



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

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

## NOTICE OF ACCEPTANCE (NOA)

**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: Series "Roatan Euro Profile" Outswing Wood Casement Window - L.M.I.

**APPROVAL DOCUMENT:** Drawing No. **20-150**, titled "Roatan Euro Profile Casement Windows", sheets 1 through 9 of 9, dated 09/10/20, prepared by PPMF Inc., signed and sealed by Pedro M. De Figueiredo, P.E., bearing the Miami-Dade County Product Control 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 Division.

### 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, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise 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#18-0206.05** and consists of this page 1, and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P.E.**



S.Z.  
01/07/2021

NOA No. 20-1013.13  
Expiration Date: June 07, 2023  
Approval Date: January 07, 2021  
Page 1

**Roatan Mahogany USA, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections. (*Submitted under NOA No. 18-0206.05*)
2. Drawing No. **18-015**, titled "Roatan Euro Profile Casement Windows", sheets 1 through 9 of 9, dated 01/12/18, prepared by PPMF, Inc., signed and sealed by Pedro M. De Figueiredo, P.E.

**B. TESTS**

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  
7) Drop Load Test, per FBC 1618.4.6  
along with marked-up drawings and installation diagram of an outswing wood casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-16-6910**, dated 08/09/17, signed and sealed by Idalmis Ortega, P.E.  
(*Submitted under NOA No. 18-0206.05*)

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC 6<sup>th</sup> Edition (2017)**, prepared by PPMF, Inc., dated 02/04/18 with revised on 05/16/18, signed and sealed by Pedro M. De Figueiredo, P.E.  
(*Submitted under NOA No. 18-0206.05*)
2. Glazing complies with **ASTM E1300-09/12**.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **16-0208.12** issued to Polymer Extrusion Technology, Inc. dba Glasslam for their "**Glasslam Safety-Plus II Glass Interlayer**" dated 06/16/16, expiring on 08/07/18.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 6<sup>th</sup> Edition (2017)**, and of no financial interest, dated February 04, 2018, issued by PPMF Inc., signed and sealed by Pedro M. De Figueiredo, P.E.

**G. OTHER**

1. None.



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Sifang Zhao, P.E.  
Product Control Examiner  
NOA No. 20-013.13  
Expiration Date: June 07, 2023  
Approval Date: January 07, 2021

**Roatan Mahogany USA, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **20-150**, titled “Roatan Euro Profile Casement Windows”, sheets 1 through 9 of 9, dated 09/10/20, prepared by PPMF Inc., signed and sealed by Pedro M. De Figueiredo, P.E.

**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**

1. Statement letter of conformance, complying with **FBC 7<sup>th</sup> Edition (2020)**, and of no financial interest, dated 09/10/2020, issued by PPMF Inc., signed and sealed by Pedro M. De Figueiredo, P.E.

**G. OTHERS**

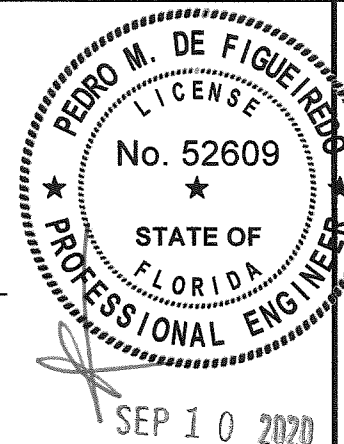
1. This NOA revises NOA #18-0206.05, expiring on 06/07/2023.



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Sifang Zhao, P.E.  
Product Control Examiner  
NOA No. 20-013.13  
Expiration Date: June 07, 2023  
Approval Date: January 07, 2021

ROATAN EURO PROFILE  
CASEMENT WINDOWS



ENGINEERING SERVICES - CA 32459  
9715 W. BROWARD BLVD.  
PLANTATION, FL 33324  
PPMF@AOL.COM  
ENGINEER SEAL  
PEDRO DE FIGUEIREDO  
PE 52609



PRODUCT CATEGORY: WINDOWS - CASEMENT  
PRODUCT MATERIAL: WOOD / GLASS  
IMPACT RATING: LARGE & SMALL MISSILE  
**ROATAN EURO PROFILE**  
CASEMENT WINDOWS

MANUFACTURER:  
**ROATAN**  
MAHOGANY USA INC.  
4004C AURORA STREET  
CORAL GABLES FLORIDA

SCALE:  
NA  
DATE:  
09/10/2020  
DRAWING #  
20-150  
SHEET  
1 OF 9

GENERAL NOTES:  
FLORIDA BUILDING CODE 2020 - 7th EDITION  
HIGH VELOCITY HURRICANE ZONES - HVHZ  
LARGE & SMALL MISSILE IMPACT RATED

- 1- DEFINITION: THIS PRODUCT IS A CASEMENT MAHOGANY WINDOW; 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 2020 FLORIDA BUILDING CODE 7th EDITION, HIGH VELOCITY HURRICANE ZONES (HVHZ).
- 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  
ROATAN EURO PROFILE CASEMENT WINDOW  
MIAMI-DADE COUNTY PRODUCT APPROVED"
- 4- LOADS: DESIGNED LOAD CALCULATED BASED ON THE ASCE 7-16 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 7-16, 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.

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3 OF 9	MODEL B1 & C1 - TYPICAL ELEVATION AND ANCHORAGE
4 OF 9	MODEL D1 - TYPICAL ELEVATION AND ANCHORAGE
5 OF 9	ANCHORAGE DETAILS AND ANCHORS SPECIFICATIONS
6 OF 9	TYPICAL CROSS SECTIONS
7 OF 9	MODEL OPTIONS & ASSEMBLY DETAILS
8 OF 9	BILL OF MATERIALS AND GLAZING OPTIONS
9 OF 9	PRODUCT COMPONENTS

TEST REPORT: 16-6910 GENERAL NOTES: LABORATORY: FENESTRATION TESTING LABORATORY, INC	
SAMPLE A1: 164 3/4" X 98 1/8", CONFIGURATION: O-XX-O 35 3/4" X 96" INACTIVE PANEL 36 1/2" X 96" ACTIVE PANEL ASTM E283, WATER RESITANCE: 10.5 PSF FORCE ENTRY TAS 202 - (+70,-60 PSF) TAS 201 - LMI TAS 203 - (+70,-60 PSF)	SAMPLE C1: 75 7/8" X 98 3/4", CONFIGURATION: XX 37" X 96" INACTIVE PANEL 36" X 96" ACTIVE PANEL ASTM E283, WATER RESITANCE: 10.5 PSF FORCE ENTRY TAS 202 - (+70,-60 PSF) TAS 201 - LMI TAS 203 - (+70,-70 PSF)
SAMPLE B1: 75 5/8" X 97 5/8", CONFIGURATION: XX 37" X 96" INACTIVE PANEL 34 1/4" X 96" ACTIVE PANEL ASTM E283 - FORCE ENTRY TAS 202 - (+75,-70 PSF) TAS 201 - LMI TAS 203 - (+75,-70 PSF)	SAMPLE D1: 134" X 98 1/2", CONFIGURATION: XOX 37" X 96" INACTIVE PANEL 42" X 96" ACTIVE PANEL ASTM E283, WATER RESITANCE: 11.25 PSF FORCE ENTRY TAS 202 - (+75,-75 PSF) TAS 201 - LMI TAS 203 - (+75,-75 PSF)

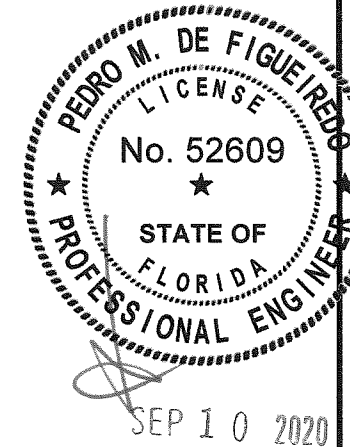
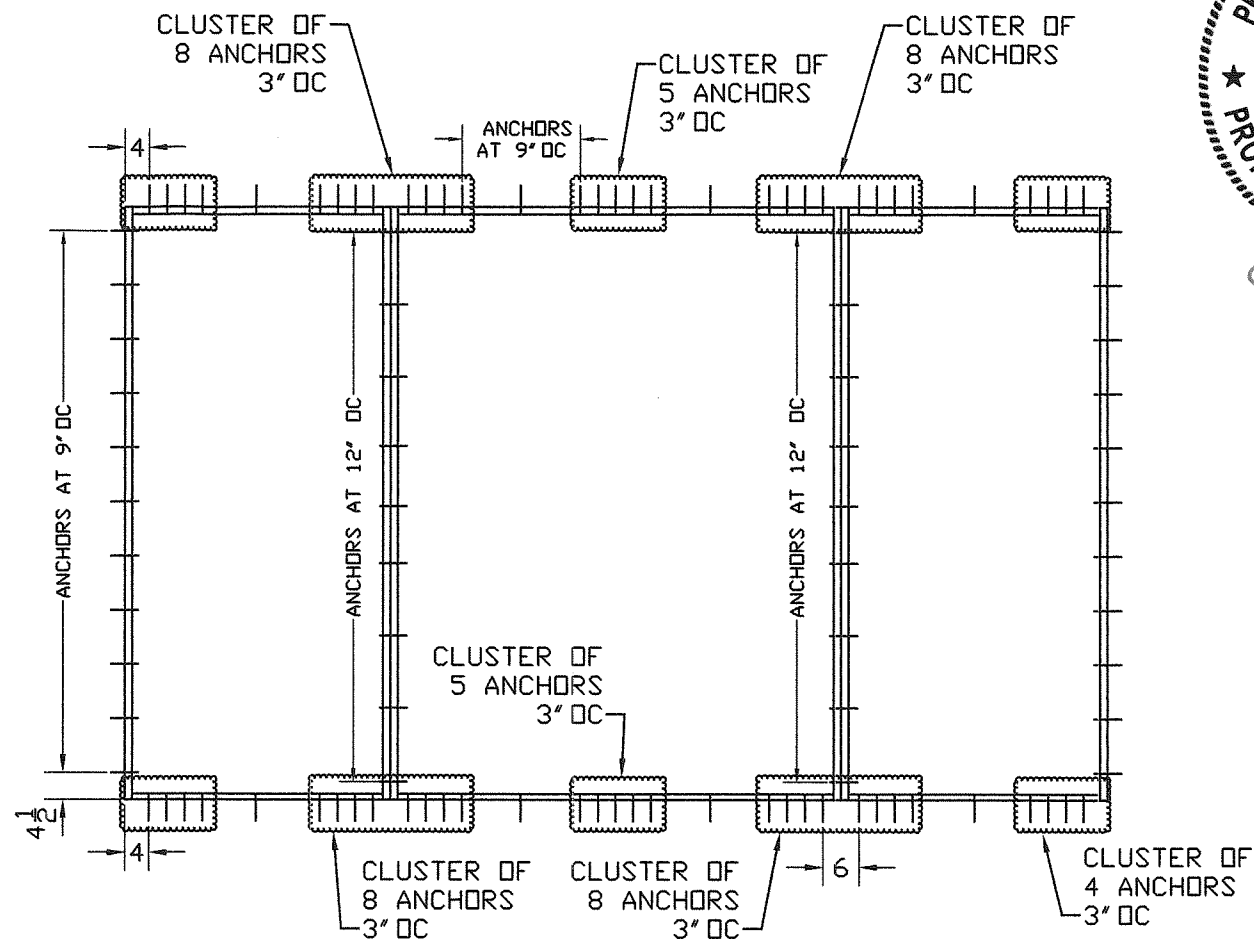
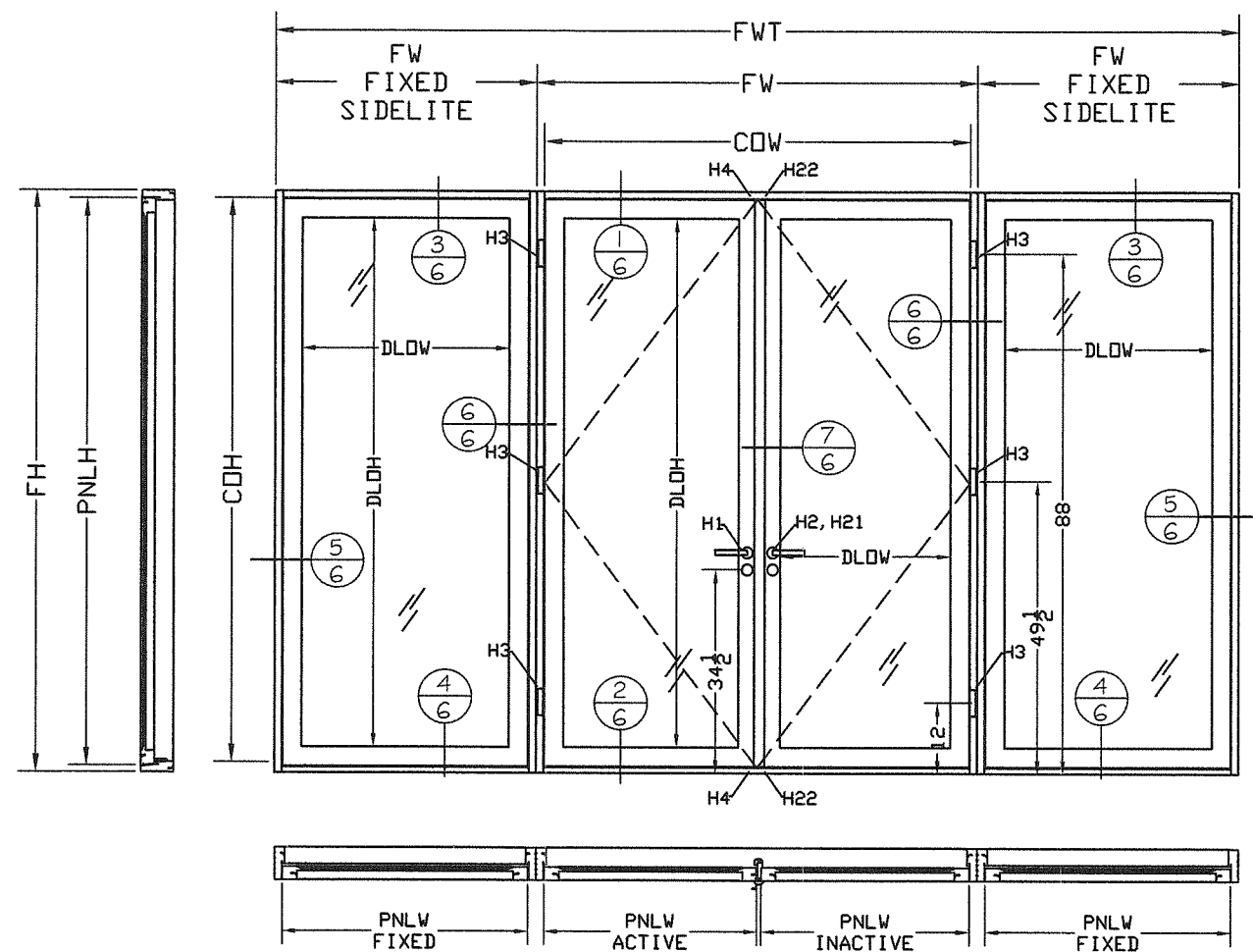
DESIGNED PRESSURE RATING Pd= +70, -60 PSF
MAXIMUM FRAME SIZES: SEE ELEVATIONS ON SHEETS 2, 3 AND 4
MAXIMUM CLADDING SIZES: SEE ELEVATIONS ON SHEETS 2, 3 AND 4
LEGEND FH - FRAME HEIGHT FW - FRAME WIDTH COW - CLEAR OPENING WIDTH COH - CLEAR OPENING HEIGHT DLOW- DAY LIGHT OPENING WIDTH DLOH- DAY LIGHT OPENING HEIGHT PNLH - SLAB PANEL HEIGHT PNLW - SLAB PANEL WIDTH

WOOD TYPE:
VERNACULAR NAME: TRUE MAHOGANY OR SIMILAR SCIENTIFIC NAME: SWIETENIA MACROPHYLLA G. KING FAMILY: MELIACEAE MINIMUM SPECIFIC GRAVITY: SG= 0.45
GLASS TYPE:
9/16" AND 1 1/16" IG LAMINATED IMPACT GLASS SAFETY-PLUS II INTERLAYER AS PER CURRENT NOA SEE SHEET 8 FOR MORE DETAILS

MIAMI-DADE BCCO:

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1013.13  
Expiration Date 06/07/2023  
By   
Miami-Dade Product Control

MODEL A1 - TYPICAL ELEVATIONS AND ANCHORAGE LAY-OUT



PRODUCT CATEGORY: WINDOWS - CASEMENT  
PRODUCT MATERIAL: WOOD / GLASS  
IMPACT RATING: LARGE & SMALL MISSILE  
**ROATAN EURO PROFILE**  
CASEMENT WINDOWS

FRAME & SLAB MAXIMUM SIZES: FWT X FH = 164 3/4" X 98 1/8" FW SIDELITE = 44 5/8" FW OPERABLE = 75 1/2" PNLW X PNLH = 42" X 96" FIXED PNLW X PNLH = 36" X 96" ACTIVE PNLW X PNLH = 36" X 96" INACTIVE  COW X COH = 71 1/2" X 93 7/8"	MAXIMUM GLAZING DLO	
	FIXED PANELS: 1 1/16" IG GLAZING: 35 1/2" X 89 1/2" 9/16" GLAZING 35 1/2" X 89 1/2"	
	OPERABLE PANELS: 1 1/16" IG GLAZING: 29 3/8" X 89 1/2" 9/16" GLAZING 29 3/8" X 89 1/2"	

LEGEND

FWT - FRAME TOTAL WIDTH, FH - FRAME HEIGHT, FW - FRAME WIDTH  
COW - CLEAR OPENING WIDTH, COH - CLEAR OPENING HEIGHT  
DLOW - DAY LIGHT OPENING WIDTH, DLOH - DAY LIGHT OPENING HEIGHT  
PNLH - SLAB PANEL HEIGHT, PNLW - SLAB PANEL WIDTH

MIAMI-DADE BCCO:

**PRODUCT REVISED**  
as complying with the Florida  
Building Code

NOA-No. 20-1013.13

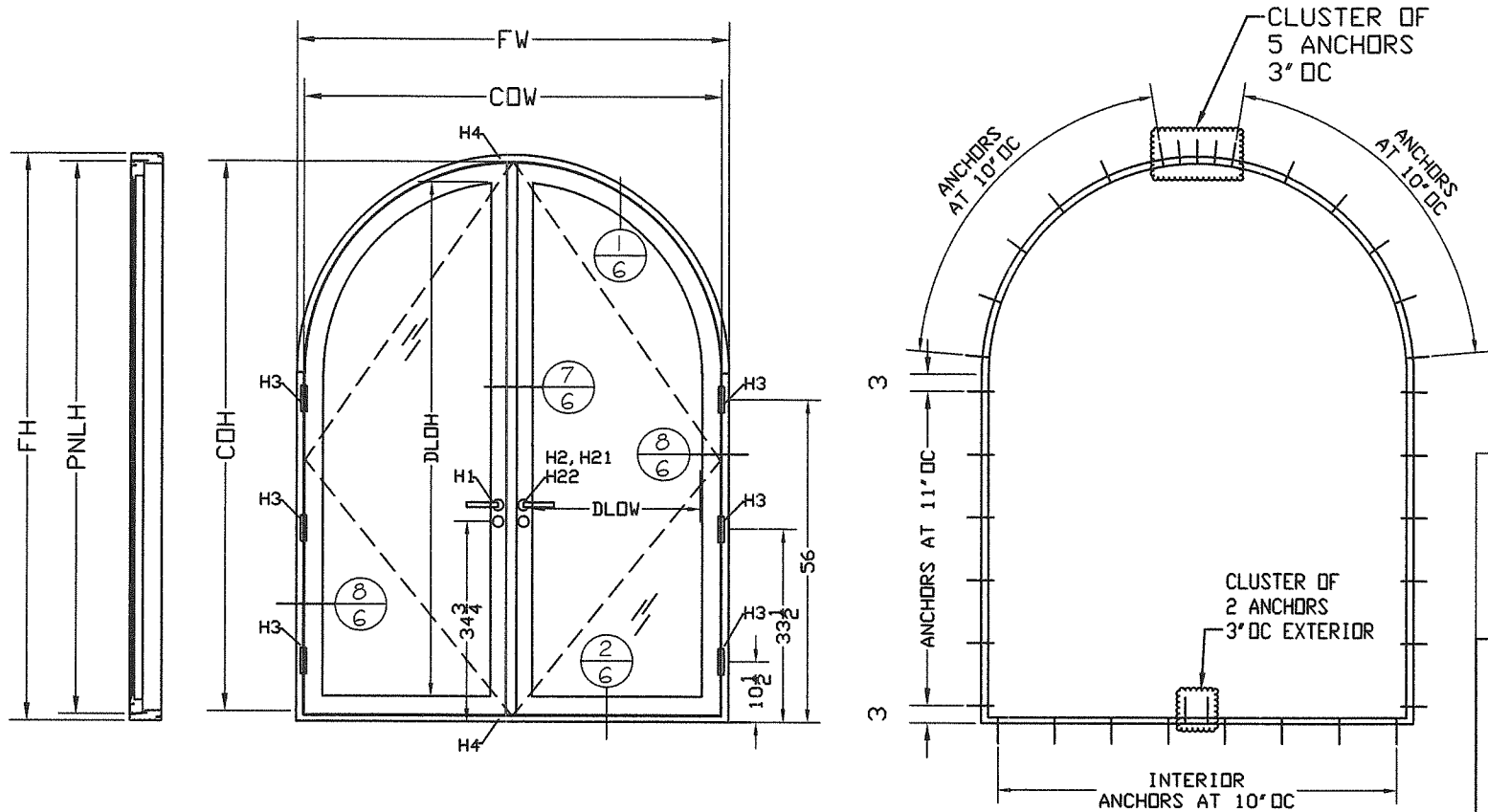
Expiration Date 06/07/2023

By   
Miami-Dade Product Control

MANUFACTURER:  
**ROATAN**  
MAHOGANY USA INC.  
4004C AURORA STREET  
CORAL GABLES FLORIDA

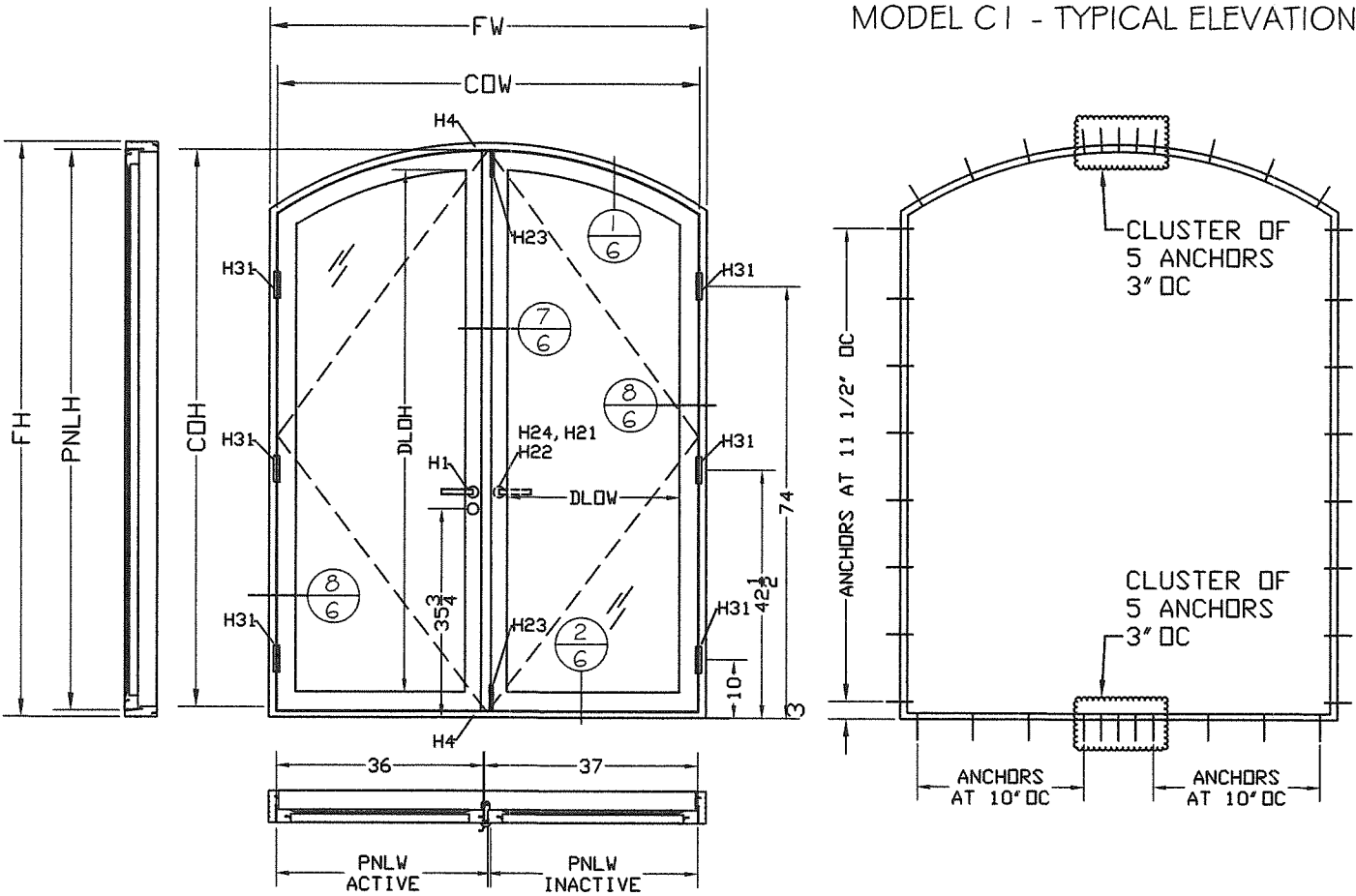
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DATE:  
09/10/2020  
DRAWING #  
20-150  
SHEET  
2 OF 9

MODEL B I - TYPICAL ELEVATIONS AND ANCHORAGE LAY-OUT

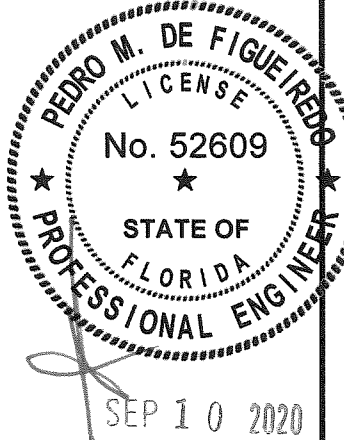


FRAME & SLAB MAXIMUM SIZES: FW X FH = 75 5/8" X 97 5/8" PNLW X PNLH = 36" X 96" ACTIVE PNLW X PNLH = 36 3/8" X 96" INACTIVE  COW X COH = 71 3/8" X 93 3/8"	MAXIMUM GLAZING DLO  OPERABLE PANELS: 1 1/16" IG GLAZING: 29 1/2" X 89 1/4" 9/16" GLAZING: 29 1/2" X 89 1/4"
LEGEND  FH - FRAME HEIGHT, FW - FRAME WIDTH COW - CLEAR OPENING WIDTH, COH - CLEAR OPENING HEIGHT DLOW- DAY LIGHT OPENING WIDTH, DLOH- DAY LIGHT OPENING HEIGHT PNLH - SLAB PANEL HEIGHT, PNLW - SLAB PANEL WIDTH	

MODEL C I - TYPICAL ELEVATIONS AND ANCHORAGE LAY-OUT



FRAME & SLAB MAXIMUM SIZES: FW X FH = 75 5/8" X 98 3/4" PNLW X PNLH = 36" X 96" ACTIVE PNLW X PNLH = 36 3/8" X 96" INACTIVE  COW X COH = 71 3/8" X 94 1/2"	MAXIMUM GLAZING DLO  OPERABLE PANELS: 1 1/16" IG GLAZING: 29 5/8" X 89 3/8" 9/16" GLAZING: 29 5/8" X 89 3/8"
LEGEND  FH - FRAME HEIGHT, FW - FRAME WIDTH COW - CLEAR OPENING WIDTH, COH - CLEAR OPENING HEIGHT DLOW- DAY LIGHT OPENING WIDTH, DLOH- DAY LIGHT OPENING HEIGHT PNLH - SLAB PANEL HEIGHT, PNLW - SLAB PANEL WIDTH	



PRODUCT CATEGORY: WINDOWS - CASEMENT  
PRODUCT MATERIAL: WOOD / GLASS  
IMPACT RATING: LARGE & SMALL MISSILE  
**ROATAN EURO PROFILE**  
CASEMENT WINDOWS

MANUFACTURER:  
**ROATAN**  
MAHOGANY USA INC.  
4004C AURORA STREET  
CORAL GABLES FLORIDA

MIAMI-DADE BCCO:

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1013.13

Expiration Date 06/07/2023

By   
Miami-Dade Product Control

SCALE:  
NA  
DATE:  
09/10/2020  
DRAWING #  
20-150  
SHEET  
3 OF 9

## A circular professional engineer seal for Pedro M. de Figueiredo. The outer ring contains the text "PEDRO M. DE FIGUEIREDO" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside this ring, the word "LICENSE" is at the top, "No. 52609" is in the center, and "STATE OF FLORIDA" is at the bottom, also separated by two stars. The seal has a dotted border.

ENGINEERING SERVICES - CA 32459  
9715 W. BROWARD BLVD.  
PLANTATION, FL 33324  
PPMF@AOL.COM  
ENGINEER SEAL  
PEDRO DE FIGUEIREDO  
PE 52609



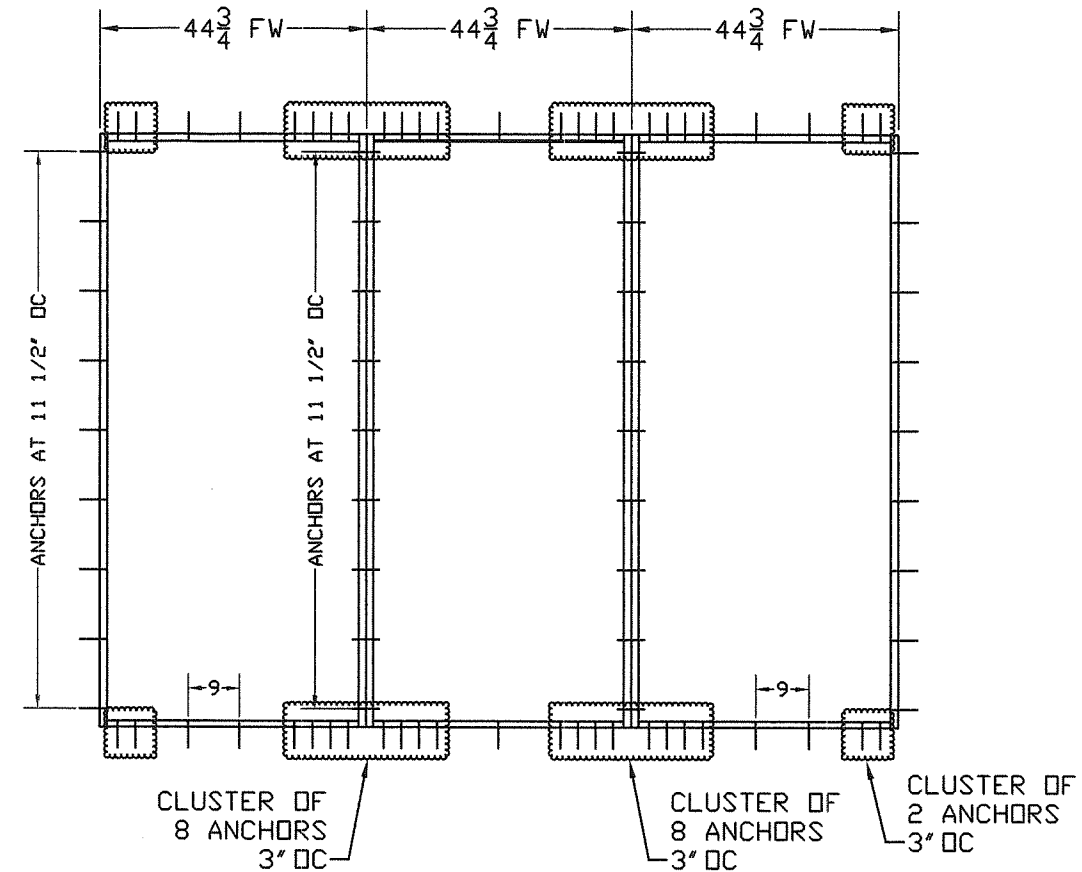
PRODUCT CATEGORY: WINDOWS - CASEMENT  
PRODUCT MATERIAL: WOOD / GLASS  
IMPACT RATING: LARGE & SMALL MISSILE  
**ROATAN EURO PROFILE**  
CASEMENT WINDOWS

MANUFACTURER:  
**ROATAN**  
MAHOGAN Y USA INC.  
4004C AURORA STREET  
CORAL GABLES FLORIDA

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
**NOA-No.** 20-1013.13

By LS  
Miami-Dade Product Control

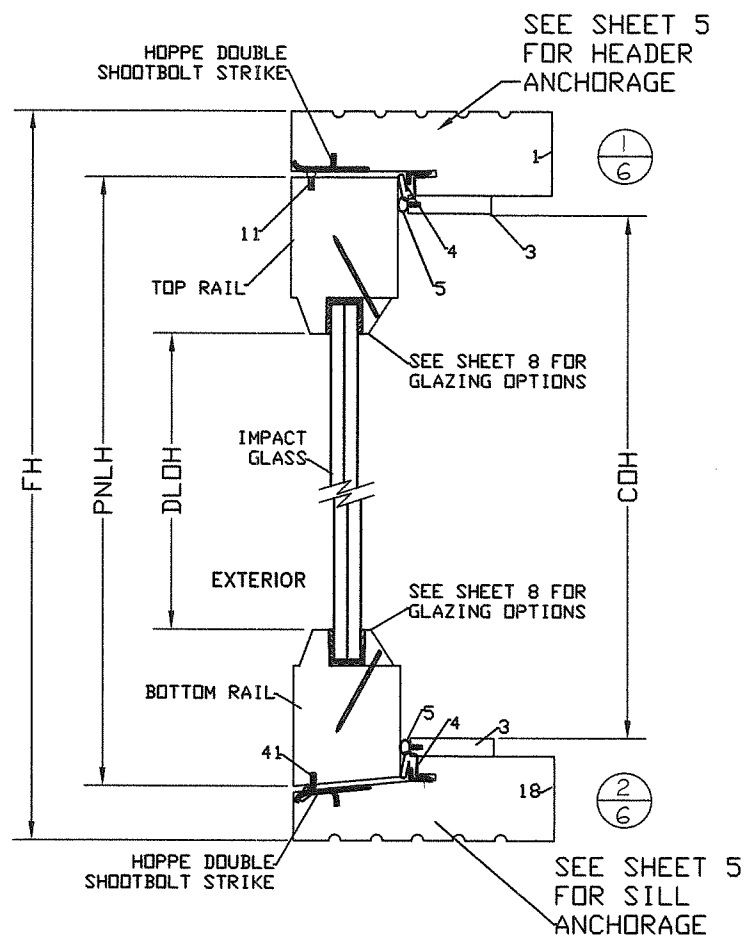
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DRAWING # 20-150
SHEET 4 OF 9



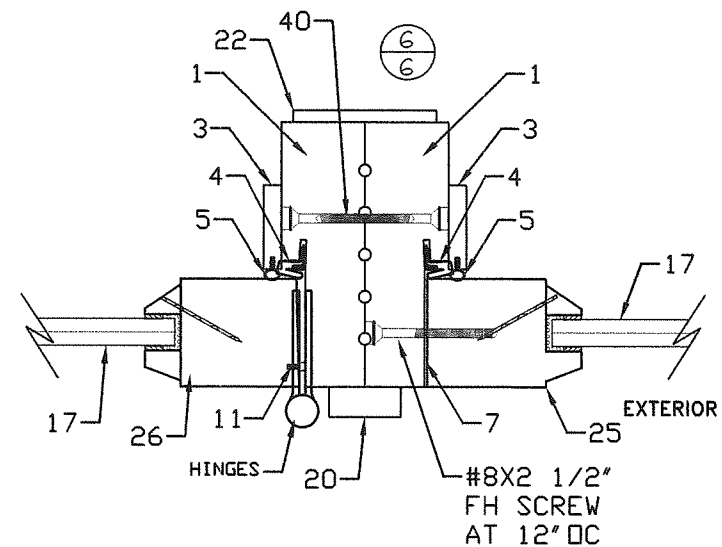
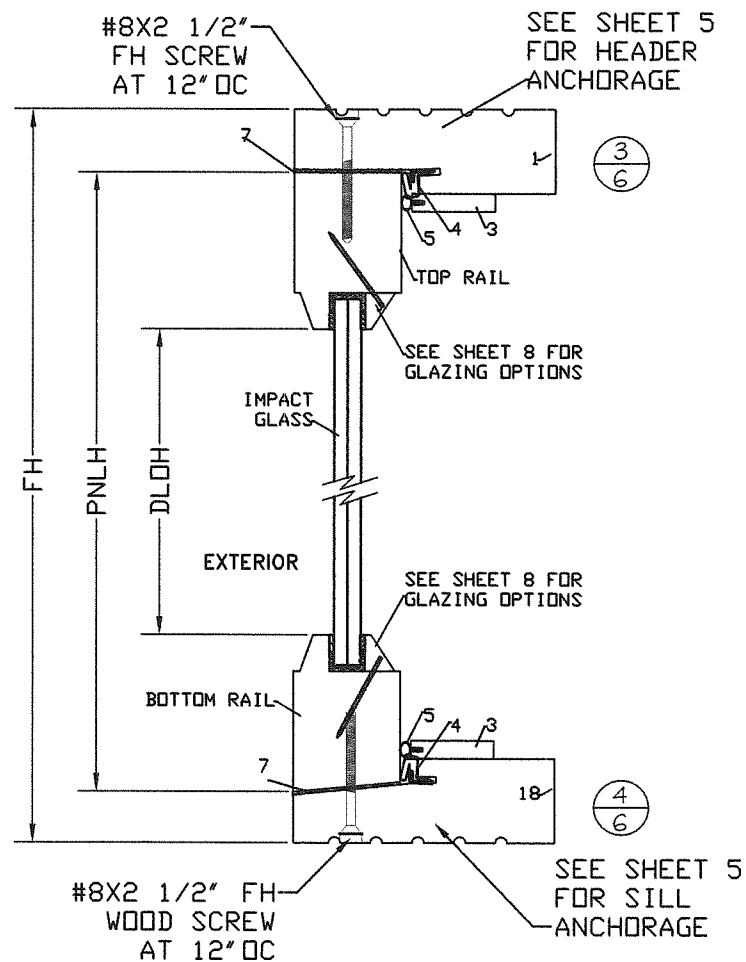
FWT - FRAME TOTAL WIDTH, FH - FRAME HEIGHT, FW - FRAME WIDTH  
COW - CLEAR OPENING WIDTH, COH - CLEAR OPENING HEIGHT  
DLOW- DAY LIGHT OPENING WIDTH, DLOH- DAY LIGHT OPENING HEIGHT  
PNLH - SLAB PANEL HEIGHT, PNLW - SLAB PANEL WIDTH

MANUFACTURER:

TYPICAL VERTICAL SECTION  
OPERABLE CASEMENT WINDOW

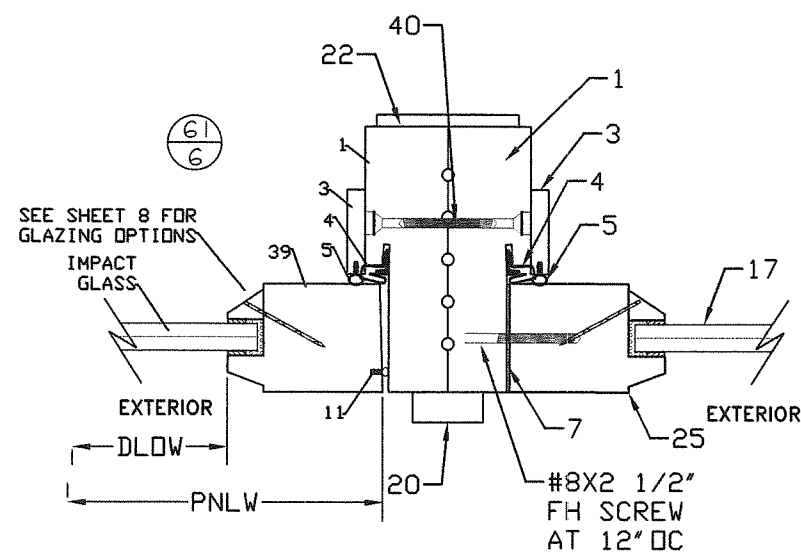
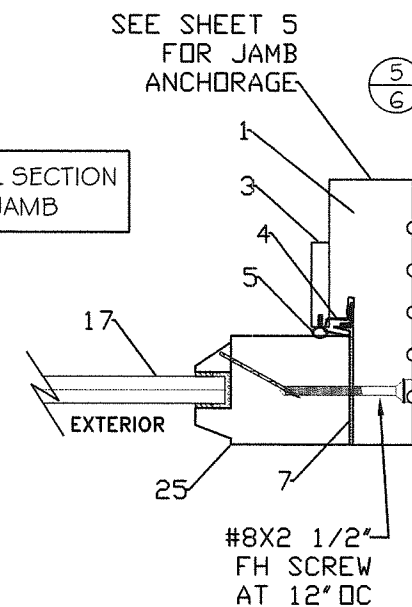


TYPICAL VERTICAL SECTION  
FIXED WINDOW

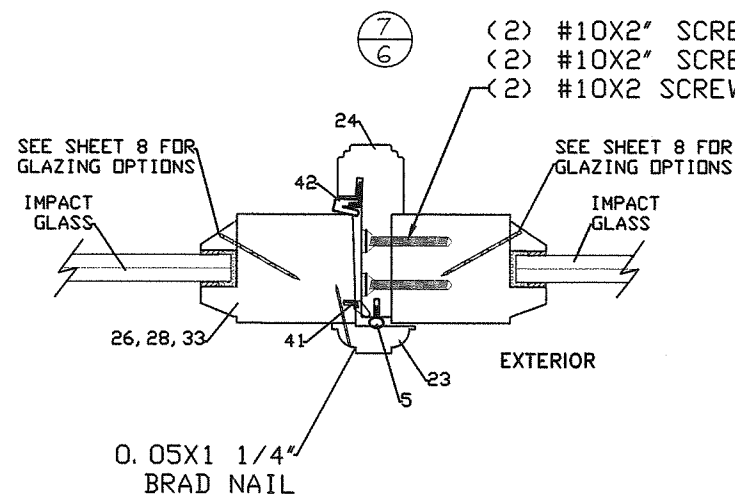


TYPICAL HORIZONTAL SECTION  
OPERABLE / FIXED MULLION

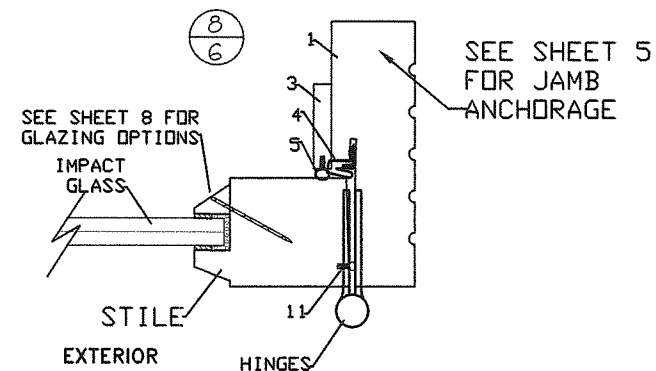
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FIXED WINDOW JAMB



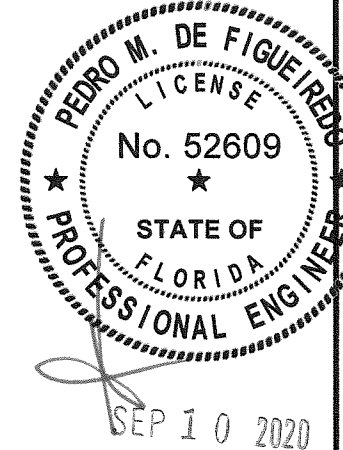
TYPICAL HORIZONTAL SECTION  
CASEMENT WINDOW JAMB - LOCK



TYPICAL HORIZONTAL SECTION  
CASEMENT MEETING STILES



TYPICAL HORIZONTAL SECTION  
CASEMENT WINDOW JAMB - HINGE



PRODUCT CATEGORY: WINDOWS - CASEMENT  
PRODUCT MATERIAL: WOOD / GLASS  
IMPACT RATING: LARGE & SMALL MISSILE  
**ROATAN EURO PROFILE**  
CASEMENT WINDOWS

MANUFACTURER:  
**ROATAN**  
MAHOGANY USA INC.  
4004C AURORA STREET  
CORAL GABLES FLORIDA

MIAMI-DADE BCCO:

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1013.13

Expiration Date 06/07/2023

By *Di*  
Miami-Dade Product Control

SCALE:  
NA

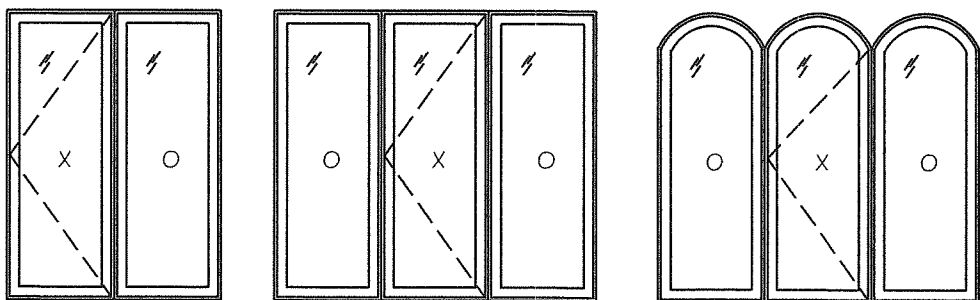
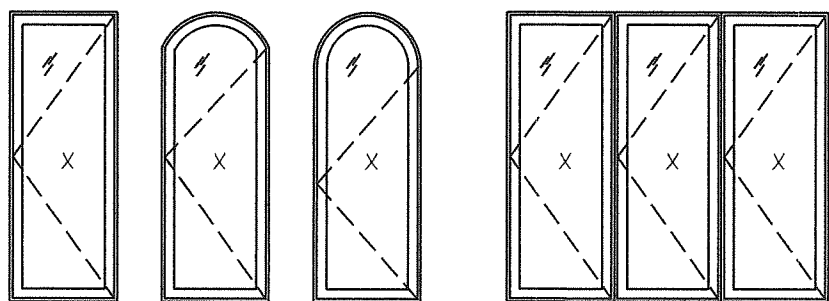
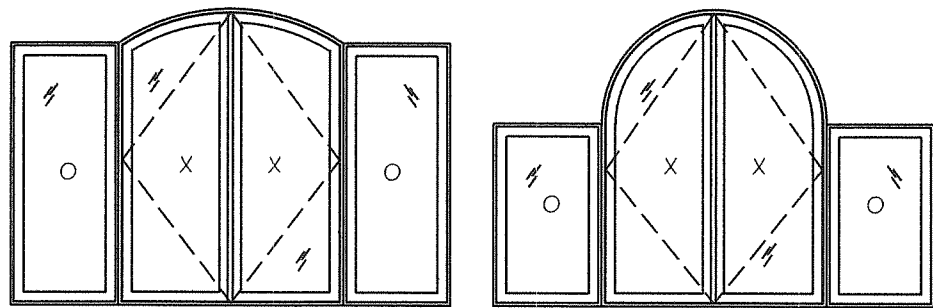
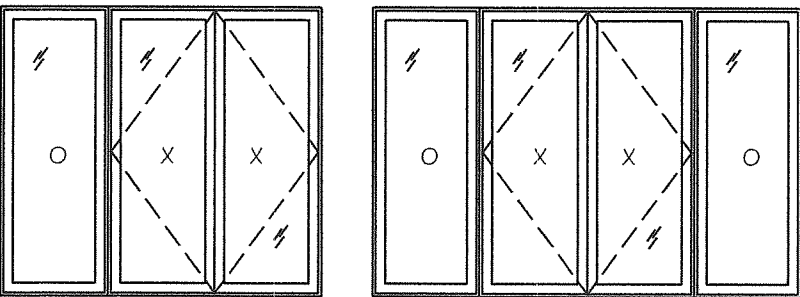
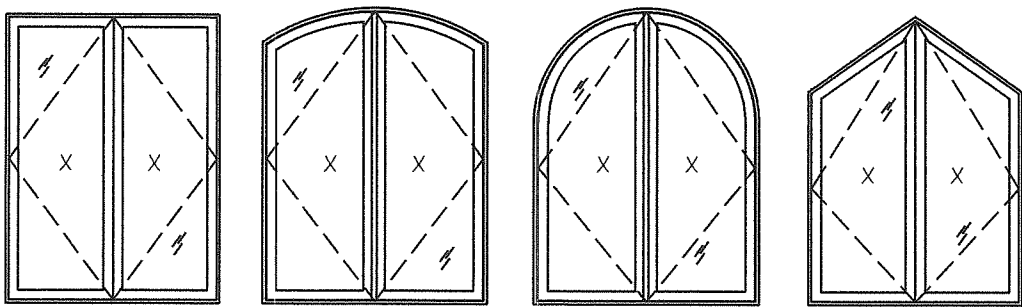
DATE:  
09/10/2020

DRAWING #  
20-150

SHEET  
6 OF 9

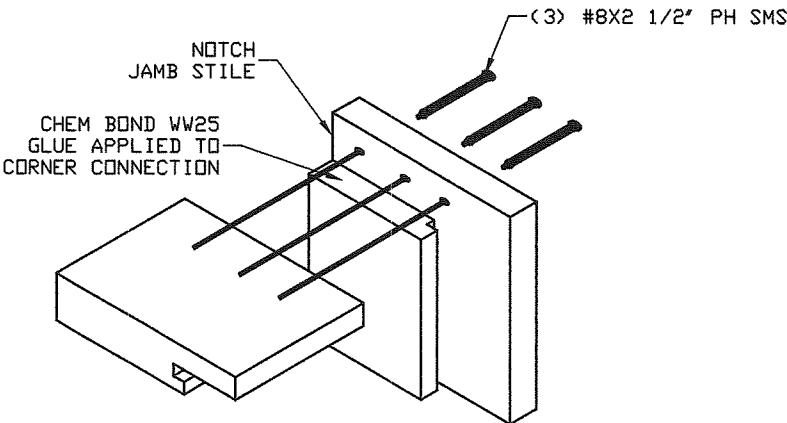


MODELS EXAMPLES QUALIFICATIONS



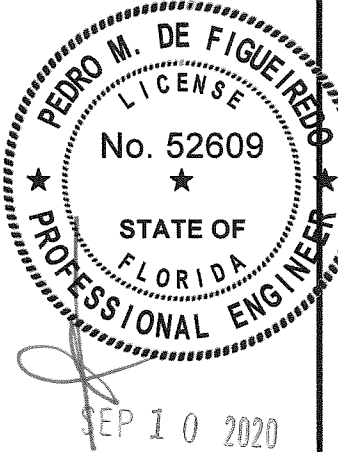
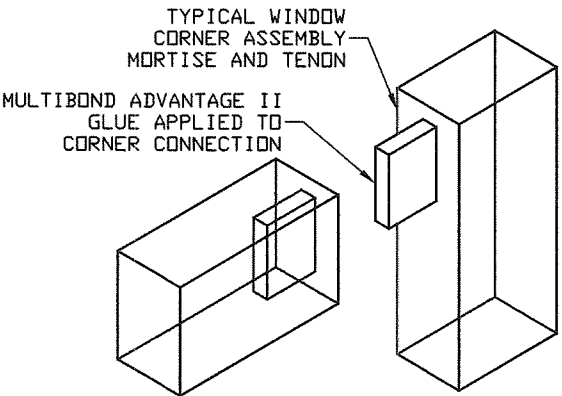
FRAME AND WINDOW ASSEMBLY

TYPICAL CORNER FRAMING CONSTRUCTION



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

TYPICAL WINDOW CORNER CONSTRUCTION



PRODUCT CATEGORY: WINDOWS - CASEMENT  
PRODUCT MATERIAL: WOOD / GLASS  
IMPACT RATING: LARGE & SMALL MISSILE  
**ROATAN EURO PROFILE**  
CASEMENT WINDOWS

MANUFACTURER:  
**ROATAN**  
MAHOGANY USA INC.  
4004C AURORA STREET  
CORAL GABLES FLORIDA

MIAMI-DADE BCCO:

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1013.13

Expiration Date 06/07/2023

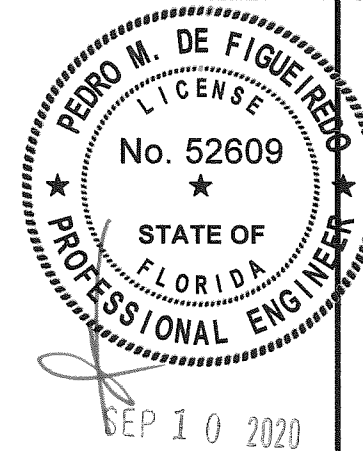
By   
Miami-Dade Product Control

SCALE:  
NA  
DATE:  
09/10/2020  
DRAWING #  
20-150  
SHEET  
7 OF 9

## PARTS REFERENCE LIST

ITEM	DESCRIPTION	LOCATION	MATERIAL/ MANUFACTURER/ NOTES	TESTED MODELS			
				A1	B1	C1	D1
1	SIDE/ HEADER/ JAMB	FRAMING	MAHOGANY/ ROATAN	X	X	X	
2							
3	WEATHERSTOP	FRAMING	MAHOGANY/ ROATAN	X	X	X	X
4	COMPRESSURE SEALER QE2D 650 BRONZE	WEATHER GASKETS, SEALER ETC	SCHLEGEL	X	X	X	X
5	COMPRESSURE SEALER AP412 BLACK	WEATHER GASKETS, SEALER ETC	SCHLEGEL	X	X	X	X
6	IG FIXED STILE	SLAB	MAHOGANY/ ROATAN	X			X
7	995 SILICONE	WEATHER GASKETS, SEALER ETC	DOW CORNING	X	X	X	X
8	1 1/16" IG INSULATED GLAZING - LMI	SLAB	GLASS/ ROATAN	X	X	X	X
9	18GA X 2" NAIL SPACED AT 3' OC	SLAB	GALV. STEEL/ ROATAN	X	X	X	X
10	IG GLASS STOP	SLAB	MAHOGANY/ ROATAN	X	X	X	X
11	COMPRESSURE SEALER AP425 BLACK	WEATHER GASKETS, SEALER ETC	SCHLEGEL	X	X	X	X
12	1/8 X 3/8" GLAZING TAPE	WEATHER GASKETS, SEALER ETC	ROATAN	X	X	X	X
13	9/16" BOTTOM RAIL	SLAB	MAHOGANY/ ROATAN	X	X	X	
14	9/16" GLASS STOP	SLAB	MAHOGANY/ ROATAN	X	X	X	X
15	9/16" TOP RAIL	SLAB	MAHOGANY/ ROATAN			X	
16	6" FLUSH BOLT	HARDWARE	ROATAN			X	
17	9/16" LAMINATED GLAZING - LMI	SLAB	GLASS/ ROATAN	X	X	X	X
18	THRESHOLD	FRAMING	MAHOGANY/ ROATAN	X	X	X	X
19	9/16" FIXED BOTTOM RAIL	SLAB	MAHOGANY/ ROATAN				X
20	EXTERIOR MULL COVERS	FRAMING	MAHOGANY/ ROATAN	X			X
21	5X5 HINGES	HARDWARE	SS/ EMTEK	X			
22	INTERIOR MULL COVERS	FRAMING	MAHOGANY/ ROATAN	X			X
23	ASTRAGAL CAP	SLAB	MAHOGANY/ ROATAN	X	X	X	
24	"T" ASTRAGAL	SLAB	MAHOGANY/ ROATAN	X	X	X	
25	9/16" FIXED SIDE/ TOP RAIL	SLAB	MAHOGANY/ ROATAN	X	X	X	X
26	9/16" ACTIVE STILE RAIL	SLAB	MAHOGANY/ ROATAN	X	X		
27	5X5 HINGES	HARDWARE	DELTA		X		
28	9/16" ACTIVE STILE	SLAB	MAHOGANY/ ROATAN	X		X	
29	1 1/16" IG FIXED BOTTOM RAIL	SLAB	MAHOGANY/ ROATAN	X			X
30	9/16" ACTIVE BOTTOM RAIL	SLAB	MAHOGANY/ ROATAN	X			
31	4X4 HINGES	HARDWARE	SS/ HAGER	X		X	
32	9/16" FIXED BOTTOM RAIL	SLAB	MAHOGANY/ ROATAN	X			
33	1 1/16" ACTIVE STILE RAIL	SLAB	MAHOGANY/ ROATAN		X	X	X
34							
35	9/16" ACTIVE TOP/BOTTOM RAIL	SLAB	MAHOGANY/ ROATAN	X			
36	1 1/16" ACTIVE STILE RAIL	SLAB	MAHOGANY/ ROATAN		X	X	
37	1 1/16" ACTIVE STILE RAIL	SLAB	MAHOGANY/ ROATAN		X	X	
38	CONCEALED HINGES	HARDWARE	SDSS				X
39	1 1/16" ACTIVE STILE	SLAB	MAHOGANY/ ROATAN				X
40	9/16" ACTIVE STILE	SLAB	MAHOGANY/ ROATAN				
41	COMPRESSURE SEALER QE2D 320 BRONZE	WEATHER GASKETS, SEALER ETC	SCHLEGEL	X		X	
42	COMPRESSURE SEALER QE2D 730 BRONZE	WEATHER GASKETS, SEALER ETC	SCHLEGEL	X		X	

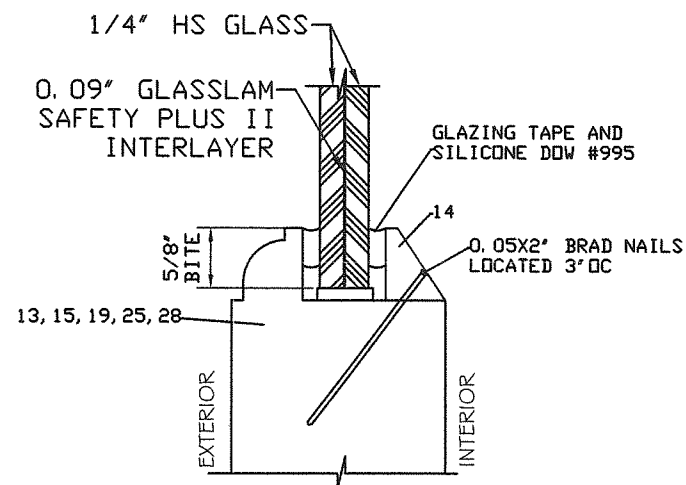
ALL PARTS LISTED HERE IN CAN  
BE INSTALLED INTERCHANGABLE IN  
ANY MODEL.



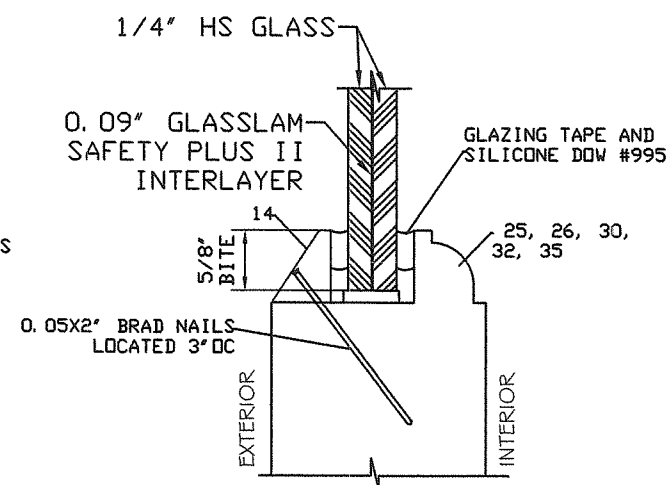
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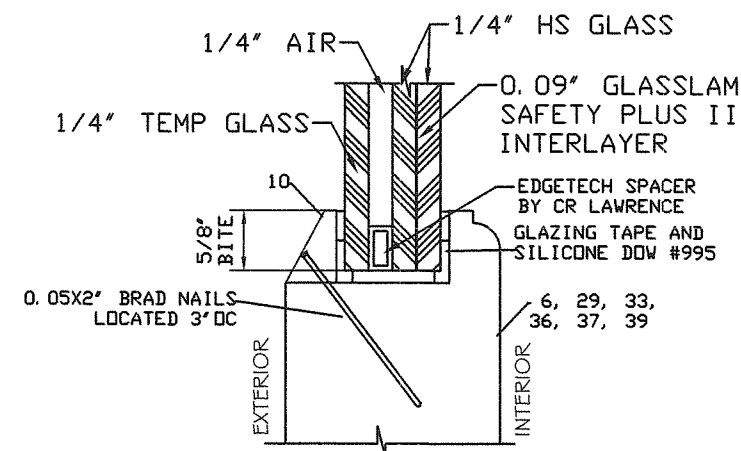
## TYPICAL GLAZING OPTIONS



A- 9/16" HS LAMINATED  
LARGE MISSILE IMPACT GLASS  
INTERIOR GLAZED



A1- 9/16" HS LAMINATED  
LARGE MISSILE IMPACT GLASS  
EXTERIOR GLAZED

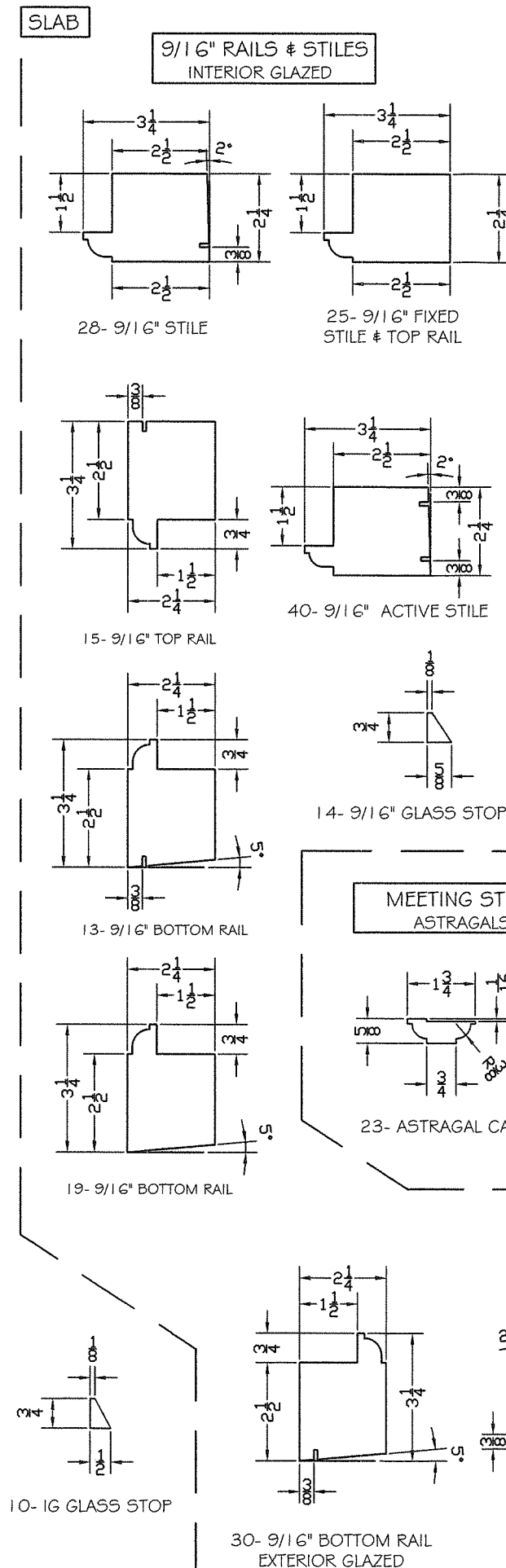
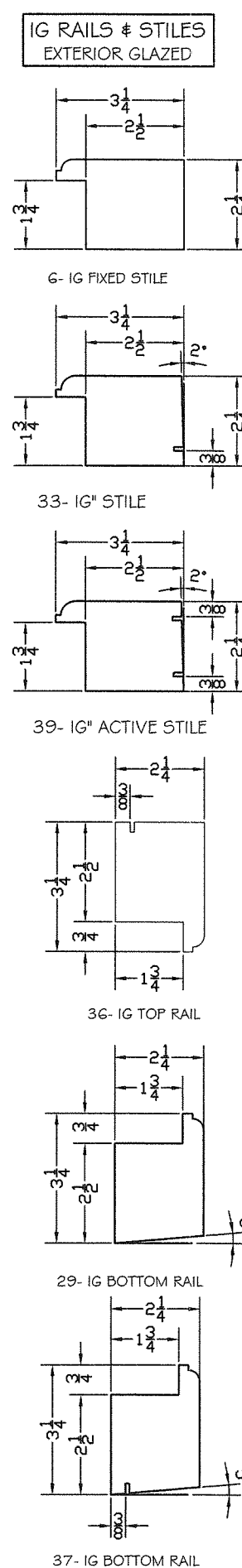
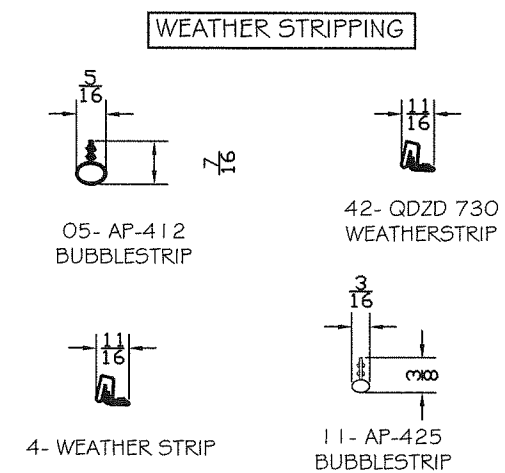
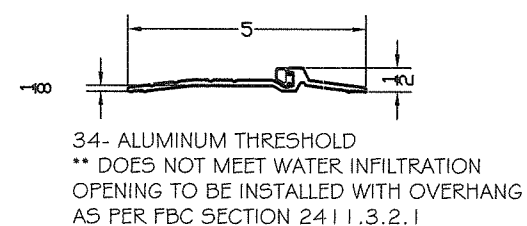
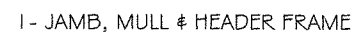


B- 1 1/16" HS IG LAMINATED  
LARGE MISSILE IMPACT GLASS  
EXTERIOR GLAZED

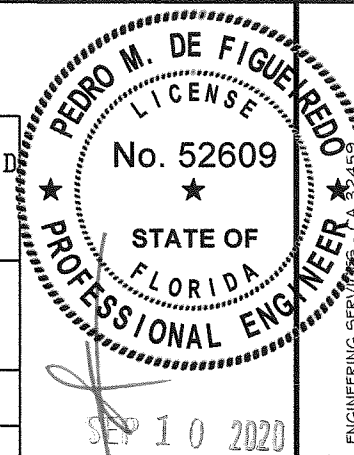
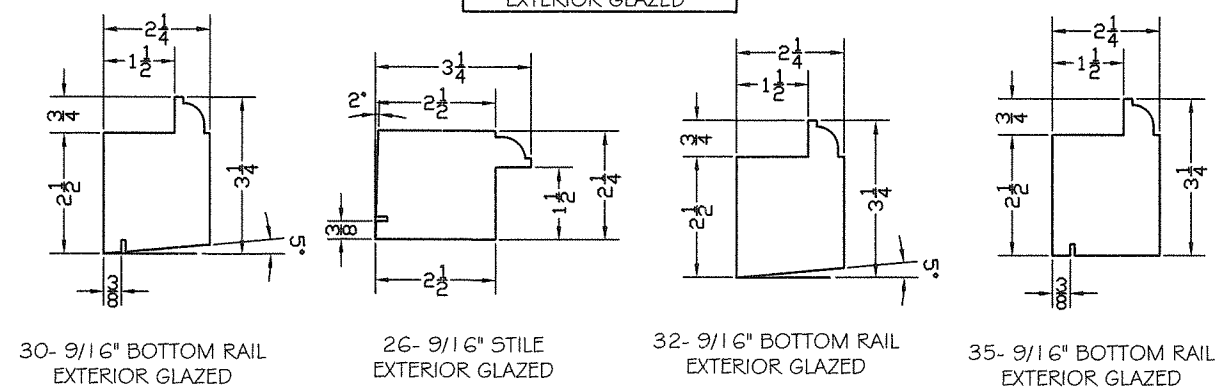
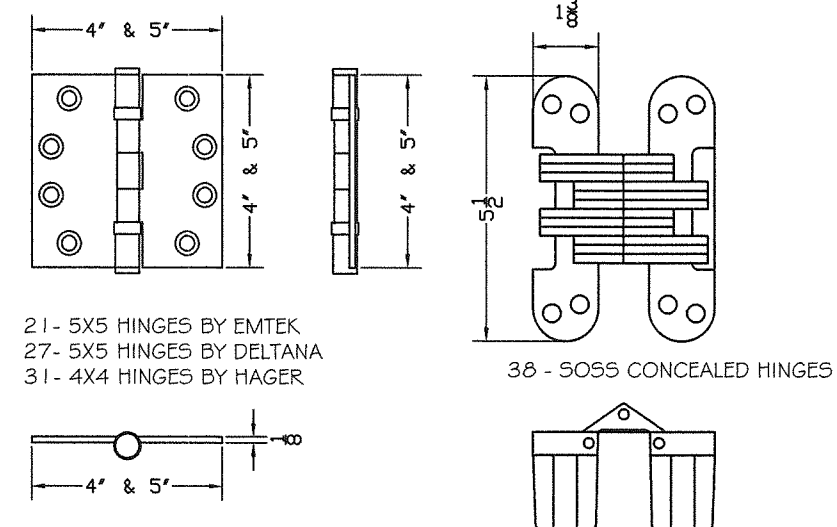
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HARDWARE:	
H1	ONE SURFACE MOUNT HOPPE METALLIC 5 POINT LOCK SYSTEM WITH ACTIVATING LEVER TYPE HANDLE ON THE INTERIOR AND EXTERIOR WITH KEY OPERATOR ON THE EXTERIOR AND THUMB TURN ON THE INTERIOR WITH CONCEALED RODS. LOCATED 34 1/2" FROM BOTTOM ACTIVE PANEL
H2	ONE SURFACE MOUNT METALLIC 2 POINT LOCK SYSTEM WITH LEVER TYPE HANDLE ON THE INTERIOR AND EXTERIOR WITH THUMB TURN ON THE INTERIOR AND CONCEALED RODS. LOCATED 35" FROM BOTTOM OF THE INACTIVE PANEL
H21	ONE SURFACE MOUNT METALLIC STRIKE PLATE LOCATED 35 1/2" FROM BOTTOM OF THE INACTIVE PANEL
H22	TWO SURFACE MOUNT METALLIC STRIKE KEEPERS LOCATED 11 3/4" AND 77 1/4" FROM BOTTOM OF THE INACTIVE PANEL
H23	FLUSH MOUNT METALLIC CONCEALED MANUALLY OPERATED FLUSH BOLTS AT EACH END OF THE INACTIVE PANEL SECURED WITH (2) #10X2" PH SMS
H24	ONE SURFACE MOUNT METALLIC LEVER TYPE HANDLE ON THE INTERIOR OF THE INACTIVE PANEL
H3	4 3/4" FLUSH MOUNT METALLIC BUTT HINGES SECURED TO FRAME AND PANELS WITH (4) #12X1 FH WOOD SCREWS
H31	4" FLUSH MOUNT METALLIC BUTT HINGES SECURED TO FRAME AND PANELS WITH (4) #12X1 1/4" FH WOOD SCREWS
H32	INVISIBLE METALLIC SDOSS HINGE SECURED TO JAMBS AND PANELS WITH (8) #12X1 1/2" FH WOOD SCREWS
H4	SURFACE MOUNT METALLIC KEEPERS MOUNTED TO FRAME HEADER AND/OR THRESHOLD WITH (2) #10 X 1 1/2" DH SMS



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CORAL GABLES, FLORIDA

## CASEMENT WINDOWS

4004C AURORA STREET  
CORAL GABLES FLORIDA

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PEDRO DE FIGUEIREDO

PPMF@AOL.COM



WZL  
Inc.

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SW

CASEMENT WINDOW

STREET  
FLORIDA

4004C AURORA  
CORAL GABLES FL

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