



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/pera/

NOTICE OF ACCEPTANCE (NOA)

Marvin Windows and Doors
Highway 11 West
P. O. Box 100
Warroad, MN 56763-0100

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 "Stormplus IZ4" 10 ft. Aluminum Clad Outswing Wood French Door - L.M.I.

APPROVAL DOCUMENT: Drawing No. 1397, "Clad 2¼-in. Outswing French Door Stormplus IZ4", sheets 1 through 8 of 8, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 09/28/2005 and latest revision "C1", dated 02/29/2012, 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 Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LIMITATIONS:

1. Only single fixed panel door is permitted with adhesive PL-400 (OSI) sealant without anchors.

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 No. 11-1019.06 and consists of this page 1, evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



J. Gascon
5/10/12

NOA No. 12-0308.32
Expiration Date: January 05, 2016
Approval Date: May 17, 2012
Page 1

Marvin Windows and Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA's No's. 08-0917.10 and 05-1012.02)
2. Drawing No. 1397, "Clad 2¼-in. Outswing French Door Stormplus IZ4", sheets 1 through 8 of 8, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 09/28/2005 and latest revision "C1", dated 02/29/2012, signed and sealed by Warren W. Schaefer, P. E.

B. TESTS

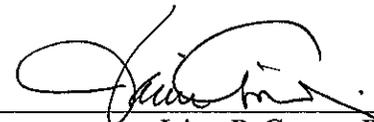
1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, Side-Hinged Door Systems, per FBC 2411 3.2.1, TAS 202-94 and per AAMA 1304-02

along with marked-up drawings and installation diagram of outswing wood doors, prepared by Architectural Testing, Inc., Test Report No. **ATI B3488.01-201-18**, dated 01/09/2012, signed and sealed by Shawn G. Collins, P. E.

2. 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, Side-Hinged Door Systems, per FBC 2411 3.2.1, TAS 202-94 and per AAMA 1304-02

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. **STCT 113-96398.1**, dated 07/18/2008, signed and sealed by Thomas Kolden, P. E.

(Submitted under previous NOA No.08-0917.10)



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 12-0308.32
Expiration Date: January 05, 2016
Approval Date: May 17, 2012

Marvin Windows and Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

3. 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, Side-Hinged Door Systems, per FBC 2411
3.2.1, TAS 202-94 and per AAMA 1304-02

along with the manufacturer's parts drawings, installation diagram and marked-up drawings of outswing wood doors, prepared by Architectural Testing, Inc., Test Report No. **ATI 58623.01-210-18**, dated 09/06/2005, signed and sealed by Joseph A. Reed, P. E.

(Submitted under previous NOA No.05-1012.02)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 06/10/2010, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No.10-0621.02)
2. **Glazing complies with ASTM E1300-98/ 04**

D. QUALITY ASSURANCE

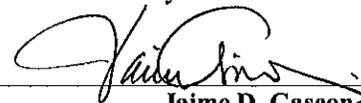
1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/26/2010, expiring on 01/14/17.

F. STATEMENTS

1. Statement letter of conformance and compliance with the FBC-2010 and ANSI/AAMA/ NWWDA 101/ I.S. 2-97, dated 02/29/2012 signed and sealed by Warren W. Schaefer, P. E.
2. Statement letter of independence and no financial interest, dated 02/29/2012, signed and sealed by Warren W. Schaefer, P. E.
3. Laboratory compliance letter for Test Report No. **ATI B3488.01-201-18**, issued by Architectural Testing, Inc., dated 01/09/2012, signed and sealed by Shawn G. Collins, P. E.



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 12-0308.32
Expiration Date: January 05, 2016
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Marvin Windows and Doors

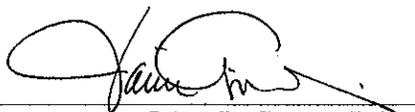
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

4. Laboratory addendum letter for Test Report No. **STCT 113-96398.1**, issued by Stork Twin City Testing Corp., dated 12/18/2008, signed and sealed by Thomas Kolden, P. E. *(Submitted under previous NOA No.08-0917.10)*
5. Laboratory compliance letter for Test Report No. **STCT 113-96398.1**, issued by Stork Twin City Testing Corp., dated 07/18/2008, signed and sealed by Thomas Kolden, P. E. *(Submitted under previous NOA No.08-0917.10)*
6. Proposal issued by BCCO, dated March 07, 2008, signed by Jaime D. Gascon, P. E. *(Submitted under previous NOA No.08-0917.10)*
7. Laboratory compliance letter for Test Report No. **ATI 58623.01-210-18** issued by Architectural Testing, Inc., dated 09/06/05, signed and sealed by Joseph A. Reed, P.E. *(Submitted under previous NOA No.05-1012.02)*

G. OTHERS

1. Notice of Acceptance No. **11-1019.06**, issued to Marvin Windows and Doors for their Series "Stormplus IZ4 10 ft. Aluminum Clad Outswing Wood French Doors - L.M.I.", approved on 11/24/2011 and expiring on 01/05/2016.



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 12-0308.32
Expiration Date: January 05, 2016
Approval Date: May 17, 2012

GENERAL NOTES:

1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & 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 & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
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 FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT DOORS.
5. 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).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE DOORS.
7. 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.
8. 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 PER THE ASCE-7 STANDARD.
9. 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.
10. 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.
11. 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.

HINGE QUANTITY TABLE

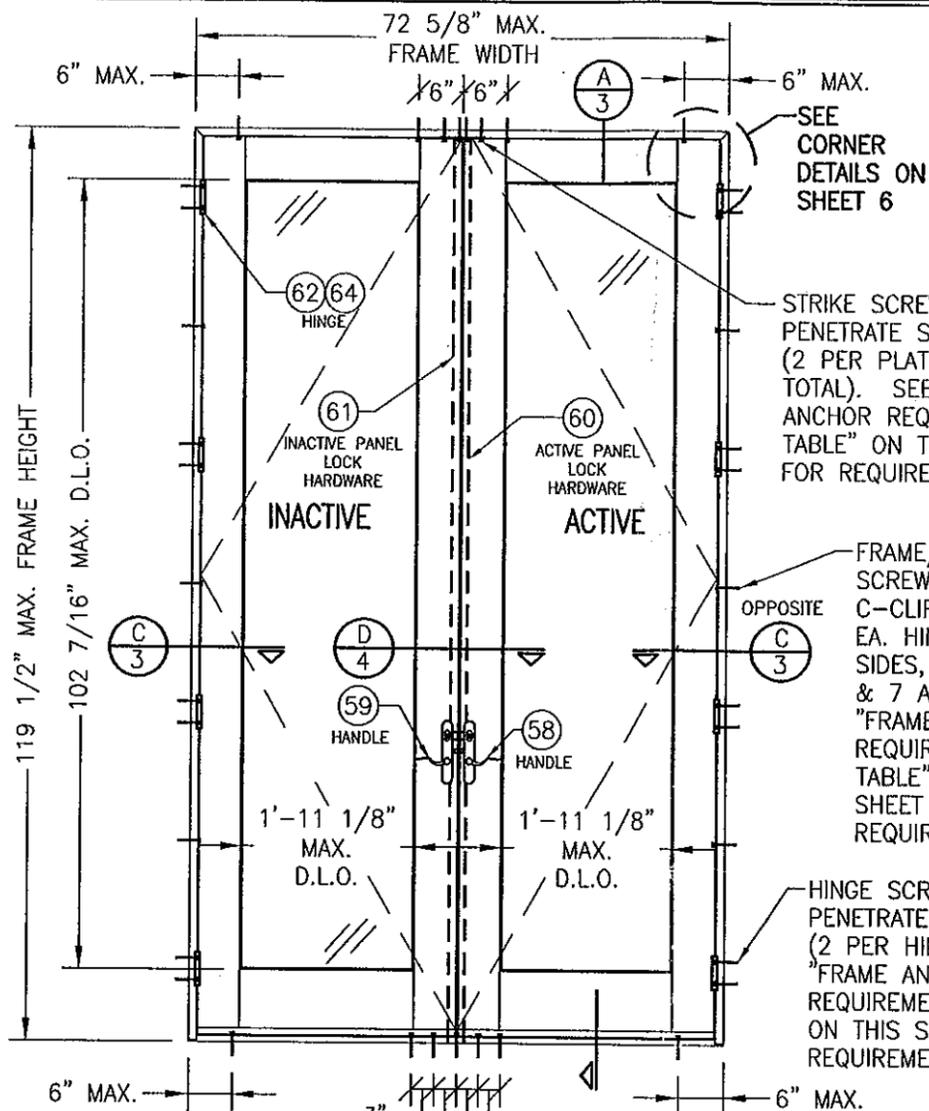
DOOR HEIGHT	QTY REQUIRED
LESS THAN 86"	3
86" & GREATER	4

HINGE CENTERS ARE APPROXIMATELY 8" FROM BOTTOM & 10 1/2" FROM TOP OF DOOR PANEL AND EQUALLY SPACED BETWEEN.

FRAME ANCHOR REQUIREMENTS TABLE

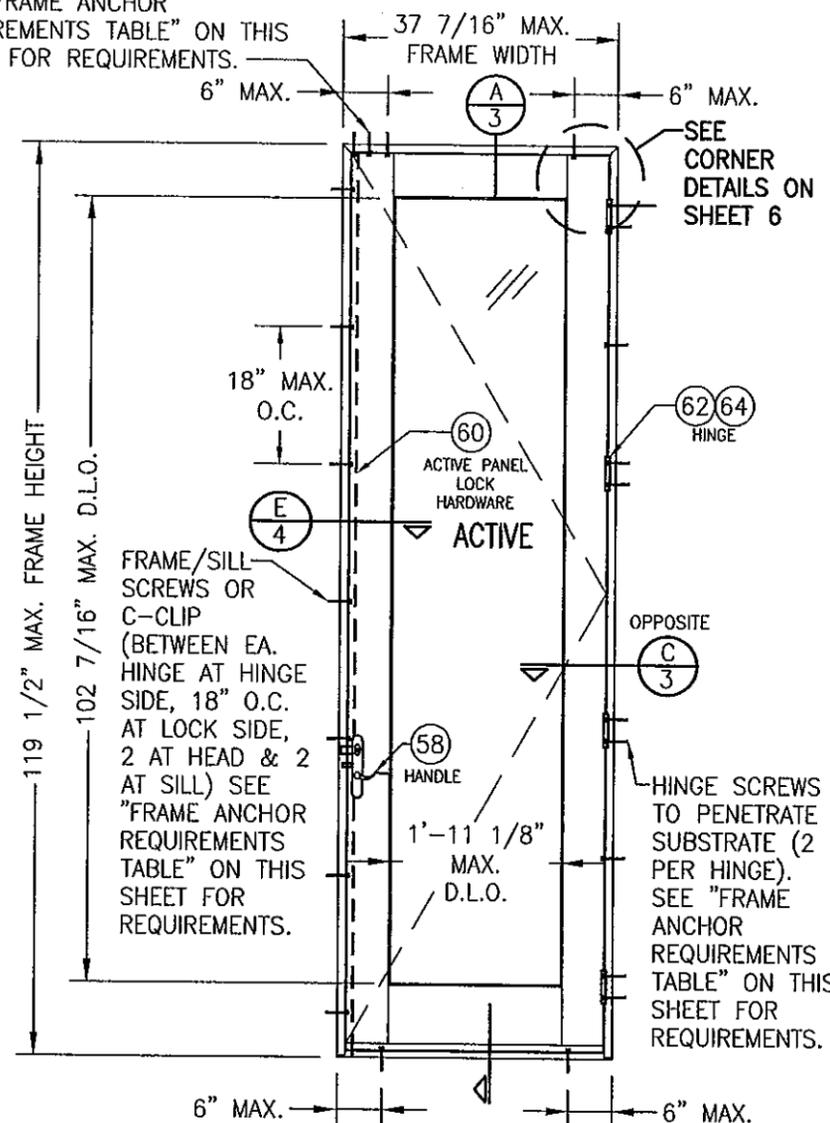
OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME/SILL SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2"
STRIKE SCREWS AT HEAD			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 2500 PSI CONCRETE	(1) 3/16" CONCRETE SCREW	1 1/2"	2"
HINGE SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 1/8" THK A36 STEEL	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU OR 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).



**EXTERIOR ELEVATION
DOUBLE RECTANGULAR
OUTSWING DOOR**

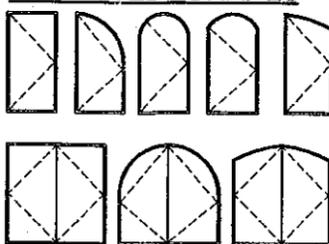
SCALE: 1/2" = 1'-0"



**EXTERIOR ELEVATION
SINGLE RECTANGULAR OUTSWING DOOR**

SCALE: 1/2" = 1'-0"

APPROVED SHAPES



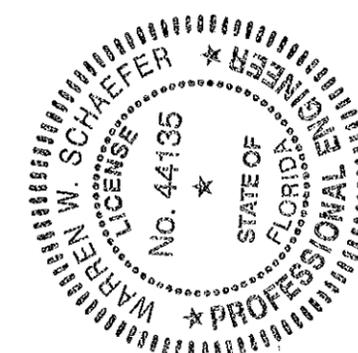
NOTES:

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.

**ALLOWABLE DESIGN PRESSURE
(ALL DOORS)**

FRAME HEIGHT GREATER THAN 95.5"	+62/-68 PSF
FRAME HEIGHT 95.5" & LESS	+65/-80 PSF

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. **12-0308.32**
Expiration Date **01/05/2016**
By *[Signature]*
Miami Dade Product Control



THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
DATE: 09/28/05	

NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE TO PRESENT STANDARDS	WRM	09/08/08
A2	UPDATE PART PROFILES	WRM	09/08/08
B1	UPDATE TO PRESENT STANDARDS	WRM	05/13/10
C1	ADD ADJUSTABLE HINGE	WRM	02/29/12

CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4

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

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

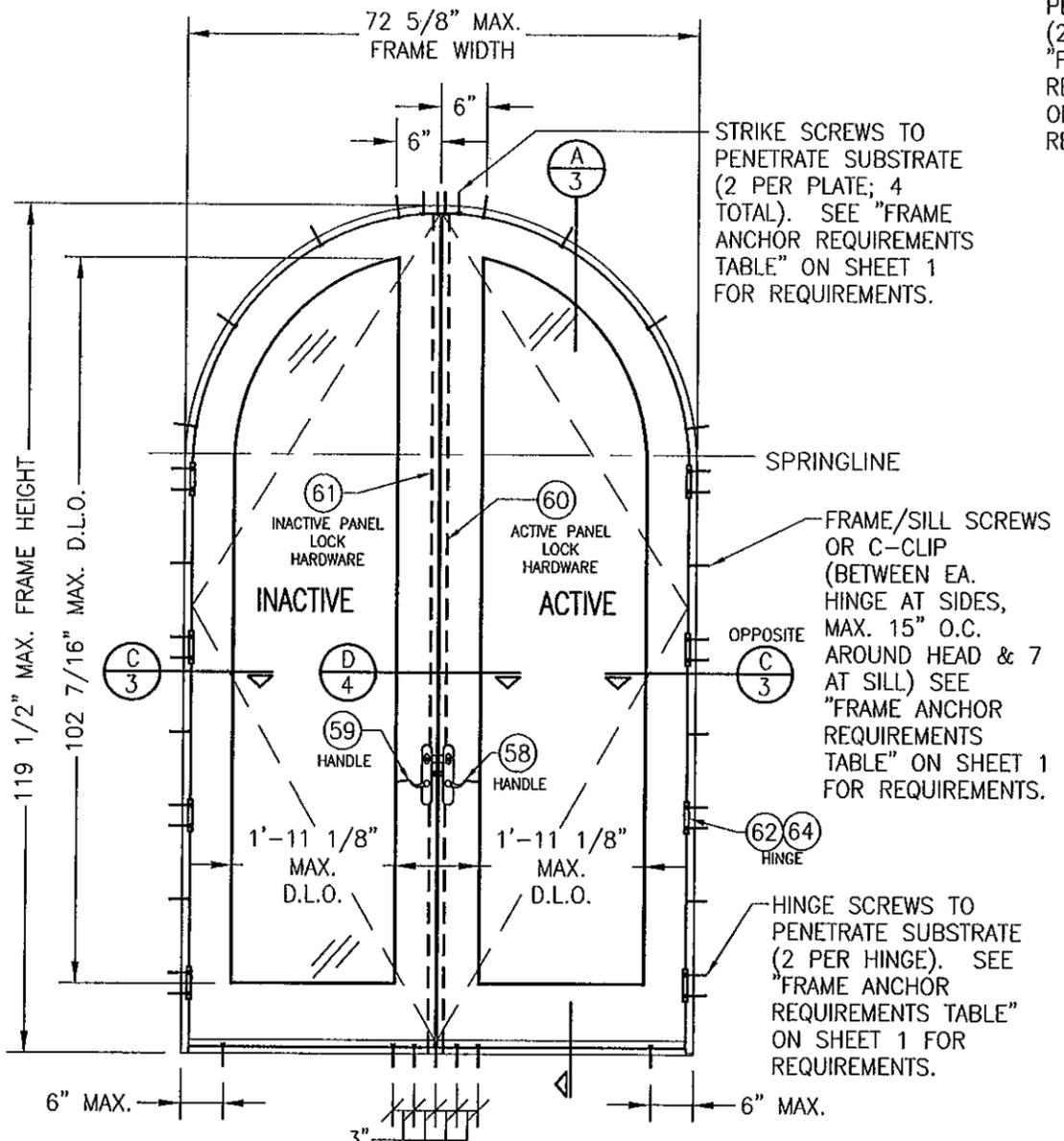
CERTIFICATION

FEB 29 2012

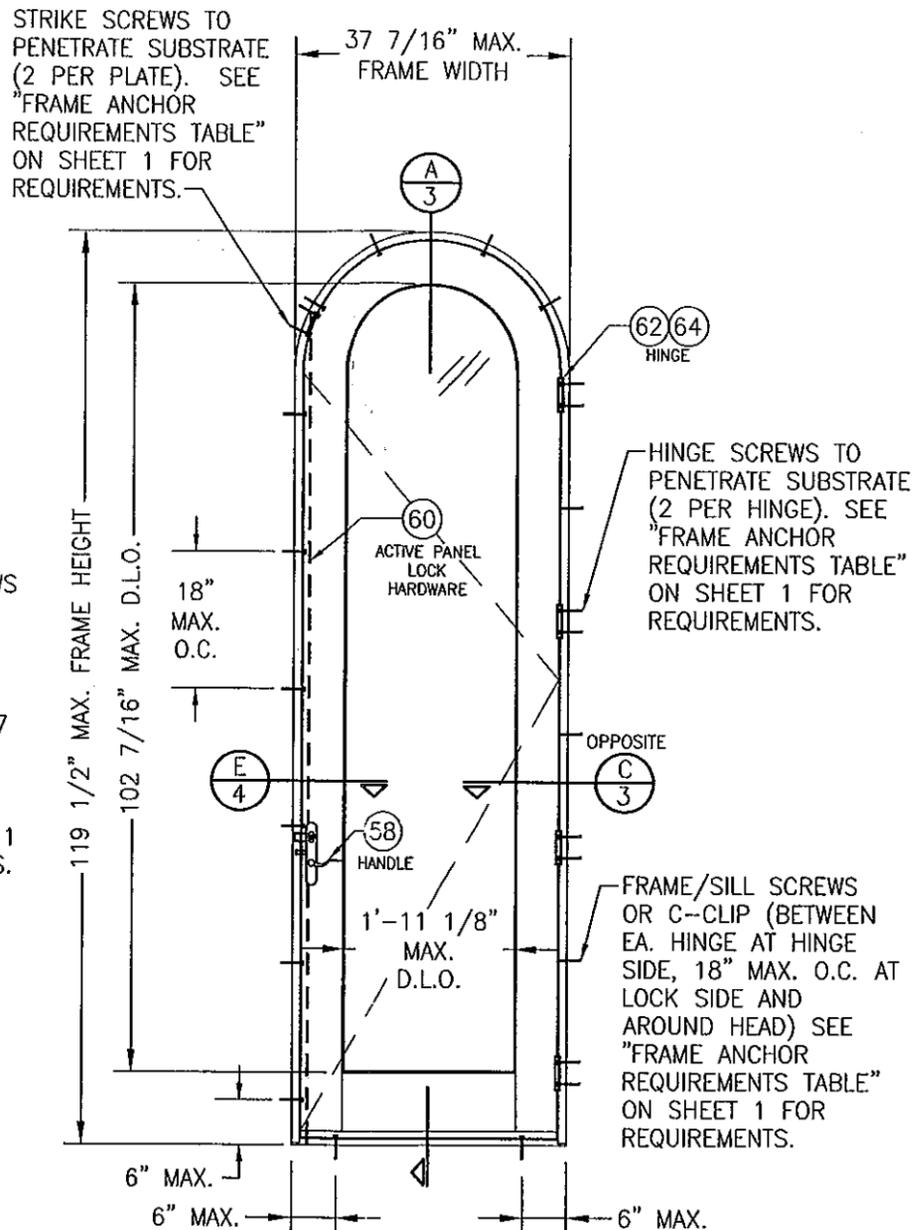
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. **1397** REV. **C**

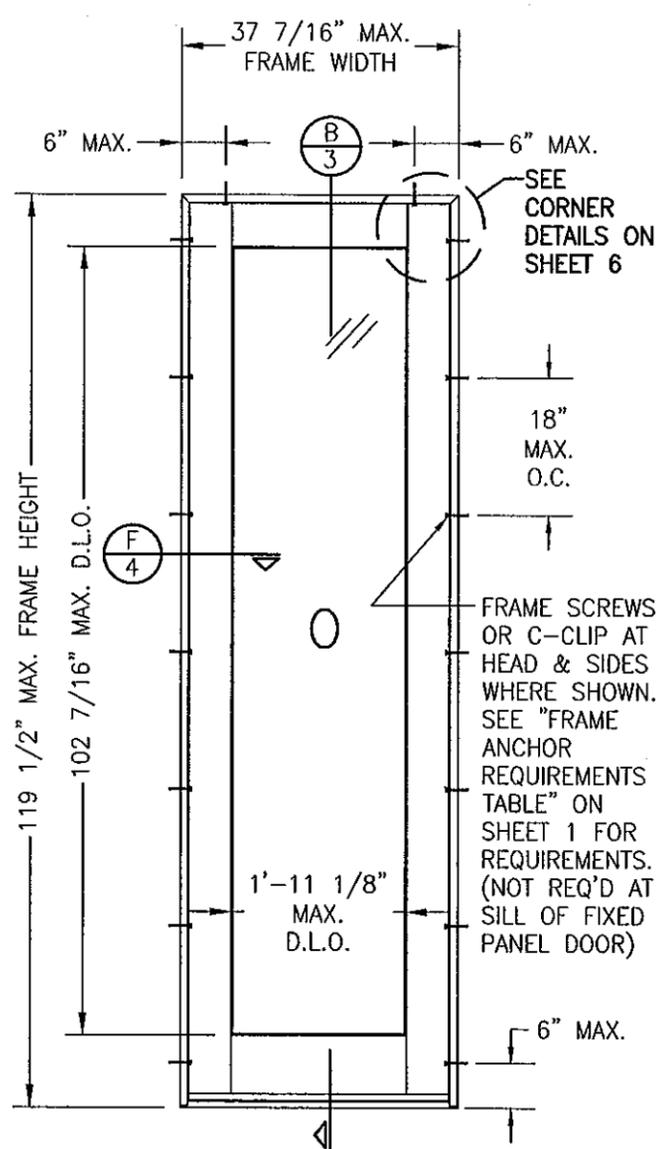
SHEET NO. **1** OF **8**



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



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

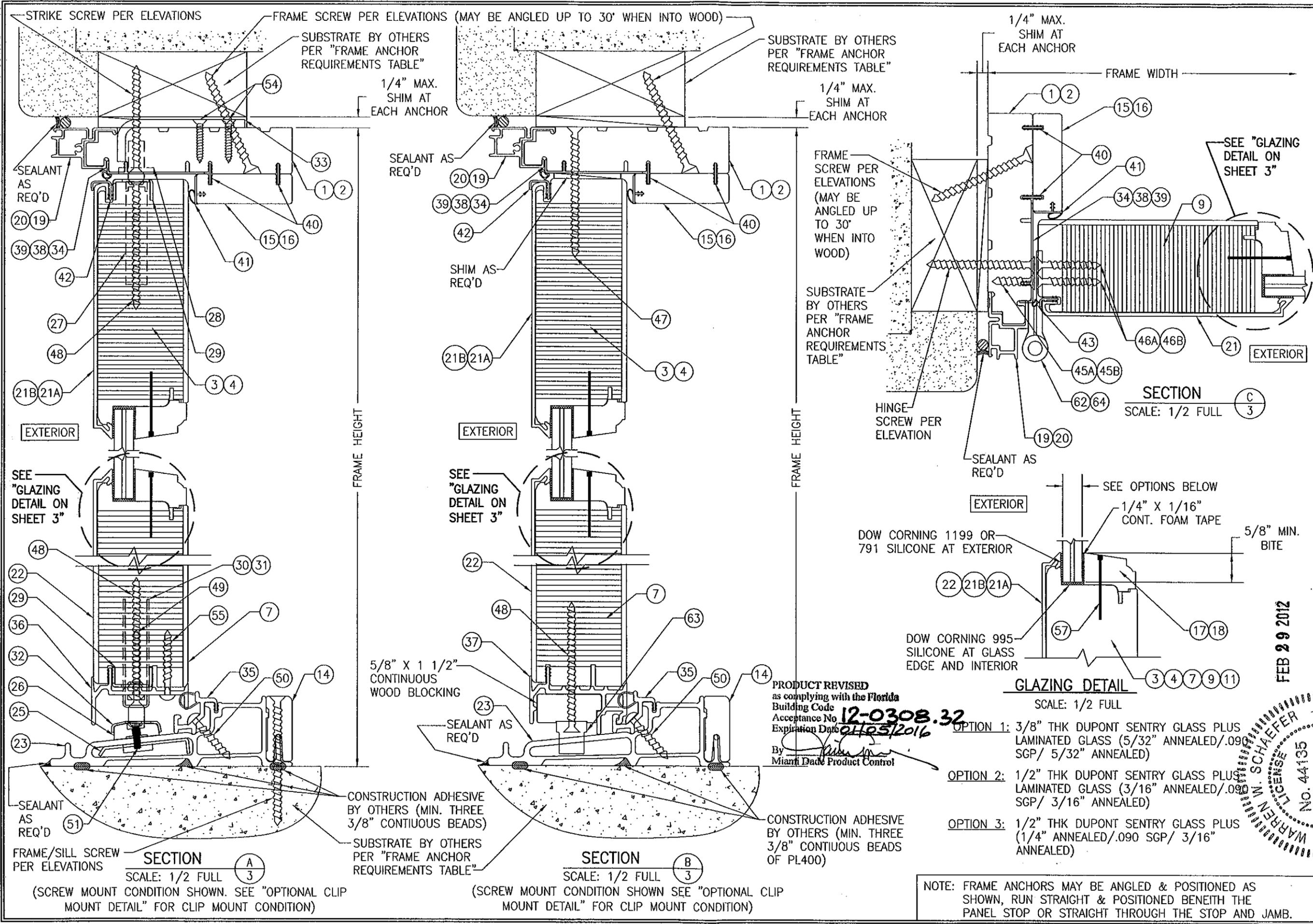


**EXTERIOR ELEVATION
SINGLE FIXED PANEL DOOR**
SCALE: 1/2" = 1'-0"
(RECTANGULAR DOOR SHOWN; SHAPES ALSO APPLY)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **12-0308.32**
Expiration Date **01/05/2016**
By *[Signature]*
Miami Dade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 09/28/05
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER MARVIN WINDOWS & DOORS HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044
CERTIFICATION FEB 29 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING NO. 1397
	REV. C
	SHEET NO. 2 OF 8



STRIKE SCREW PER ELEVATIONS

FRAME SCREW PER ELEVATIONS (MAY BE ANGLED UP TO 30° WHEN INTO WOOD)

SUBSTRATE BY OTHERS PER "FRAME ANCHOR REQUIREMENTS TABLE"

1/4" MAX. SHIM AT EACH ANCHOR

SEALANT AS REQ'D

20 19

39 38 34

42

41

15 16

40

27

28

29

3 4

21B 21A

EXTERIOR

SEE "GLAZING DETAIL ON SHEET 3"

48

22

29

36

32

26

25

23

30 31

49

55

7

35

50

14

SEALANT AS REQ'D

51

FRAME/SILL SCREW PER ELEVATIONS

SECTION A

SCALE: 1/2 FULL

(SCREW MOUNT CONDITION SHOWN. SEE "OPTIONAL CLIP MOUNT DETAIL" FOR CLIP MOUNT CONDITION)

SEALANT AS REQ'D

20 19

39 38 34

42

41

15 16

40

27

28

29

3 4

21B 21A

EXTERIOR

SEE "GLAZING DETAIL ON SHEET 3"

48

22

29

36

32

26

25

23

30 31

49

55

7

35

50

14

SEALANT AS REQ'D

23

5/8" X 1 1/2" CONTINUOUS WOOD BLOCKING

CONSTRUCTION ADHESIVE BY OTHERS (MIN. THREE 3/8" CONTINUOUS BEADS)

SUBSTRATE BY OTHERS PER "FRAME ANCHOR REQUIREMENTS TABLE"

SECTION B

SCALE: 1/2 FULL

(SCREW MOUNT CONDITION SHOWN SEE "OPTIONAL CLIP MOUNT DETAIL" FOR CLIP MOUNT CONDITION)

1/4" MAX. SHIM AT EACH ANCHOR

FRAME WIDTH

1 2

15 16

40

41

34 38 39

9

SEE "GLAZING DETAIL ON SHEET 3"

43

46A 46B

21

EXTERIOR

45A 45B

62 64

19 20

SEALANT AS REQ'D

EXTERIOR

SEE OPTIONS BELOW

1/4" X 1/16" CONT. FOAM TAPE

5/8" MIN. BITE

22 21B 21A

57

17 18

DOW CORNING 1199 OR 791 SILICONE AT EXTERIOR

DOW CORNING 995 SILICONE AT GLASS EDGE AND INTERIOR

GLAZING DETAIL

SCALE: 1/2 FULL

OPTION 1: 3/8" THK DUPONT SENTRY GLASS PLUS LAMINATED GLASS (5/32" ANNEALED/.090 SGP/ 5/32" ANNEALED)

OPTION 2: 1/2" THK DUPONT SENTRY GLASS PLUS LAMINATED GLASS (3/16" ANNEALED/.090 SGP/ 3/16" ANNEALED)

OPTION 3: 1/2" THK DUPONT SENTRY GLASS PLUS (1/4" ANNEALED/.090 SGP/ 3/16" ANNEALED)

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 12-0308.32 Expiration Date 01/05/2016

By Warren W. Schaefer, P.E. Miami Dade Product Control

CONSTRUCTION ADHESIVE BY OTHERS (MIN. THREE 3/8" CONTINUOUS BEADS OF PL400)

SECTION C

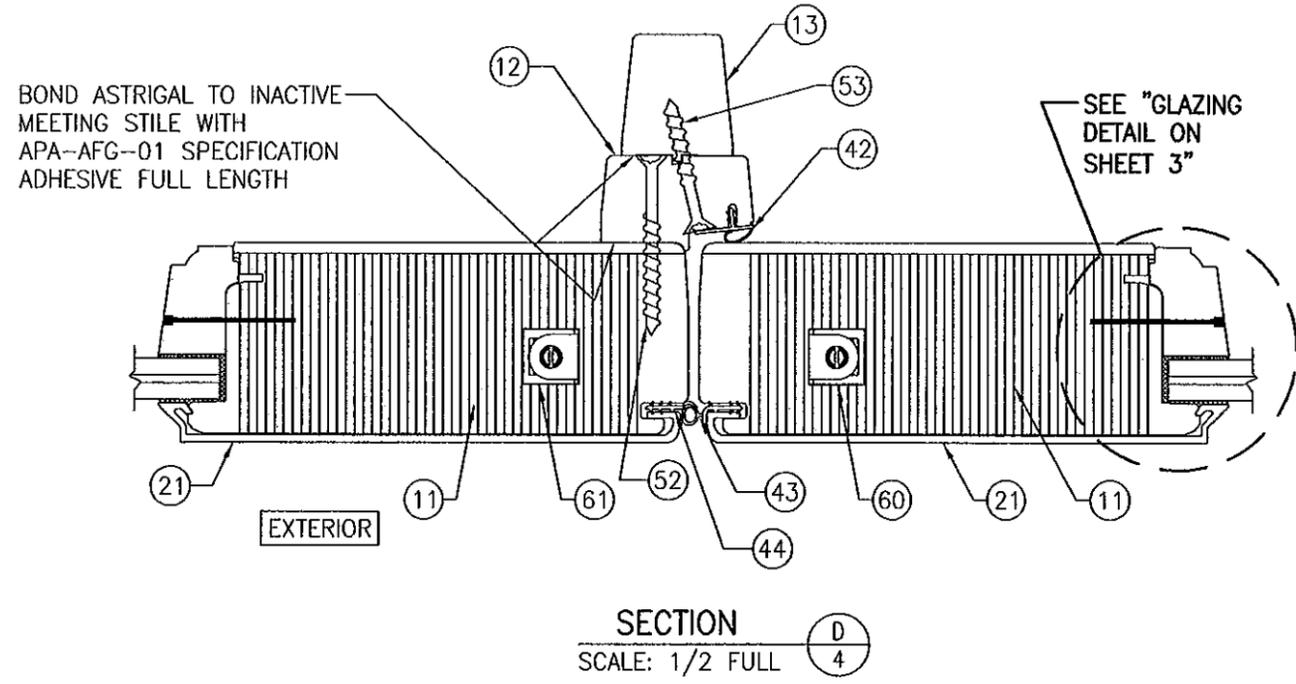
SCALE: 1/2 FULL

(SCREW MOUNT CONDITION SHOWN SEE "OPTIONAL CLIP MOUNT DETAIL" FOR CLIP MOUNT CONDITION)

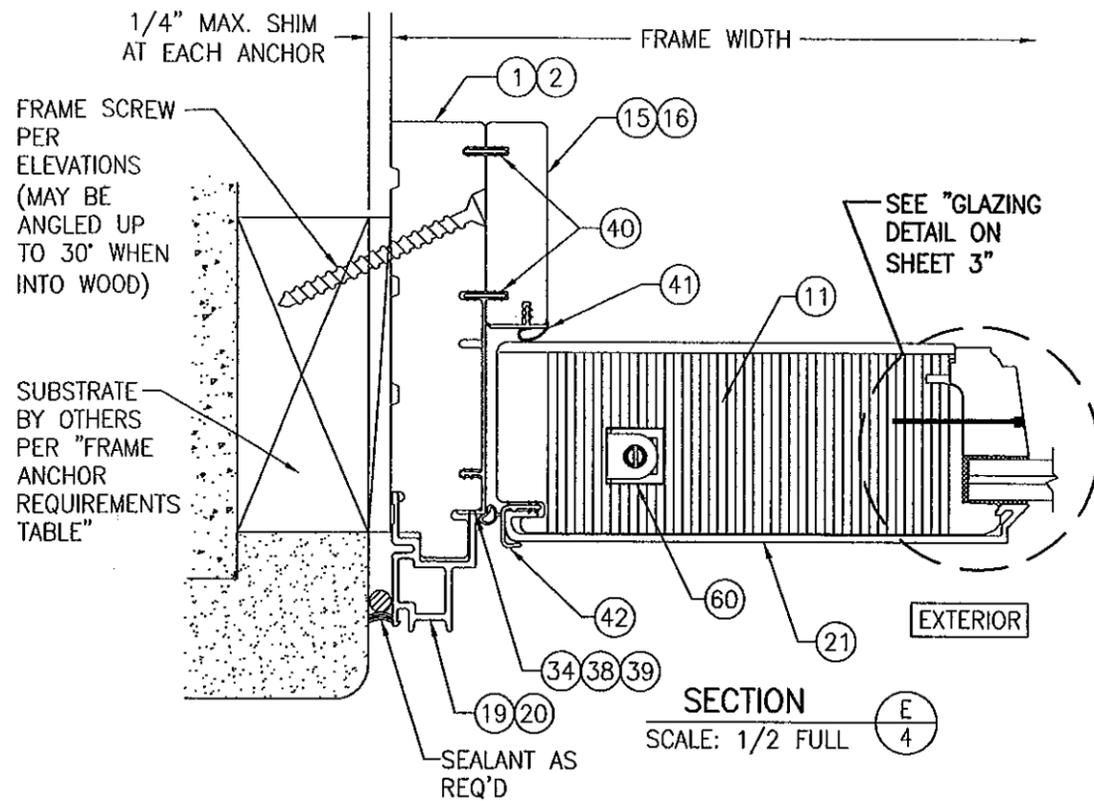
NOTE: FRAME ANCHORS MAY BE ANGLED & POSITIONED AS SHOWN, RUN STRAIGHT & POSITIONED BENEITH THE PANEL STOP OR STRAIGHT THROUGH THE STOP AND JAMB.

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 09/28/05
REVISION DESCRIPTION	DATE
NO.	
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. SCHAEFER ENGINEERING & CONSULTING, P.A. 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1397	REV. C
SHEET NO. 3	OF 8

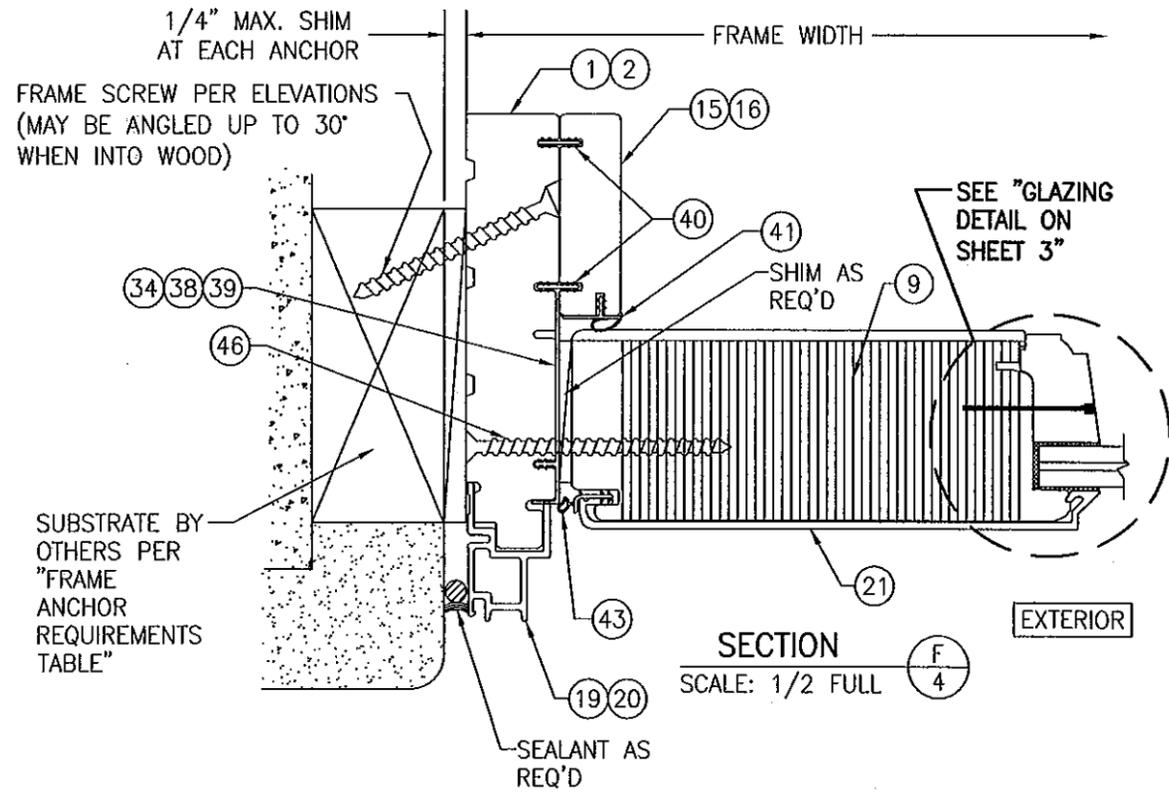
FEB 29 2012



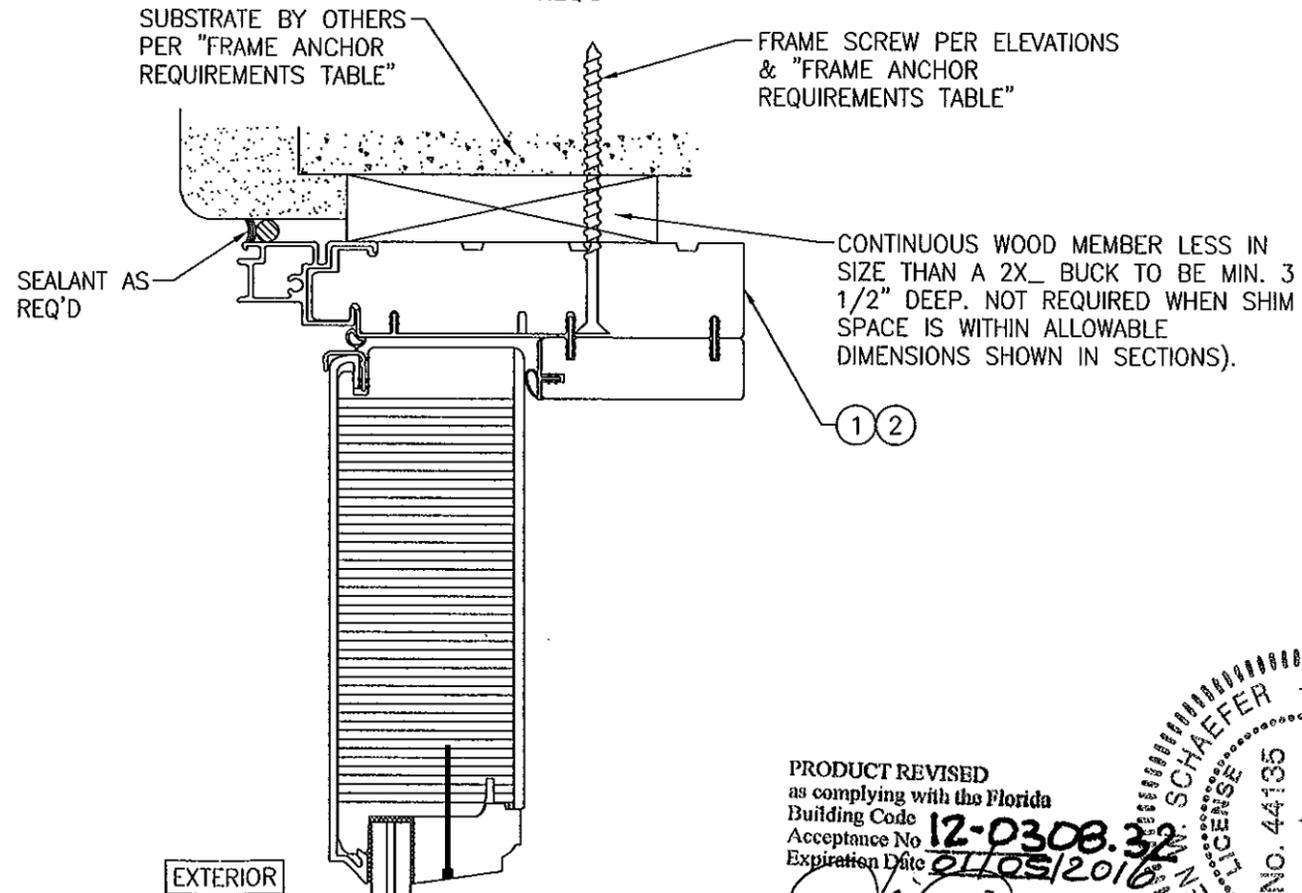
SECTION D
SCALE: 1/2 FULL



SECTION E
SCALE: 1/2 FULL



SECTION F
SCALE: 1/2 FULL

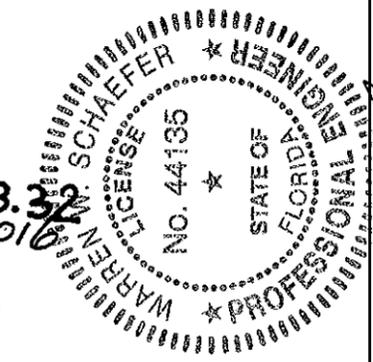


EXTERIOR

NOTE: FRAME ANCHORS MAY BE ANGLED & POSITIONED AS SHOWN, RUN STRAIGHT & POSITIONED BENEATH 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. 12-0308.32
Expiration Date 01/03/2010
By Warren W. Schaefer
Miami Dade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 09/28/05
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE: CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4	
CONSULTANTS	MANUFACTURER
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MARVIN WINDOWS & DOORS HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044
CERTIFICATION	
FEB 29 2012	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1397	REV. C
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)

CLIP LOCATED PER ELEVATIONS

1/4" MAX. SHIM NEXT TO EACH ANCHOR

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)

CLIP LOCATED PER ELEVATIONS

1/4" MAX. SHIM NEXT TO EACH ANCHOR

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.

CLIP LOCATED PER ELEVATIONS

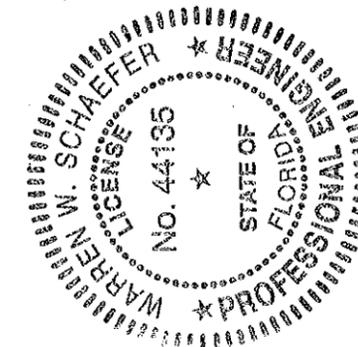
1/4" MAX. SHIM NEXT TO EACH ANCHOR

EXTERIOR

OPTIONAL DIRECT MOUNT DETAIL TO ALUMINUM OR STEEL

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

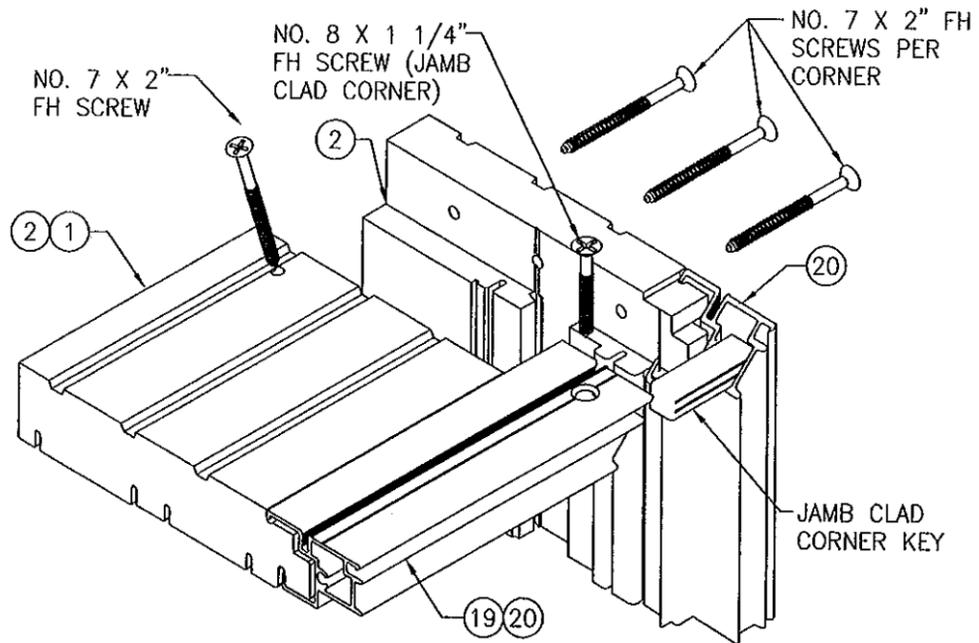
PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. **12-0308.32**
Expiration Date **07/06/2016**
By *[Signature]*
Miami Dade Product Control



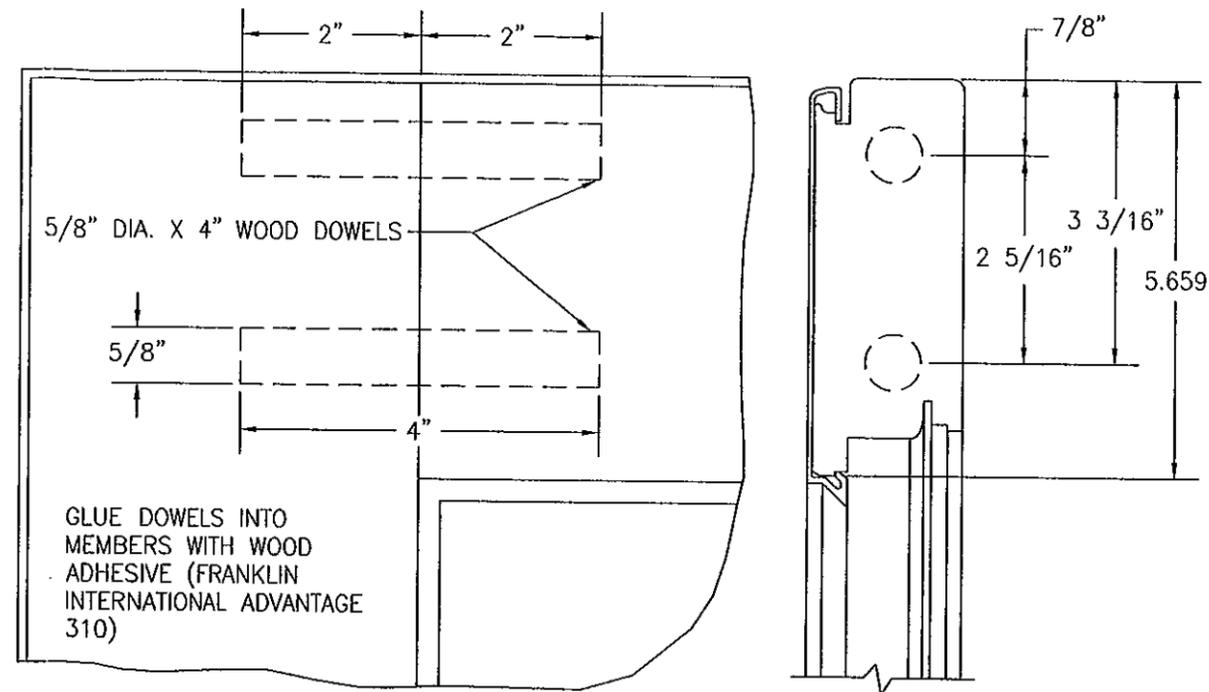
DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLOT:	1=2	DATE:	09/28/05
NO.		REVISION DESCRIPTION	
BY		DATE	

DRAWING TITLE	CLAD 2 1/4" OUTSWING FRENCH DOOR STORMPLUS IZ4
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424
MANUFACTURER	MARVIN WINDOWS & DOORS HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044

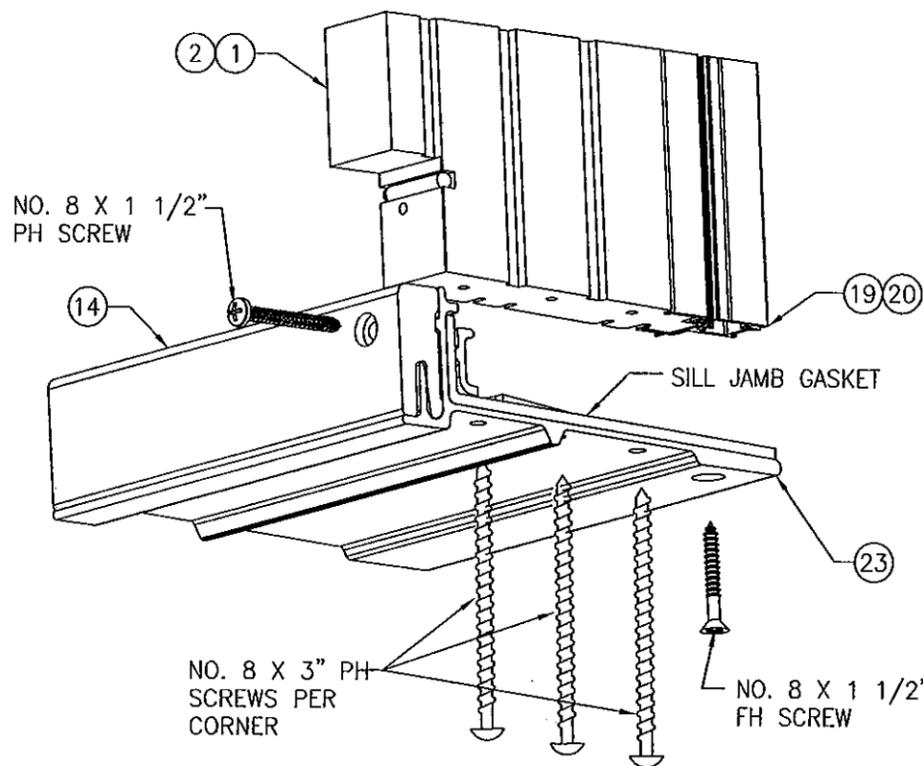
CERTIFICATION	<i>[Signature]</i>
DRAWING NO.	1397
REV.	C
SHEET NO.	5 OF 8



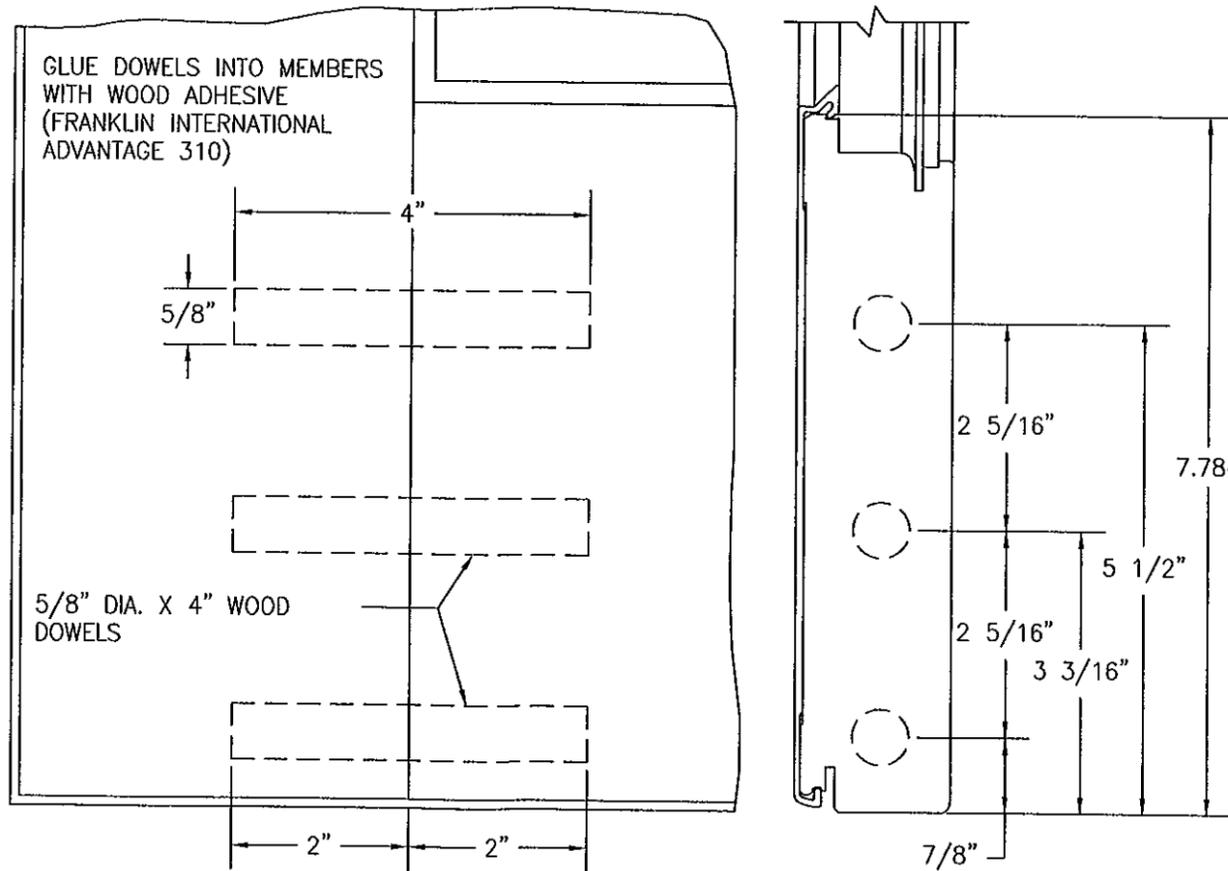
JAMB TO JAMB CORNER DETAIL



STILE TO TOP RAIL CORNER DETAIL

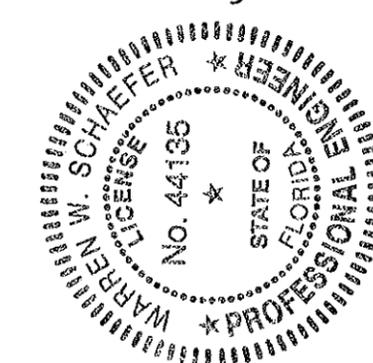


JAMB TO THRESHOLD CORNER DETAIL

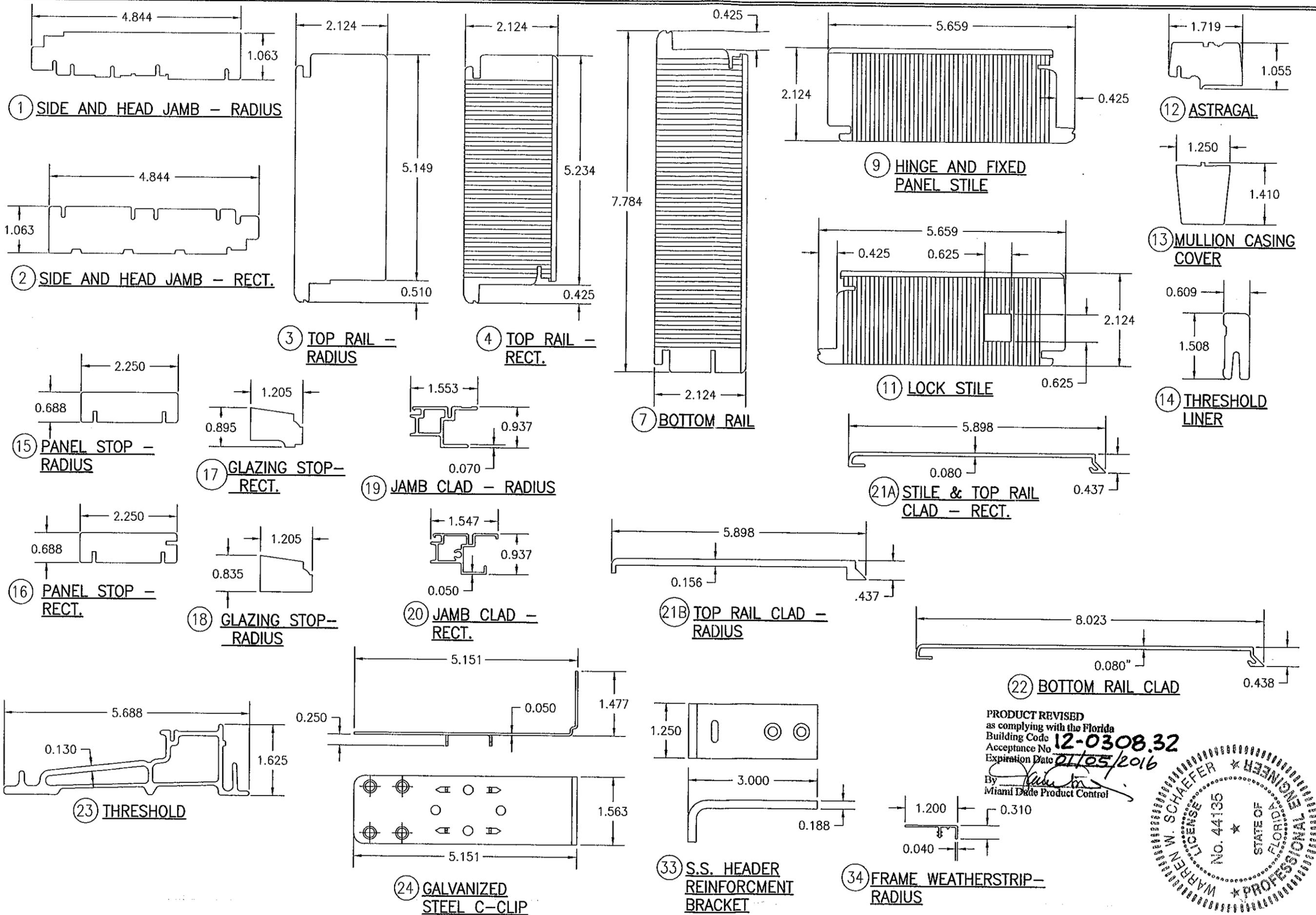


STILE TO BOTTOM RAIL CORNER DETAIL
SIMILAR AT WIDE BOTTOM RAIL EXCEPT 4 DOWELS ARE USED

PRODUCT REVISED
as complying with the Florida
Building Code **12-0308.32**
Acceptance No
Expiration Date **01/05/2016**
By *[Signature]*
Miami Trade Product Control



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. SCHAEFFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER: MARVIN WINDOWS & DOORS	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044	
CERTIFICATION: <i>[Signature]</i>		FEB 29 2012	
DRAWING NO. 1397		REV. C	
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	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	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		P.O. BOX 100 WARROAD, MN 56763 (218) 386-4021	
CERTIFICATION		FEB 9 2012	
WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1397		REV. C	
SHEET NO. 7		OF 8	

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **12-0308.32**
Expiration Date **01/05/2016**
By *[Signature]*
Miami Dade Product Control

