



**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.buildingcodeonline.com**

**NOTICE OF ACCEPTANCE (NOA)**

**Marvin Windows & Doors.  
Highway 11, 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: HP Series Outswing Aluminum Clad Wood French Doors w/wo Sidelites-Impact**

**APPROVAL DOCUMENT:** Drawing No. **1034-Rev A**, titled "Clad Outswing French Door Impact HP" dated 04-02-01, last revised on Jan 22, 2006, sheets 1 through 8 of 8, prepared by W. W. Schaefer Engineering & Consultant, P. A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control 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 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 **renews # 05-0815.10** and consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.

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



*J. Gascon  
1/25/07*

**NOA No 07-0123.07  
Expiration Date: January 03, 2008  
Approval Date: February 15, 2007  
Page 1**

**Marvin Windows & Doors**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS (transferred from file # 01-0502.09)**

1. Manufacturer's parts & sections drawings.
2. Drawing No. **1034-Rev A1**, titled "Clad Outswing French Door Impact HP" dated 04-02-01, last revised on Jan 22, 2006, sheets 1 through 8 of 8, prepared by W. W. Schaefer Engineering & Consultant, P. A., signed and sealed by Warren W. Schaefer, P.E.

**B. TESTS (transferred from file # 01-0502.09)**

1. Test reports on 1) Air Infiltration Test, per PA 202-94
  - 2) Uniform Static Air Pressure Test, Loading per PA 202-94
  - 3) Water Resistance Test, per PA 202-94
  - 4) Forced Entry Resistance Test, per SFBC 3603.2 (b)(5) and PA 202-94
  - 5) Large Missile Impact Test, SFBC PA 201-94
  - 6) Cyclic Loading Test, per SFBC PA 203-94along with marked-up drawings and installation diagram of aluminum clad outswing wood French door, prepared by Fenestration Testing Laboratory, Inc. Test Reports No. FTL 79-2996, FTL 79-2997, FTL 79-2998, and FTL 79-2994, all dated 03/16/01, reviewed, signed and sealed by Luis Figueredo, P. E.

**C. CALCULATIONS**

1. Anchor verification calculations, complying w/ FBC-2004, dated Nov. 02, 2005 and last revised on Jan 22, 2006, prepared by W. W. Schaefer Engineering & Consultant, P.A., signed and sealed by Warren W. Schaefer, P.E.
2. Anchor verification calculations dated 04-05-01, last revised on 08-01-01, prepared by W. W. Schaefer Engineering & Consultant, P.A., signed & sealed by Warren W. Schaefer, P.E. (transferred from file # 01-0502.09)

**D. MATERIAL CERTIFICATIONS (transferred from file # 01-0502.09)**

1. Test Report No. **Project 18-0-0758.3** dated 4-19-01, issued by Stork, Twin City Testing Corporation for "**Fiber glass reinforced Plastic**", **4500 Hours Xenon Arch** exposed (painted & unpainted) samples issued to **Tecton products Inc**, tested per ASTM G26-95 and ASTM D-638-96, signed and sealed by Derick J. Swanson, P. E.
2. Test Report No. **Project 18-0-0758** dated 11-29-00, issued by Stork, Twin City Testing Corporation for "**Fiber glass reinforced Plastic**", **1000 Hours Xenon Arch** exposed (painted & unpainted) samples issued to **Tecton products Inc**, tested per ASTM G26-95 and ASTM D-638-96, signed and sealed by Derick J. Swanson, P. E.
3. Test report No. **Project 18-0-0758 2** dated 11-08-00, issued by Stork, Twin City Testing Corporation, issued to **Tecton products Inc** for "**Fiber glass reinforced plastic**" sample tested for "self ignition" per ASTM 1929D, and for "Smoke density" per ASTM D-2843-93, signed & sealed by Derick J. Swanson, P. E.



Jaime D. Gascon, P.E.  
Chief, Product Control Division  
NOA No 07-0123.07  
Expiration Date: January 03, 2008  
Approval Date: February 15, 2007

## Marvin Windows & Doors

### NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

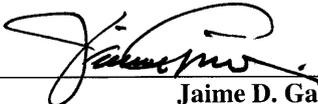
4. Test report No. **Project 18-0-0758 2** dated 11-08-00, issued by Stork, Twin City Testing Corporation, issued to **Tecton products Inc** for “**Fiber glass reinforced plastic**” sample tested for “self ignition” per ASTM 1929D, and for “Smoke density” per ASTM D-2843-93, signed & sealed by Derick J. Swanson, P. E. .
5. Test report No. **Project 18-0-0758 1** dated 11-08-00, issued by Stork, Twin City Testing Corporation to **Tecton products Inc** for “**Fiber glass reinforced Plastic**” samples tested for “Rate of Burning” per ASTM D635-97, signed & sealed by Derick J. Swanson, P. E. .(\* Note: sample identification pending)
6. Test report No. **Project 18-0-0796** dated 11-16-00, issued by Stork, Twin City Testing Corp, issued to **Marwin Windows Inc** for “**Geon 06935-3490**” sample tested for “Rate of burning” per ASTM D635, signed & sealed by Derick J. Swanson, P. E.
7. Test report No. **Project 18-0-0796 2** dated 11-16-00, issued by Stork, Twin City Testing Corporation, issued to **Marwin Windows Inc** for “**Geon 06935-3490**” sample tested for “Smoke density” per ASTM D2843-93 and “self ignition” per ASTM 1929D, signed & sealed by Derick J. Swanson, P. E. .
8. Photo copies Test report No. **147520.1 thru 4** dated October 27, 2000, issued by SGS US Testing corporation to Stork, Twin City Testing Corporation, for”180-0758 (painted & unpainted) sample tested for “self ignition” per ASTM 1929D, and for “Smoke density” per ASTM D-2843-93, signed by Michael S. Elliot.
9. Letters issued by Marvin Windows, Stoke Testing lab and Tecton corp., identifying samples tested for smoke density, self ignition, rate of burning and xenon arc weathering.
10. Notice of Acceptance No. 03-0417.01, issued to Cardinal DGP for “SeaStorm Type B” laminated glass, expiring 12-30, 2007.

#### **E. STATEMENTS (transferred from file # 01-0502.09)**

1. Statement letter of anchor verification complying to FBC2004, dated August 02, 2005, issued, signed and sealed by Warren W. Schaefer, P.E
2. Statement letter of conformance and “No financial interest”, dated April 05, 2001, signed and sealed by Warren W. Schaefer, P.E.
3. Statement letter of compliance by test lab, as part of the Test Reports No’s . FTL 79-2996, FTL, 79- 2997, FTL 79- 2998, and FTL 79-2994, all dated 03/16/01, issued by Fenestration Testing Laboratory Inc., reviewed, signed & sealed by Luis Figueredo, P. E.
4. Letter of certification, issued by Marvin Windows, identifying glazing used with the tested units, signed and sealed by Stephen Fisher, P. E.

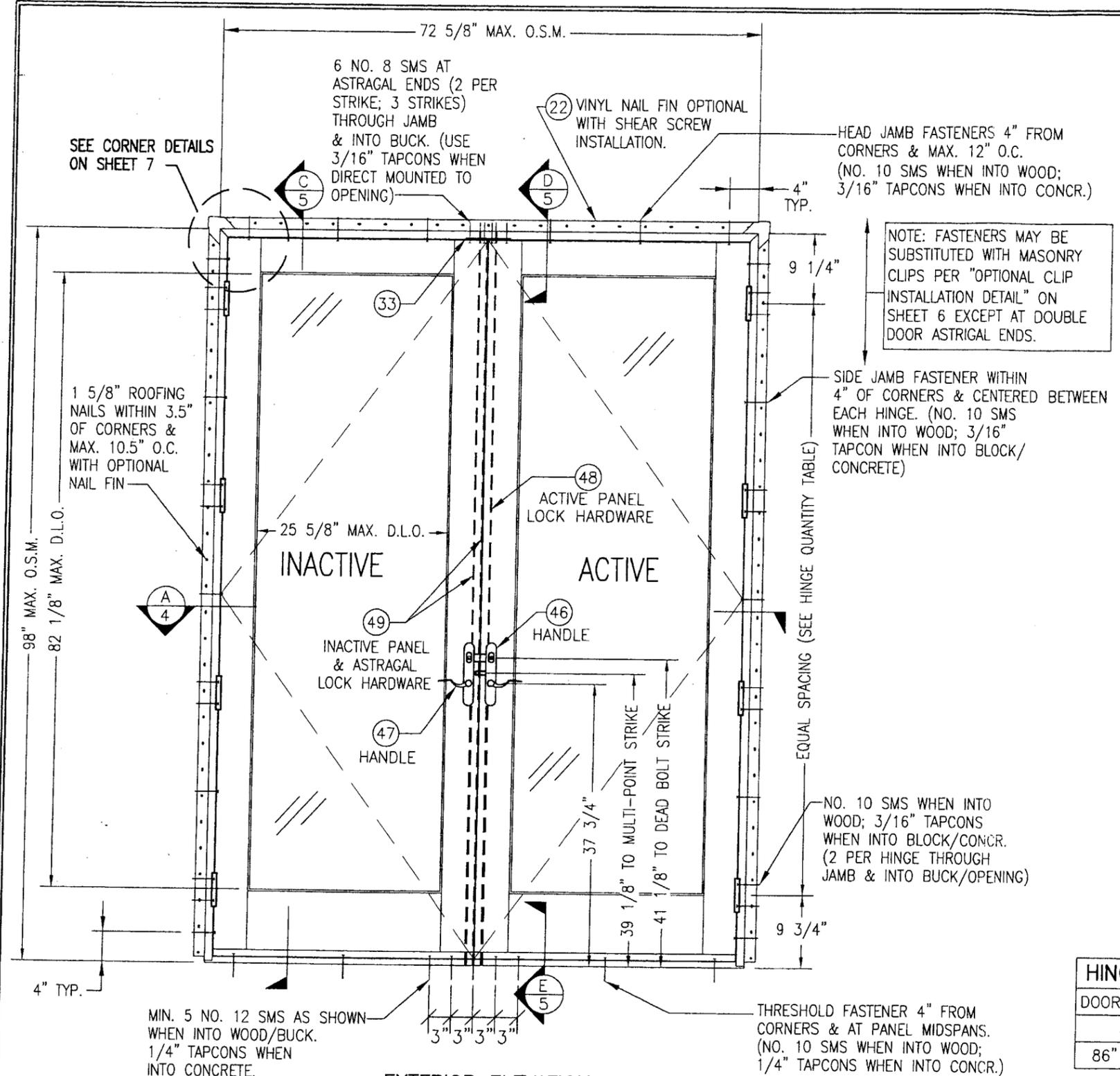
#### **F. OTHER**

1. This NOA renews # **05-0815.10**, expiring January 03, 2007.
2. One-year Renewal request letter by Marvin Windows & Doors dated January 18, 2007, signed by John Sopkowiak.
3. Glazing compliance with ASTM-1300.98.



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Jaime D. Gascon, P.E.  
Chief, Product Control Division  
NOA No 07-0123.07  
Expiration Date: January 03, 2008  
Approval Date: February 15, 2007



**EXTERIOR ELEVATION  
DOUBLE RECTANGULAR FRENCH DOOR**  
SCALE: 3/4"=1'-0"  
O.S.M. = OUTSIDE FRAME MEASUREMENT

**GENERAL NOTES**

1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES SHOWN ON THESE DRAWINGS.
2. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE DESIGNED & INSTALLED BY OTHERS TO WITHSTAND WIND LOADS AS DETERMINED FOR EA. APPLICATION
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
4. ALL JAMB TO OPENING FASTENERS MUST PENETRATE BUCK/OPENING AS REQ'D ON THESE DRAWINGS. FASTENER LENGTHS SHALL BE AS REQUIRED TO MEET EMBED REQUIREMENTS.
5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. THIS PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203.
7. THESE DOOR SYSTEMS ARE IMPACT RATED AND ARE NOT REQUIRED TO BE SHUTTERED FOR INSTALLATION OF THESE UNITS.

**ALLOWABLE DESIGN LOADS  
(SINGLE PANEL DOORS)**

MAX. SIZE	POSITIVE	NEGATIVE
3068	60 PSF	72 PSF
3080	55 PSF	70 PSF

**ALLOWABLE DESIGN LOADS  
(DOUBLE PANEL DOORS)**

MAX. SIZE	POSITIVE	NEGATIVE
6068	60 PSF	72 PSF
6080	60 PSF	70 PSF

**ALLOWABLE DESIGN LOADS  
(FIXED PANELS)**

MAX. SIZE	POSITIVE	NEGATIVE
3080	60 PSF	70 PSF

**ALLOWABLE DESIGN LOADS  
(MULLED/MULTIPLE UNITS)**

AS CONTROLLED BY THE LESSER OF THE ALLOWABLE PRESSURES IN THE TABLES ABOVE FOR THE INDIVIDUAL FRAMED UNITS OR +60/-70 PSF.

**PRODUCT RENEWED**  
as complying with the Florida Building Code  
Acceptance No 07-0123-07  
Expiration Date 1/3/2008  
By [Signature]  
Miami Dade Product Control Division

**HINGE QUANTITY TABLE**

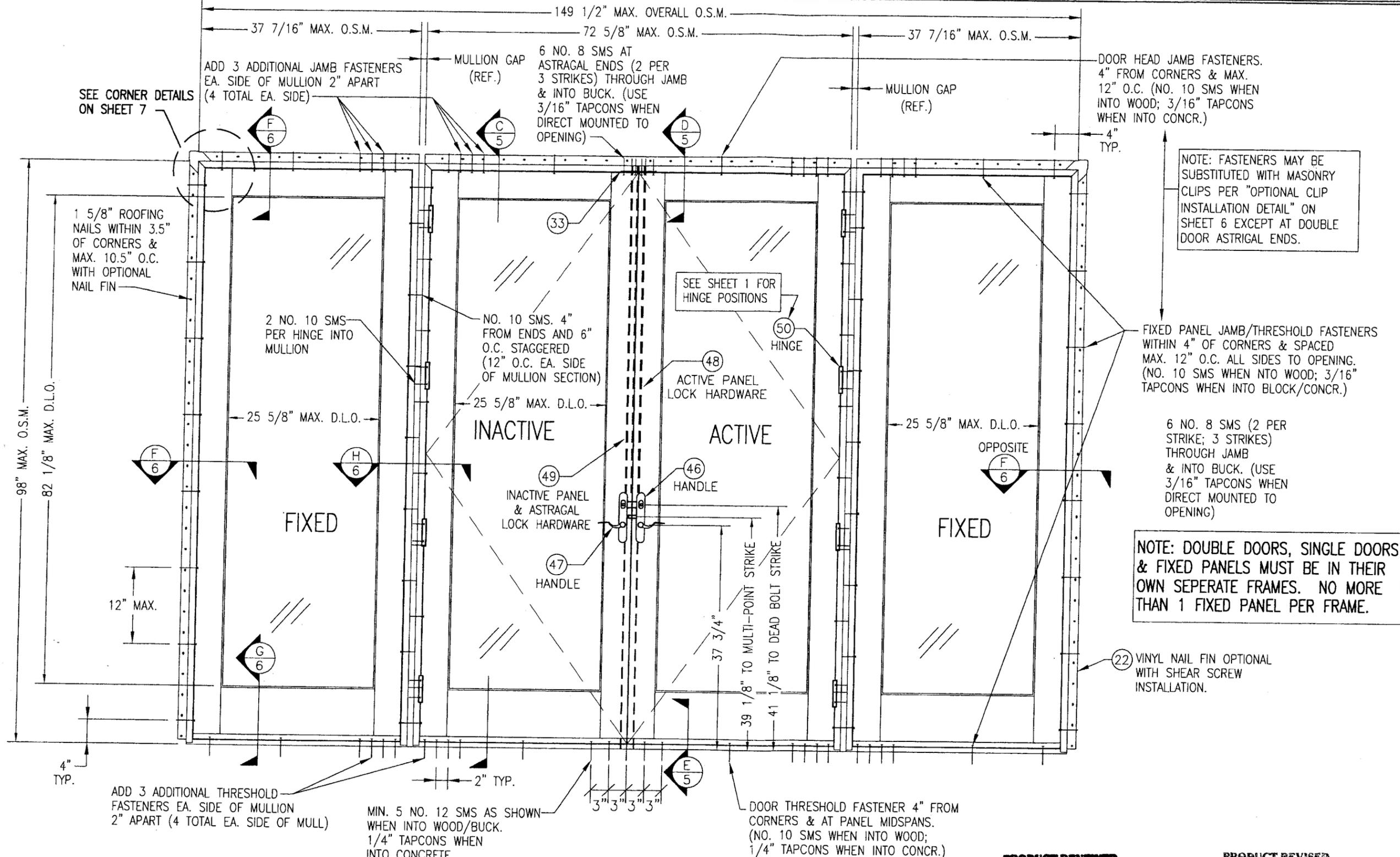
DOOR HEIGHT	QTY REQUIRED
82"	3
86" & 98"	4

**FASTENER REQUIREMENTS TABLE**

OPENING TYPE (SUBSTRATE)	FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DIST.
WOOD BUCK	NO. 8 SMS SCREW	1 1/4"	3/4"
WOOD BUCK	NO. 10 SMS SCREW	1 3/8"	3/4"
WOOD BUCK	NO. 12 SMS SCREW	1 1/2"	3/4"
CMU/CONCRETE	3/6" & 1/4" TAPCON	1 1/4"	2"

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No 05-0815-10  
Expiration Date JAN 03, 2007  
By [Signature]  
Miami Dade Product Control Division

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 04/02/01	
NO.	REVISION DESCRIPTION	DATE	BY
A1	UPDATE GENERAL NOTES TO 2004 FBC	08/03/05	WWS
DRAWING TITLE: CLAD OUTSWING FRENCH DOOR IMPACT HP			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.			
MANUFACTURER: MARVIN WINDOWS & DOORS			
8895 N. MILITARY TRAIL, SUITE C204 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		REV. A	
DRAWING NO. 1034		SHEET NO. 8	
1 OF 8			



SEE CORNER DETAILS ON SHEET 7

ADD 3 ADDITIONAL JAMB FASTENERS EA. SIDE OF MULLION 2" APART (4 TOTAL EA. SIDE)

MULLION GAP (REF.)  
6 NO. 8 SMS AT ASTRAGAL ENDS (2 PER 3 STRIKES) THROUGH JAMB & INTO BUCK. (USE 3/16" TAPCONS WHEN DIRECT MOUNTED TO OPENING)

MULLION GAP (REF.)

DOOR HEAD JAMB FASTENERS. 4" FROM CORNERS & MAX. 12" O.C. (NO. 10 SMS WHEN INTO WOOD; 3/16" TAPCONS WHEN INTO CONCR.)

NOTE: FASTENERS MAY BE SUBSTITUTED WITH MASONRY CLIPS PER "OPTIONAL CLIP INSTALLATION DETAIL" ON SHEET 6 EXCEPT AT DOUBLE DOOR ASTRAGAL ENDS.

FIXED PANEL JAMB/THRESHOLD FASTENERS WITHIN 4" OF CORNERS & SPACED MAX. 12" O.C. ALL SIDES TO OPENING. (NO. 10 SMS WHEN INTO WOOD; 3/16" TAPCONS WHEN INTO BLOCK/CONCR.)

6 NO. 8 SMS (2 PER STRIKE; 3 STRIKES) THROUGH JAMB & INTO BUCK. (USE 3/16" TAPCONS WHEN DIRECT MOUNTED TO OPENING)

NOTE: DOUBLE DOORS, SINGLE DOORS & FIXED PANELS MUST BE IN THEIR OWN SEPERATE FRAMES. NO MORE THAN 1 FIXED PANEL PER FRAME.

22 VINYL NAIL FIN OPTIONAL WITH SHEAR SCREW INSTALLATION.

1 5/8" ROOFING NAILS WITHIN 3.5" OF CORNERS & MAX. 10.5" O.C. WITH OPTIONAL NAIL FIN

2 NO. 10 SMS PER HINGE INTO MULLION

NO. 10 SMS. 4" FROM ENDS AND 6" O.C. STAGGERED (12" O.C. EA. SIDE OF MULLION SECTION)

SEE SHEET 1 FOR HINGE POSITIONS

INACTIVE

ACTIVE

FIXED

FIXED

12" MAX.

37 3/4" TO MULTI-POINT STRIKE  
39 1/8" TO DEAD BOLT STRIKE

ADD 3 ADDITIONAL THRESHOLD FASTENERS EA. SIDE OF MULLION 2" APART (4 TOTAL EA. SIDE OF MULL)

MIN. 5 NO. 12 SMS AS SHOWN WHEN INTO WOOD/BUCK. 1/4" TAPCONS WHEN INTO CONCRETE.

DOOR THRESHOLD FASTENER 4" FROM CORNERS & AT PANEL MIDSPANS. (NO. 10 SMS WHEN INTO WOOD; 1/4" TAPCONS WHEN INTO CONCR.)

**EXTERIOR ELEVATION; DOUBLE RECTANGULAR WITH FIXED PANEL SIDELITE EACH SIDE**

SCALE: 3/4" = 1'-0"

THE FOLLOWING ARE APPROVED COMBINATIONS:  
XX, OX, OXO, XOX, OOO, OXX, OXXO, XXOO, OXXX

O.S.M. = OUTSIDE FRAME MEASUREMENT

FOR FASTENER EMBED & EDGE DISTANCE REQUIREMENTS, ALLOWABLE DESIGN LOADS & HINGE QUANTITY, SEE SHEET 1.

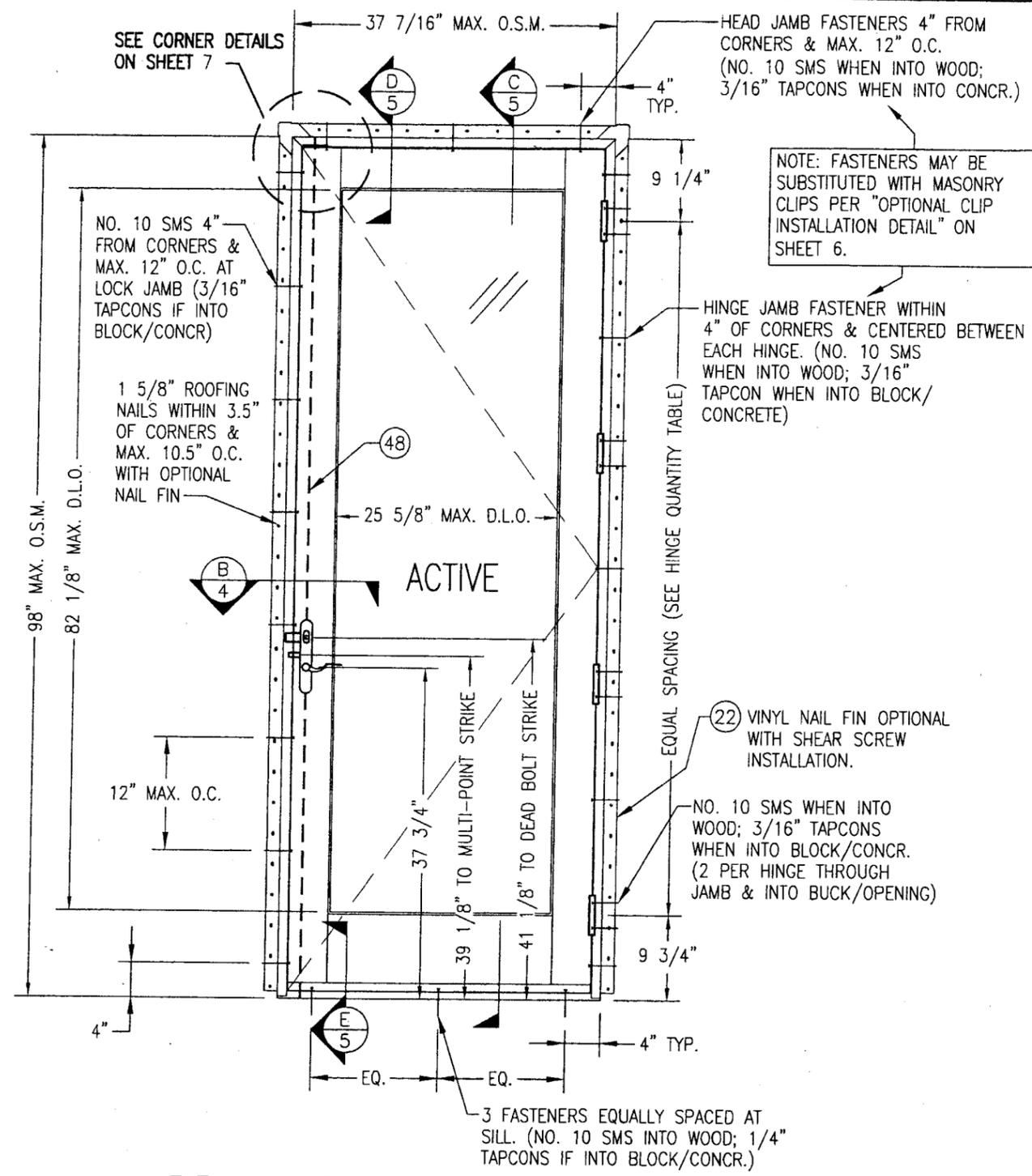
**PRODUCT RENEWED**  
as complying with the Florida Building Code  
Acceptance No 07-0123-07  
Expiration Date 1/3/2008

By *[Signature]*  
Miami Dade Product Control Division

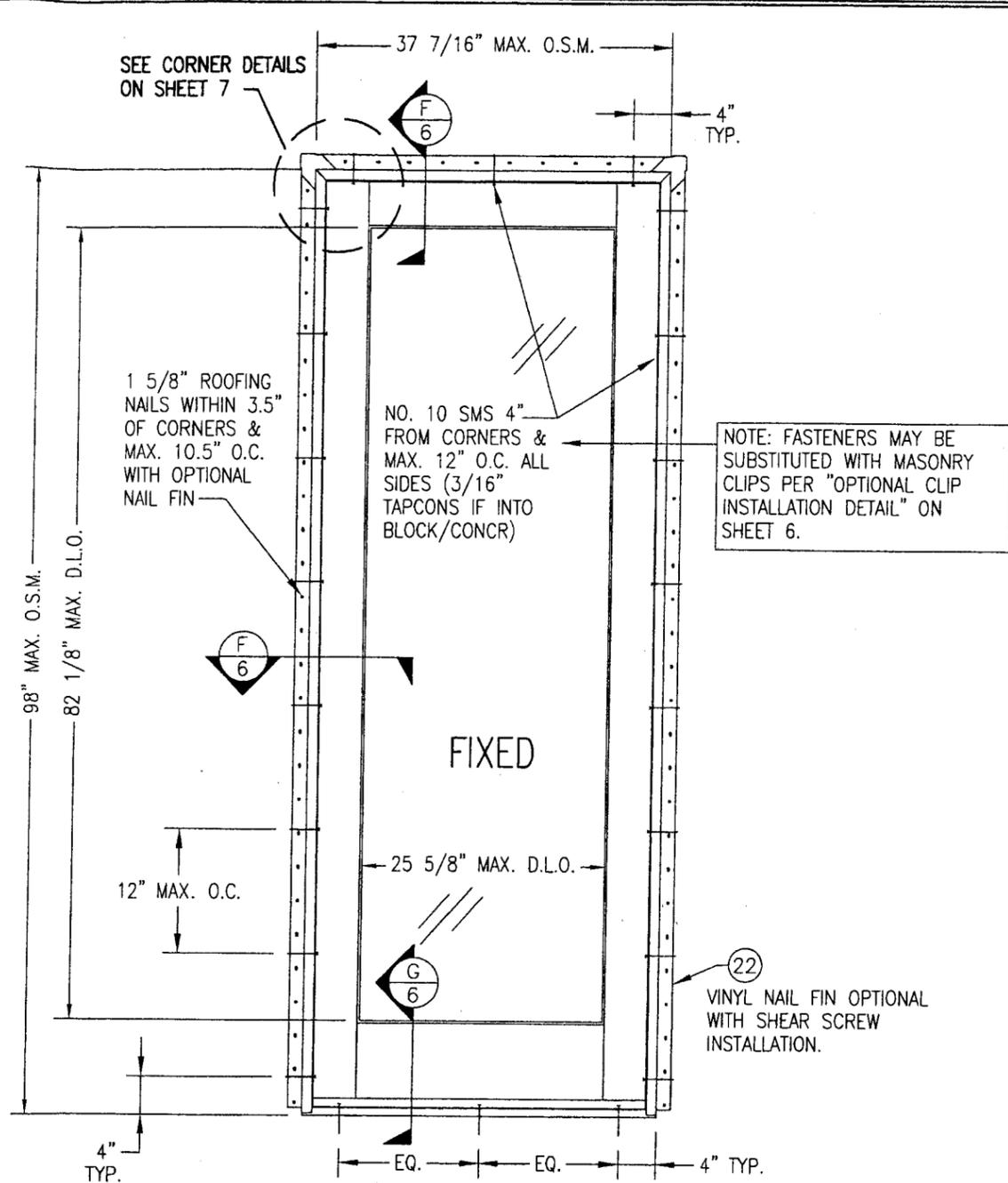
**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No 05-0815-10  
Expiration Date 1/23/2007

By *[Signature]*  
Miami Dade Product Control Division

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 04/02/01
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE CLAD OUTSWING FRENCH DOOR IMPACT HP	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	MANUFACTURER MARVIN WINDOWS & DOORS
8895 N. MILITARY TRAIL, SUITE C204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
DRAWING NO. 1034	
REV. A	
SHEET NO. 2 OF 8	



**EXTERIOR ELEVATION: SINGLE ACTIVE DOOR**  
SCALE: 3/4" = 1'-0"



**EXTERIOR ELEVATION: FIXED PANEL DOOR**  
SCALE: 3/4" = 1'-0"

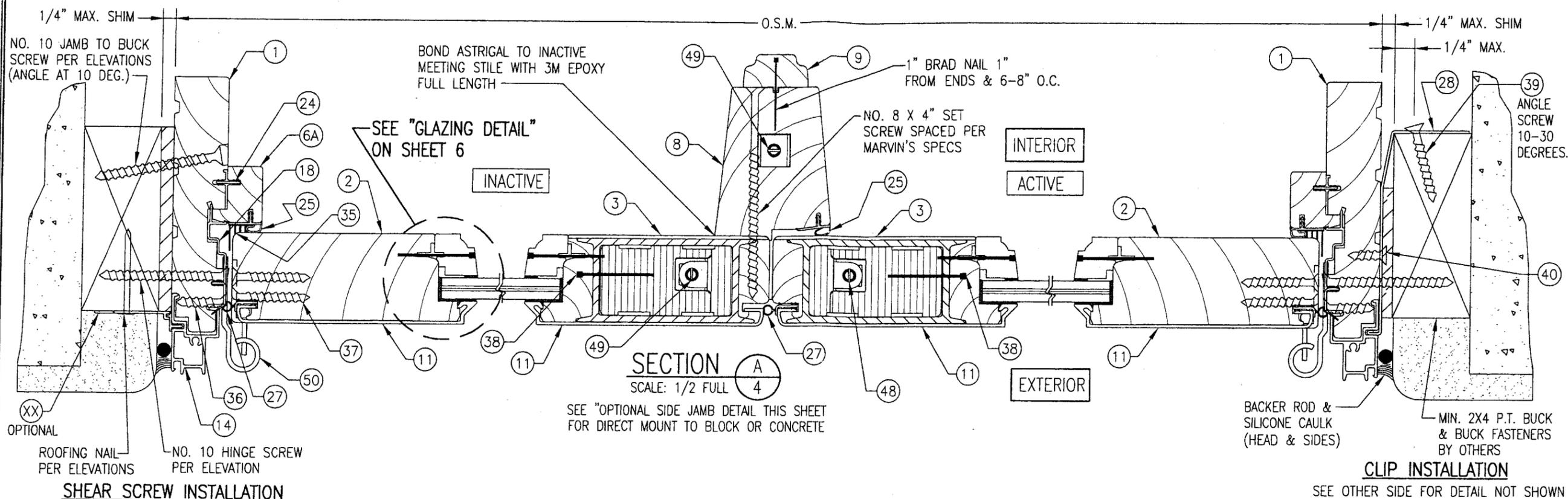
O.S.M. = OUTSIDE FRAME MEASUREMENT

FOR FASTENER EMBED & EDGE DISTANCE REQUIREMENTS,  
& ALLOWABLE DESIGN LOADS, SEE SHEET 1.

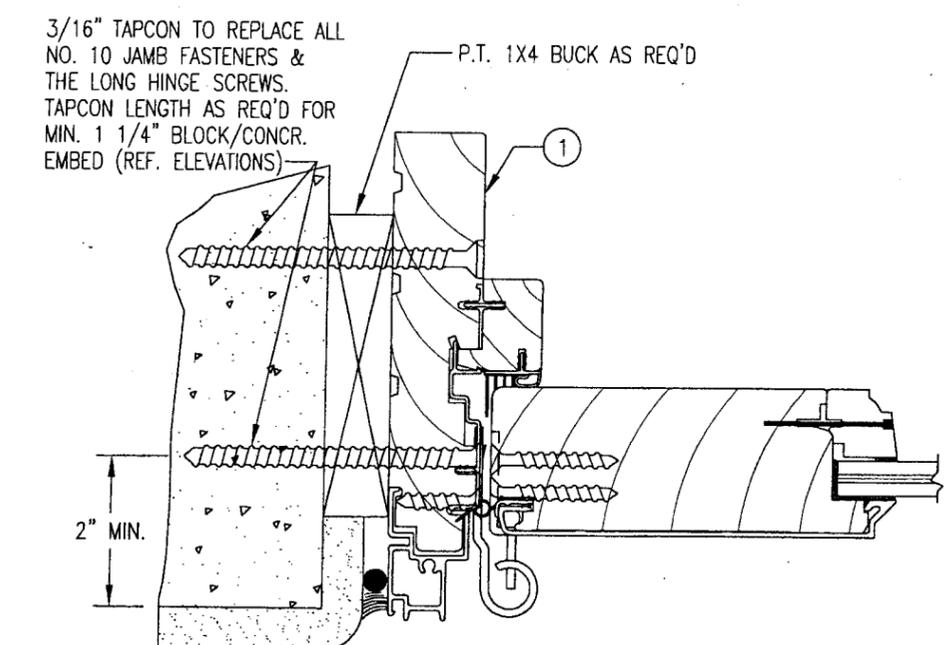
**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No. 07-0123-07  
Expiration Date 1/3/2008  
By [Signature]  
Miami Dade Product Control  
Division

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 05-0815-10  
Expiration Date JAN 03, 2007  
By [Signature]  
Miami Dade Product Control  
Division

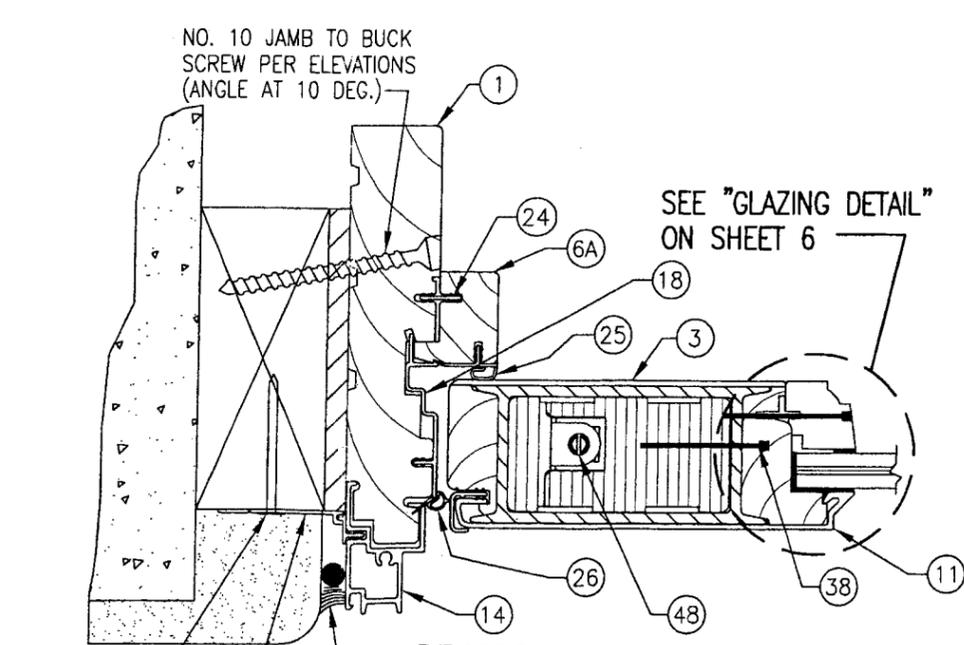
DRAWN BY: W.W.S.	CHECKED BY: W.W.S.	DATE: 04/02/01	NO.	REVISION DESCRIPTION	DATE	BY
CLAD OUTSWING FRENCH DOOR IMPACT HP MANUFACTURER <b>MARVIN WINDOWS &amp; DOORS</b> HIGHWAY 11; P.O. BOX 100 WARRIOR, MN 56763 800-346-5044						
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 8895 N. MILITARY TRAIL; SUITE C204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903						
CERTIFICATION <b>JAN 22 2007</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44135						
DRAWING NO.	REV.					
1034	A					
SHEET NO.						
3	OF	8				



**SHEAR SCREW INSTALLATION**



**OPTIONAL SIDE JAMB DETAIL FOR DIRECT MOUNT TO CONCRETE OR BLOCK**  
 SCALE: 1/2 FULL SIZE  
 (TYP. ALL UNITS; FIXED & OPERABLE)  
 SEE SECTIONS A, B & F FOR DETAIL NOT SHOWN

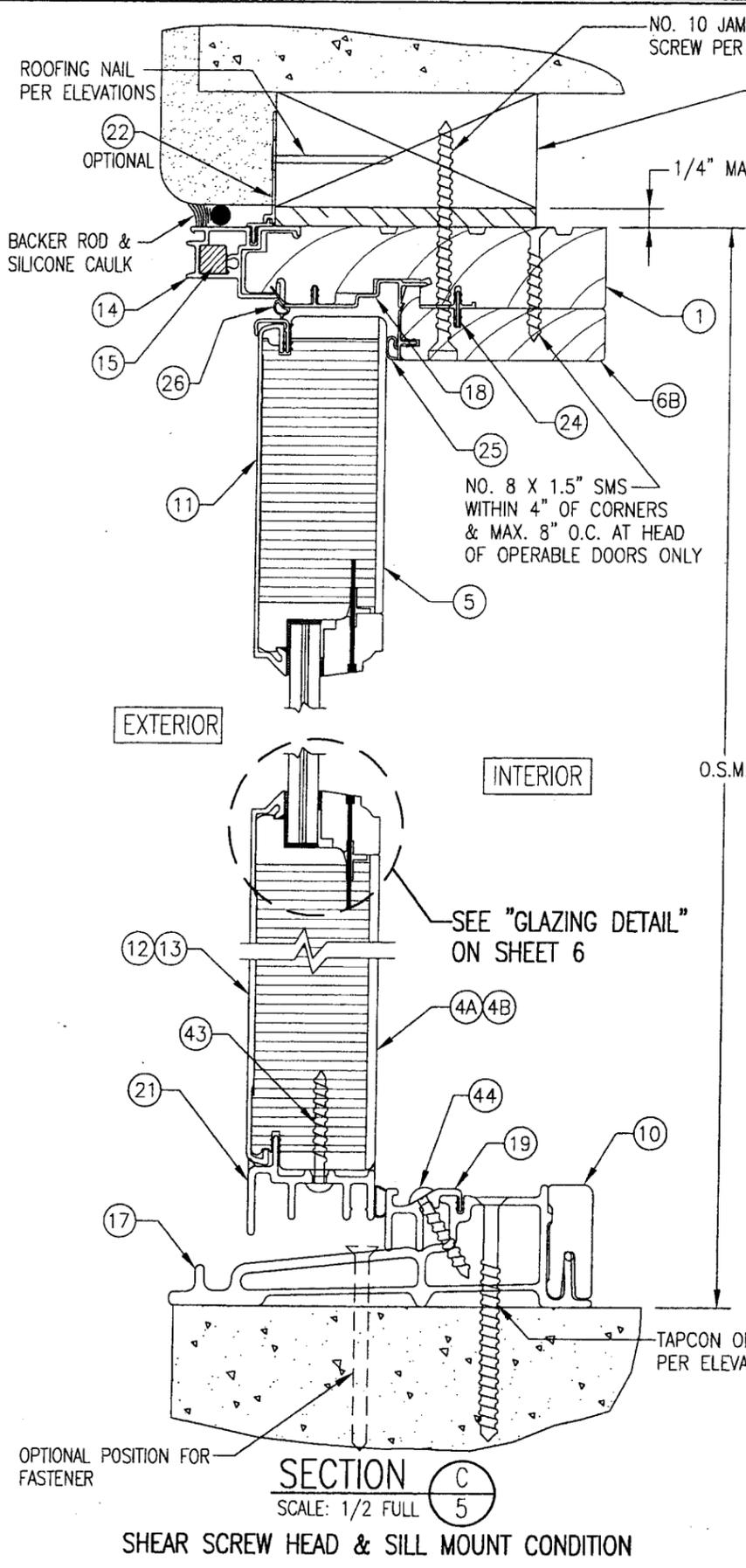


**SECTION B**  
 SCALE: 1/2 FULL  
 SEE "OPTIONAL SIDE JAMB DETAIL THIS SHEET FOR DIRECT MOUNT TO BLOCK OR CONCRETE"  
 SIMILAR FOR CLIP MOUNT JAMB.  
 FOR CLIP MOUNT, SEE SECTION A/4 ABOVE

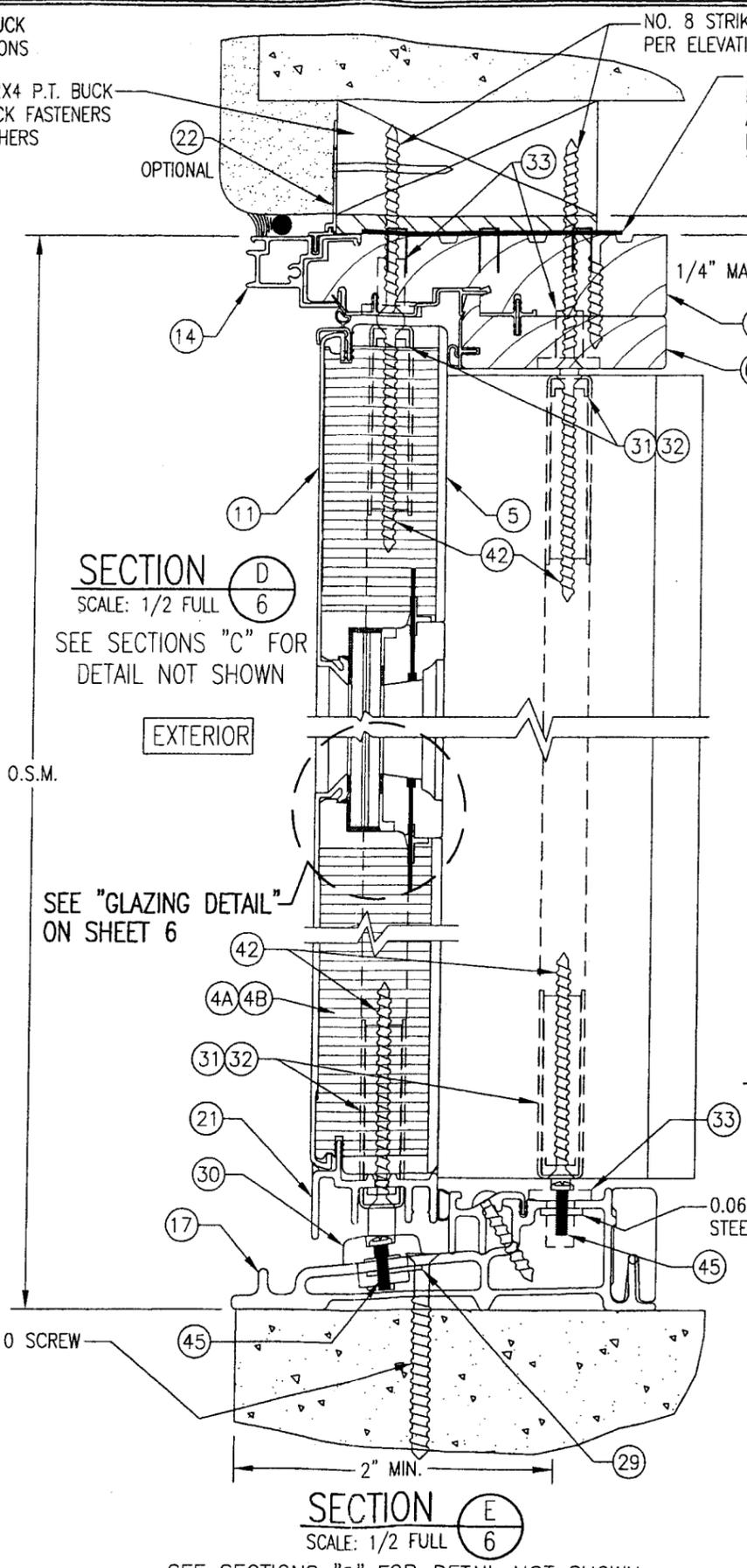
**PRODUCT RENEWED**  
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 By *[Signature]*  
 Miami Dade Product Control Division

**PRODUCT REVISED**  
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 Acceptance No 05-0815.10  
 Expiration Date JAN 23, 2007  
 By *[Signature]*  
 Miami Dade Product Control Division

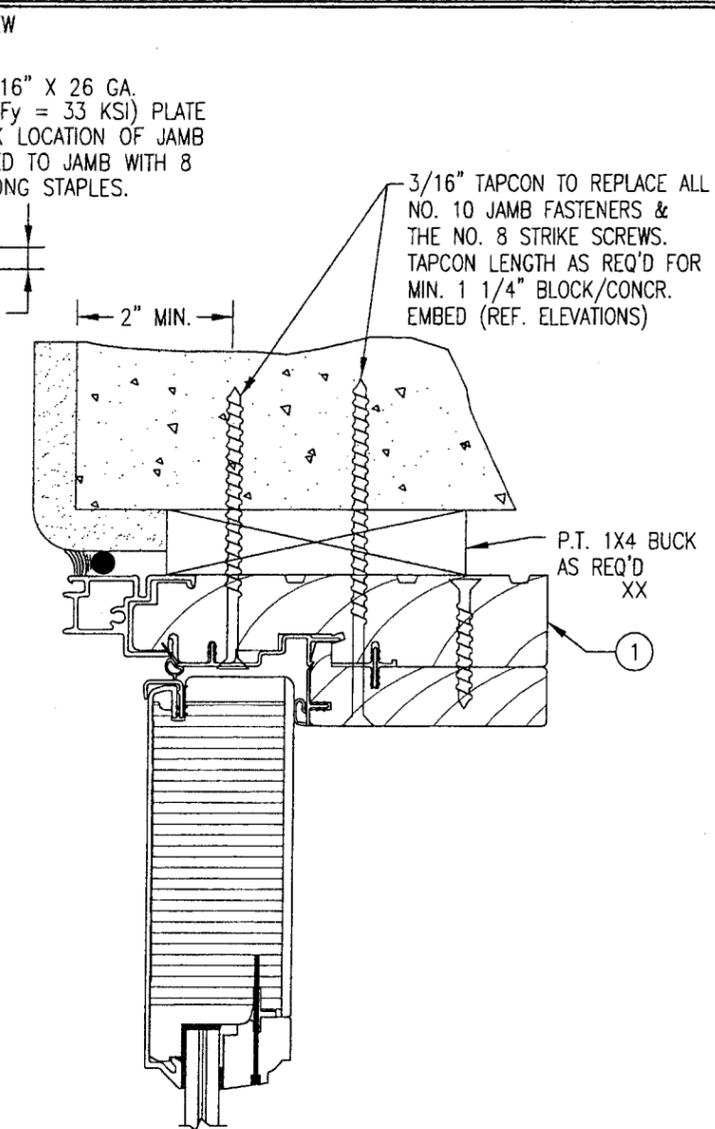
DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 04/02/01	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE <b>CLAD OUTSWING FRENCH DOOR IMPACT HP</b>			
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b>		MANUFACTURER <b>MARVIN WINDOWS &amp; DOORS</b>	
8895 N. MILITARY TRAIL, SUITE C204 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	JAN 2 2000		
DRAWING NO.	1034	REV.	A
SHEET NO.	4 OF 8		



**SECTION C**  
SCALE: 1/2 FULL  
5  
SHEAR SCREW HEAD & SILL MOUNT CONDITION



**SECTION D**  
SCALE: 1/2 FULL  
6  
SEE SECTIONS "C" FOR  
DETAIL NOT SHOWN



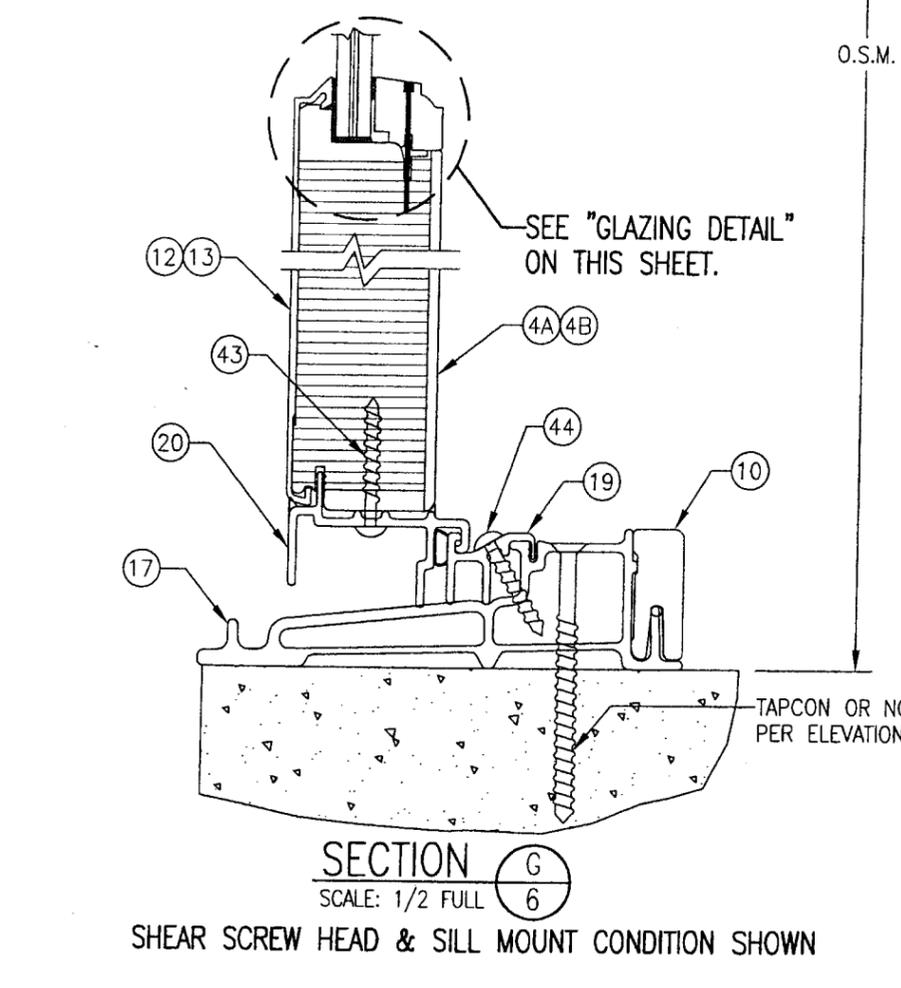
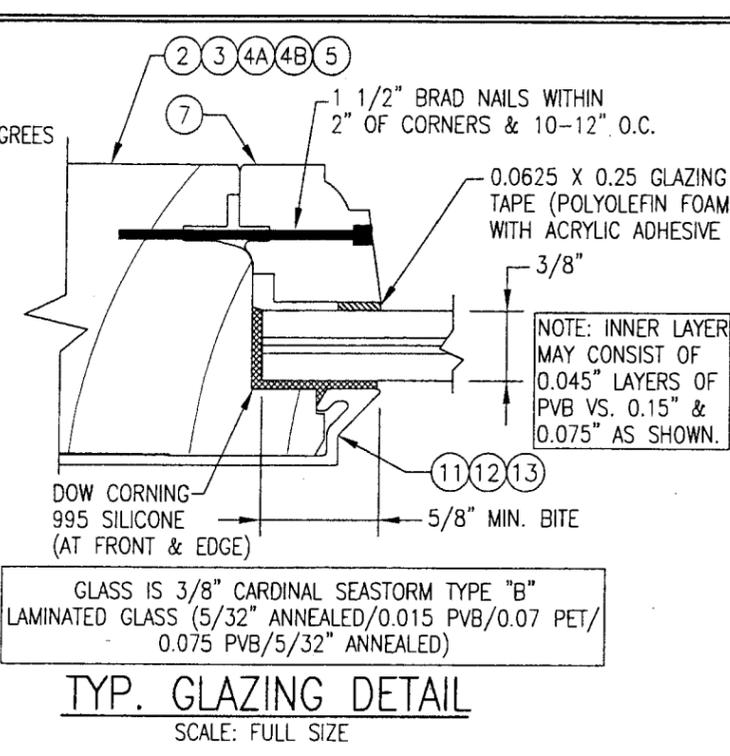
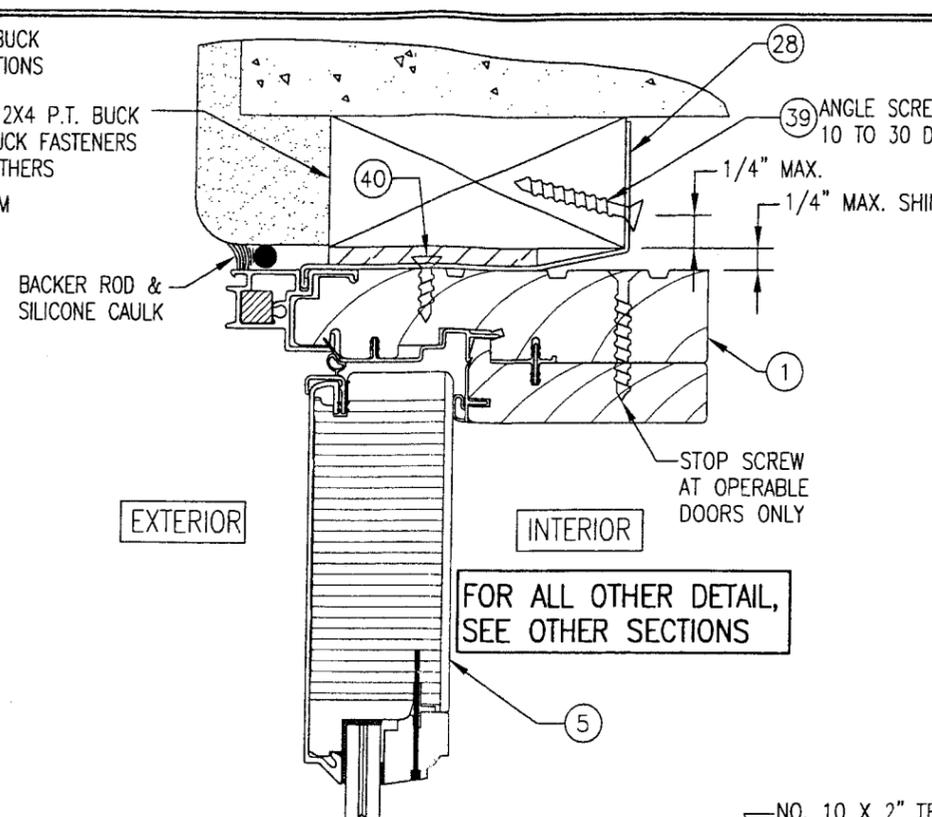
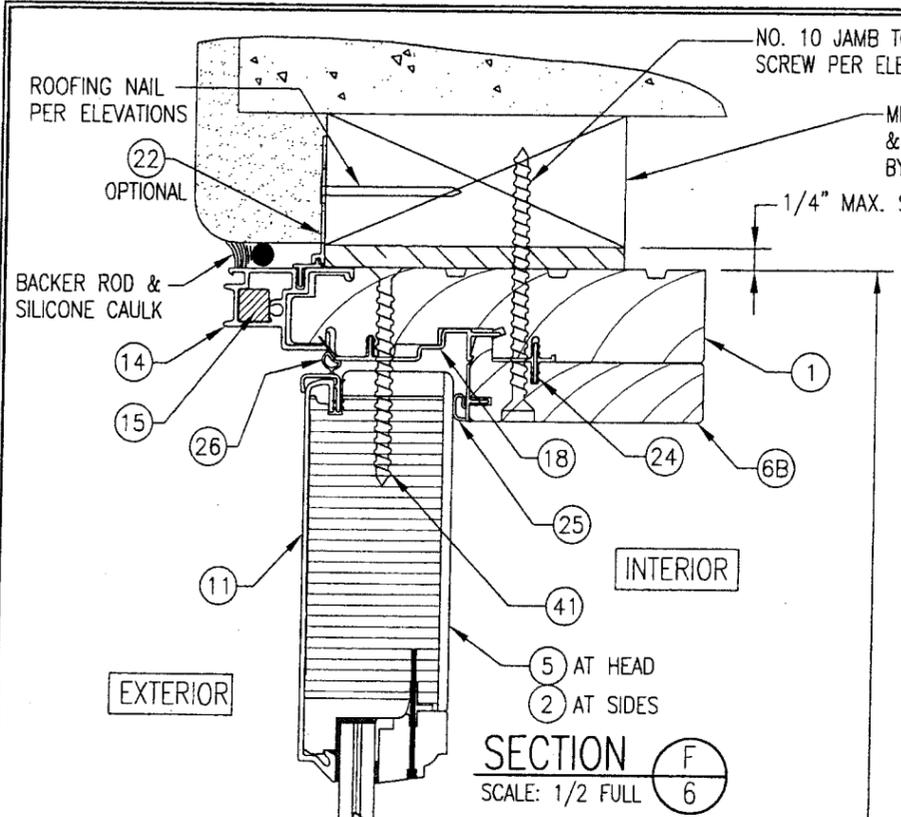
**OPTIONAL HEAD JAMB DETAIL FOR  
DIRECT MOUNT TO CONCRETE OR BLOCK**

SCALE: 1/2 FULL SIZE  
(TYP. ALL UNITS; FIXED & OPERABLE)  
SEE SECTIONS C, D, & F FOR DETAIL NOT SHOWN

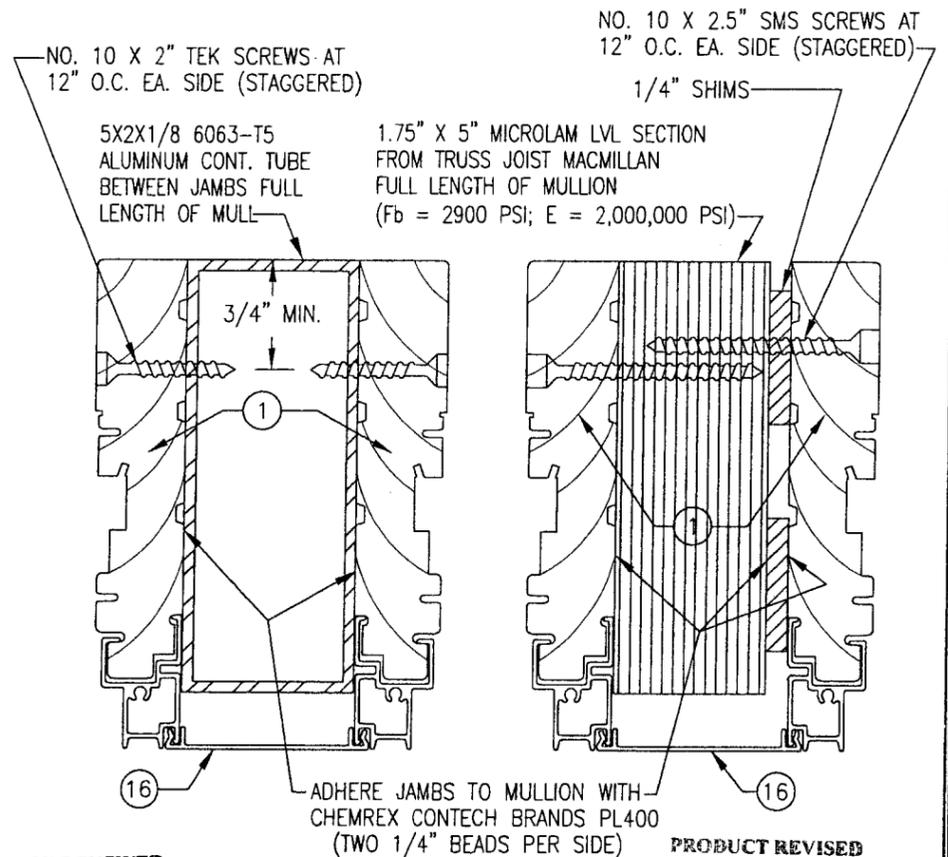
**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No 07-0123-07  
Expiration Date 1/3/2008  
By *[Signature]*  
Miami Dade Product Control  
Division

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No 05-0815-10  
Expiration Date 10/10/2007  
By *[Signature]*  
Miami Dade Product Control  
Division

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-16		DATE: 04/02/01	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE <b>CLAD OUTSWING FRENCH DOOR IMPACT HP</b>			
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b>		MANUFACTURER <b>MARVIN WINDOWS &amp; DOORS</b>	
8895 N. MILITARY TRAIL, SUITE G204 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 JAN 2 2008 By <i>[Signature]</i> WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1034		REV. A	
SHEET NO. 5 OF 8			



**OPTIONAL CLIP INSTALLATION DETAIL**  
 CLIPS MAY REPLACE JAMB SCREWS AT LOCATIONS PER ELEVATIONS.  
 (TYP. AT FIXED & OPERABLE UNITS)

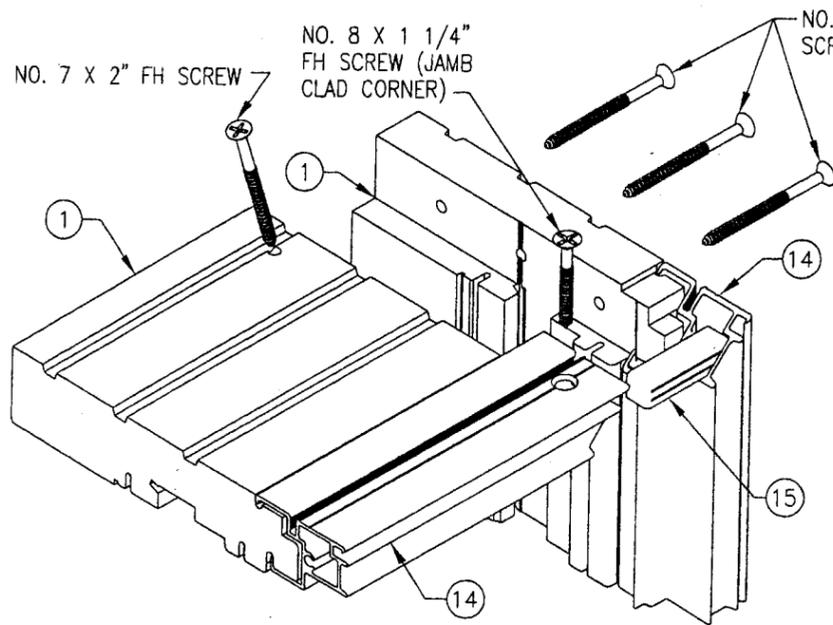


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 Acceptance No 07-0123-07  
 Expiration Date 1/3/2008  
 By [Signature]  
 Miami Dade Product Control Division

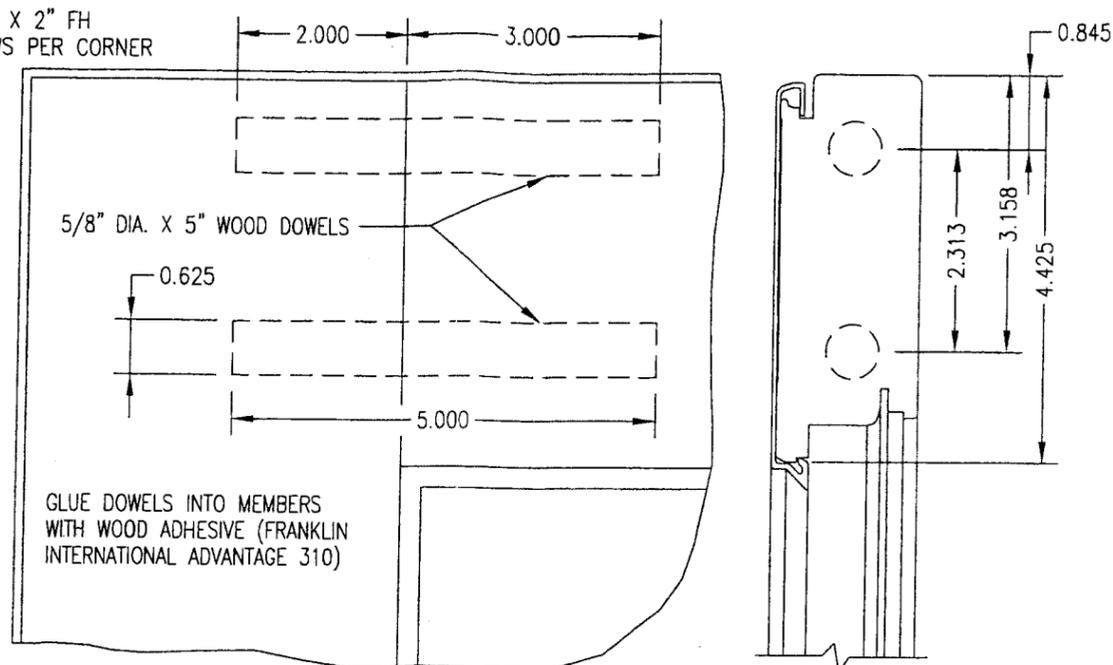
**SECTION H**  
 SCALE: 1/2 FULL  
 (2 MULLION OPTIONS)  
 SEE OTHER SECTIONS FOR DETAIL OF STILE MEMBERS NOT SHOWN

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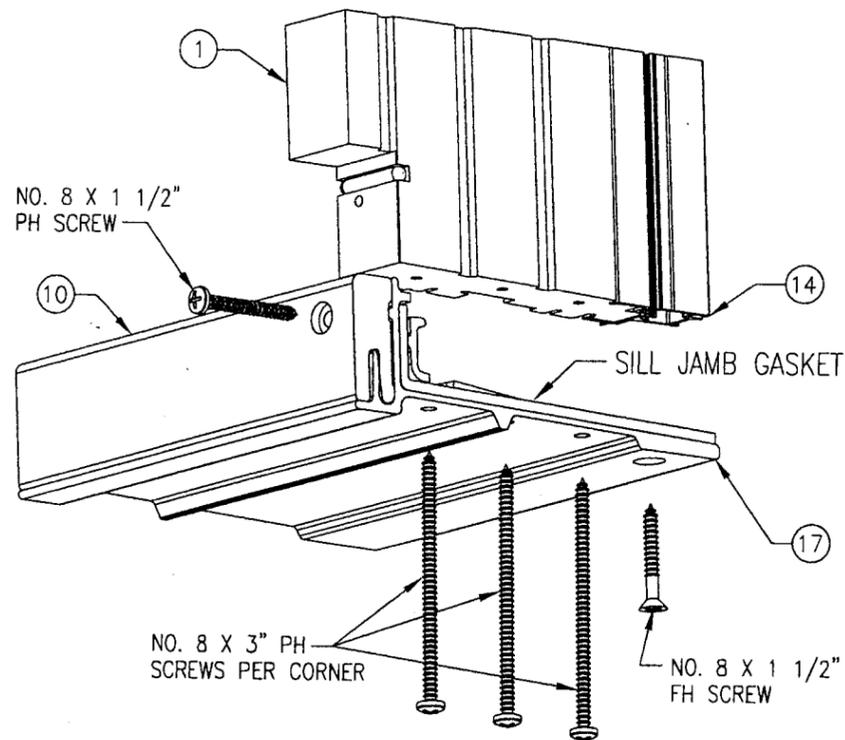
DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 04/02/01	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE: CLAD OUTSWING FRENCH DOOR IMPACT HP			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MARVIN WINDOWS & DOORS	
8895 N. MILITARY TRAIL, SUITE C204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4802 FAX: 561-775-4903		HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044	
CERTIFICATION		DRAWING NO.	
JAN 22 2005		1034	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135		REV. A	
SHEET NO.		6 OF 8	



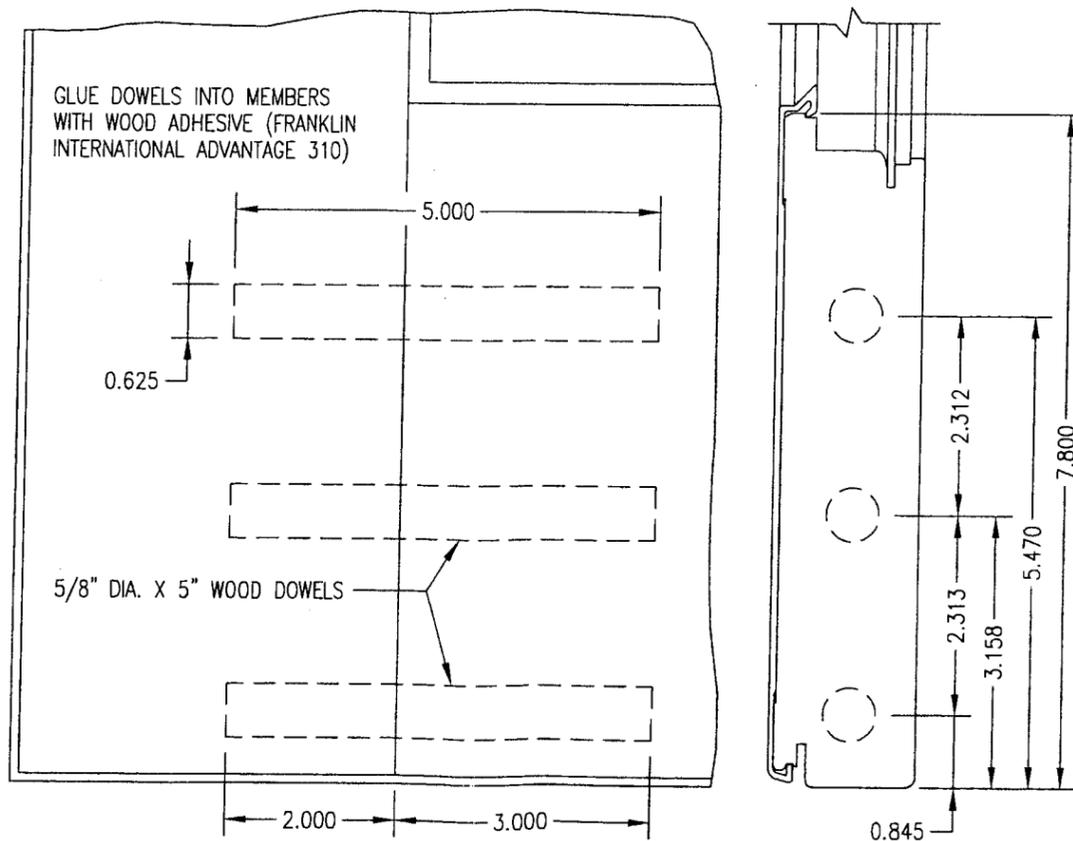
JAMB TO JAMB CORNER DETAIL



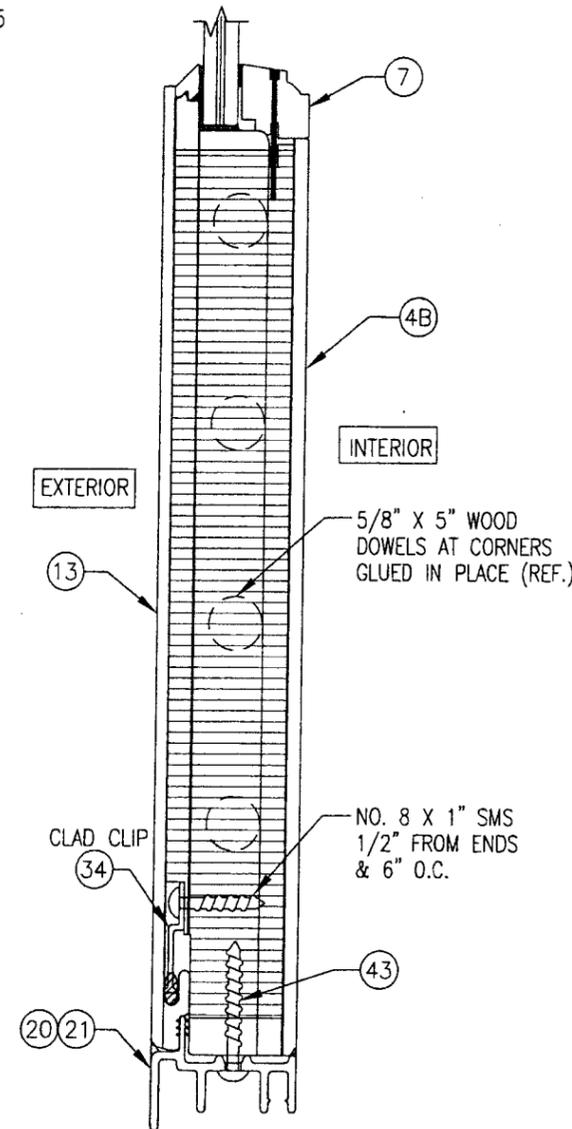
STILE TO TOP RAIL CORNER DETAIL



JAMB TO THRESHOLD CORNER DETAIL



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



ALTERNATE BOTTOM RAIL  
DETAIL

SCALE: 1/2 FULL

DETAIL SHOWN IS FOR ACTIVE PANEL. STATIONARY PANEL RAIL IS SAME EXCEPT FOR BOTTOM SWEEP BEING AS SHOWN IN SECTION "C" & "E" ON SHEET 5.

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PLOT: 1-16	DATE: 04/02/01
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE CLAD OUTSWING FRENCH DOOR IMPACT HP	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8885 N. MILITARY TRAIL, SUITE C204 PALM BEACH GARDENS, FL 33410 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 JAN 2 2006	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1034	REV. A
SHEET NO. 7	OF 8

**PARTS LIST**

**PARTS LIST**

NO.	REF. NO.	DESCRIPTION	NOTES
<b>PARTS &amp; EXTRUSIONS</b>			
1	00011673	SIDE & HEAD JAMB	SEE NOTE 1; 1.063 X 4.84 O/ALL
2	00014719	NON-LOCKING STILE	SEE NOTE 1; 1.66 X 4.43 O/ALL
3	00015113 00017606	LOCKING STILE	1.59 X 3.46 X 0.125 THK. ULTREX (FIBERGLASS WITH Fy = 39 KSI) TUBE SECTION WITH PINE VINEER & NON-CONTINUOUS LVL CORE.
4A	00017379	BOTTOM RAIL	LVL; 1.66 X 7.80 O/ALL
4B	X	ALTERNATE BOTTOM RAIL	LVL; 1.55 X 11.04 O/ALL
5	00013275	TOP RAIL	LVL; 1.66 X 4.43 O/ALL
6A	00013514	PANEL SIDE STOP	SEE NOTE 1; 1.063 X 0.69
6B	00016403	PANEL HEAD STOP	SEE NOTE 1; 2.75 X 0.69
7	00016573	GLAZING STOP	SEE NOTE 1; 0.83 X 0.78 O/ALL
8	00016867	MULLION CASING BASE	SEE NOTE 1; 2.25 X 2.81 O/ALL (ASTRAGAL)
9	00008310	MULLION CASING COVER	SEE NOTE 1; 1.25 X 0.625 O/ALL
10	00011114	THRESHOLD LINER	OAK; 0.61 X 1.51 O/ALL
11	00014631	STILE & TOP RAIL CLAD	6063-T5 ALUMINUM; 4.65 LONG X 0.055 THK
12	00002592	BOTTOM RAIL CLAD	6063-T5 ALUMINUM; 8.067 LONG X 0.085 THK
13	00014234	ALTERNATE BOTTOM RAIL CLAD	6063-T5 ALUMINUM; 11.317 LONG X 0.14 THK
14	00013503	JAMB CLAD	6063-T5 ALUMINUM; 0.937 X 1.547 X 0.05 THK
15	00011814	JAMB CLAD CORNER KEY	6063-T5 ALUMINUM; ANGLE 1.375 X 1.375
16	00011814	MULLION CAP	6063-T5 ALUMINUM; 2.366 WIDE X 0.05 THK
17	00011107	THRESHOLD	PAINTED ULTREX (FIBERGLASS WITH MIN. Fy = 39 KSI); 5.69 X 1.46 TALL X 0.13 THK
18	00013511	FRAME WEATHER-STRIP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
19	00013508	SILL WEATHER-STRIP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
20	00013509	FIXED PANEL SWEEP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
21	00013510	ACTIVE PANEL SWEEP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
22	00005348	OPTIONAL NAILING FIN	VINYL; NOT REQUIRED WITH INSTALLATION (OPTIONAL)
24	00005685	PANEL STOP CONNECTING BARB	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
25	00005648	WEATHER-STRIP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
26	00013512	WEATHER-STRIP	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
27	00013513	WEATHER-STRIP AT STILES	VINYL PER MARVIN SPECIFICATION (SEE REFERENCE NO.)
28	00003726	GALVANIZED STEEL 0.050 MASONRY CLIP MIN Fy = 50 KSI	1.56" WIDE X MIN. 6.5" LONG X 0.05" THK. MAY REPLACE FRAME FASTENERS PER ELEVATIONS.
29	00014996	STAINLESS STEEL SILL BACKER PLATE	ONE AT EA. SILL STRIKE BELOW SILL; 0.76 X 2.56 X 0.06 THK
30	00014912	GLASS REINFORCED ACETAL SILL STRIKE	1 AT EA. LOCK BAR; 1.07 X 2.82 X 0.3 THK
31	00015314	GLASS FILLED NYLON SHOOT BOLT GUIDE	1 AT EA. PANEL & AT ASTRAGAL (TOP & BOTTOM)
32	00015312	S/STL SHOOT BOLT GUIDE REINF.	1 AT EA. SHOOT BOLT GUIDE
33	00015486	NON-REINF. NYLON STRIKE	1 FOR EA. LOCK BAR AT PANELS & ATRAGAL
34	00014245	6063-T5 ALUM. CLAD CLIP	CONT. ALONG ALTERNATE BOTTOM RAIL
35	00014330	ADHESIVE BACKED DUST BLOCK	TYP. AT JAMB PART STOPS & ASTRAGAL
<b>FASTENERS</b>			
36	-	NO. 10 X 1" S/STL SMS	3 PER HINGE INTO JAMB
37	-	NO. 8 X 1 1/2" S/STL SMS	4 PER HINGE INTO STILE
38	-	1 1/2" BRAD NAIL	2 PER EACH LOCKING STILE CENTER & END PLUG (6 TOTAL/LOCKING STILE)
39	-	NO. 8 X 1 1/2" F.H. SMS	2 PER MASONRY CLIP INTO BUCK
40	-	NO. 8 X 5/8" F.H. SMS	1 PER MASONRY CLIP INTO JAMB
41	-	NO. 8 X 2 1/2" S/STL SMS	4" FROM CORNERS & MAX. 12" O.C. JAMB TO FIXED PANEL
42	-	NO. 8 X 3" S/STL SMS	1 PER SHOOT BOLT GUIDE INTO PANELS & ASTRAGAL
43	-	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
44	-	NO. 8 X 1 1/4" S/STL P.H. SMS	2 1/4" FROM ENDS & MAX. 11" O.C.
45	-	NO. 8 X 5/8" MACHINE SCREW	2 PER THRESHOLD STRIKE

NO.	REF. NO.	DESCRIPTION	NOTES
<b>HARDWARE</b>			
46	00005231	ACTIVE DOOR HANDLE	AMEROCK
47	00005232	INACTIVE DOOR HANDLE	AMEROCK OR EQUAL HOLDING DADE COUNTY N.O.A.
48	00013771	ACTIVE DOOR 3-POINT LOCK HARDWARE	GU US CREMONA DOOR BOLT SYSTEM
49	00013966	INACTIVE DOOR 2-POINT LOCK HARDWARE	GU US CREMONA DOOR BOLT SYSTEM AT EA. THE INACTIVE PANEL & ASTRAGAL
50	00003749	4X4 ADJUSTIBLE HINGE	AMEROCK BRASS, S/STL OR STEEL HINGES (MIN. Fy = 40 ksi)
	00003751	4X4 BUTT HINGE	LAWRENCE BROS. BRASS, S/STL OR STEEL HINGES (MIN. Fy = 40 ksi)
	00014332	4X4 BALL BEARING HINGE	LAWRENCE BROS. BRASS, S/STL OR STEEL HINGES (MIN. Fy = 40 ksi)
<b>OTHER</b>			
51	00003993	NAILING FIN CORNER GASKET	OPTIONAL WITH NAILING FIN
52	00016759	GLASS SETTING BLOCK	2 AT EA. THE LEFT SIDE STILE & BOTTOM RAIL

NOTES:  
1. 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 PARTS ARE TO BE PER MARVIN SPECIFICATIONS AND THEIR PARTS DRAWINGS. (PARTS DRAWING NUMBERS ARE THE REFERENCE NUMBERS IN THIS TABLE)

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=1	DATE: 04/02/01
DATE	
BY	
REVISION DESCRIPTION	
NO.	

DRAWING TITLE  
**CLAD OUTSWING FRENCH DOOR IMPACT HP**

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 C204  
PALM BEACH GARDENS, FL 33410  
PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION  
**JAN 22 2006**

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

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SHEET NO.	
8	OF 8