



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908
www.miamidade.gov/buildingcode**

NOTICE OF ACCEPTANCE (NOA)

**Marvin Windows and Doors
P.O. Box 100
Warroad, MN 56763**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 "Stromplus IZ4" Alum Clad Outswing French Wood Doors-LMI

APPROVAL DOCUMENT: Drawing No. 1397, "Clad 2 1/4 "Outswing French Door Storm plus IZ4", sheets 1 through 8 of 8, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 09/28/05 and last revised on Dec. 16, 2008, signed and sealed by Warren W. Schaefer, 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 Division.

MISSILE IMPACT RATING: Large Missile Impact Resistant

Limitations: 1. Only single fixed panel door is permitted with adhesive PL-400 (OSI) sealant w/o anchors.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 # **05-1012.02** 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.**



11-27-09

**NOA No 08-0917.10
Expiration Date: January 05, 2011
Approval Date: February 18, 2009
Page 1**

Marvin Windows and Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. 1397, "Clad 2 ¼ "Outswing French Door Storm plus IZ4", sheets 1 thru 8 of 8, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 09/28/05 & last revised on Dec. 16, 2008. Signed & sealed by Warren W. Schaefer, 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 and TAS 202-94

Along with the manufacturer's parts drawings, installation diagram and marked-up drawings of outswing wood doors, prepared by Stork Twin City Testing Corp., Test Report No **113-96398.1**, dated 07/18/08, signed and sealed by Thomas Kolden, P.E.

(Note: This test report has been revised by an addendum letter issued by the test lab, dated Dec. 18, 2008, signed and sealed by Thomas Kolden, P.E.)

2. Additional test reports per TAS 201, 202 and 203-94 for alum Clad double, single and shaped doors per test report # 58623.01-210-18 dated 09/06/05, issued by Architectural Testing, signed and sealed by Joseph A. Reed, P.E. (transferred from file # **05-1012.02**)

C. CALCULATIONS (transferred from file # 05-1012.02)

1. Anchor verification calculations, complying with FBC-2004, dated 09/21/05, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
2. Glazing complies with ASTM E1300-02/-04

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **07-1116.04** issued to E.I. DuPont DeNemours for "SentryGlas Plus", expiring on 01/14/2012.

F. STATEMENTS

1. Statement letter of compliance to FBC 2007, dated 04-15-2008, signed and sealed by Warren Schaefer, P. E.
2. Statement letter of conformance and no financial interest, dated 09/30/05, signed and sealed by Warren Schaefer, P.E.(transferred from file # **05-1012.02**)
3. Statement letters of compliance, part of the above test reports.

G. OTHER

1. This NOA revises NOA # **05-1012.02**, eexpiring January 05, 2011
2. Test proposal dated 03/07/08 approved by BCCO.
3. Test proposal **04-0436**, approved by BCCO.

Ishaq I. Chanda

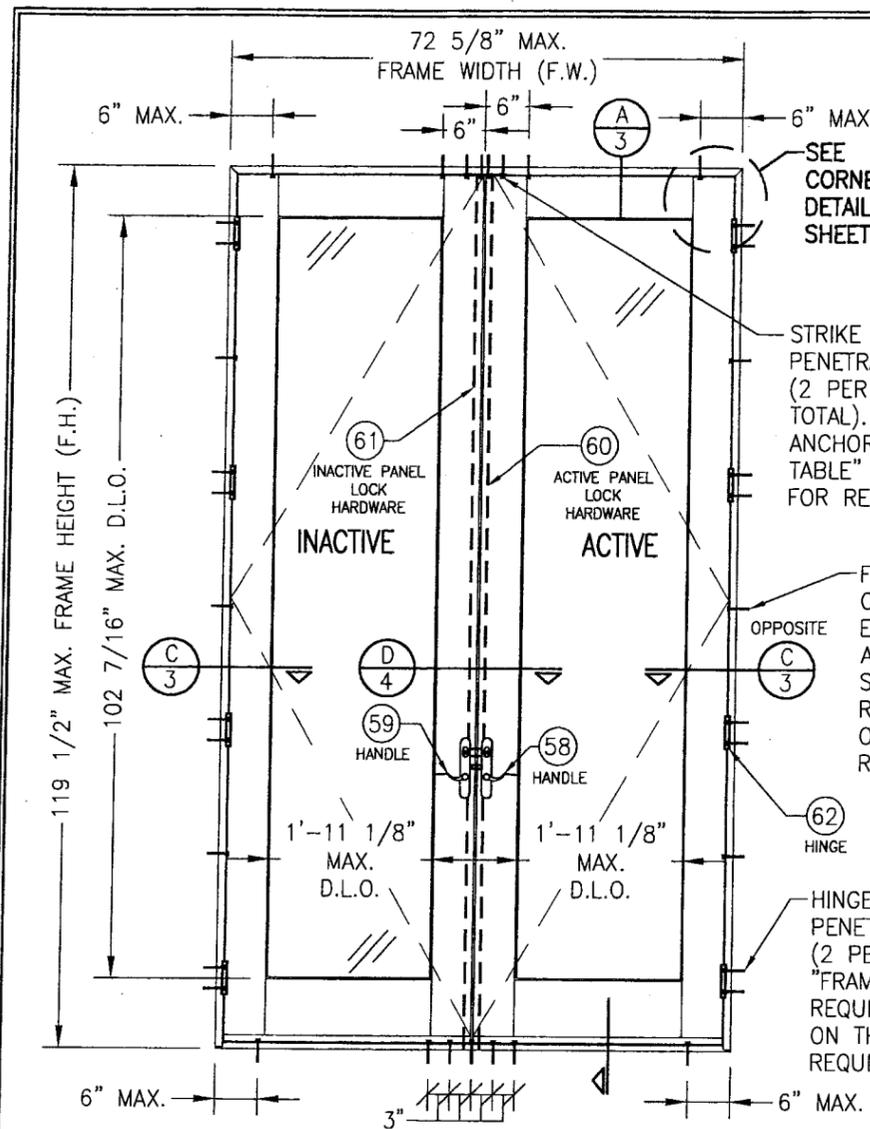
Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 08-0917.01

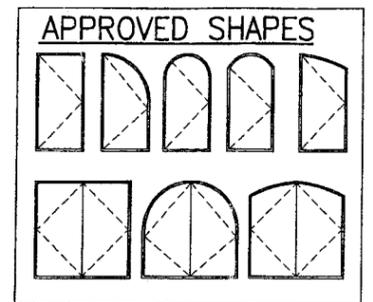
Expiration Date: January 05, 2011

Approval Date: February 18, 2009



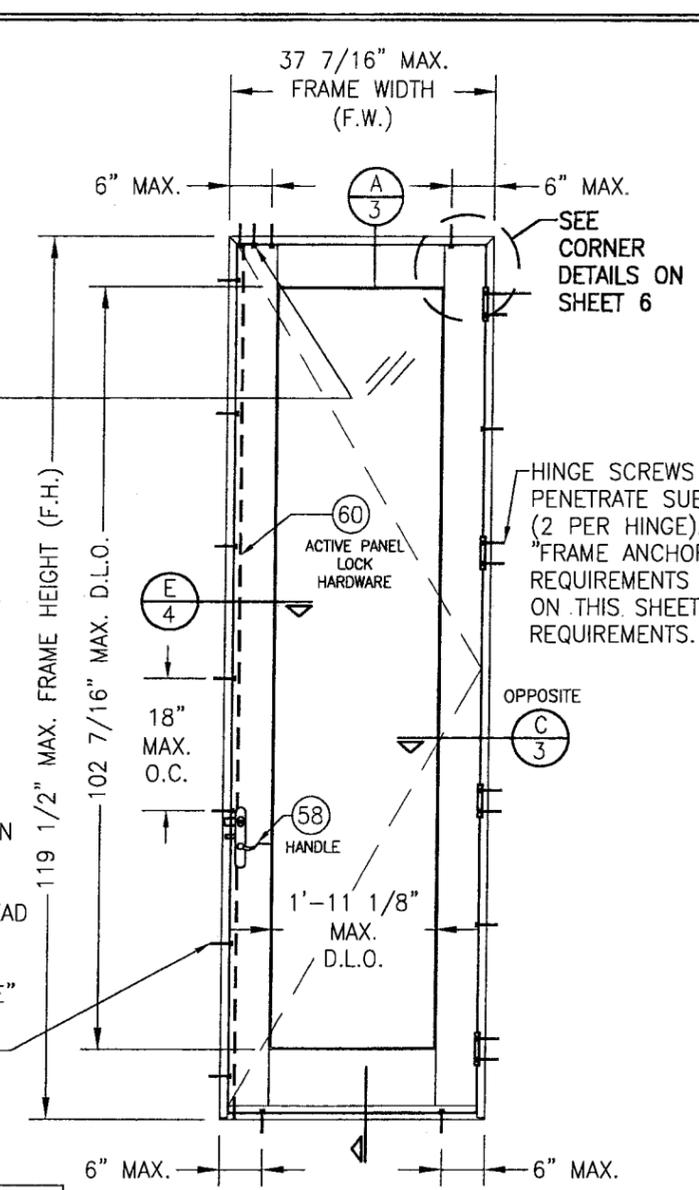
**EXTERIOR ELEVATION
DOUBLE RECTANGULAR OUTSWING DOOR**
SCALE: 1/2" = 1'-0"

ALLOWABLE DESIGN PRESSURE (ALL DOORS)	
FRAME HEIGHT GREATER THAN 95.5"	+62/-68 PSF
FRAME HEIGHT 95.5" & LESS	+65/-80 PSF



NOTES:
1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED ON THIS SHEET.
2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.

HINGE QUANTITY TABLE	
DOOR HEIGHT	QTY REQUIRED
LESS THAN 86"	3
86" & GREATER	4



**EXTERIOR ELEVATION
SINGLE RECTANGULAR OUTSWING DOOR**
SCALE: 1/2" = 1'-0"

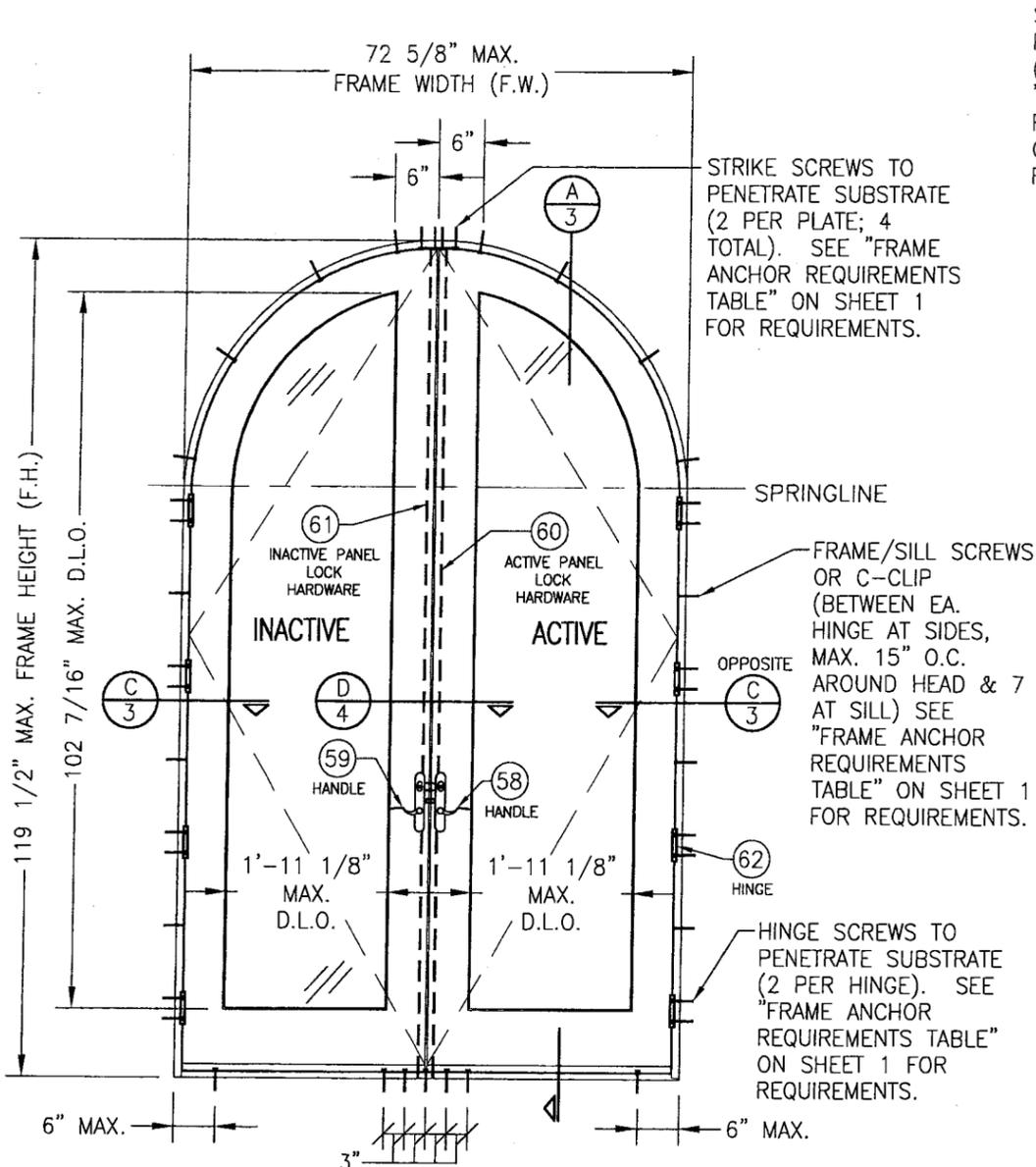
FRAME ANCHOR REQUIREMENTS TABLE			
FRAME SHEAR SCREWS AT HEAD, SIDES & SILL			
OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
2X_ WOOD FRAME OR BUCK	NO. 10 SMS SCREW	1 1/4"	3/4"
CMU/CONCRETE	(1) 3/16" CONCRETE SCREW	1 1/4"	2"
MIN. 18 GA. (0.043" THK) 33 KSI STEEL OR 1/8" THK. 6063-T5 ALUMINUM	NO. 10 SELF TAPPING OR OR PREDRILLED SMS SCREW	FULL	1/2"
STRIKE SCREWS AT HEAD			
2X_ WOOD FRAME OR BUCK	NO. 10 SMS SCREW	1 1/4"	3/4"
CMU/CONCRETE	(1) 3/16" CONCRETE SCREW	1 1/4"	2"
MIN. 18 GA. (0.043" THK) 33 KSI STEEL OR 1/8" THK. 6063-T5 ALUMINUM	NO. 10 SELF TAPPING OR OR PREDRILLED SMS SCREW	FULL	1/2"
HINGE SCREWS			
2X_ WOOD FRAME OR BUCK	NO. 12 SMS SCREW	1 1/4"	3/4"
CMU/CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
MIN. 18 GA. (0.043" THK) 33 KSI STEEL OR 1/8" THK. 6063-T5 ALUMINUM	NO. 12 SELF TAPPING OR OR PREDRILLED SMS SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO OR ITW RAMSET/RED HEAD TAPCONS, HILTI KWIK-CON II OR POWERS RAWL TAPPER (HARDENED STEEL OR S.S.).

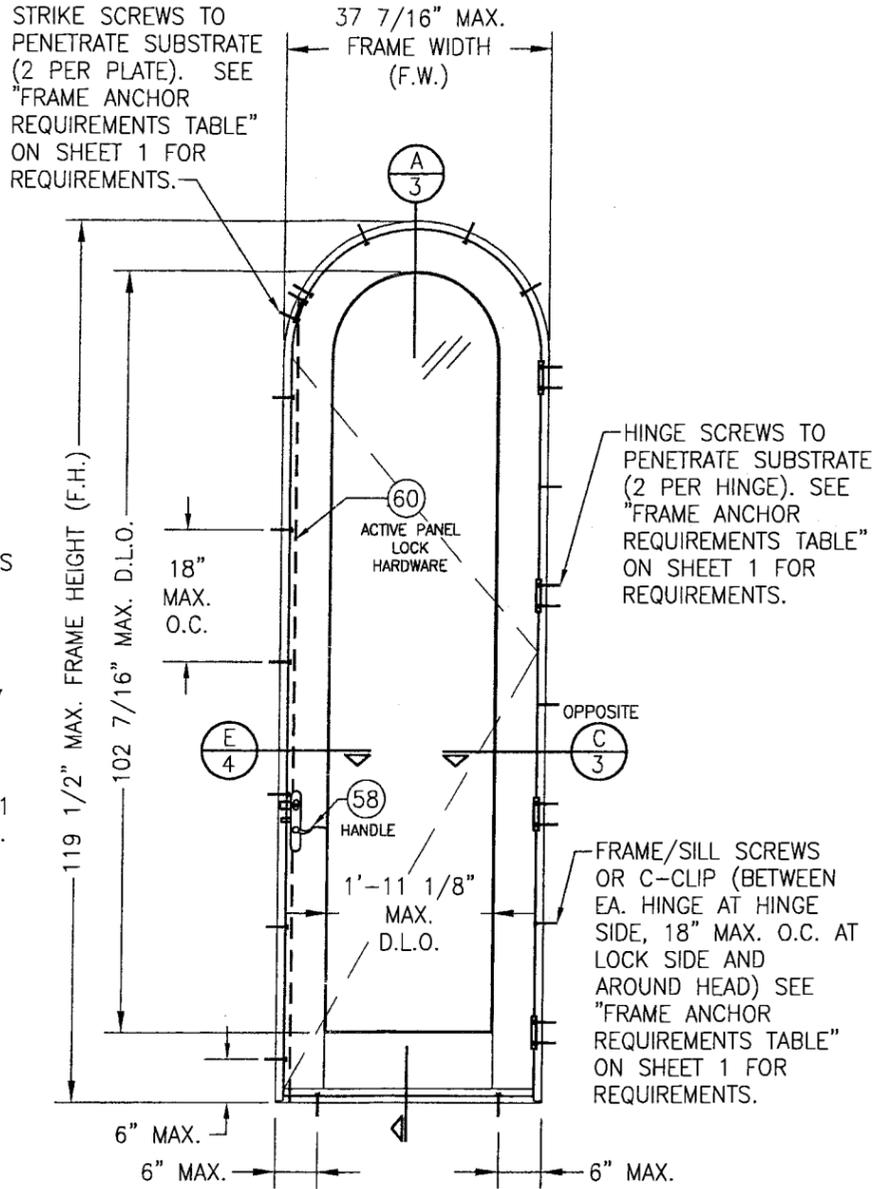
- GENERAL NOTES:**
- THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
 - OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
 - ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
 - THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT DOORS.
 - THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
 - IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE DOORS.
 - ALL ANCHORS SECURING DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
 - DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTION 2.0 OF THE ASCE 7 STANDARD.
 - NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
 - MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
 - ALL WOOD MEMBERS OF DOORS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLLOT: 1-24	DATE: 09/28/05
DATE 09/08/08	DATE 09/08/08
BY WRM	BY WRM
REVISION DESCRIPTION	
NO. 1	UPDATE TO PRESENT STANDARDS
NO. 2	UPDATE PART PROFILES
DRAWING TITLE CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	MANUFACTURER MARVIN WINDOWS & DOORS
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044
CERTIFICATION DEC 16 2008	By <i>Shag J. Lhauke</i> Miami Dade Product Control Division
DRAWING NO. 1397	REV. A
SHEET NO. 1 OF 8	

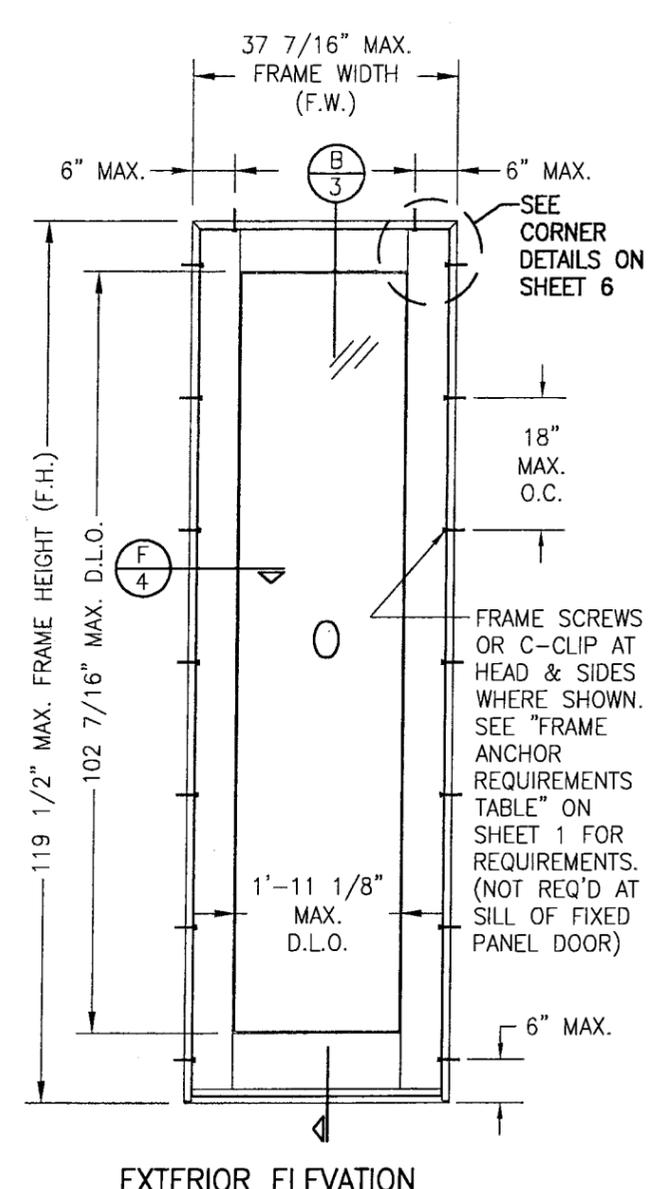
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. **08-0917.10**
Expiration Date **JAN 05, 2011**



EXTERIOR ELEVATION
DOUBLE HALF-ROUND OUTSWING DOOR
 SCALE: 1/2" = 1'-0"



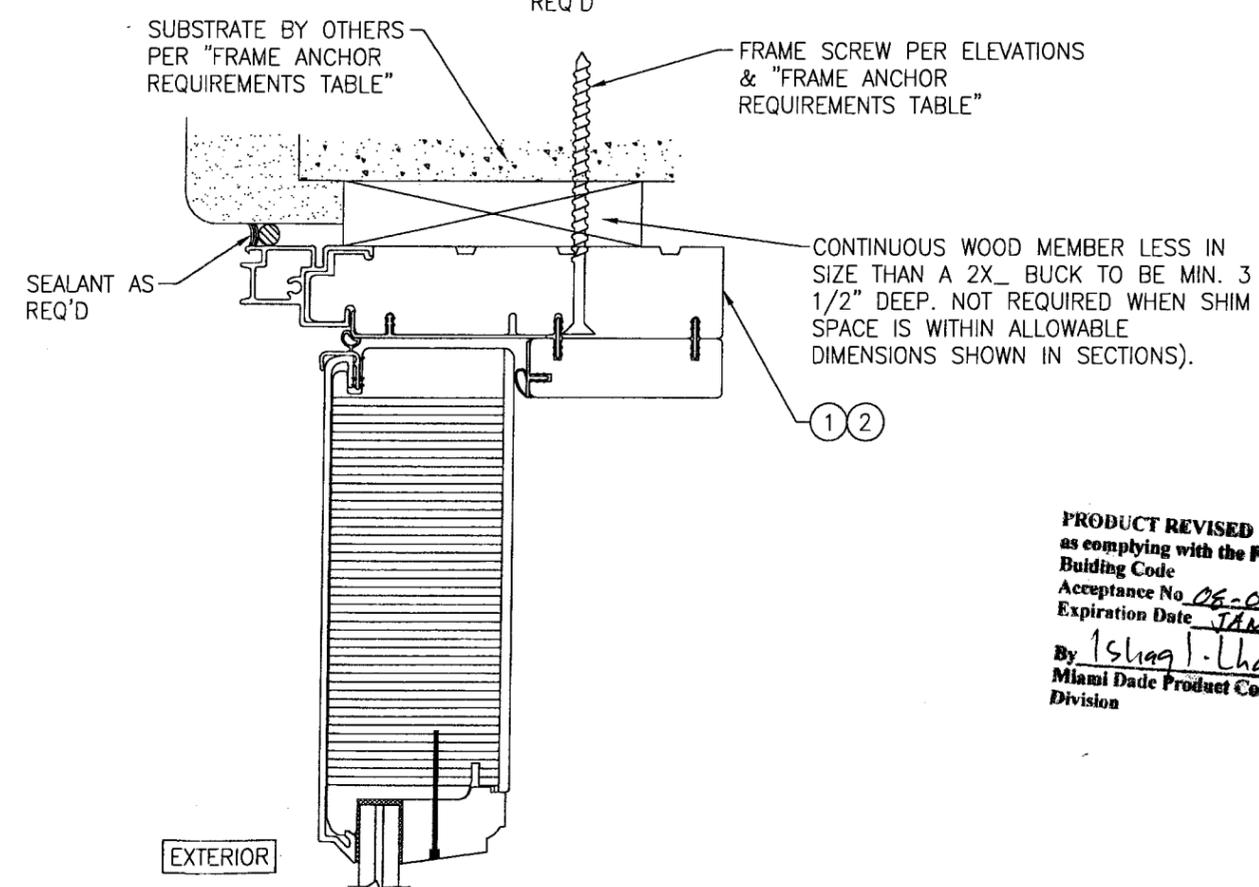
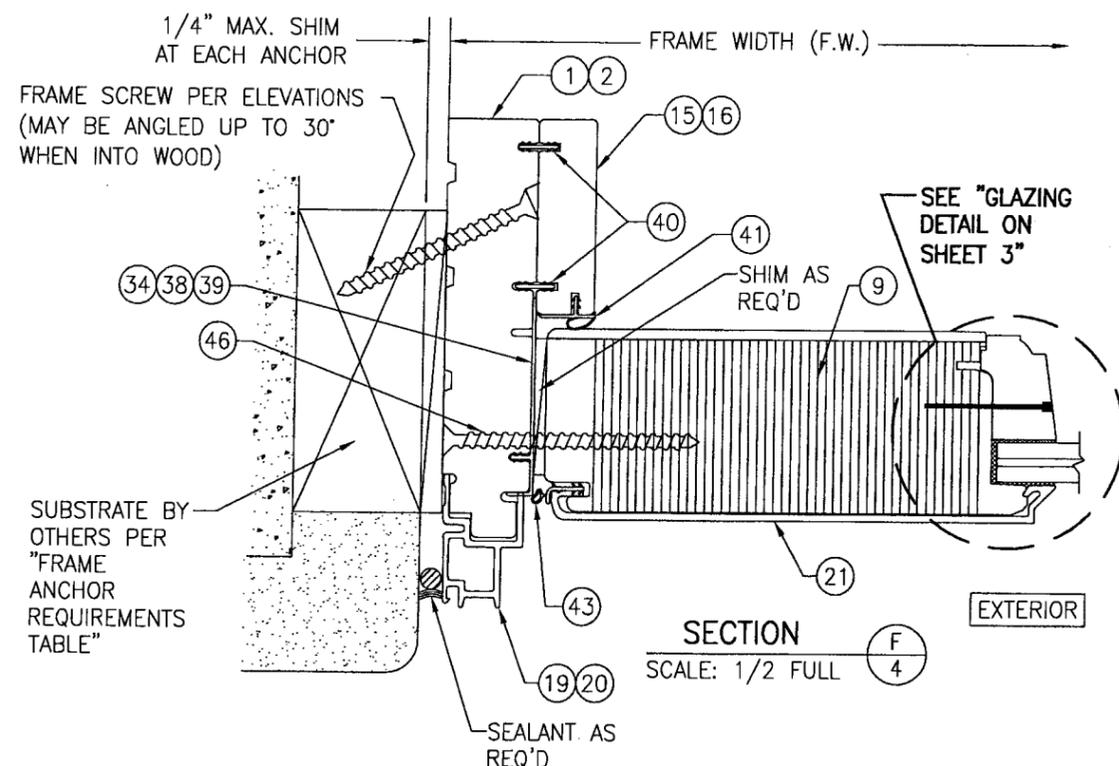
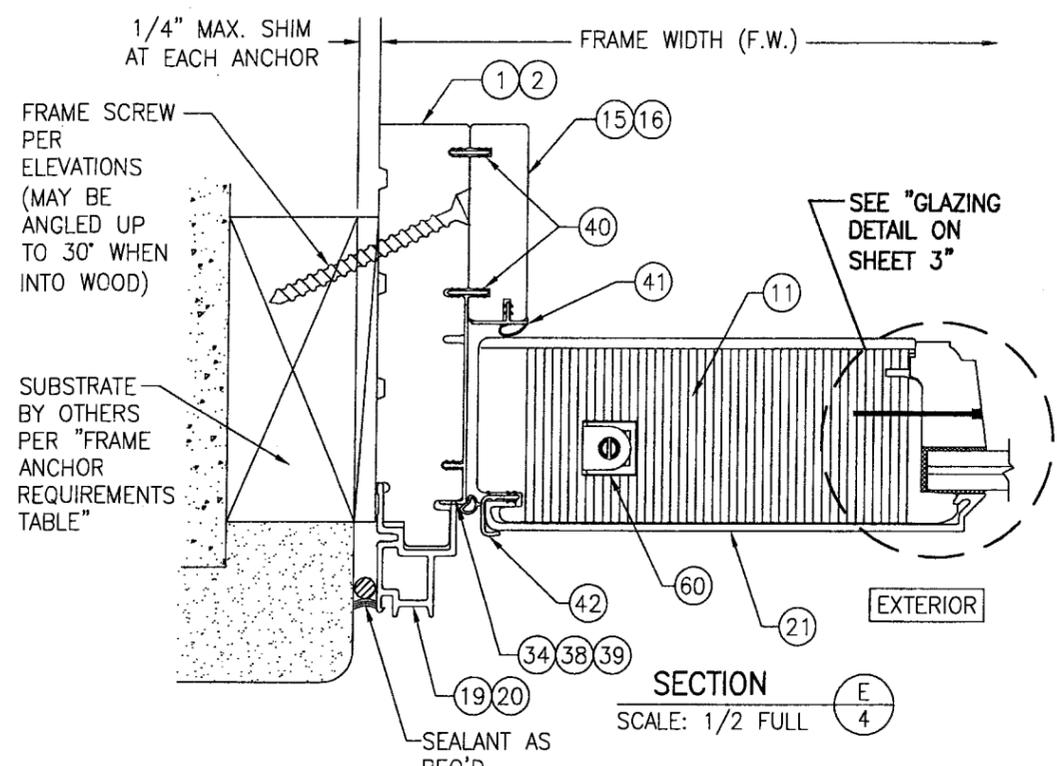
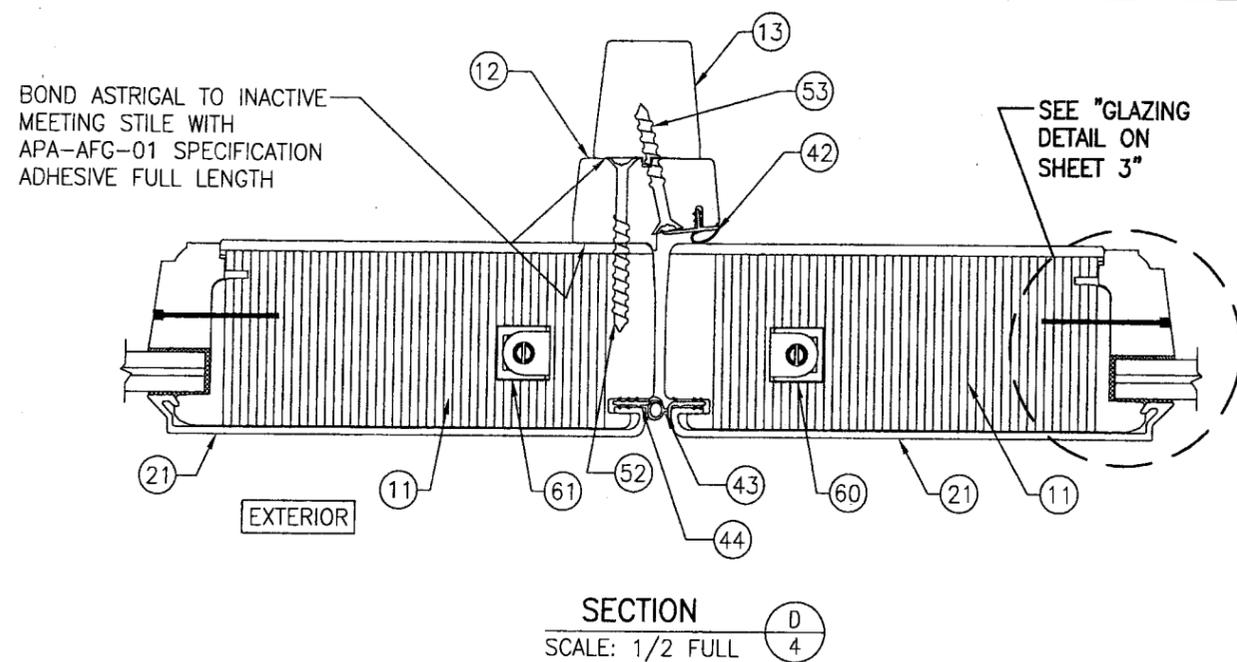
EXTERIOR ELEVATION
SINGLE HALF-ROUND OUTSWING DOOR
 SCALE: 1/2" = 1'-0"



EXTERIOR ELEVATION
SINGLE FIXED PANEL DOOR
 SCALE: 1/2" = 1'-0"
 (RECTANGULAR DOOR SHOWN; SHAPES ALSO APPLY)

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 08-0917.10
 Expiration Date JAN 05, 2011
 By *lgag. lhand*
 Miami Dade Product Control
 Division

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 08/28/05	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER MARVIN WINDOWS & DOORS	
8885 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044	
CERTIFICATION DEC 16 2008			
DRAWING NO. 1397		REV. A	
SHEET NO. 2 OF 8			



NOTE: FRAME ANCHORS MAY BE ANGLED & POSITIONED AS SHOWN, RUN STRAIGHT & POSITIONED BENEITH THE PANEL STOP OR STRAIGHT THROUGH THE STOP AND JAMB.

OPTIONAL DIRECT MOUNT DETAIL TO BLOCK OR CONCRETE WITH SPACER OR SHIM
(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 06-0917-10
Expiration Date JANES, 2011
By 1-shag1-ghand-
Miami Dade Product Control Division

DRAWING TITLE		DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4		PLOT: 1=2		DATE: 09/28/05	
NO.	REVISION DESCRIPTION	DATE	BY		
CONSULTANTS		MANUFACTURER			
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MARVIN WINDOWS & DOORS			
5800 W. SANDWATER DRIVE, SUITE 203804 PALM BEACH GARDENS, FL 33409 PHONE: 561-775-4902 FAX: 561-775-4903		HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044			
CERTIFICATION	DEC 15 2008	WARREN W. SCHAEFER, P.E. NO. 44135			
DRAWING NO.	REV.				
1397	A				
SHEET NO.					
4 OF 8					

MIN. 2X4 BUCK/FRAMING
& BUCK ATTACHMENT BY
OTHERS

NO. 8 X 1 1/2"
SCREW (4 PER CLIP;
2 PER SIDE)

24
CLIP LOCATED
PER ELEVATIONS

1/4" MAX. SHIM NEXT
TO EACH ANCHOR

1 2
NO. 8 X 3/4"
SCREW (2 PER CLIP)

EXTERIOR

**OPTIONAL CLIP MOUNT DETAIL AT HEAD
AND SIDES**

(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

ALUMINUM OR STEEL
SUPPORTING MEMBER
BY OTHERS; TO BE MIN.
3 1/2" DEEP PER "FRAME
ANCHOR REQUIREMENTS
TABLE" ON SHEET 1.

NO. 8 X 3/4"
SCREW (4 PER
CLIP; 2 PER SIDE)

24
CLIP LOCATED
PER ELEVATIONS

1/4" MAX. SHIM NEXT
TO EACH ANCHOR

1 2
NO. 8 X 3/4"
SCREW (2 PER CLIP)

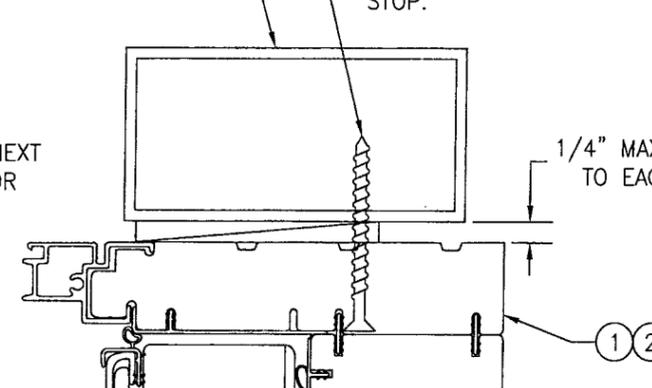
EXTERIOR

**OPTIONAL CLIP MOUNT DETAIL TO
ALUMINUM OR STEEL**

(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

ALUMINUM OR STEEL
SUPPORTING MEMBER
BY OTHERS; TO BE MIN.
3 1/2" DEEP PER "FRAME
ANCHOR REQUIREMENTS
TABLE" ON SHEET 1.

SMS OR SELF TAPPING SCREW PER
"FRAME ANCHOR REQUIREMENTS
TABLE" ON SHEET 1 TO REPLACE ALL
FRAME, STRIKE & HINGE SCREWS
SHOWN IN ELEVATIONS. MAY BE AT
JAMB SURFACE OR THROUGH THE
STOP.



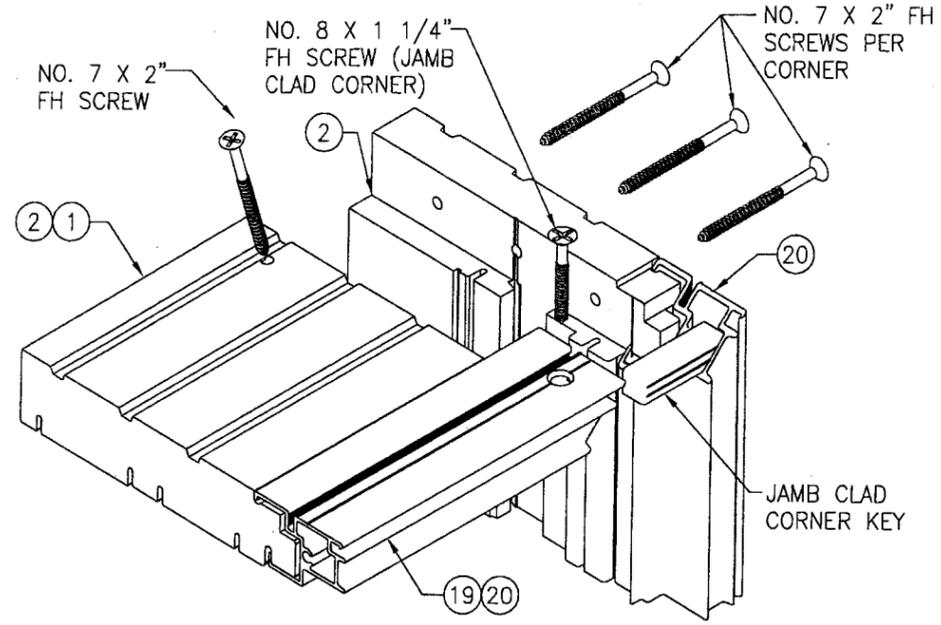
EXTERIOR

**OPTIONAL DIRECT MOUNT DETAIL TO
ALUMINUM OR STEEL**

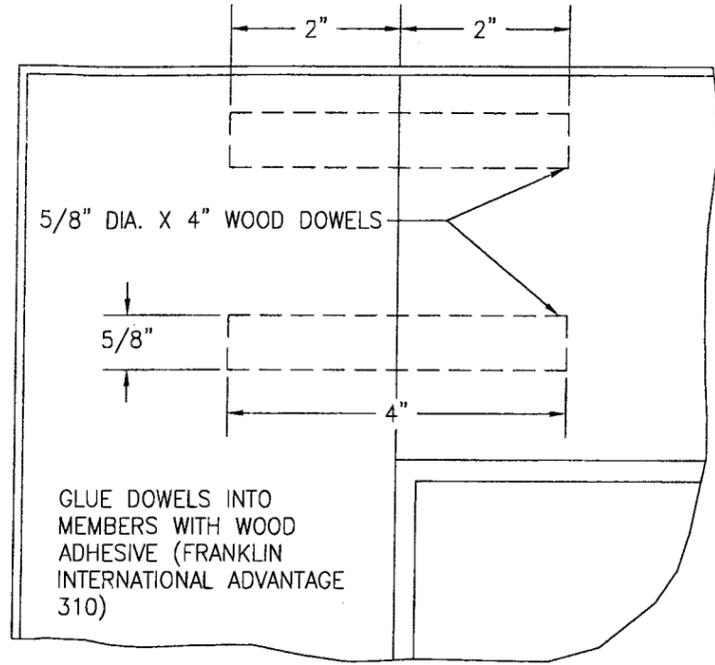
(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 09/28/05	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER MARVIN WINDOWS & DOORS	
8800 SEAWATER DRIVE, SUITE 205804 PALM BEACH GARDENS, FL 33409 PHONE: 561-775-4902 FAX: 561-775-4803		HIGHWAY 11; P.O. BOX 100 WARRIOR, MN 56763 800-346-5044	
CERTIFICATION	DEC 16 2008		
By <u>W. W. Schaefer</u> , P.E. P.E. NO. 44135			
DRAWING NO.	REV.		
1397	A		
SHEET NO.			
5 OF 8			

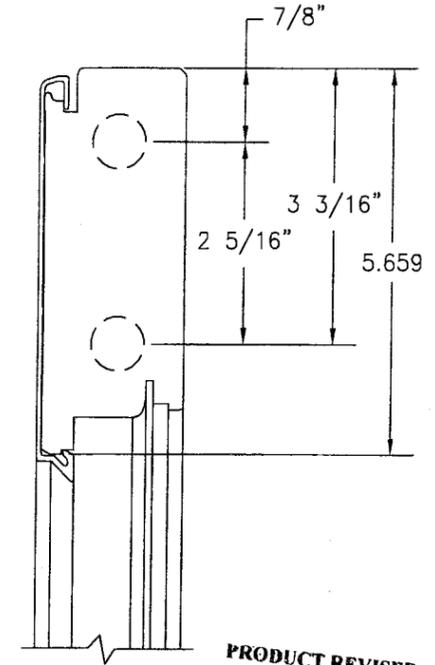
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 08-0917-10
Expiration Date JANES, 2011
By W. W. Schaefer
Miami Dade Product Control
Division



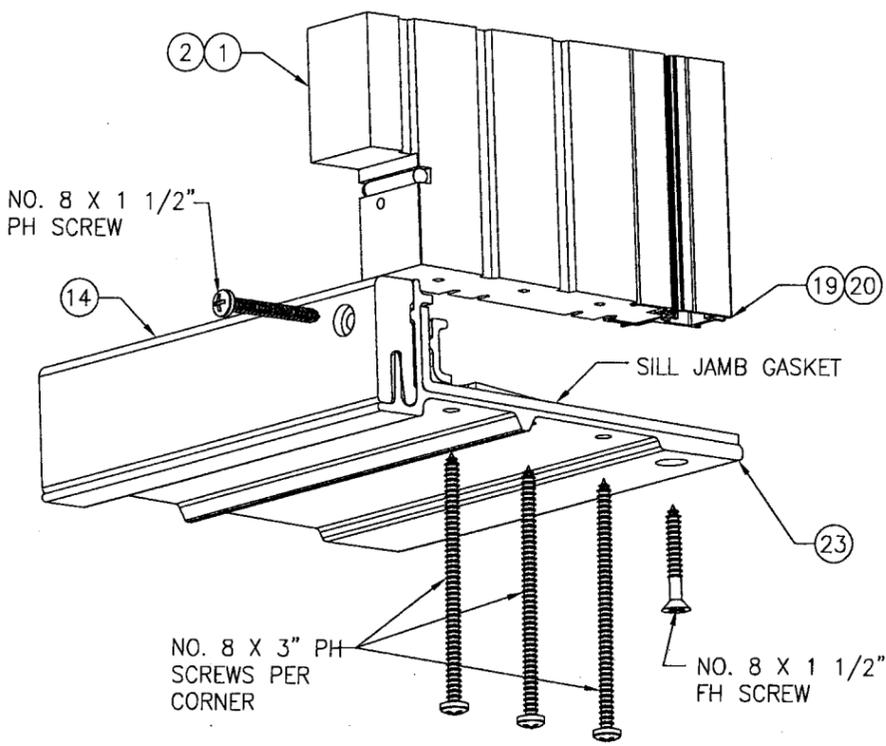
JAMB TO JAMB CORNER DETAIL



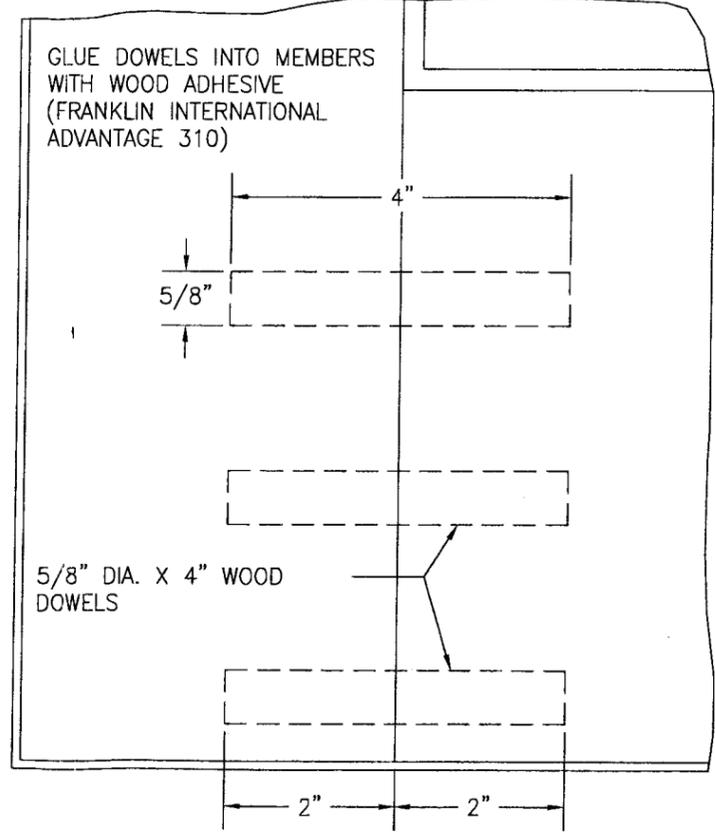
STILE TO TOP RAIL CORNER DETAIL



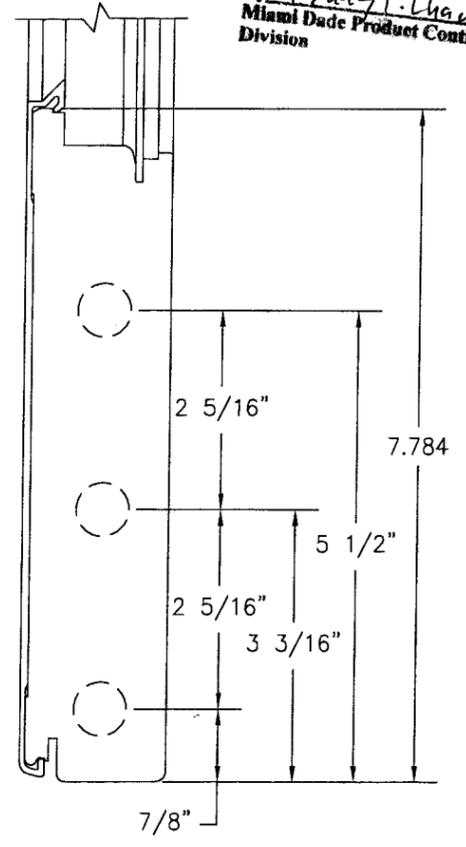
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 08-6917-10
 Expiration Date JAN 05, 2011
 By *Ishtiaq I. Khan*
 Miami Dade Product Control
 Division



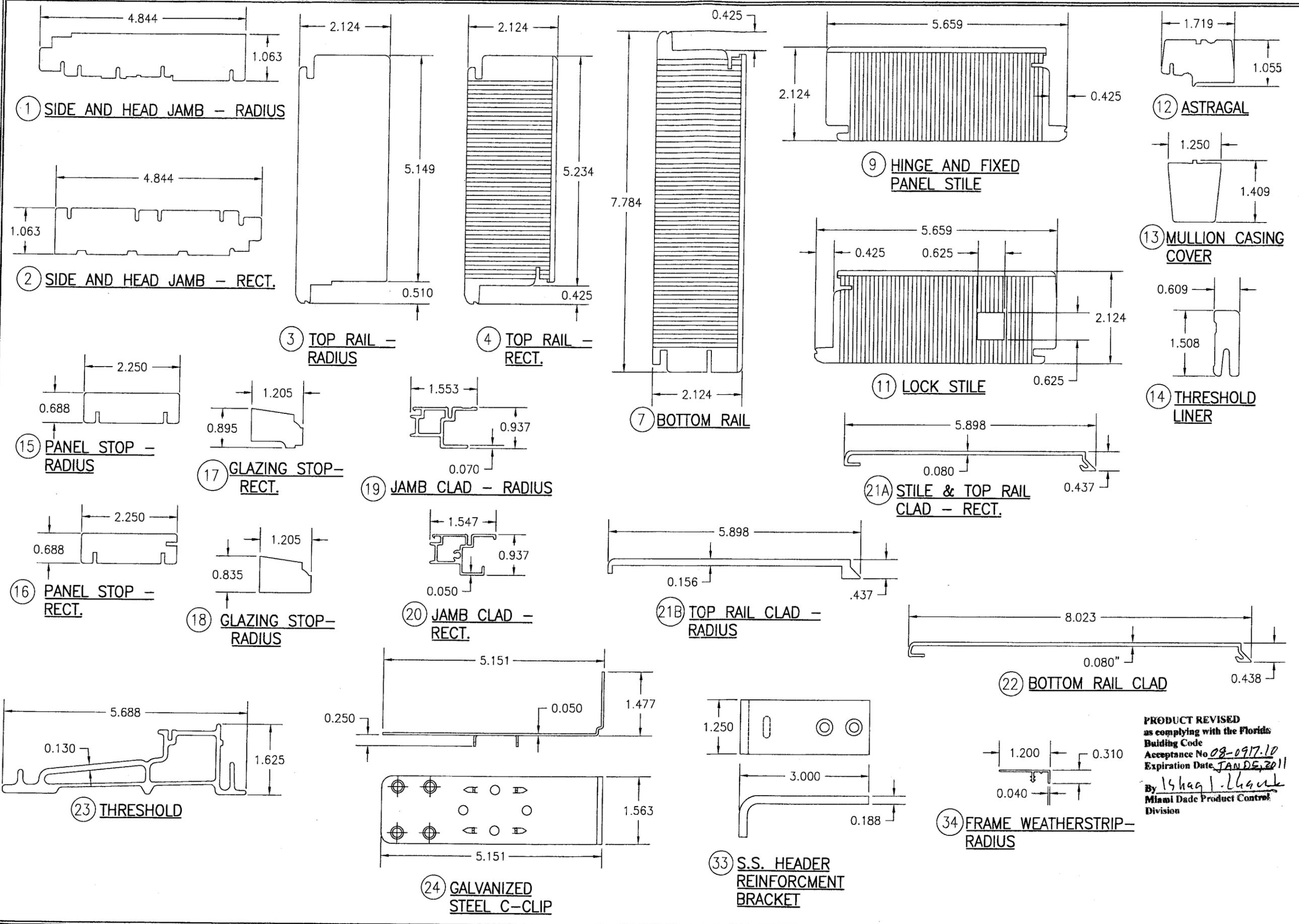
JAMB TO THRESHOLD CORNER DETAIL



STILE TO BOTTOM RAIL CORNER DETAIL
 SIMILAR AT WIDE BOTTOM RAIL EXCEPT 4 DOWELS ARE USED



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 09/28/05	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER: MARVIN WINDOWS & DOORS	
8800 NE ANDREWS DRIVE, SUITE 20304 PALM BEACH GARDENS, FL 33480 PHONE: 561-775-4902 FAX: 561-775-4903		HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044	
CERTIFICATION: DEC 18 2008		WARREN W. SCHAEFER, P.E. P.E. NO. 44138	
DRAWING NO. 1397		REV. A	
SHEET NO. 6 OF 8			



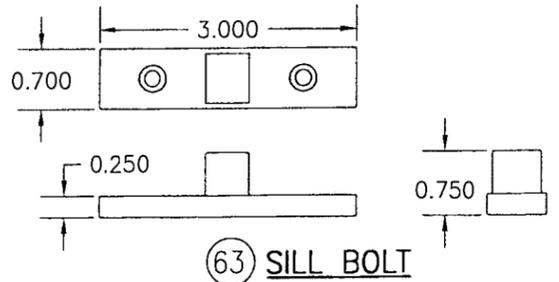
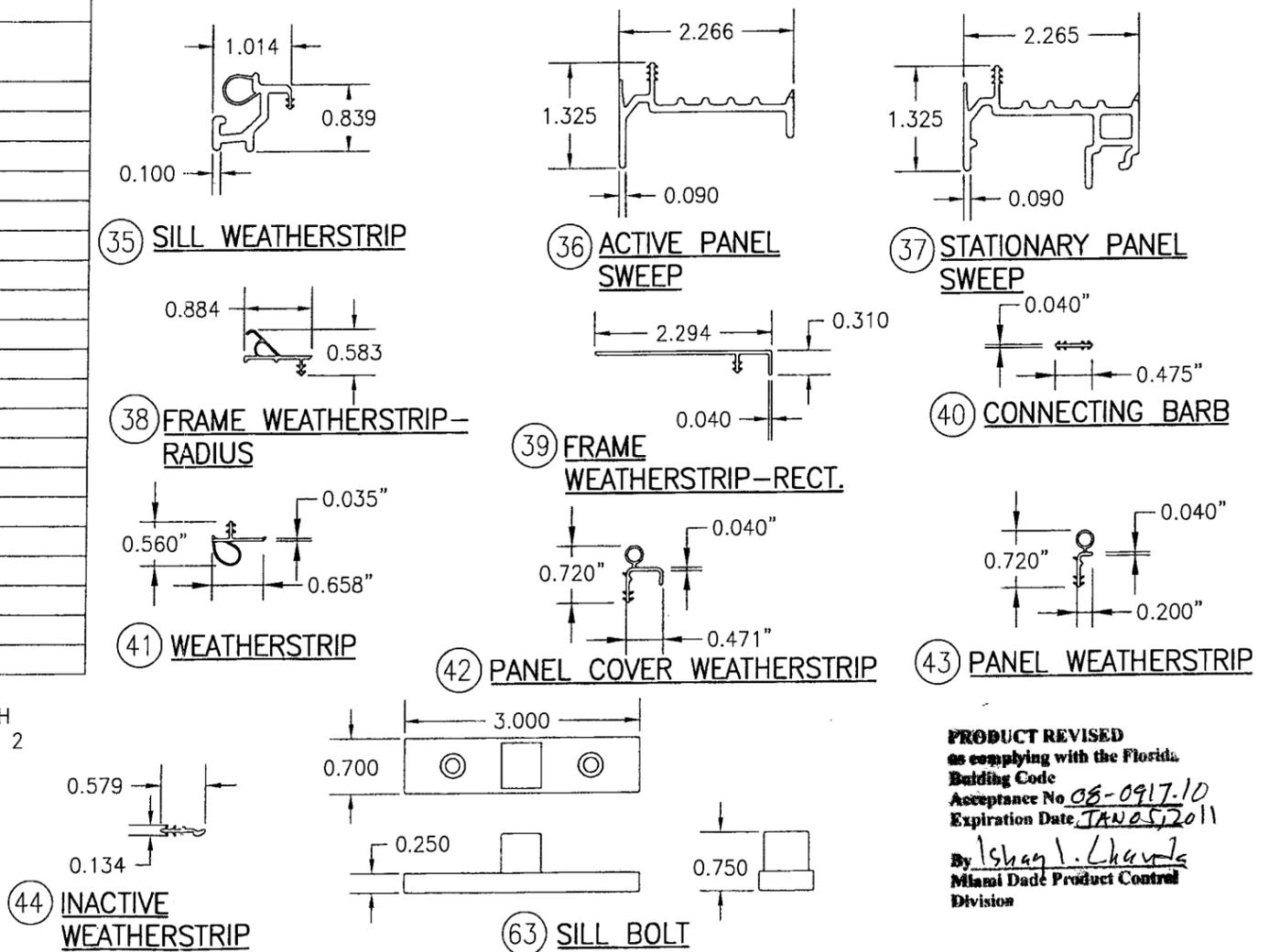
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 09/28/05
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	
MANUFACTURER MARVIN WINDOWS & DOORS	
P.O. BOX 100 WARROAD, MN 56763 (218) 386-4021	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION DEC 16 2010	By <i>Isaac L. Hawk</i> Miami Dade Product Control Division
DRAWING NO. 1397	REV. A
SHEET NO. 7 OF 8	

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. *08-0917-10*
 Expiration Date *JAN DE 2011*
 By *Isaac L. Hawk*
 Miami Dade Product Control
 Division

PARTS LIST			
NO.	REF. NO.	DESCRIPTION	NOTES
PARTS & EXTRUSIONS			
1	00053994	SIDE & HEAD JAMB - RADIUS	*WOOD
2	00052938	SIDE & HEAD JAMB - RECT.	*WOOD
3	00033507	TOP RAIL - RADIUS	*WOOD (FINGER JOINTED)
4	00032950	TOP RAIL - RECT.	LVL WITH PINE VENEER
7	00033711	BOTTOM RAIL	LVL WITH PINE VENEER
9	00032950	HINGE & FIXED PANEL STILE	LVL WITH PINE VENEER
11	00033069	LOCK STILE	LVL WITH PINE VENEER
12	00016785	ASTRAGAL	*WOOD
13	00034006	MULLION CASING COVER	*WOOD
14	00011114	THRESHOLD LINER	OAK
15	00054053	PANEL STOP - RADIUS	*WOOD
16	00052944	PANEL STOP - RECT.	*WOOD
17	00053530	GLAZING STOP - RECT.	*WOOD
18	00033496	GLAZING STOP - RADIUS	*WOOD
19	00024571	JAMB CLAD - RADIUS	6063-T5 ALUMINUM
20	00013503	JAMB CLAD - RECT.	6063-T5 ALUMINUM
21A	00034683	STILE & TOP RAIL CLAD - RECT.	6063-T5 ALUMINUM
21B	00034899	TOP RAIL CLAD	6063-T5 ALUMINUM
22	00018088	BOTTOM RAIL CLAD	6063-T5 ALUMINUM
23	00011107	THRESHOLD	PAINTED ULTREX (FIBERGLASS WITH MIN. Fy = 39 KSI)
24	00036080	GALVANIZED STEEL C-CLIP (FY=50 KSI)	1 1/2" WIDE X 6 1/2" LONG X .050" THK
25	00027022	S.S. BACKER PLATE	MAY REPLACE FRAME FASTENERS PER ELEVATIONS. 1 AT EA. SILL STRIKE BELOW SILL; 2.141 X 2.563 X 0.063 THK
26	00014912	GLASS REINFORCED ACETAL SILL STRIKE	1 AT EA. LOCK BAR; 1.07 X 2.82 X 0.3 THK
27	00014905	GLASS FILLED NYLON SHOOT BOLT GUIDE	1 AT EA. PANEL (TOP)
28	00004621	S.S. HEAD STRIKE PLATE	1 FOR EA. LOCK BAR (HEADER); 2.75 X 1 X 0.0705 THK
29	00026910	S.S. STILE END PLATE	1 AT EA. PANEL (TOP AND BOTTOM); 0.933 X 3.547 X 0.063 THK
30	00015312	S.S. SHOOT BOLT GUIDE REINFORCEMENT	1 AT EA. PANEL (BOTTOM)
31	00015314	GLASS FILLED NYLON SHOOT BOLT GUIDE	1 AT EA. PANEL (BOTTOM)
32	00027702	S.S. SILL STRIKE	1 AT EA. LOCK BAR; 0.250 X 2.661 X .048 THK
33	00046364	S.S. HEADER REINFORCEMENT	1 FOR EA. LOCK BAR (HEADER) 1.250 X 3.000 X .188 THK
34	00053999	FRAME WEATHERSTRIP - RADIUS	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
35	00053351	SILL WEATHERSTRIP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
36	00053439	ACTIVE PANEL SWEEP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
37	00050176	STATIONARY PANEL SWEEP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
38	00054010	FRAME WEATHERSTRIP - RADIUS	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
39	00052956	FRAME WEATHERSTRIP - RECT.	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
SEALS AND SEALANTS			
40	00005685	PANEL STOP CONNECTING BARB	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
41	00005648	WEATHERSTRIP (RECT. DOOR ONLY)	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
42	00013512	WEATHERSTRIP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
43	00013513	WEATHERSTRIP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
44	00052828	INACTIVE WEATHERSTRIP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)

* WOOD USED IN TESTING WAS GRADE 2 WESTERN PINE. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY MARVIN TO SELECT.
NOTE: ALL WOOD IS RECEIVED BY MARVIN WINDOWS & DOORS AS GRADE 2, BUT IS MACHINED BY MARVIN TO A SELECT GRADE USE.

PARTS LIST			
NO.	REF. NO.	DESCRIPTION	NOTES
FASTENERS			
45	-	NO. 12 X 1" S/STL SMS	2 PER HINGE INTO JAMB
46	-	NO. 12 X 1 1/2" S/STL SMS	4 PER HINGE INTO STILE
47	-	NO. 8 X 2 1/2" S/STL SMS	4" FROM CORNERS & MAX. 12" O.C.
48	-	NO. 8 X 3" S/STL SMS	1 PER SHOOT BOLT GUIDE (ACTIVE PANEL); 2 PER SILL BOLT (FIXED PANEL)
49	-	NO. 8 X 1 1/2" P.H. S/STL SMS	2.5" FROM ENDS & MAX. 9" O.C. WITH ADDITIONAL ONE AT LOCK THROW
50	-	NO. 8 X 1 1/4" S/STL P.H. SMS	2 1/4" FROM ENDS & MAX. 11" O.C.
51	-	NO. 8 X 5/8" MACHINE SCREW	2 PER THRESHOLD STRIKE
52	-	NO. 7 X 2" A/TF	3" FROM ENDS & MAX. 12" O.C.
53	-	NO. 8 X 1 1/2" A/TF	1" FROM ENDS & MAX. 12" O.C.
54	-	NO. 8 X 1" AB	2 PER HEADER REINFORCEMENT PLATE
55	-	NO. 8 X 1 1/2" P.H. S/STL SMS	1.5" FROM ENDS & MAX. 8.25" O.C.
56	-	NO. 10 X 3" PH A SMS	2 PER HEAD STRIKE PLATE
57	-	1 1/2" BRAD NAIL	2" FROM ENDS & 10-12" O.C.
HARDWARE			
58	00037266	ACTIVE DOOR HANDLE	AS REQUIRED TO OPERATE LOCK SYSTEM
59	00037267	INACTIVE DOOR HANDLE	AS REQUIRED TO OPERATE LOCK SYSTEM
60	00013771	ACTIVE DOOR 3-POINT LOCK HARDWARE	ASHLAND
61	00013966	INACTIVE DOOR 2-POINT LOCK HARDWARE	ASHLAND
62	00034984	4.5 X 4.5 BALL BEARING HINGE	HAGER
63	00011232	SILL BOLT	ZINC DIE CAST (2 PER FIXED PANEL)



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 08-0917.10
Expiration Date: JAN 05, 2011
By: Ishay L. Chavira
Miami Dade Product Control
Division

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 08/28/05
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4	
MANUFACTURER MARVIN WINDOWS & DOORS HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION DEC 16 2008 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1397	REV. A
SHEET NO. 8 OF 8	