



**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**

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 "Sotrmplus IZ4" 2 1/4 Outswing Wood French Door

APPROVAL DOCUMENT: Drawing No. 1452, "Wood 2 1/4 " Outswing French Door Stormplus IZ4", sheets 1 through 7 of 7, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 09/30/05, signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

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 consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Herminio F. Gonzalez, P.E., Director, BCCO**



**NOA No 05-1012.03
Expiration Date: January 05, 2011
Approval Date: January 05, 2006
Page 1**

Marvin Window & Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1452**, titled "Wood 2 ¼" Outswing French Door Stormplus IZ4", sheets 1 through 7 of 7, dated 09/30/05, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and 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 marked-up drawings and installation diagram of out swing wood doors, prepared by Architectural Testing, Test Report No. **ATI-58623.01-201-18** dated 07/18-22/05, signed and sealed by Joseph A. Reed, P.E.

C. CALCULATIONS

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.
Complies with ASTM E1300-02

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

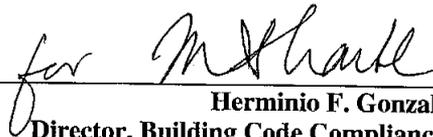
1. Notice of Acceptance No. **01-1204.01** issued to E.I. DuPont DeNemours for "Sentry Glass ® Plus" dated 01/17/02, expiring on 01/14/07.

F. STATEMENTS

1. Statement letter of conformance and no financial interest, dated 09/30/05, signed and sealed by Warren Schaefer, P.E.

G. OTHER

1. Letter from the consultant, dated November 29, 2005, stating that the product is in compliance with the Florida Building Code (FBC)



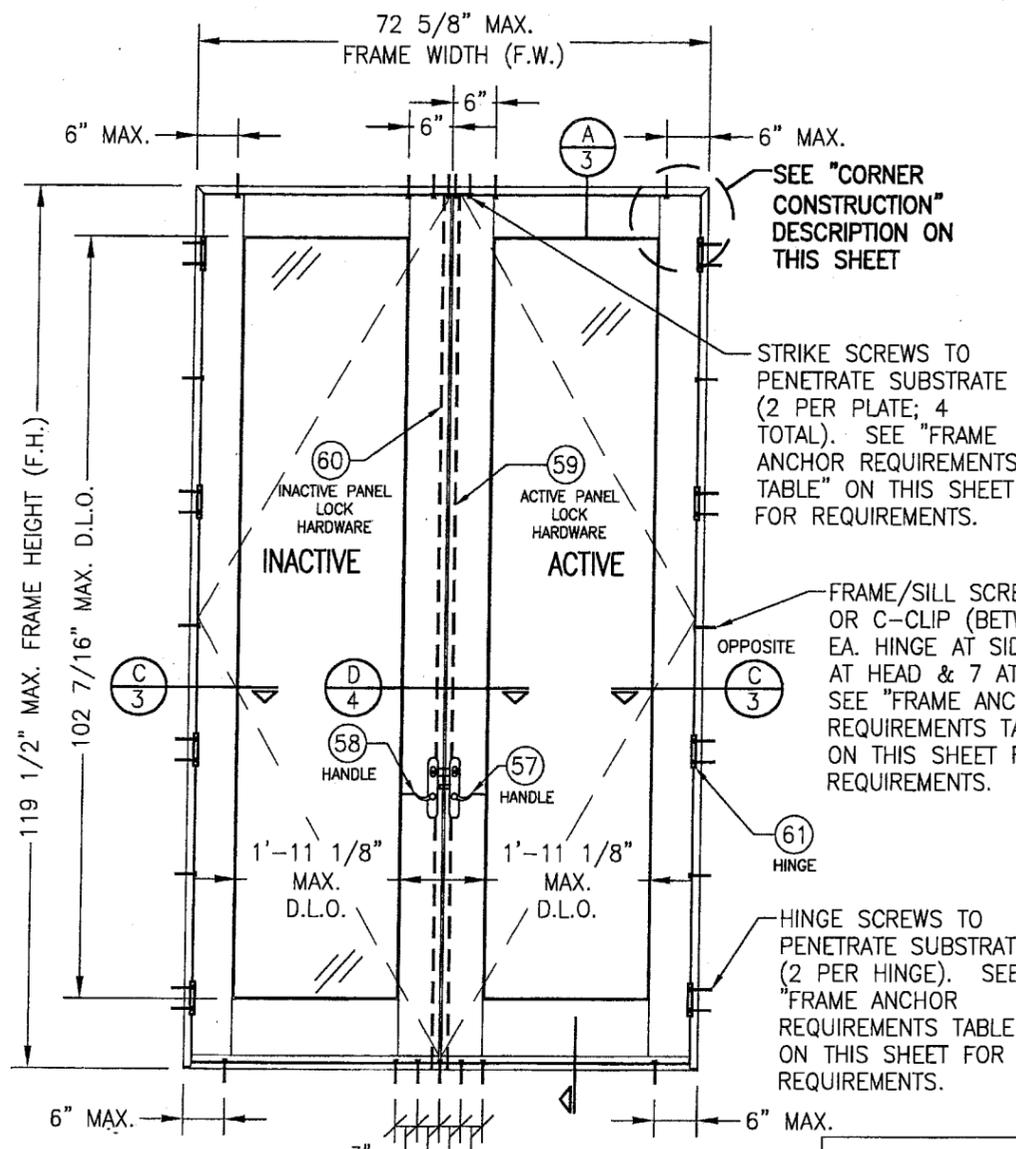
Herminio F. Gonzalez, P.E.

Director, Building Code Compliance Office

NOA No 05-1012.03

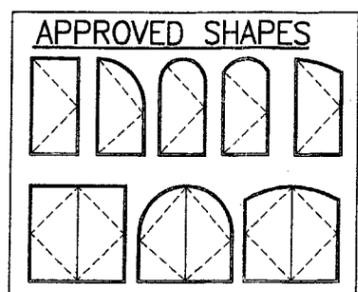
Expiration Date: January 05, 2011

Approval Date: January 05, 2006



**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.

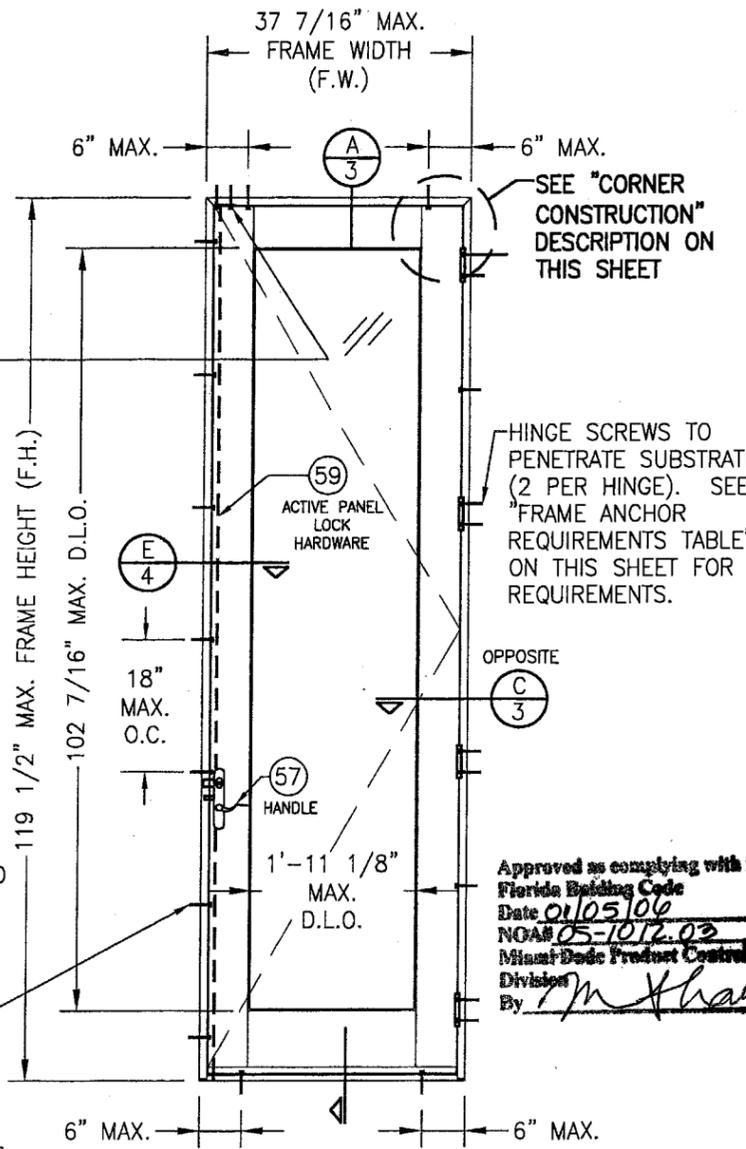
HINGE QUANTITY TABLE	
DOOR HEIGHT	QTY REQUIRED
LESS THAN 86"	3
86" & GREATER	4

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.).

STRIKE SCREWS TO PENETRATE SUBSTRATE (2 PER PLATE). SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR REQUIREMENTS.

FRAME/SILL SCREWS OR C-CLIP (BETWEEN EA. HINGE AT HINGE SIDE, 18" O.C. AT LOCK SIDE, 2 AT HEAD & 2 AT SILL) SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR REQUIREMENTS.



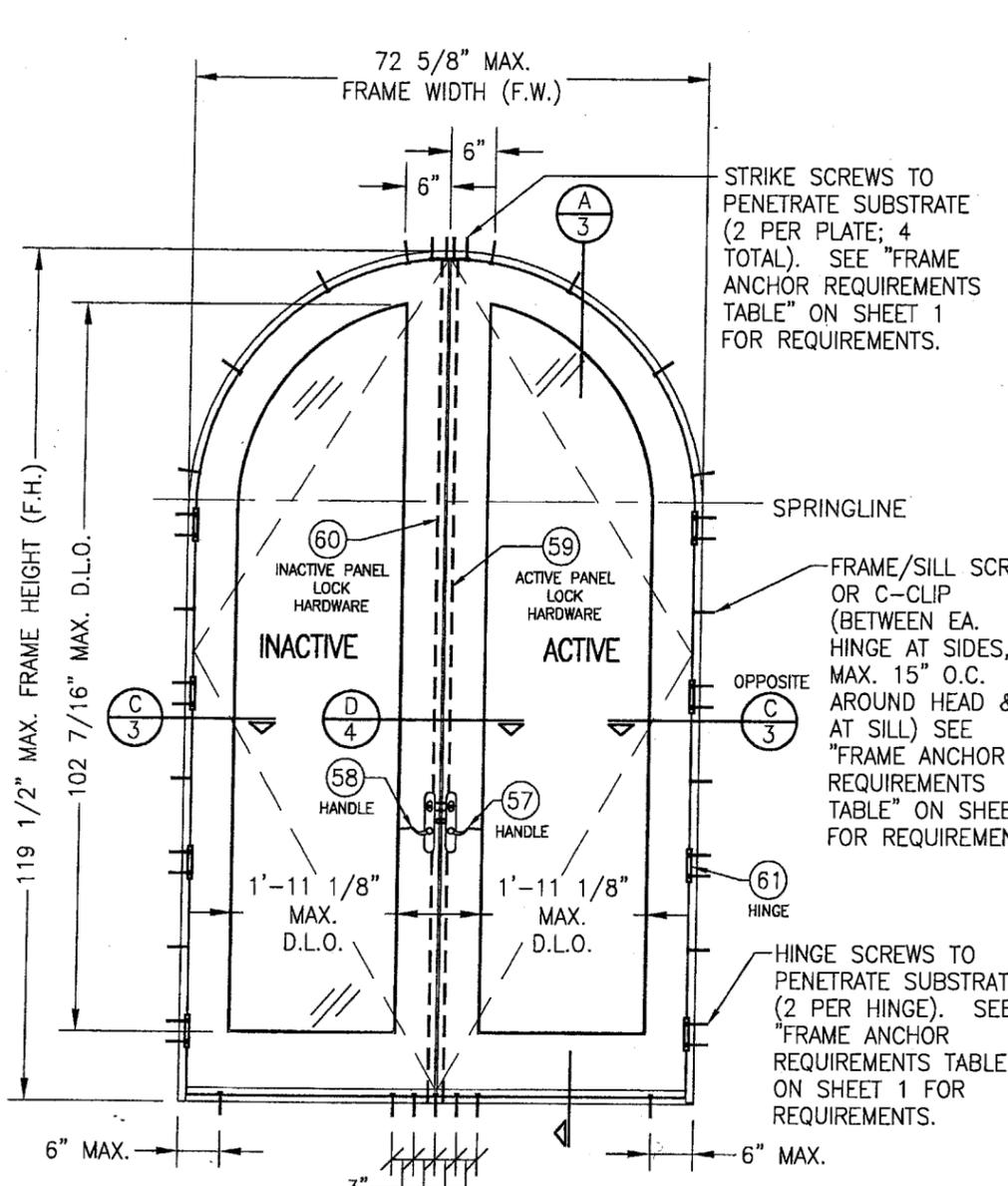
**EXTERIOR ELEVATION
SINGLE RECTANGULAR OUTSWING DOOR**
SCALE: 1/2" = 1'-0"

CORNER CONSTRUCTION:
JAMB TO JAMB: SIDE MEMBER IS COPEDED, BUTTED TO HEAD MEMBER, JOINED WITH FOUR(4) NO. 7 X 2" SCREWS (3 THROUGH SIDE INTO HEAD & 1 THROUGH HEAD INTO SIDE).
JAMB TO SILL: SIDE MEMBER IS BUTTED TO SILL & JOINED WITH THREE(3) NO. 8 X 3" SCREWS THROUGH BASE OF SILL INTO JAMB AND ONE(1) NO. 8 X 1 1/2" SCREW THROUGH BACKSIDE OF SILL INTO JAMB (SEALED WITH JAMB GASKET).
TOP-RAIL TO STILE: TOP-RAIL IS BUTTED TO STILE & JOINED WITH TWO(2) 5/8" DIA. X 4" LONG WOOD DOWELS GLUED INTO EACH MEMBER WITH FRANKLIN INTERNATIONAL ADVANTAGE 310 ADHESIVE.
BOTTOM-RAIL TO STILE: BOTTOM-RAIL IS BUTTED TO STILE & JOINED WITH THREE(3) 5/8" DIA. X 4" LONG WOOD DOWELS GLUED INTO EACH MEMBER WITH FRANKLIN INTERNATIONAL ADVANTAGE 310 ADHESIVE.

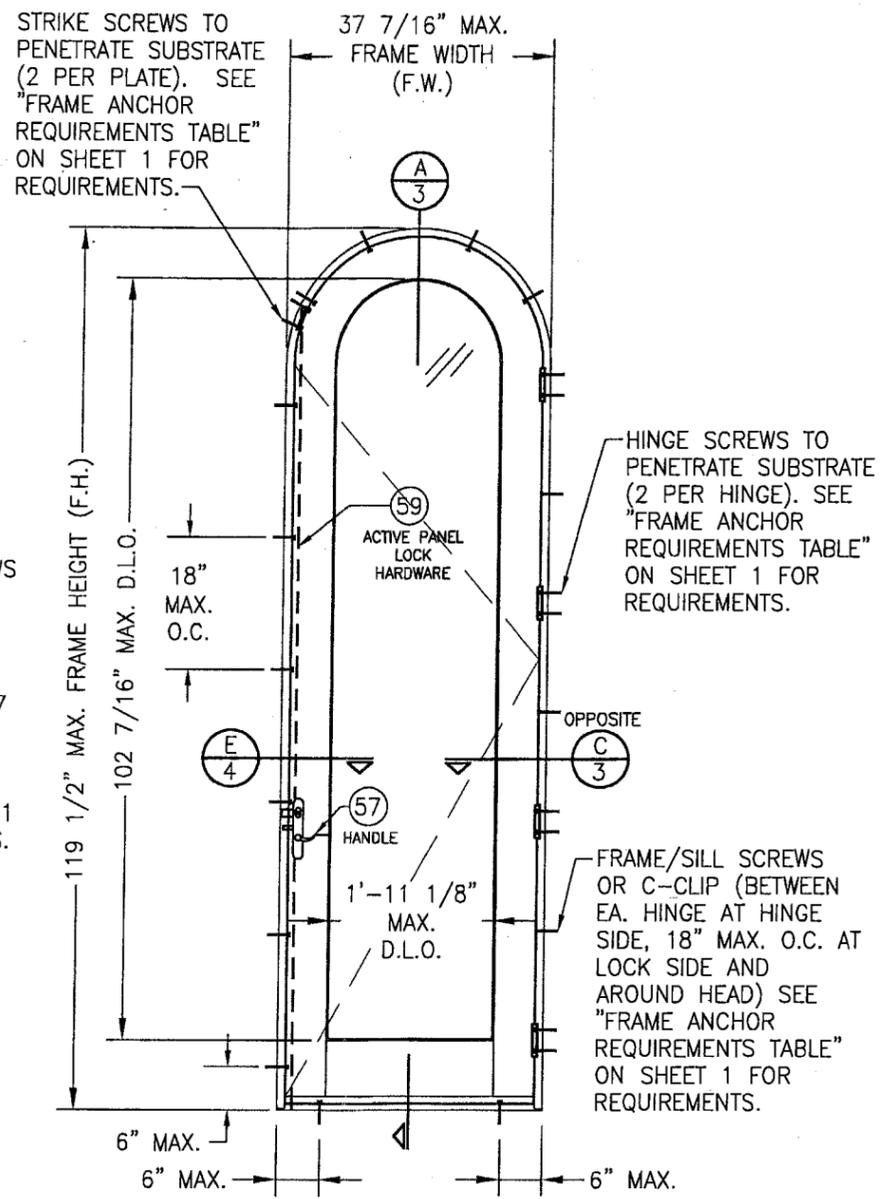
GENERAL NOTES

1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOADS" TABLE(S).
2. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE 2004 FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT DOORS.
5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE DOORS.
7. ALL ANCHORS SHALL BE INSTALLED AS SPECIFIED ON THESE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
8. ALL FRAME ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.

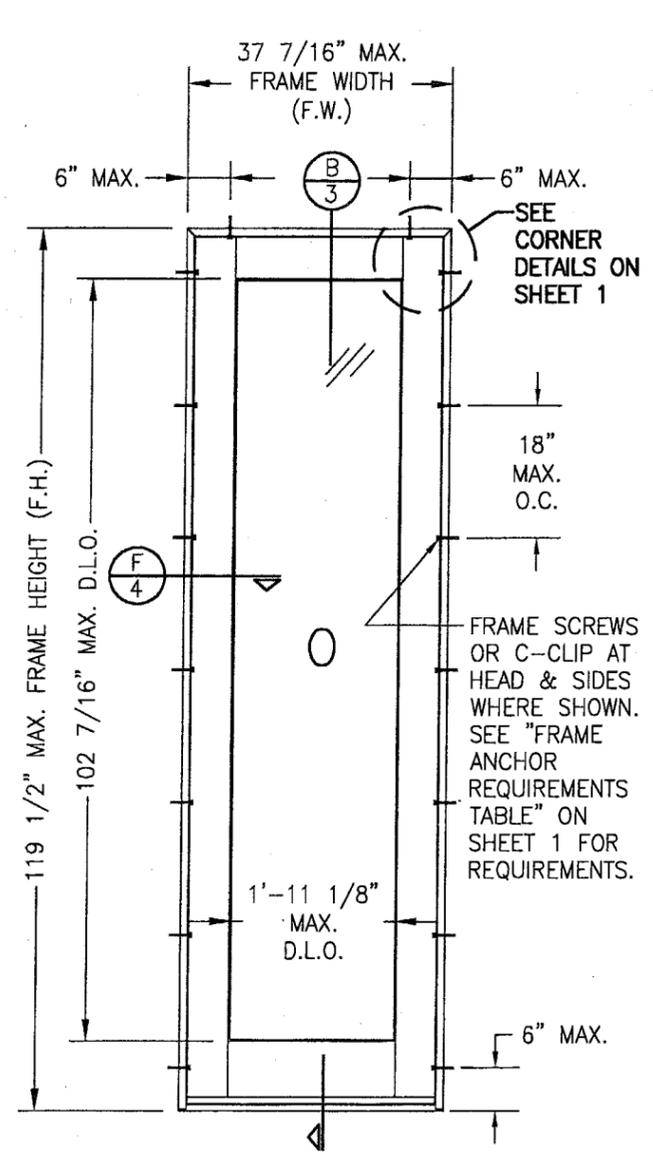
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 09/30/05
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE WOOD 2 1/4" OUTSING FRENCH DOOR STORMPLUS IZ4	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	MANUFACTURER MARVIN WINDOWS & DOORS
8865 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044
CERTIFICATION OCT 07 2005	By: <i>[Signature]</i>
DRAWING NO. 1452	REV.
SHEET NO. 1	OF 7



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

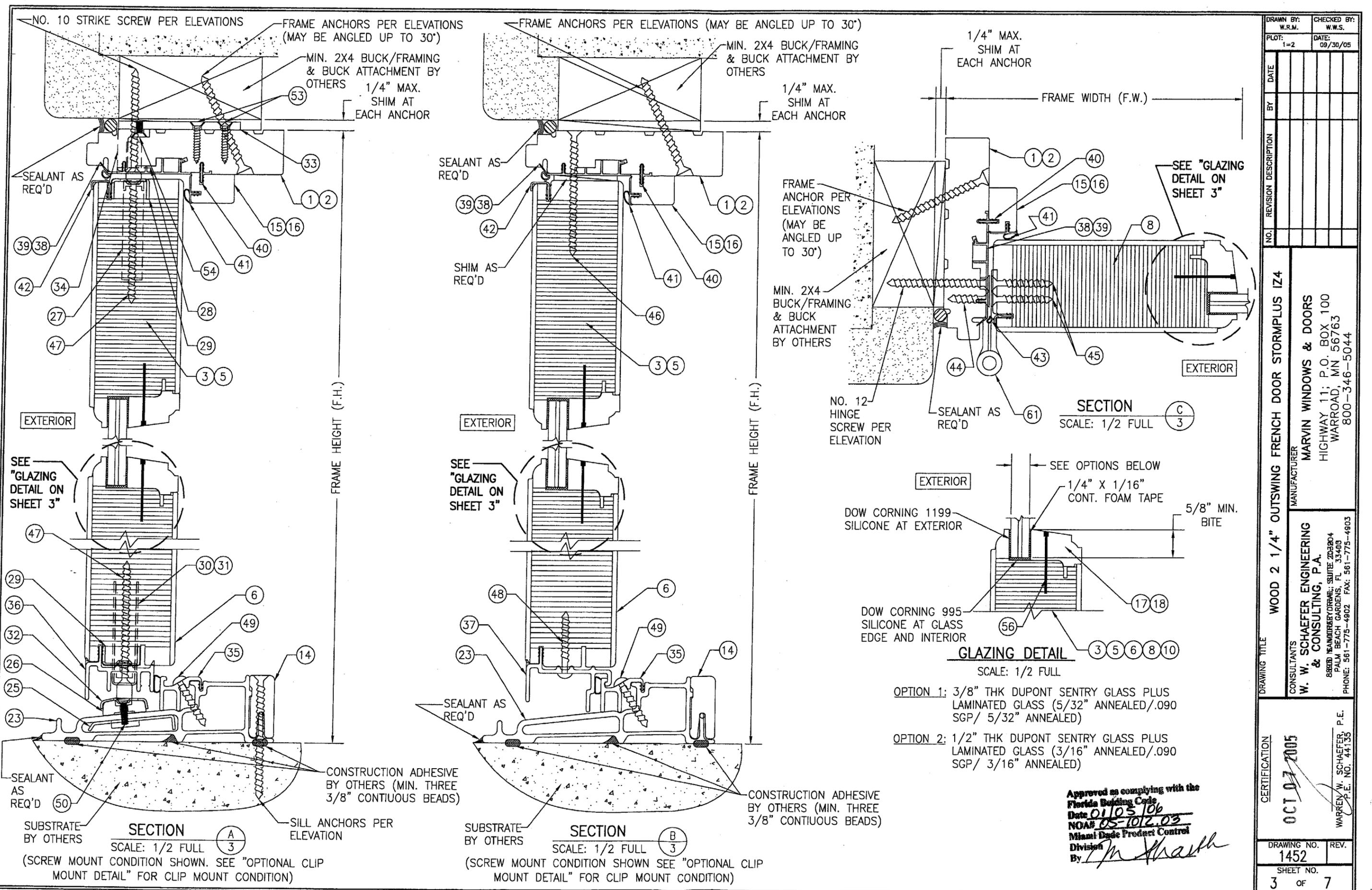


**EXTERIOR ELEVATION
SINGLE HALF-ROUND OUTSWING DOOR**
SCALE: 1/2" = 1'-0"



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

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 09/30/05	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE WOOD 2 1/4" OUTSING 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 OCT 07 2005			
Approved as complying with the Florida Building Code Date <u>01/05/06</u> NOAH <u>05-1012.03</u> Miami Trade Product Control Division By <u>W. Schaefer</u>			
DRAWING NO. 1452		REV.	
SHEET NO. 2		OF 7	



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 09/30/05
NO.	REVISION DESCRIPTION

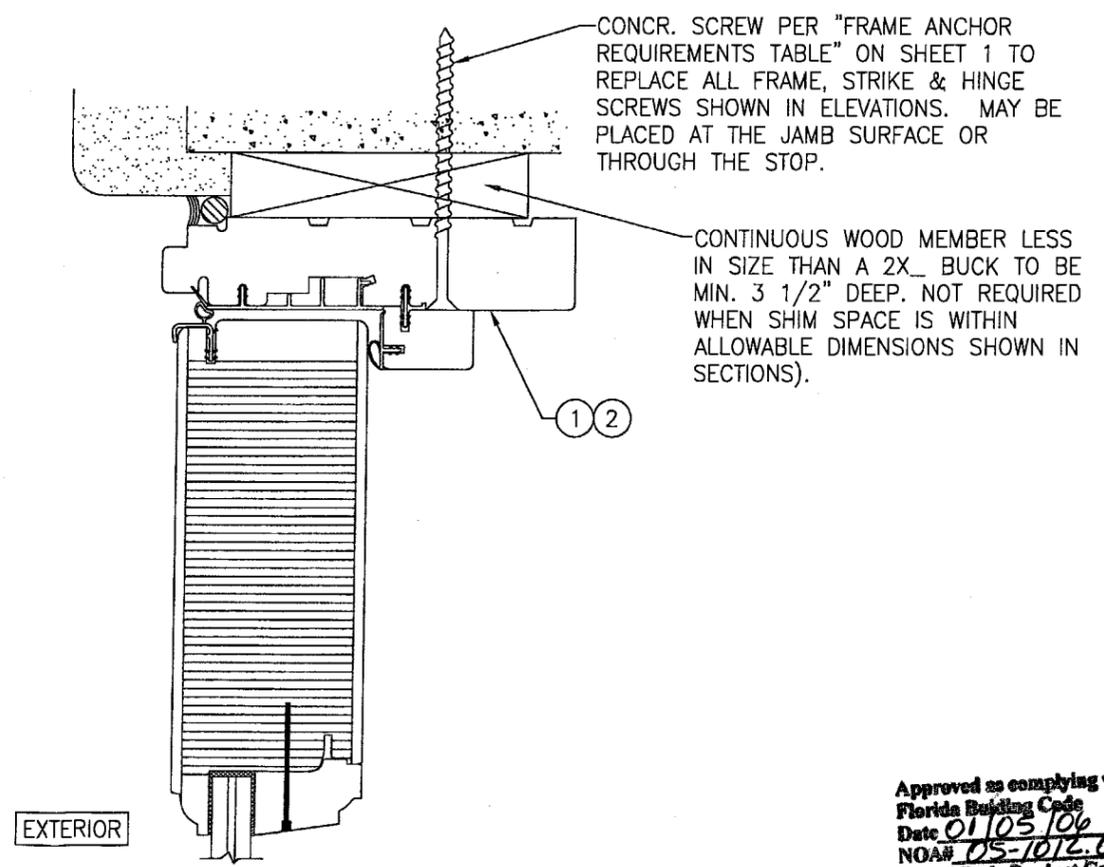
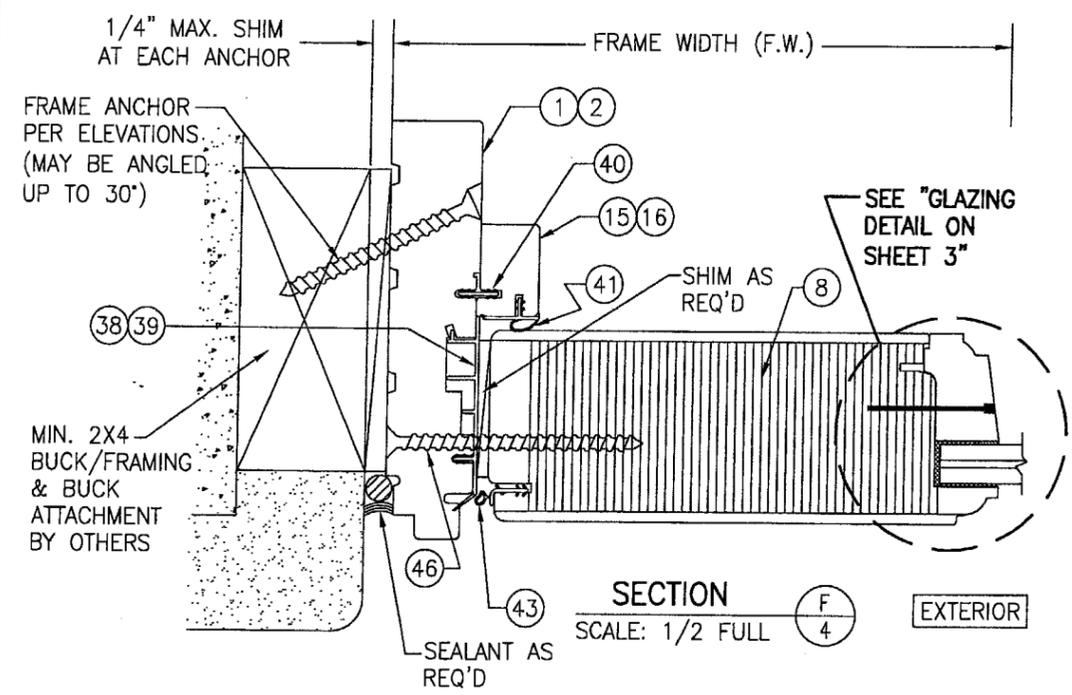
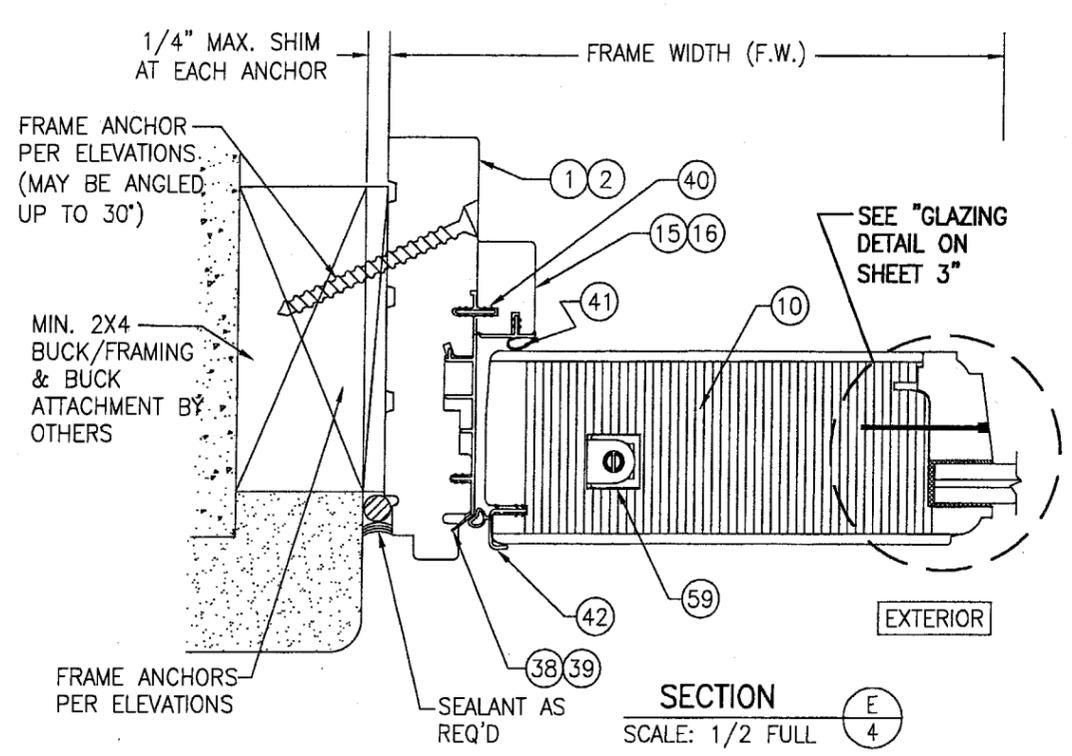
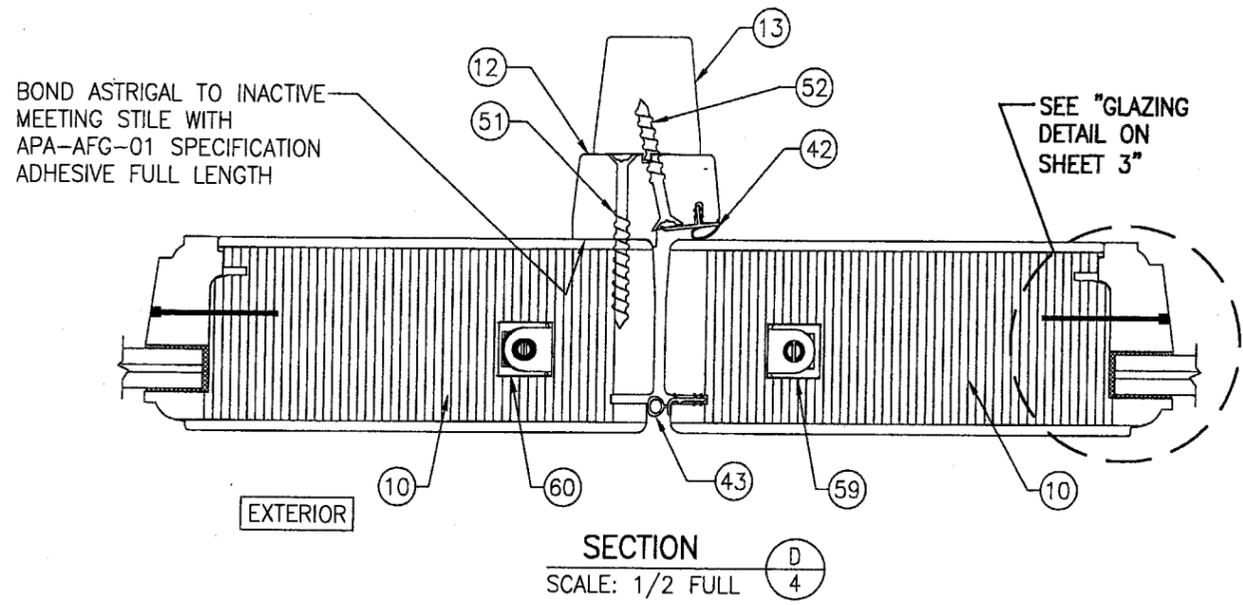
DRAWING TITLE
WOOD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
8800 N. WINDYBROOK DR., SUITE 203004
PALM BEACH GARDENS, FL 33409
PHONE: 561-775-4902 FAX: 561-775-4903

MANUFACTURER
MARVIN WINDOWS & DOORS
HIGHWAY 11, P.O. BOX 100
WARROAD, MN 56763
800-346-5044

CERTIFICATION OCT 07 2005	CONTRACTOR W. W. SCHAEFER, P.E. P.E. NO. 44153
DRAWING NO. 1452	REV.
SHEET NO. 3 OF 7	

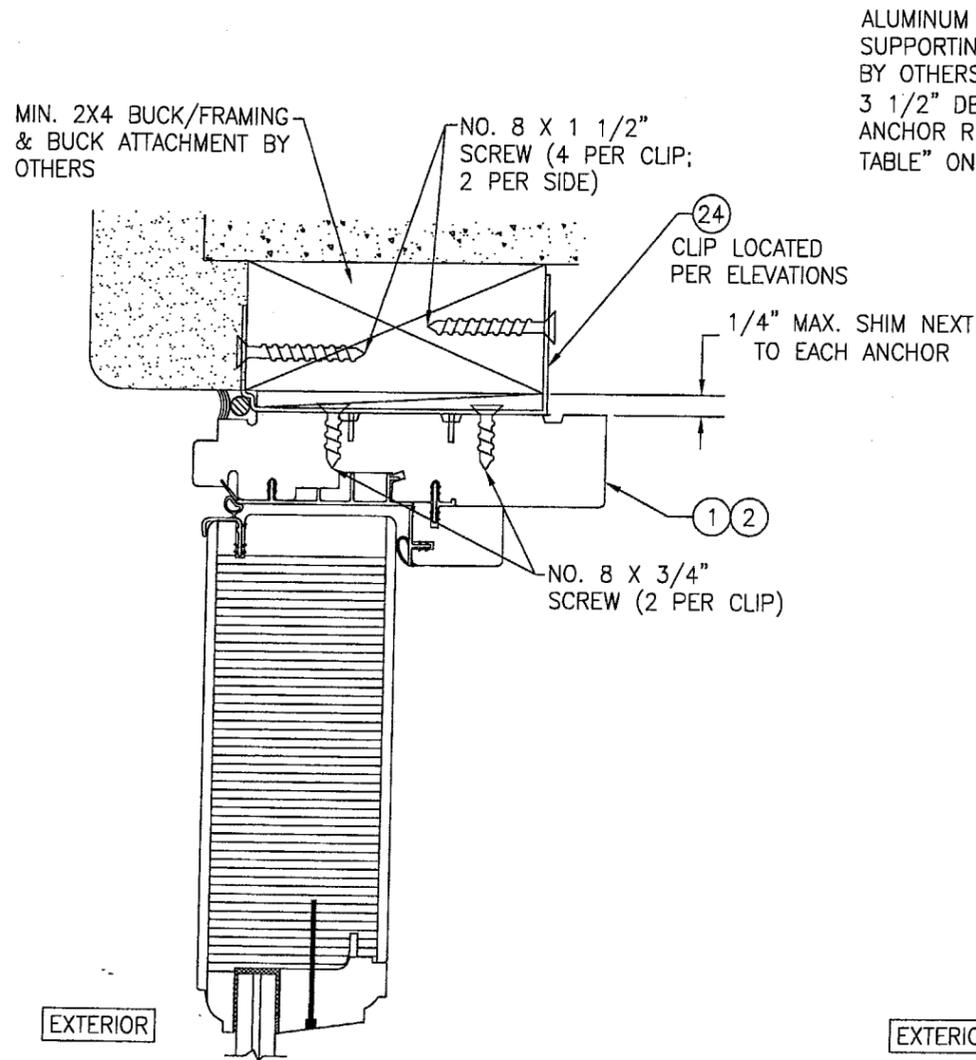
Approved as complying with the Florida Building Code
 Date 01/03/06
 NOAH 05-1012.03
 Miami Dade Product Control
 Division
 By *[Signature]*



**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)

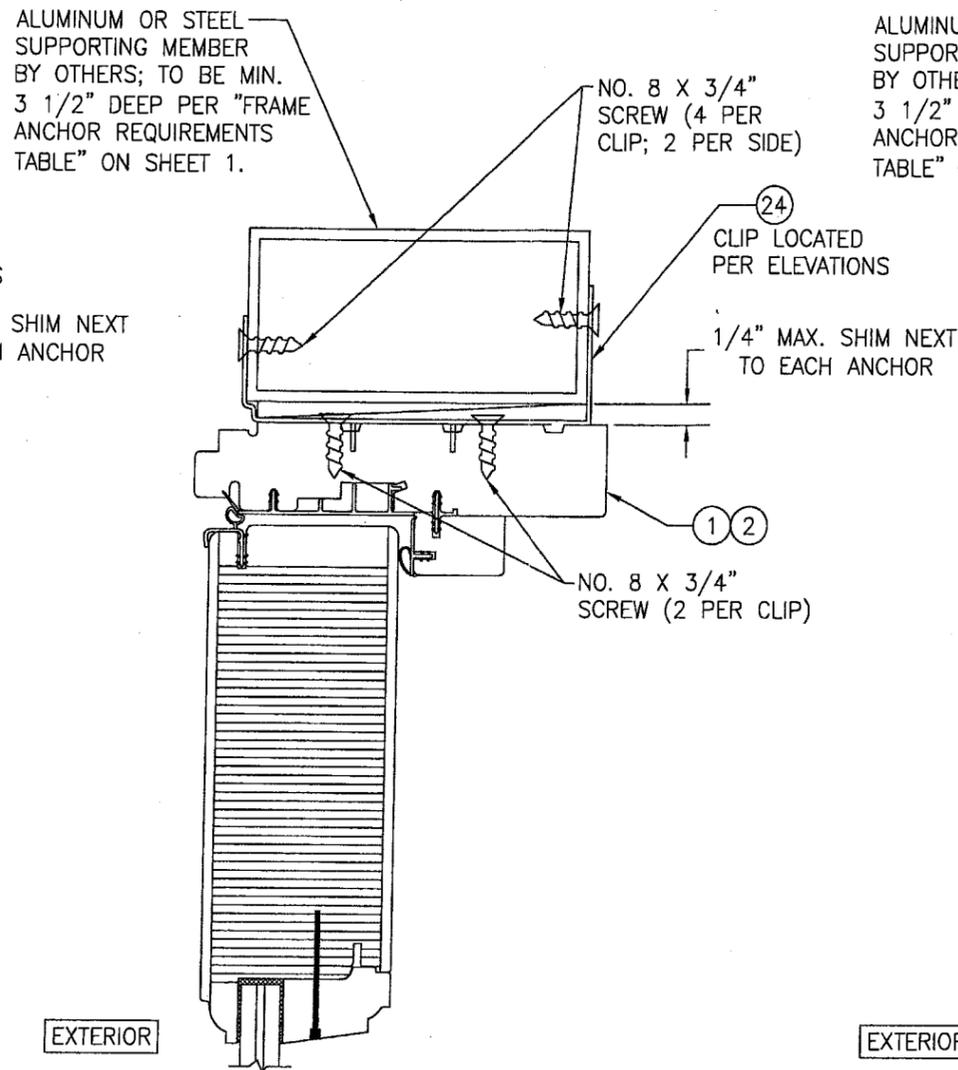
Approved as complying with the
Florida Building Code
Date 01/05/06
NOA# 05-1012.03
Miami-Dade Product Control
Division
By *W. Schaefer*

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 09/30/05	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: WOOD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER: MARVIN WINDOWS & DOORS	
8800 N. SANDWICH DRIVE, SUITE 203804 PALM BEACH GARDENS, FL 33408 PHONE: 561-775-4902 FAX: 561-775-4903		HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044	
CERTIFICATION OCT 07 2005			
DRAWING NO. 1452			
SHEET NO. 4 OF 7			



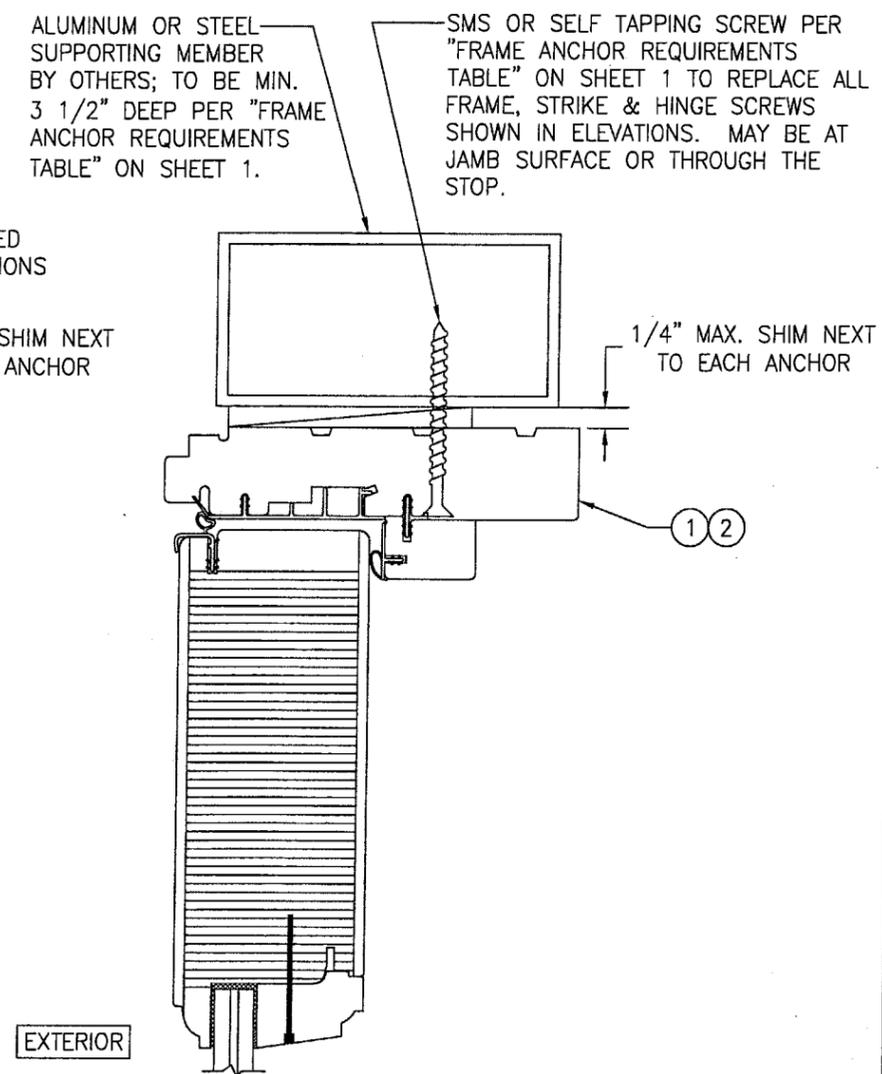
OPTIONAL CLIP MOUNT DETAIL AT HEAD AND SIDES

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



OPTIONAL CLIP MOUNT DETAIL TO ALUMINUM OR STEEL

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

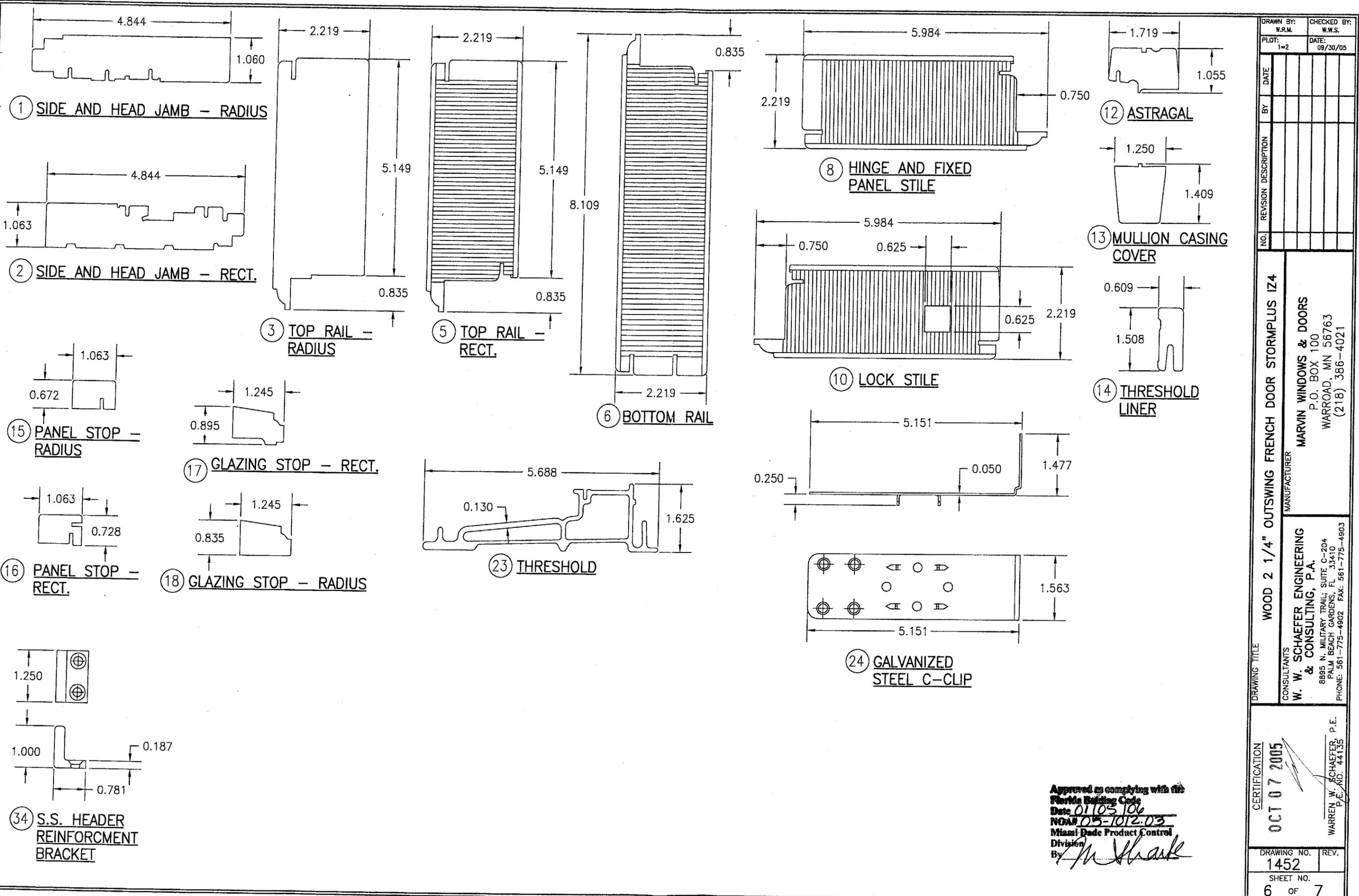


OPTIONAL DIRECT MOUNT DETAIL TO ALUMINUM OR STEEL

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

Approved as complying with the
Florida Building Code
Date 01/05/06
NOAH 05-1012.03
Miami Dade Product Control
Division
By *W. Schaefer*

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 09/30/05	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: WOOD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER: MARVIN WINDOWS & DOORS	
8800 ISLANDWAY DRIVE, SUITE 203004 PALM BEACH GARDENS, FL 33408		HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044	
PHONE: 561-775-4802		FAX: 561-775-4903	
CERTIFICATION	OCT 07 2005	WARREN W. SCHAEFER, P.E.	P.E. NO. 44135
DRAWING NO.	1452	REV.	
SHEET NO.	5	OF	7



DRAWN BY: W.R.M. CHECKED BY: W.W.S.
 PLOT: 1=2 DATE: 09/30/05

NO.	REVISION DESCRIPTION	DATE	BY

DRAWING TITLE: WOOD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4
 MANUFACTURER: MARVIN WINDOWS & DOORS
 P.O. BOX 100
 WARRAND, MN 56763
 (218) 386-4021

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: OCT 07 2005
 DRAWING NO. 1452
 SHEET NO. 6 OF 7
 P.E. WARREN W. SCHAEFER, P.E.
 NO. 44135

Approved in compliance with the Florida Building Code
 Date: 01/05/10
 NOA# 05-1012-03
 Miami Code Product Control
 Division
 By: *W. Schaefer*

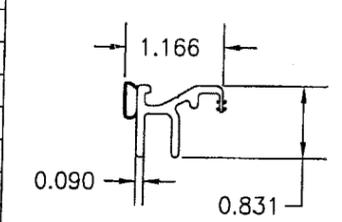
PARTS LIST

NO.	REF. NO.	DESCRIPTION	NOTES
PARTS & EXTRUSIONS			
1	00024511	SIDE & HEAD JAMB - RADIUS	*WOOD
2	00011673	SIDE & HEAD JAMB - RECT.	*WOOD
3	00033507	TOP RAIL - RADIUS	*WOOD (FINGER JOINTED)
5	00032950	TOP RAIL - RECT.	LVL WITH PINE VENEER
6	00033711	BOTTOM RAIL	LVL WITH PINE VENEER
8	00032950	HINGE & FIXED PANEL STILE	LVL WITH PINE VENEER
10	00033069	LOCK STILE	LVL WITH PINE VENEER
12	00016785	ASTRAGAL	*WOOD
13	00034006	MULLION CASING COVER	*WOOD
14	00011114	THRESHOLD LINER	OAK
15	00033356	PANEL STOP - RADIUS	*WOOD
16	00033026	PANEL STOP - RECT.	*WOOD
17	00033289	GLAZING STOP - RECT.	*WOOD
18	00033496	GLAZING STOP - RADIUS	*WOOD
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 MAY REPLACE FRAME FASTENERS PER ELEVATIONS.
25	00027022	S.S. BACKER PLATE	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	00037647	S.S. HEADER REINFORCEMENT PLATE	1 FOR EA. LOCK BAR (HEADER) 1.500 X 3.000 X .188 THK
34	00036001	S.S. HEADER REINFORCEMENT BRACKET	1 FOR EA. LOCK BAR (HEADER)
35	00013508	SILL WEATHERSTRIP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
36	00013510	ACTIVE PANEL SWEEP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
37	00013509	STATIONARY PANEL SWEEP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
38	00033357	FRAME WEATHERSTRIP - RADIUS	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
39	00033014	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.)

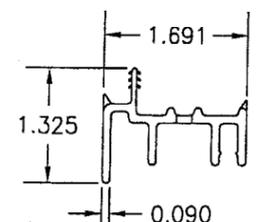
* ALL WOOD USED WITH TESTED UNITS IS MIN. GRADE 2 WESTERN PINE. ALTERNATE WOOD SPECIES TO PINE ARE MIN. GRADE 2 MAHOGANY, OAK, CHERRY, CYPRUS, & DOUGLAS FIR
NOTE: ALL WOOD IS RECEIVED BY MARVIN WINDOWS & DOORS AS GRADE 2, BUT IS MACHINED BY MARVIN TO A SELECT GRADE USE.

PARTS LIST

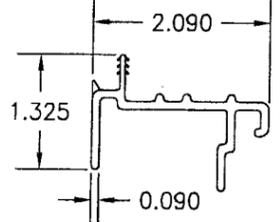
NO.	REF. NO.	DESCRIPTION	NOTES
FASTENERS			
44	-	NO. 12 X 1" S/STL SMS	2 PER HINGE INTO JAMB
45	-	NO. 12 X 1 1/2" S/STL SMS	4 PER HINGE INTO STILE
46	-	NO. 8 X 2 1/2" S/STL SMS	4" FROM CORNERS & MAX. 12" O.C.
47	-	NO. 8 X 3" S/STL SMS	1 PER SHOOT BOLT GUIDE INTO PANELS
48	-	NO. 8 X 1 1/2" P.H. S/STL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



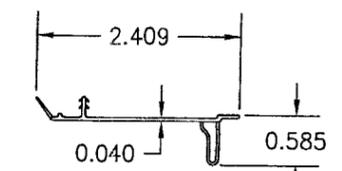
35 SILL WEATHERSTRIP



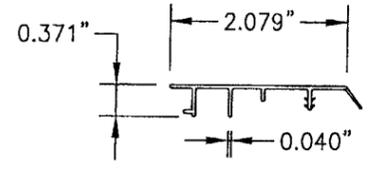
36 ACTIVE PANEL SWEEP



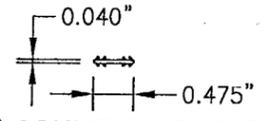
37 STATIONARY PANEL SWEEP



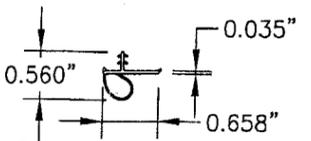
38 FRAME WEATHERSTRIP - RADIUS



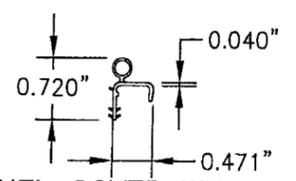
39 FRAME WEATHERSTRIP - RECT.



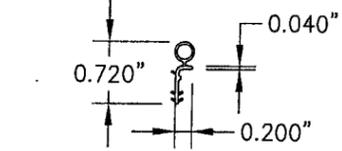
40 CONNECTING BARB



41 WEATHERSTRIP



42 PANEL COVER WEATHERSTRIP



43 PANEL WEATHERSTRIP

Approved as complying with the Florida Building Code
Date 01/03/06
NGAS 05-1012.03
Miami-Dade Product Control
Division
By *[Signature]*

DRAWN BY: W.R.M. CHECKED BY: W.W.S. PLOT: 1=2 DATE: 09/30/05	NO. REVISION DESCRIPTION BY DATE
DRAWING TITLE: WOOD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4	
MANUFACTURER: MARVIN WINDOWS & DOORS HIGHWAY 11; P.O. BOX 100 WARRIOR, MN 56763 800-346-5044	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8885 N. MILITARY TRAIL; SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION OCT 07 2005 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING NO. 1452 REV. SHEET NO. 7 OF 7