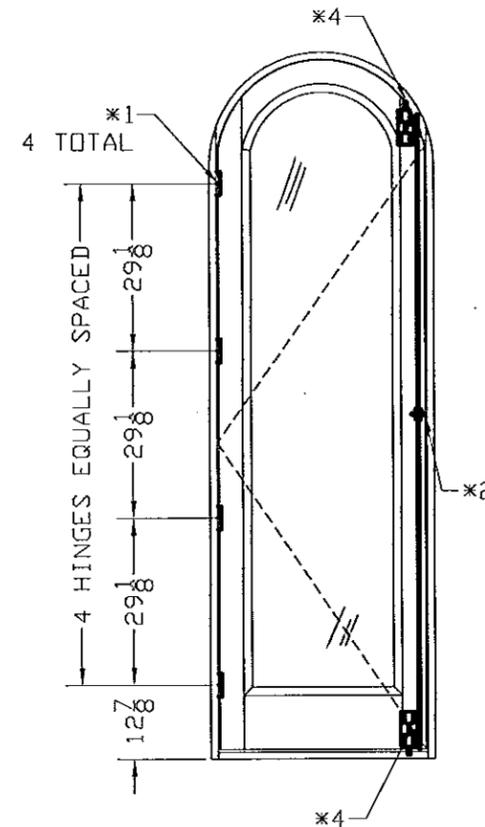
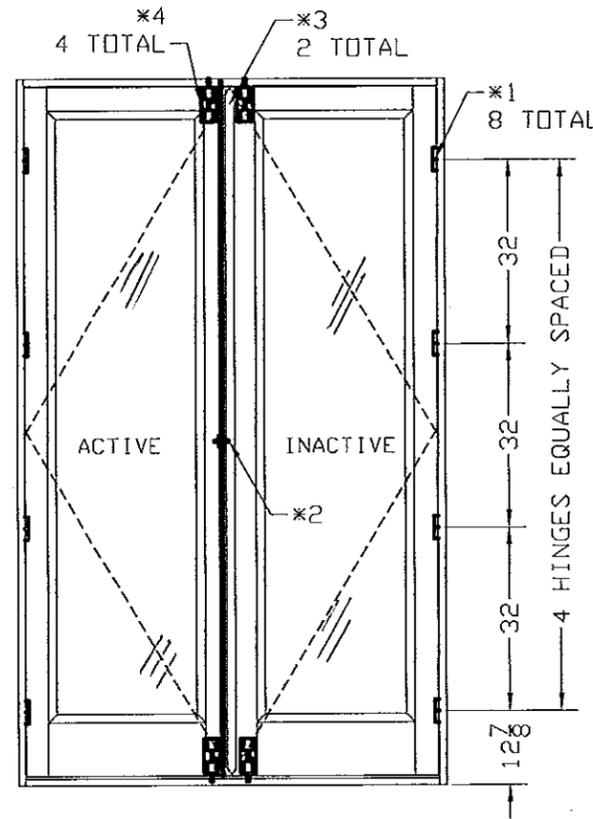
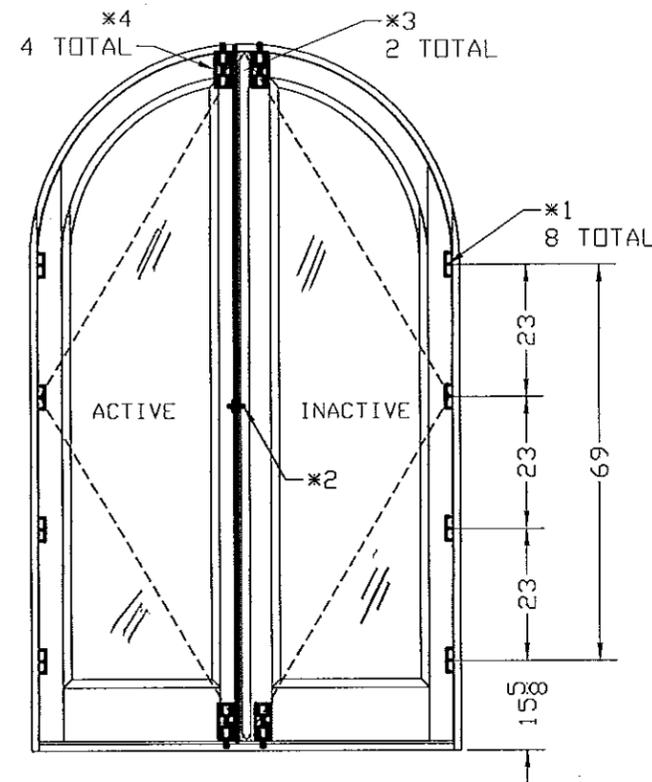
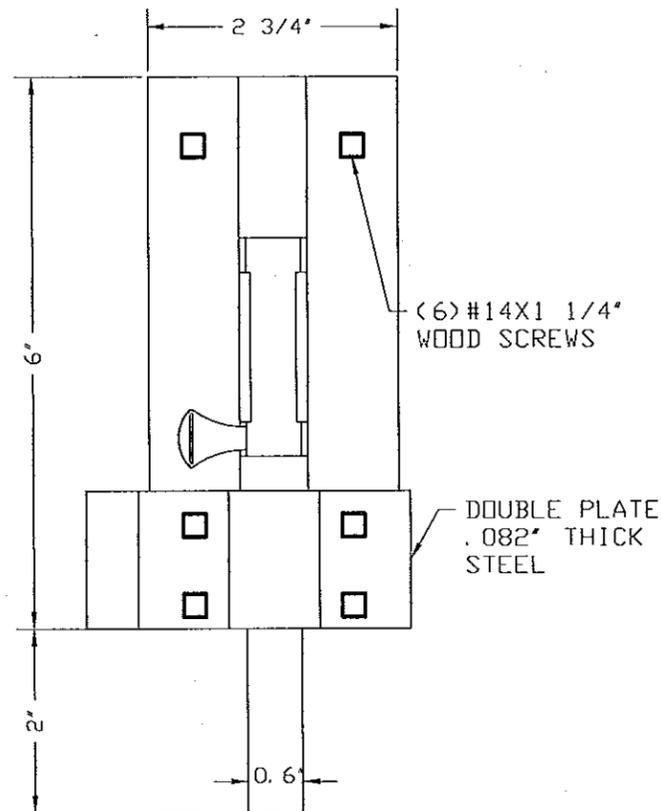
DATE: 06/25/2012
SCALE: NA
DESIGN BY: PPMF

SHEET 3 OF 7
DRAWING #: 12-132

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0713-06
Expiration Date 8/8/13
By Ismael J. Chando
Miami Dade Product Council

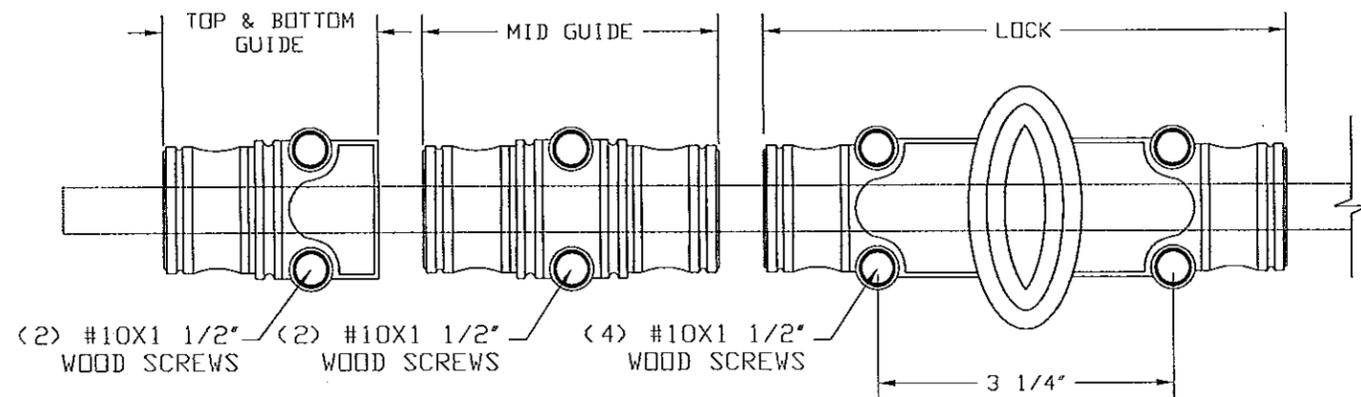
*3- NATIONAL .60" DIAM. THROW BOLT

HARDWARE LAY-OUT

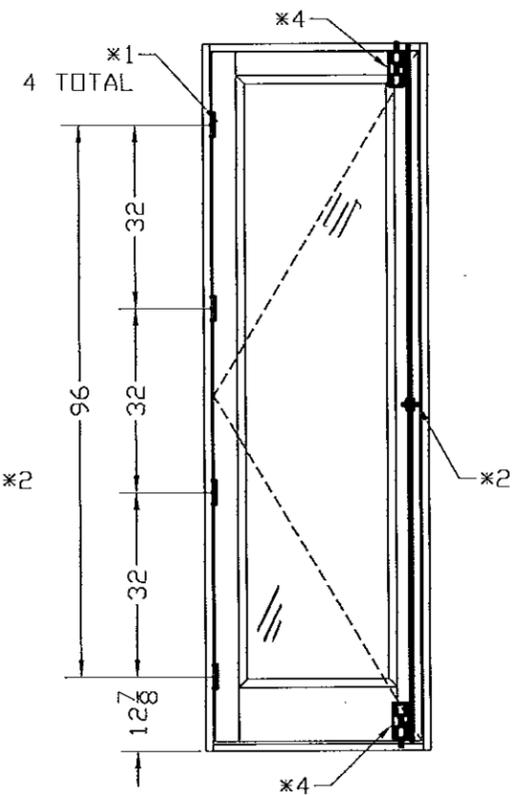
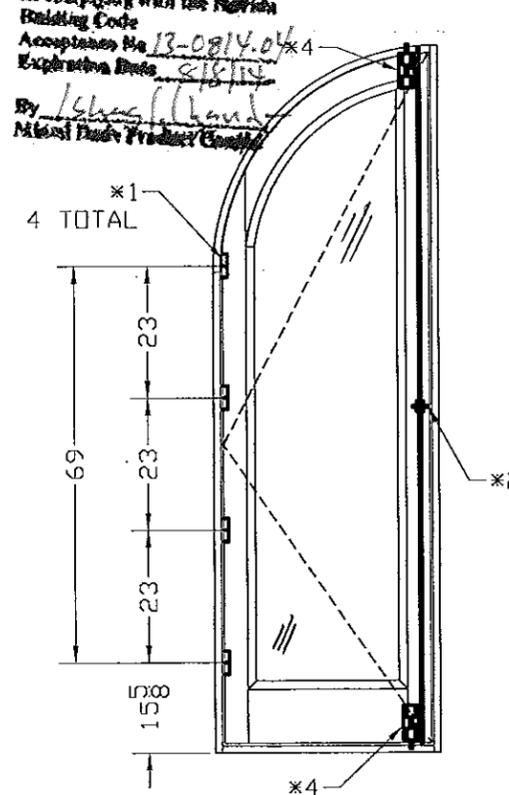


- * HARDWARE
- 1- 4 1/2"x 4 1/2"x .136 HAGER 1279 HINGES SPACED AS PER ELEVATIONS ABOVE AND CONNECTED WITH (8) #12x1 1/4" FH SMS. (SQUARE DOOR, 4 PER LEAF AND ARCH DOOR, 3 PER LEAF)
 - 2- ARDIMPEX THREE POINT CREMONES ON ACTIVE LEAF FASTENED WITH (12) #10x1 1/2" FH SMS.
 - 3- HARROW PRODUCTS INC. FLUSH BOLTS 29GG UL LISTED TOP AND BOTTOM OF INACTIVE LEAF.
 - 4- SECONDARY LOCKS (ACTIVATE ONLY WHEN HURRICANE FORCE WINDS ARE EXPECTED) - NATIONAL O.60 DIA THROW BOLT ANCHORED WITH (6) #14X1 1/4" ON ACTIVE AND INACTIVE DOORS TOP AND BOTTOM RAILS.

*2- ARDIMPEX THREE POINT CREMONES
SAME DETAIL TOP AND BOTTOM



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 13-0914.04
Expiration Date 8/15/14
By: [Signature]
Miami Dade Product Control



MANUFACTURER:

ROATAN
MAHOGANY
MILLWORK INC

4004C AURORA STREET
CORAL GABLES, FL 33146
PHONE: (305) 774-5999
FAX: (305) 774-0083

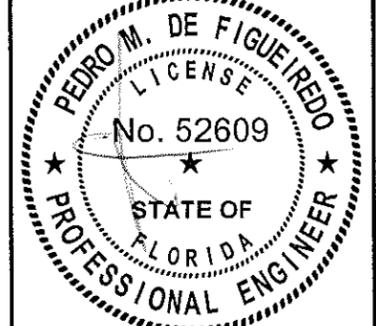
PRODUCT:

MAHOGANY
SWING-OUT DOOR

GLAZED DOOR
GLASS & WOOD PANEL OPTIONS
LARGE & SMALL MISSILE IMPACT

ENGINEERING:

ENGCO INC. CA 8116
5595 ORANGE DR. 201
DAVIE, FL. 33314
Tel.: (954) 585-0304
ENGCO@AOL.COM



JUL 10 2012
Engineer Seal
Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:

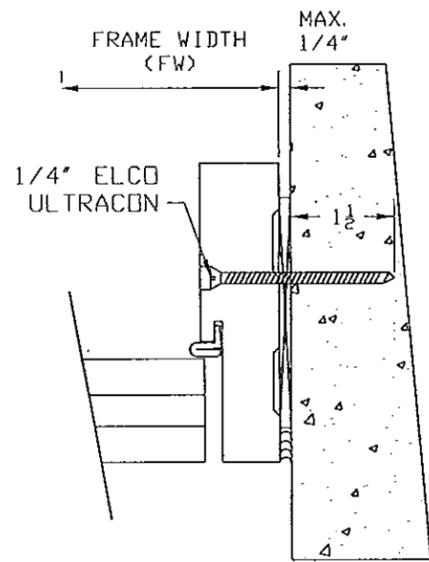
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0713.06
Expiration Date 8/15/13
By: [Signature]
Miami Dade Product Control

DATE: 06/25/2012
SCALE: NA
DESIGN BY: PPMF

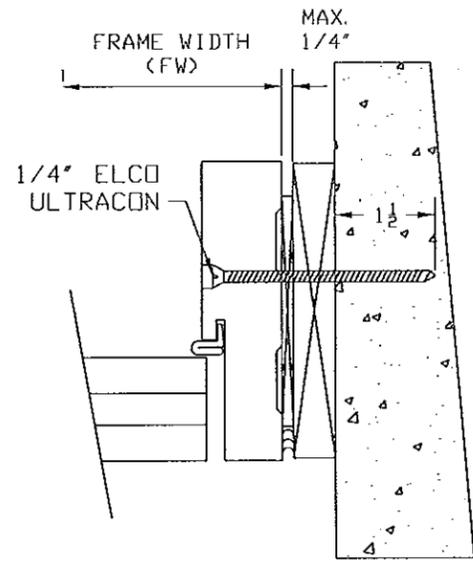
SHEET
5 OF 7

DRAWING #:
12-132

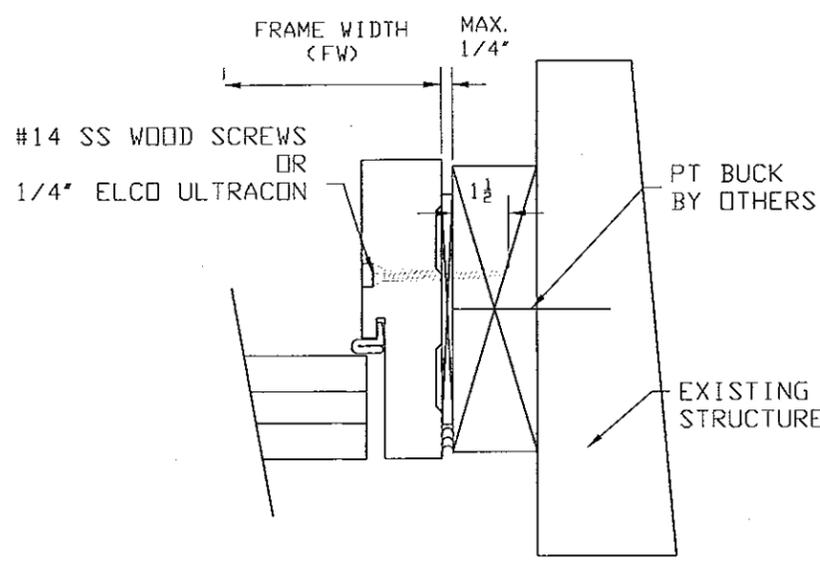
TYPICAL ANCHORAGE DETAILS



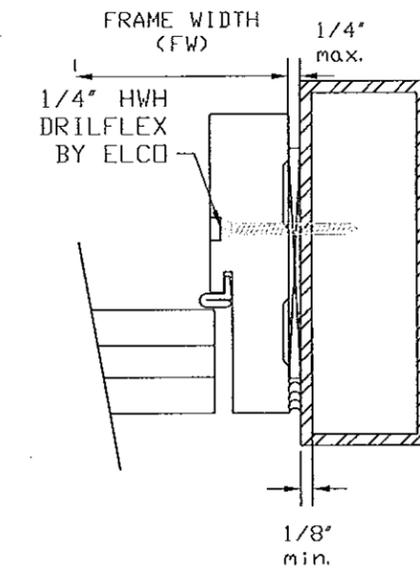
OPTION 1
FRAME WITH MAXIMUM 1/4" PT WOOD SHIM
1/4" ULTRACONS BY ELCO WITH 1 1/4" MIN.
EMBEDMENT INTO MASONRY
(SEE SHEET 3 OF 7 FOR ANCHORS LAY-OUT)



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

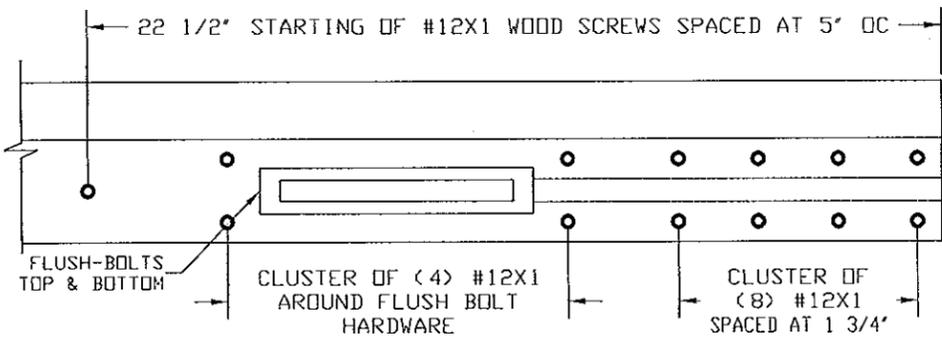


OPTION 3
FRAME WITH MAXIMUM 1/4" PT WOOD SHIM
AND 2" X PT CONT. WOOD BUCK BY OTHERS
#14 SS WOOD SCREWS OR 1/4" ULTRACONS WITH
1 1/2" MIN. EMBEDMENT INTO WOOD (SG=.55)
(SEE SHEET 3 OF 7 FOR ANCHORS LAY-OUT)

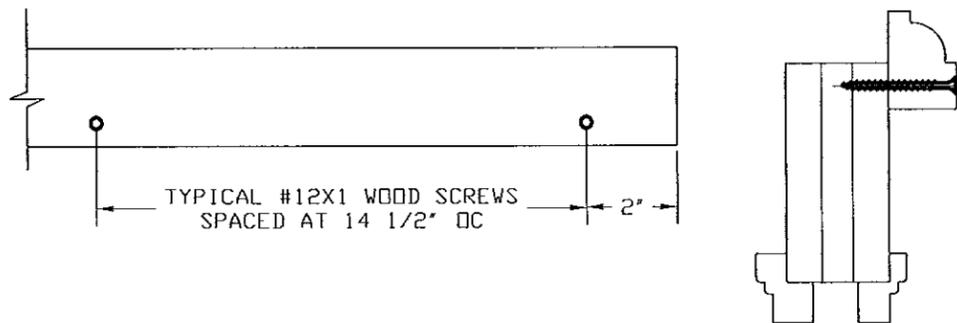


OPTION 4
FRAME WITH MAXIMUM 1/4" PT WOOD SHIM
1/4"-20 HWH DRILFLEX SELF DRILLING SCREWS BY
ELCO INTO MIN. 1/8" A36 STEEL
(SEE SHEET 3 OF 7 FOR ANCHORS LAY-OUT)

ACTIVE ASTRAGAL INSTALLATION TO DOOR STILE
SAME DETAIL TOP AND BOTTOM

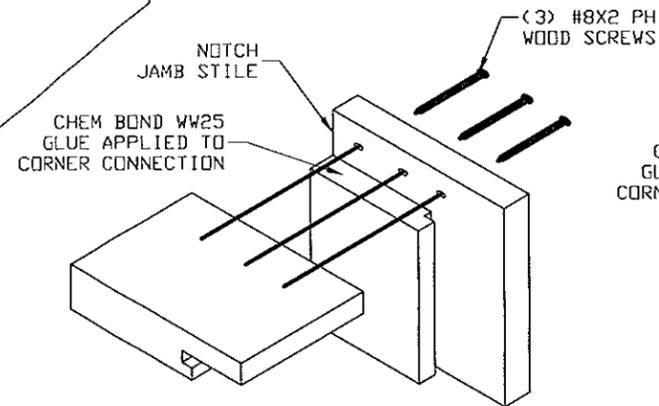


INACTIVE ASTRAGAL INSTALLATION TO DOOR STILE
SAME DETAIL TOP AND BOTTOM



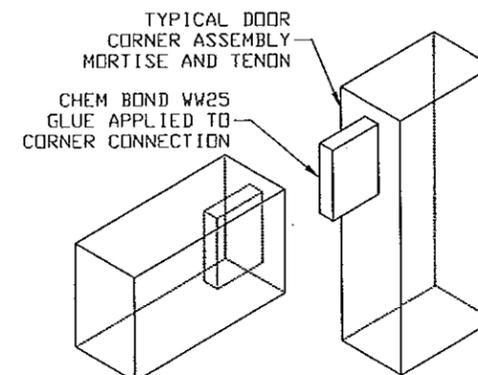
FRAME AND DOOR ASSEMBLY

TYPICAL CORNER FRAMING CONSTRUCTION



NOTE: AFTER FRAMING ASSEMBLAGE
ALL JOINTS ARE TO BE SEALED
WITH DOW 995 SILICONE.

TYPICAL DOOR CORNER CONSTRUCTION



PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No 13-0814-04
Expiration Date 8/8/14
By Ishag L. Chant
Miami Dade Product Control

MANUFACTURER:
ROATAN MAHOGANY MILLWORK INC
4004C AURORA STREET
CORAL GABLES, FL 33146
PHONE: (305) 774-5999
FAX: (305) 774-0083

PRODUCT:
MAHOGANY SWING-OUT DOOR
GLAZED DOOR
GLASS & WOOD PANEL OPTIONS
LARGE & SMALL MISSILE IMPACT

ENGINEERING:
ENGCO INC. CA 8116
5595 ORANGE DR. 201
DAVIE, FL. 33314
Tel.: (954) 585-0304
ENGCO@AOL.COM



JUL 10 2012
Engineer Seal
Pedro De Figueiredo - PE 52609

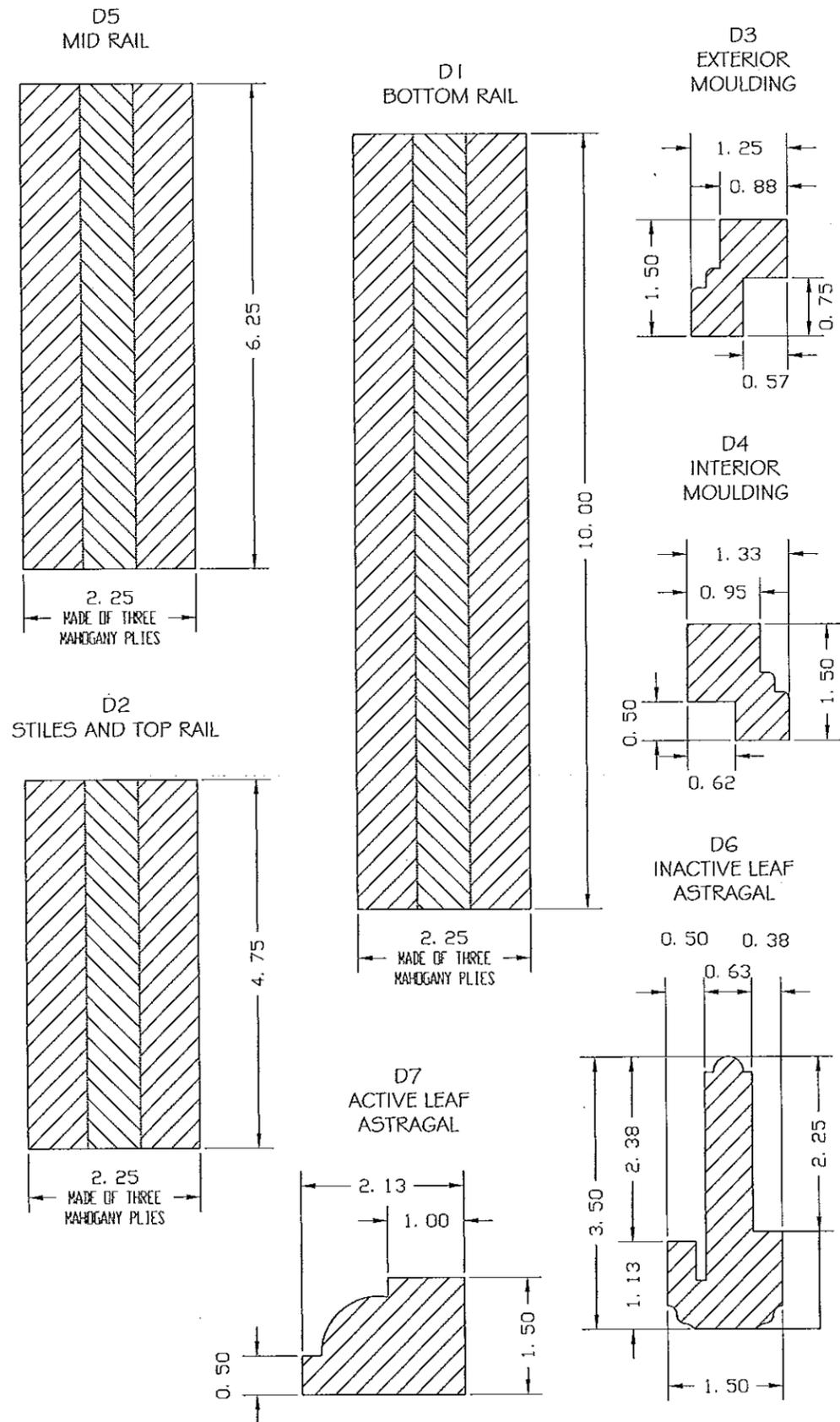
MIAMI-DADE BCCO:
PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No 12-0713-06
Expiration Date 8/8/13
By Ishag L. Chant
Miami Dade Product Control

DATE: 06/25/2012
SCALE: NA
DESIGN BY: PPMF

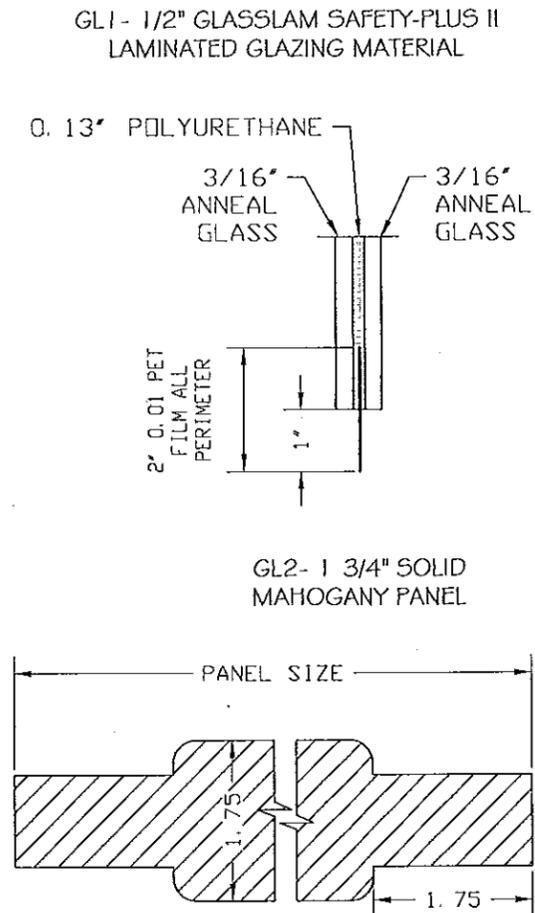
SHEET 6 OF 7
DRAWING #: 12-132

PRODUCT COMPONENTS AND BILL OF MATERIALS

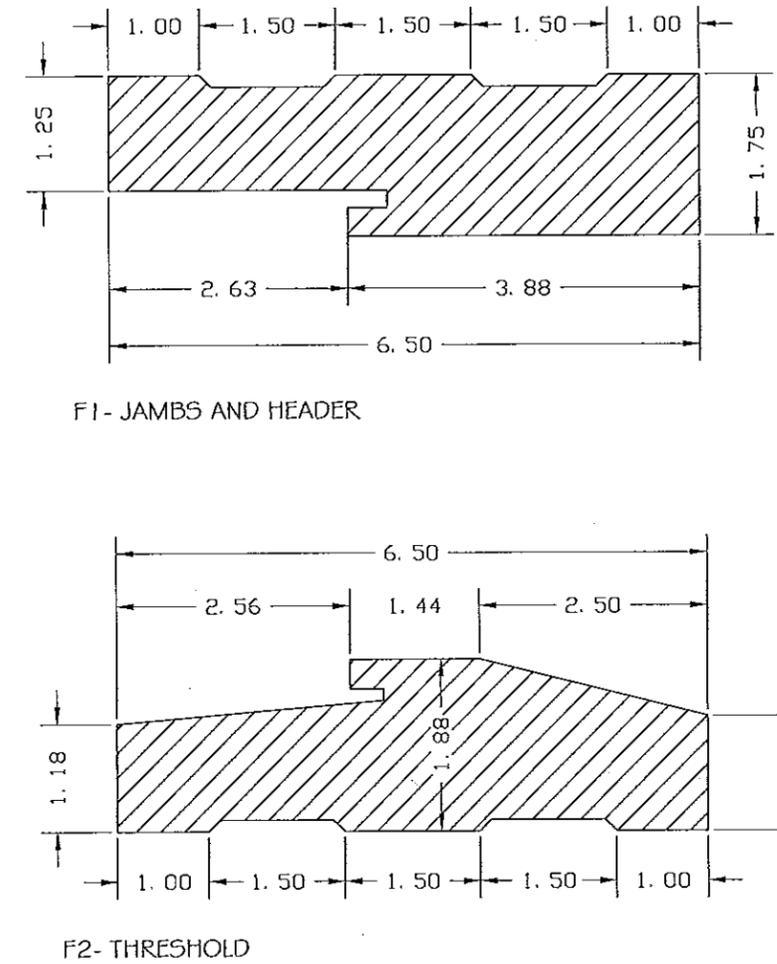
DOOR PARTS



CLADDING



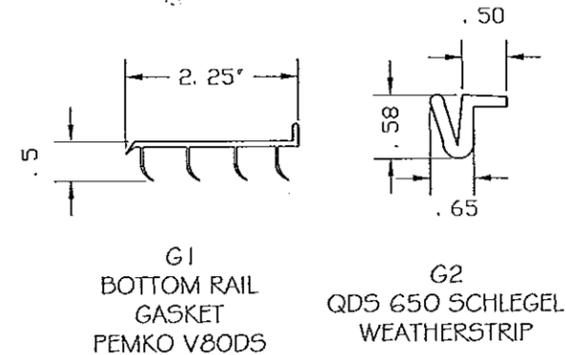
FRAME PARTS



BILL OF MATERIALS

ITEM#	DESCRIPTION	SIZE	REMARKS
D1	BOTTOM RAIL	2.25"X 10"	MAHOGANY WOOD
D2	TOP RAIL & STILES	2.25"X 4.75"	MAHOGANY WOOD
D3	EXTERIOR MOULDING	1.50"X 1.25"	MAHOGANY WOOD
D4	INTERIOR MOULDING	1.50"X 1.375"	MAHOGANY WOOD
D5	MID RAIL	2.25"X 6.25"	MAHOGANY WOOD
D6	INACTIVE ASTRAGAL	3.50"X 1.50"	MAHOGANY WOOD
D7	ACTIVE ASTRAGAL	2.13"X 1.50"	MAHOGANY WOOD
GL1	IMPACT GLASS	1/2" LAMINATED	BY GLASSLAM
GL2	SOLID PANEL	1.75" THICK	MAHOGANY WOOD
F1	JAMB AND HEADER	1.75"X6.50"	MAHOGANY WOOD
F2	SILL	1.875"X6.50"	MAHOGANY WOOD
G1	BOTTOM RAIL GASKET	2.25"X0.5"	PEMCO V80DS VINYL
G2	FRAME SEAL	0.65"X0.58"	SCHEGEL QDS 650

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 13-0814.04 Expiration Date AUG 08, 2014 By Ishag I. Chank Misal Trade Product Control



MANUFACTURER:

ROATAN MAHOGANY MILLWORK INC

4004C AURORA STREET CORAL GABLES, FL 33146 PHONE: (305) 774-5999 FAX: (305) 774-0083

PRODUCT:

MAHOGANY SWING-OUT DOOR

GLAZED DOOR GLASS & WOOD PANEL OPTIONS LARGE & SMALL MISSILE IMPACT

ENGINEERING:

ENGCO INC. CA 8116

5595 ORANGE DR. 201 DAVIE, FL. 33314 Tel.: (954) 585-0304 ENGCO@AOL.COM



JUL 10 2012 Engineer Seal Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 12-0713.06 Expiration Date AUG 08, 2014 By Ishag I. Chank Misal Trade Product Control

DATE: 06/25/2012 SCALE: NA DESIGN BY: PPMF

SHEET 7 OF 7

DRAWING #: 12-132