



BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

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

Your application for Notice of Acceptance (NOA) of:

HP Series Outswing Aluminum Clad Wood French Door w/wo sidelites- Impact.

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0502.09
EXPIRES: 01/03/2007

Raul Rodriguez
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 01/03/2002

Marvins Windows & Doors

ACCEPTANCE No. : 01-0502.09

APPROVED : January 03, 2002

EXPIRES : January 03, 2007

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

- 1.1 This approves an outswing aluminum clad wood french door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

- 2.1 The "HP" Series Outswing Aluminum Clad Wood French Door w / wo sidelites-Large Missile Impact Resistant and its components shall be constructed in strict compliance with the following documents: Drawing No. 1034, titled "Clad Outswing French Door Impact HP" dated 04-02-01, 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 Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

- 3.1 This approval applies to single unit applications of pair of doors and single door with and without sidelites, as shown in approved drawings. Single door units shall include all components described in the active leaf of this approval.

4. INSTALLATION

- 4.1 The wood out-swinging door and its components shall be installed in strict compliance with the approved drawings.
- 4.2 Hurricane protection system (shutters): the installation of this unit **will not require** a hurricane protection system.

5. LABELING

- 5.1 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".

6. BUILDING PERMIT REQUIREMENTS

- 6.1 Application for building permit shall be accompanied by copies of the following:
- 6.1.1 This Notice of Acceptance.
- 6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
- 6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Ishaq I. Chanda
Ishaq I. Chanda, P.E., Product Control Examiner
Product Control Division

Marvins Windows & Doors

ACCEPTANCE No. : 01-0502.09

APPROVED : January 03, 2002

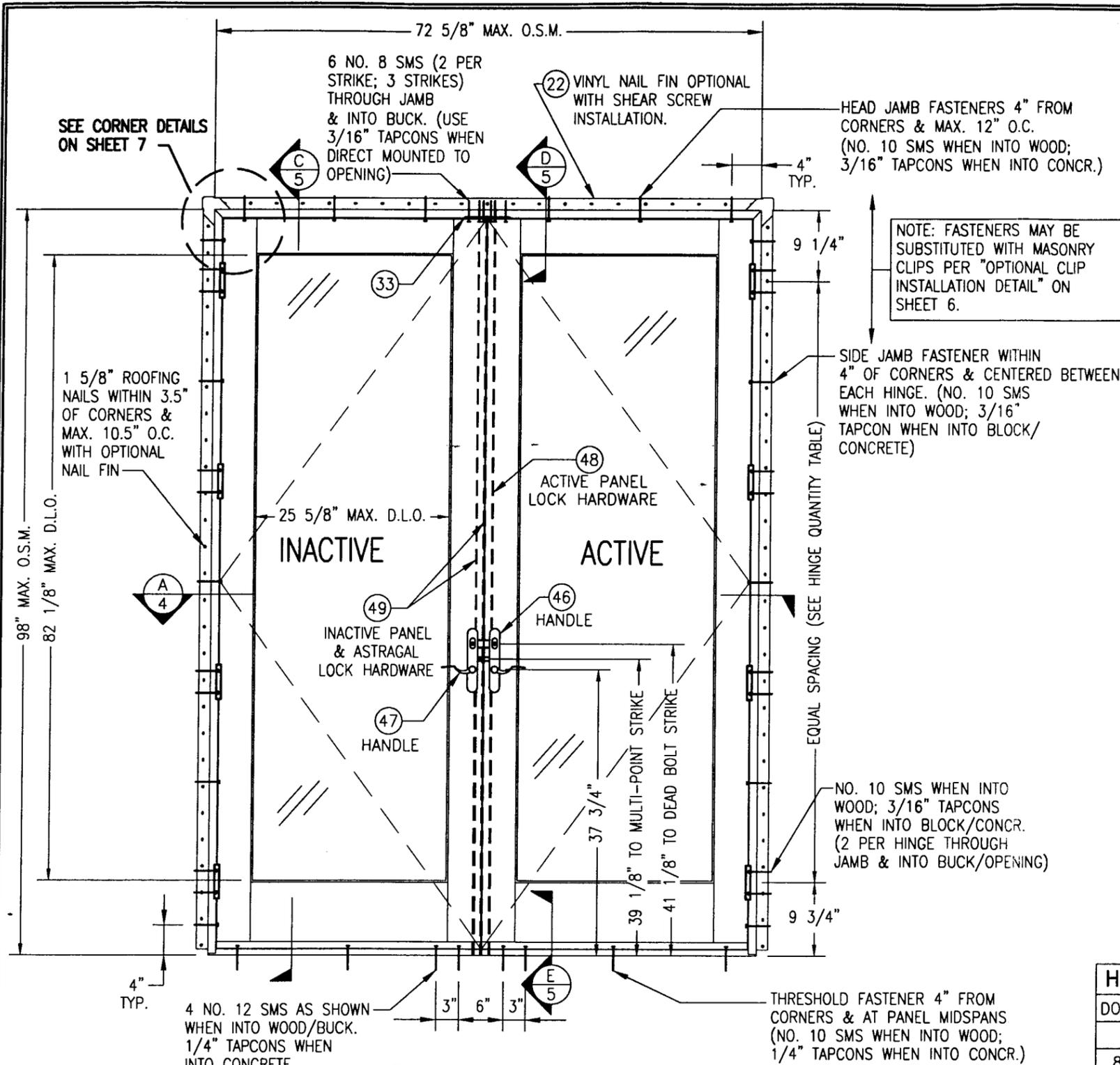
EXPIRES : January 03, 2007

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documents, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approval", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
 - b. The product is no longer the same product (identical) as the one originally approved.
 - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
 - d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a. Unsatisfactory performance of this product or process.
 - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

Ishaq I. Chanda
Ishaq I. Chanda, P.E., Product Control Examiner
Product Control Division



**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 SOUTH FLORIDA BUILDING CODE, 1994 EDITION.
6. THIS PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH DADE COUNTY PROTOCOLS PA-201, 202 & 203 FOR IMPACT TESTING.
7. THESE DOOR SYSTEMS ARE IMPACT RATED AND ARE NOT REQUIRED TO BE SHUTTERED FOR INSTALLATION OF THESE UNITS.

NOTE: FASTENERS MAY BE SUBSTITUTED WITH MASONRY CLIPS PER "OPTIONAL CLIP INSTALLATION DETAIL" ON SHEET 6.

**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.

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"

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-16	DATE: 04/02/01
DATE	
BY	
REVISION DESCRIPTION	
NO.	

DRAWING TITLE: CLAD OUTSWING FRENCH DOOR IMPACT HP

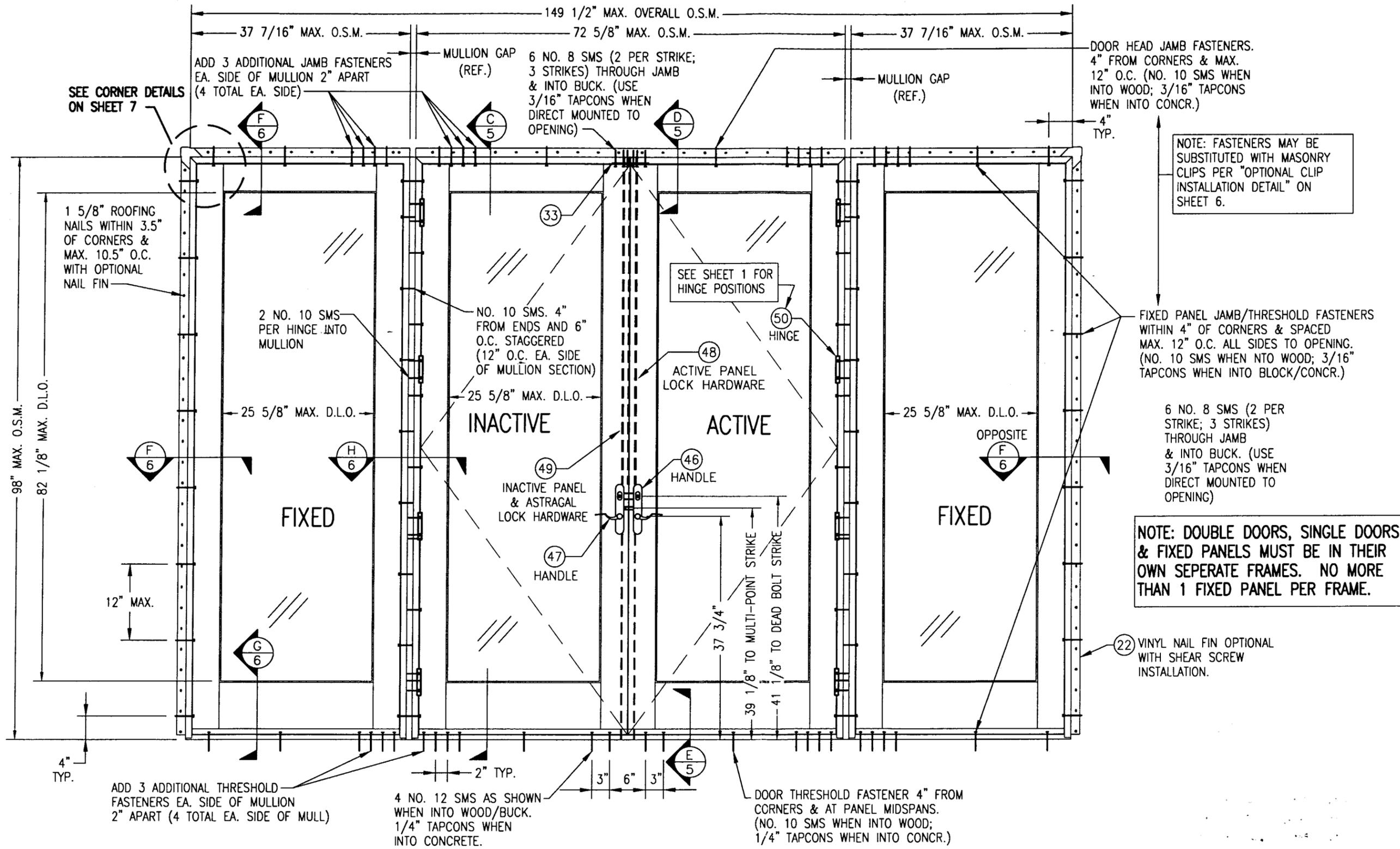
CONSULTANTS:
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
600 SANDTREE DRIVE, SUITE 203B
PALM BEACH GARDENS, FL 33403
PHONE: 561-775-4902 FAX: 561-775-4903

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

CERTIFICATION:
AUG 01 2001
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: January 03, 2002
BY: Ishag I. Chanda
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0502.09

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

DRAWING NO. 1034	REV.
SHEET NO. 1	OF 8



DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-16	DATE: 04/02/01
DATE	
BY	
REVISION DESCRIPTION	
NO.	

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.
 600 SANDTREE DRIVE, SUITE 203B
 PALM BEACH GARDENS, FL 33403
 PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION
 AUG 01 2001
 WARREN W. SCHAEFER, P.E.
 P.E. NO. 44135

DRAWING NO. 1034
 SHEET NO. 2 OF 8

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

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

THE FOLLOWING ARE APPROVED COMBINATIONS:
 XX, OX, OXO, XO, OOO, OXX, OXXO, XXOO, OOOO, XXXX

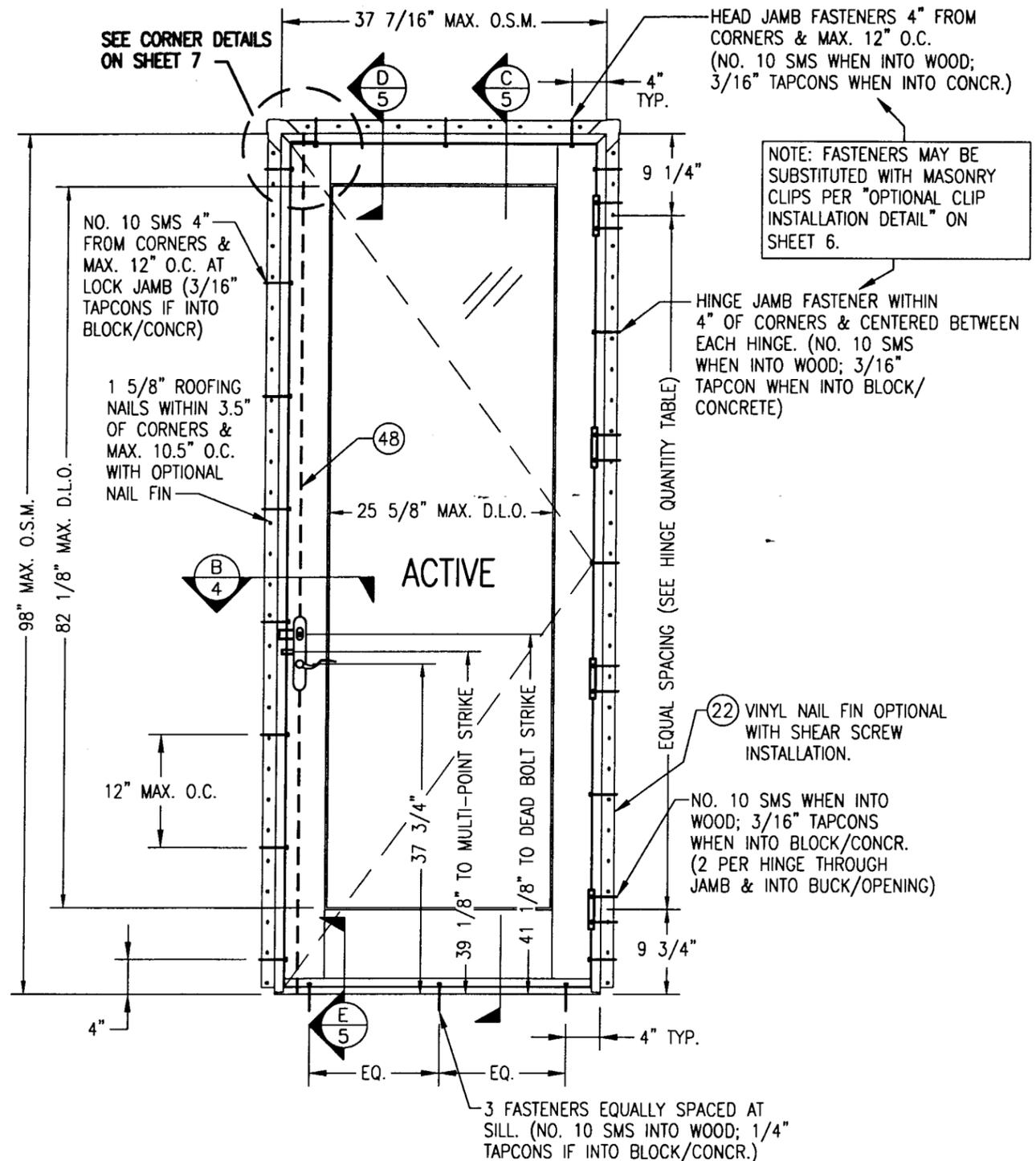
O.S.M. = OUTSIDE FRAME MEASUREMENT

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

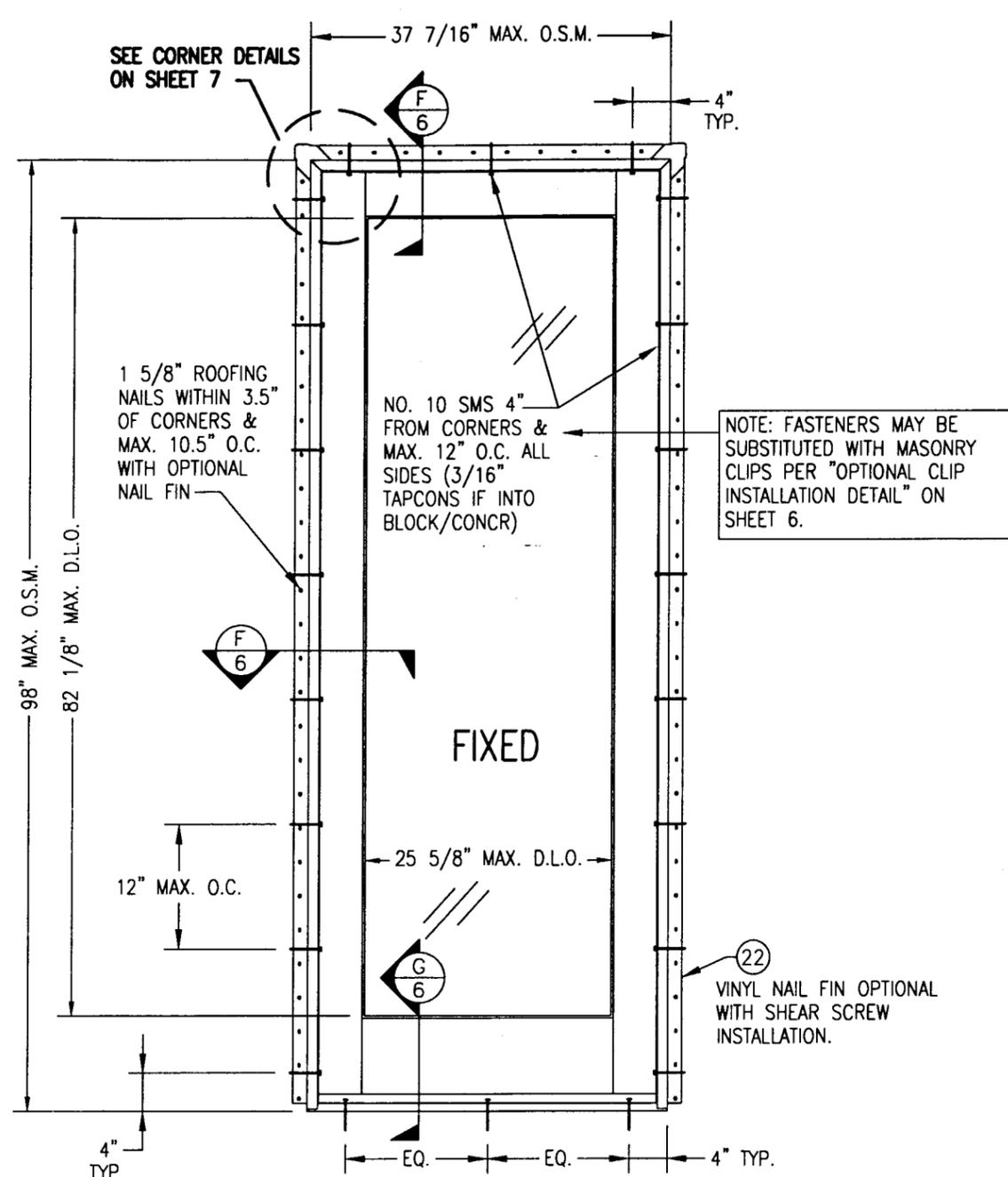
**NOTE: DOUBLE DOORS, SINGLE DOORS
 & FIXED PANELS MUST BE IN THEIR
 OWN SEPERATE FRAMES. NO MORE
 THAN 1 FIXED PANEL PER FRAME.**

**NOTE: FASTENERS MAY BE
 SUBSTITUTED WITH MASONRY
 CLIPS PER "OPTIONAL CLIP
 INSTALLATION DETAIL" ON
 SHEET 6.**

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE Jan 03, 2002
 BY Isaac I. Chanda
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-050209



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



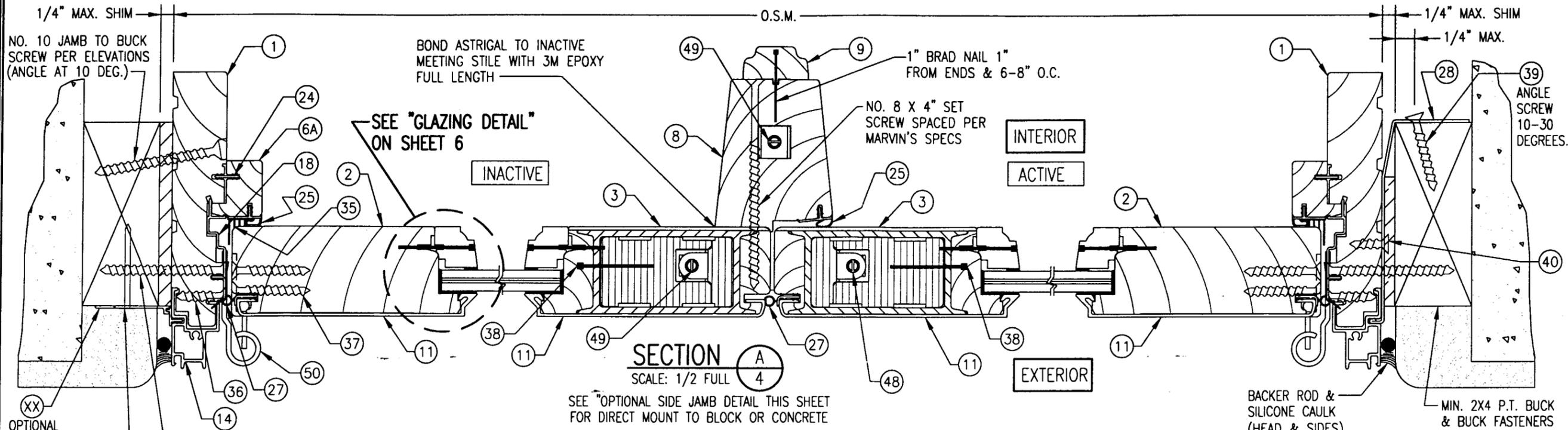
EXTERIOR ELEVATION; FIXED PANEL DOOR
SCALE: 3/4" = 1'-0"

O.S.M. = OUTSIDE FRAME MEASUREMENT

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

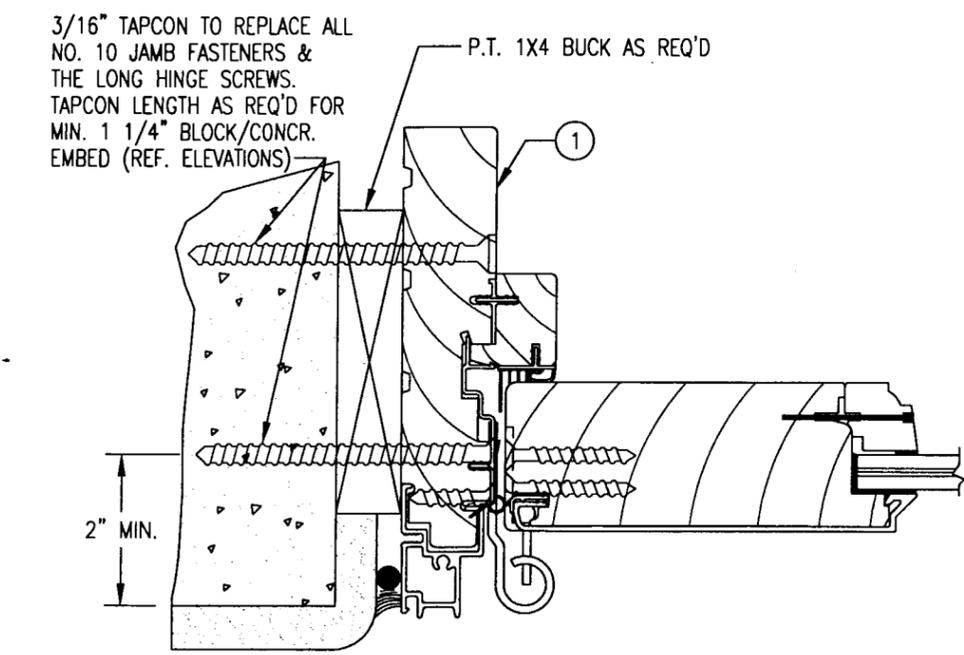
APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE Jan 03, 2002
BY Ishag J. Chauda
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0502.09

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-16	DATE: 04/02/01
DATE	
BY	
REVISION DESCRIPTION	
NO.	
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. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION	
AUG 01 2001	
DRAWING NO.	REV.
1034	
SHEET NO.	
3	OF 8

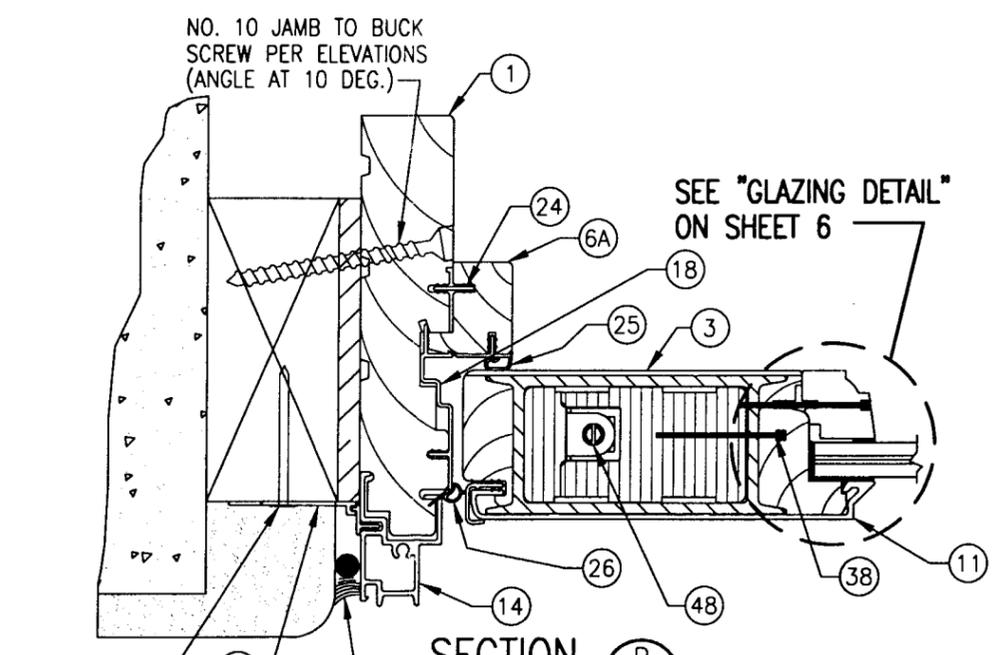


SHEAR SCREW INSTALLATION
 NO. 10 JAMB TO BUCK SCREW PER ELEVATIONS (ANGLE AT 10 DEG.)
 NO. 10 HINGE SCREW PER ELEVATION
 ROOFING NAIL PER ELEVATIONS
 OPTIONAL

CLIP INSTALLATION
 SEE OTHER SIDE FOR DETAIL NOT SHOWN
 BACKER ROD & SILICONE CAULK (HEAD & SIDES)
 MIN. 2X4 P.T. BUCK & BUCK FASTENERS BY OTHERS
 ANGLE SCREW 10-30 DEGREES.



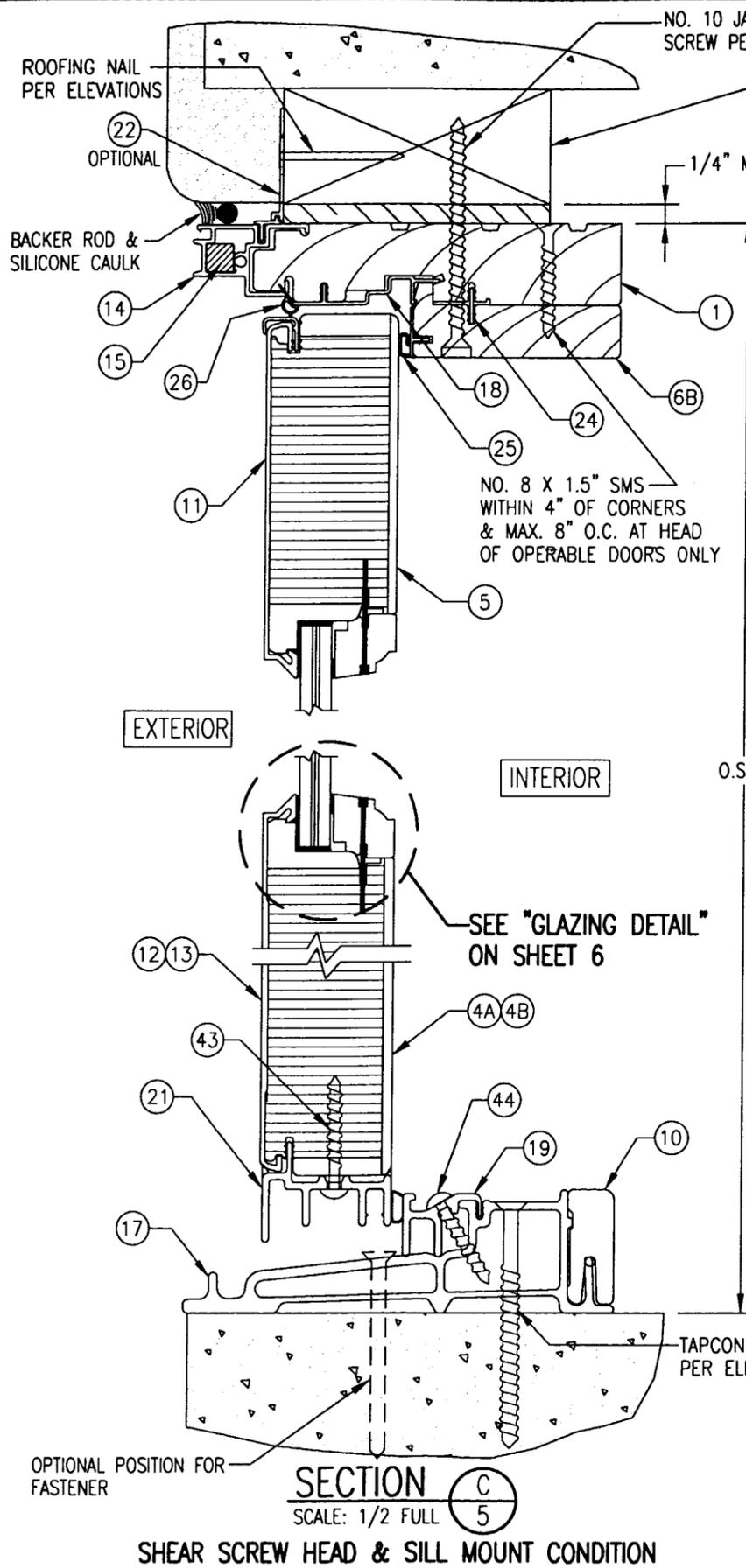
OPTIONAL SIDE JAMB DETAIL FOR DIRECT MOUNT TO CONCRETE OR BLOCK
 SCALE: 1/2 FULL SIZE
 (TYP. ALL UNITS; FIXED & OPERABLE)
 SEE SECTIONS A, B & F FOR DETAIL NOT SHOWN



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

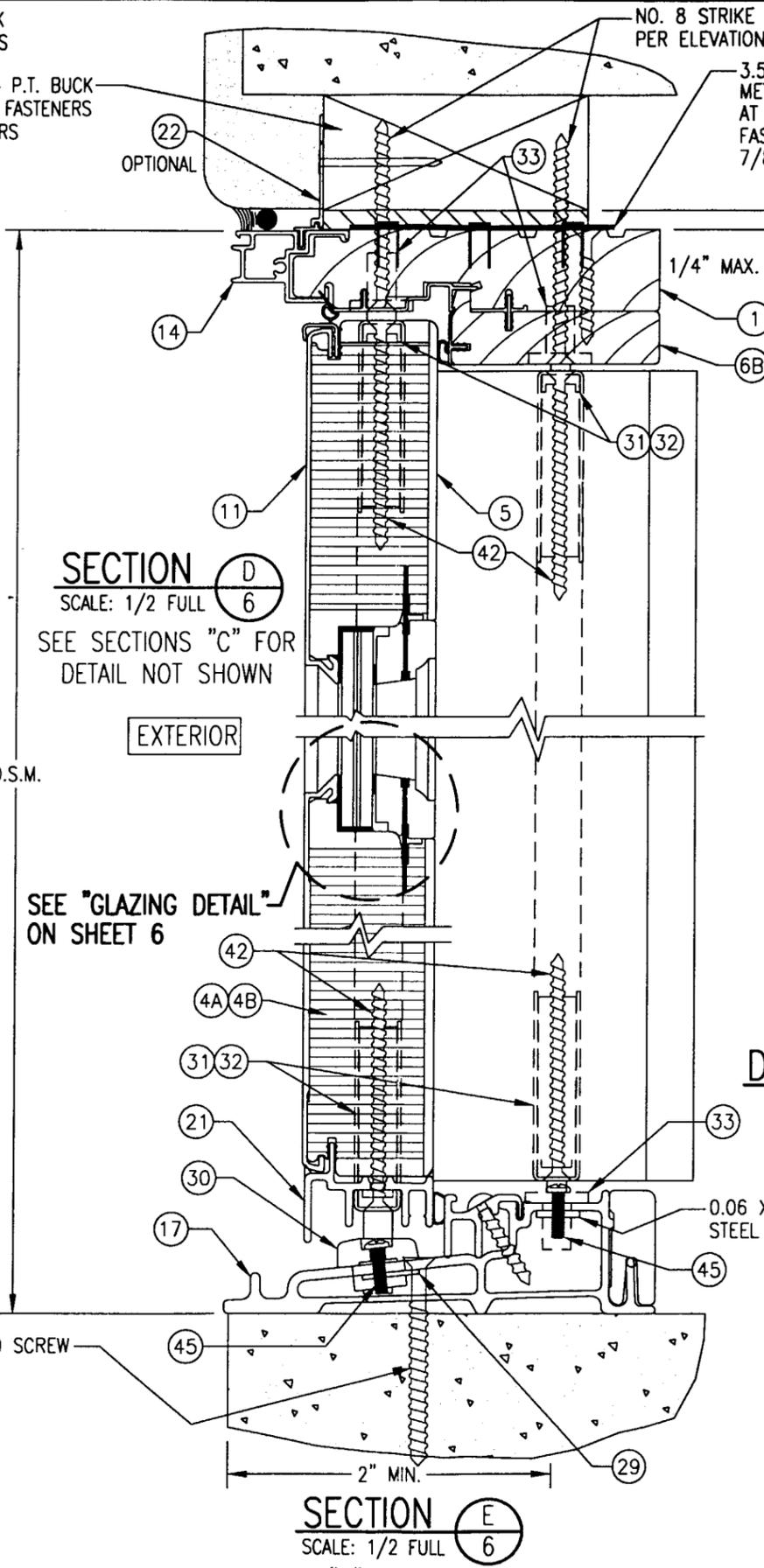
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE Jan 03, 2002
 BY Ishaq I. Chaudhry
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-0502.09

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-16		DATE: 04/02/01	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE CLAD OUTSWING FRENCH DOOR IMPACT HP			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 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 AUG 01 2001 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1034		REV. 	
SHEET NO. 4 OF 8			



SECTION C
SCALE: 1/2 FULL
5

SHEAR SCREW HEAD & SILL MOUNT CONDITION

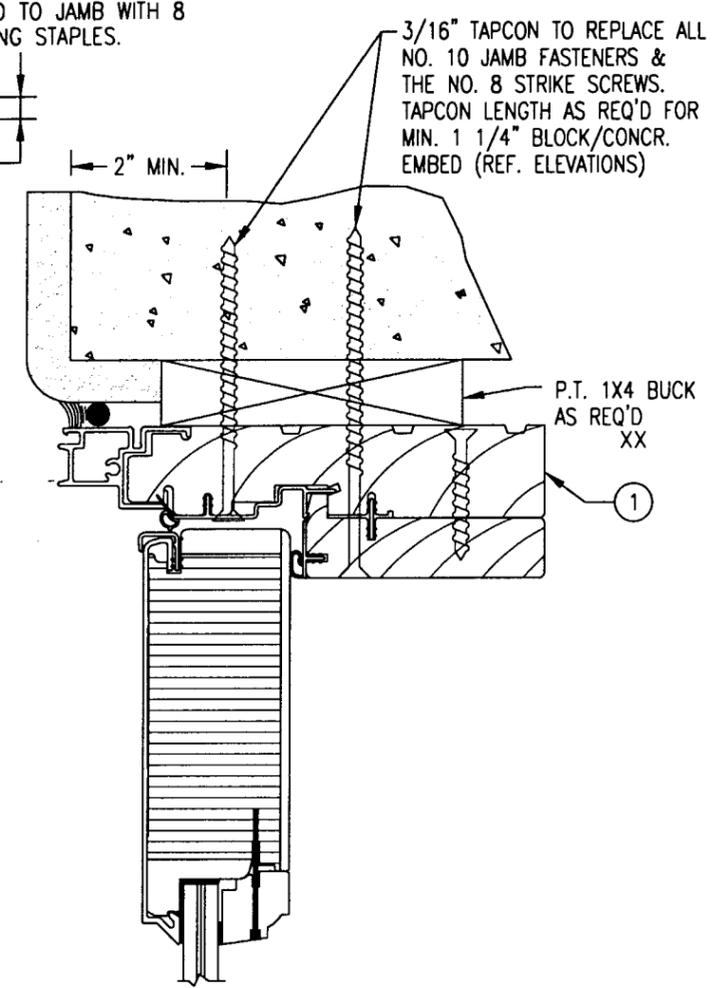


SECTION D
SCALE: 1/2 FULL
6

SEE SECTIONS "C" FOR
DETAIL NOT SHOWN

SECTION E
SCALE: 1/2 FULL
6

SEE SECTIONS "C" FOR
DETAIL NOT SHOWN

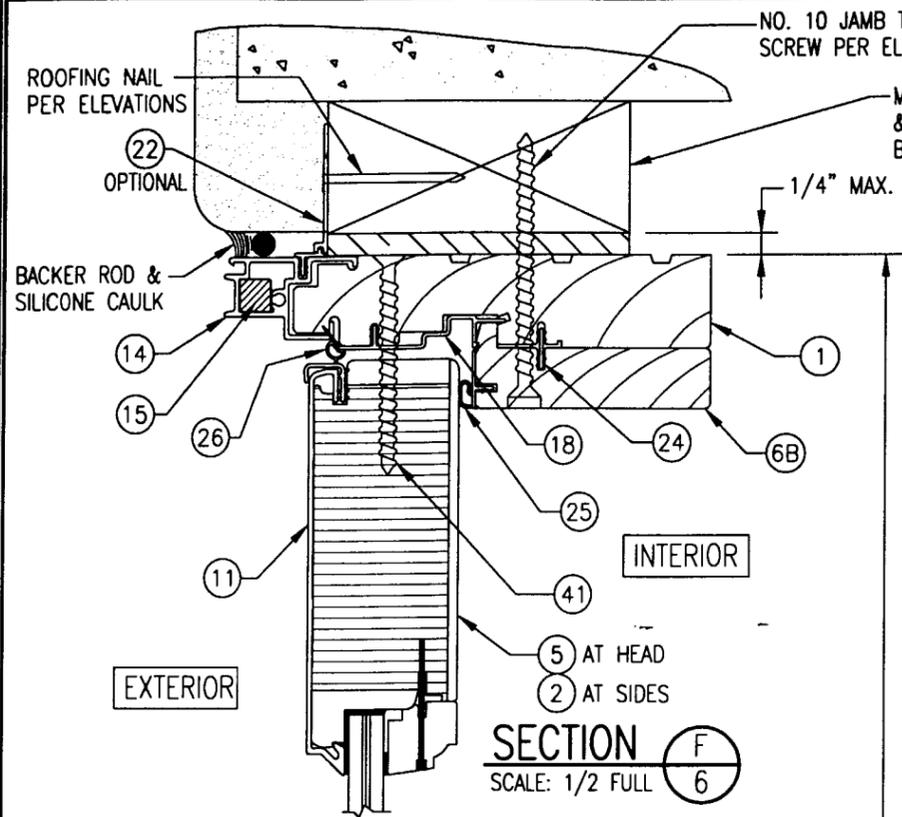


**OPTIONAL HEAD JAMB DETAIL FOR
DIRECT MOUNT TO CONCRETE OR BLOCK**

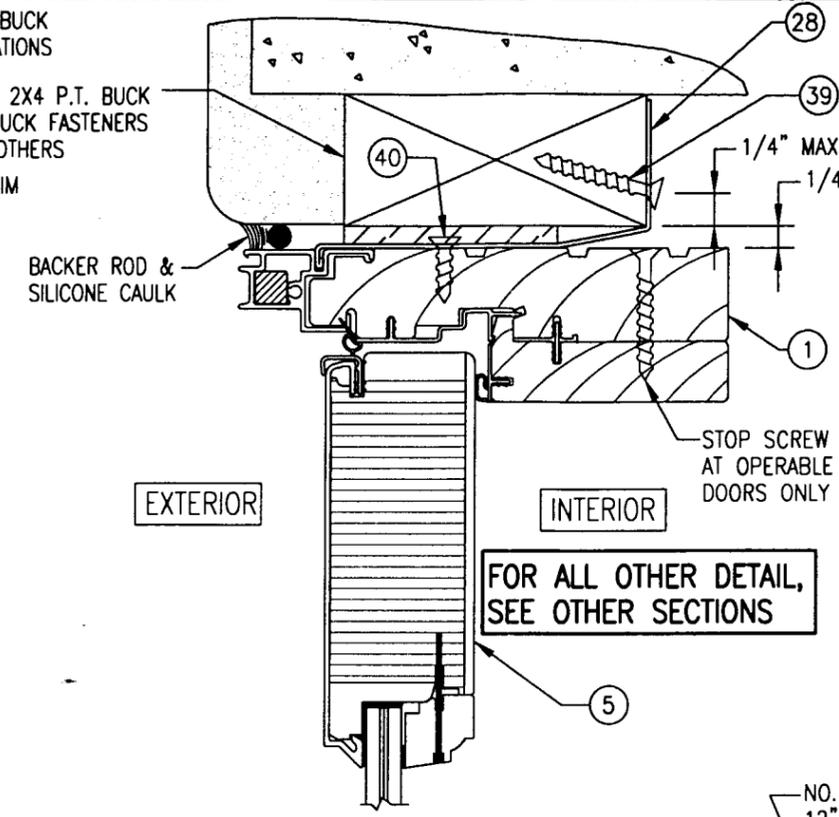
SCALE: 1/2 FULL SIZE
(TYP. ALL UNITS; FIXED & OPERABLE)
SEE SECTIONS C, D, & F FOR
DETAIL NOT SHOWN

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE Jan 03, 2002
BY Isaac I. Chaudhry
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0502-09

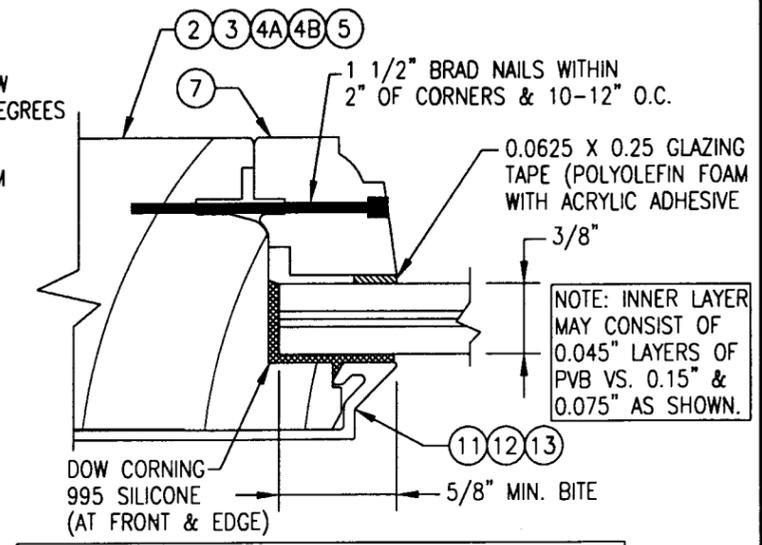
DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-18		DATE: 04/02/01	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE CLAD OUTSWING FRENCH DOOR IMPACT HP			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.			
MANUFACTURER MARVIN WINDOWS & DOORS			
600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903			
HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044			
CERTIFICATION	AUG 01 2001		
DRAWING NO. 1034			
SHEET NO. 5 OF 8			



SECTION F
SCALE: 1/2 FULL

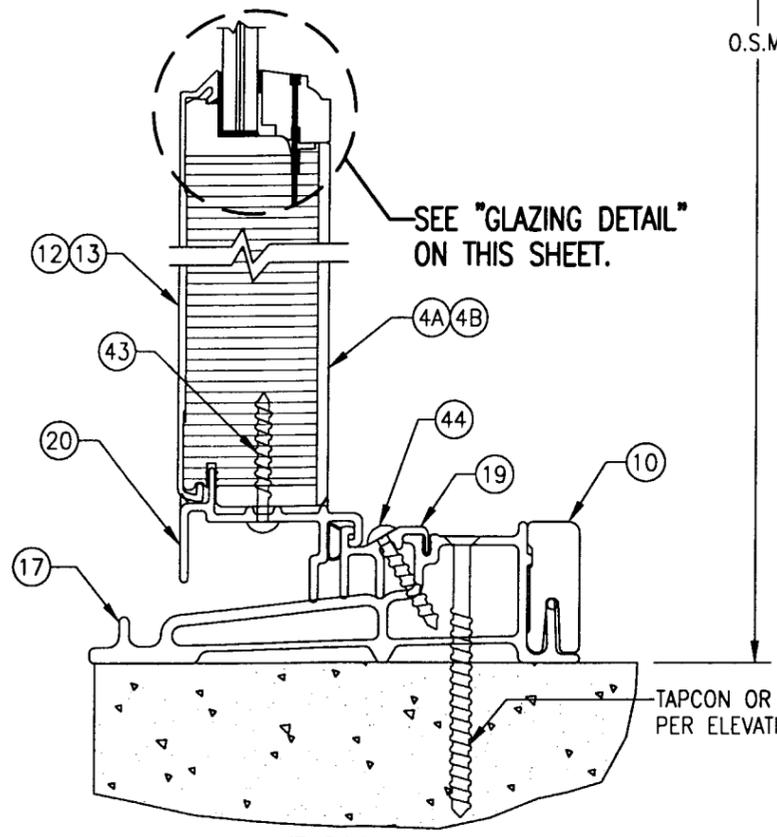


OPTIONAL CLIP INSTALLATION DETAIL
CLIPS MAY REPLACE JAMB SCREWS AT LOCATIONS PER ELEVATIONS.
(TYP. AT FIXED & OPERABLE UNITS)



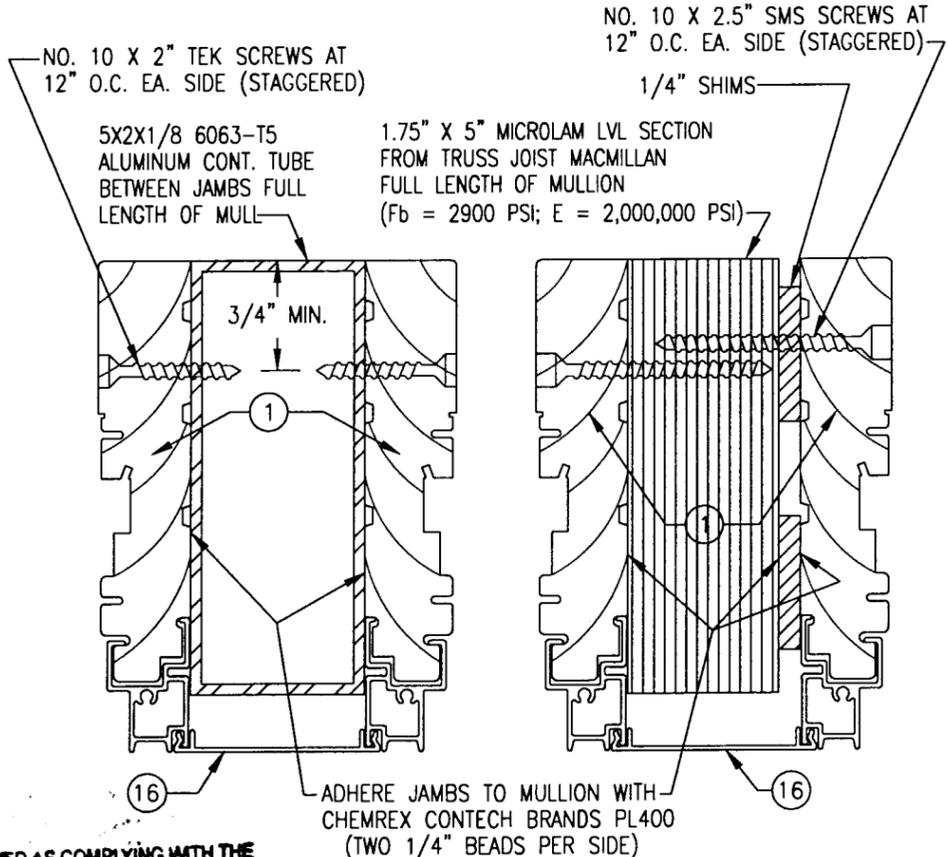
GLASS IS 3/8" CARDINAL SEASTORM TYPE "B" LAMINATED GLASS (5/32" ANNEALED/0.015 PVB/0.07 PET/0.075 PVB/5/32" ANNEALED)

TYP. GLAZING DETAIL
SCALE: FULL SIZE



SECTION G
SCALE: 1/2 FULL

SHEAR SCREW HEAD & SILL MOUNT CONDITION SHOWN

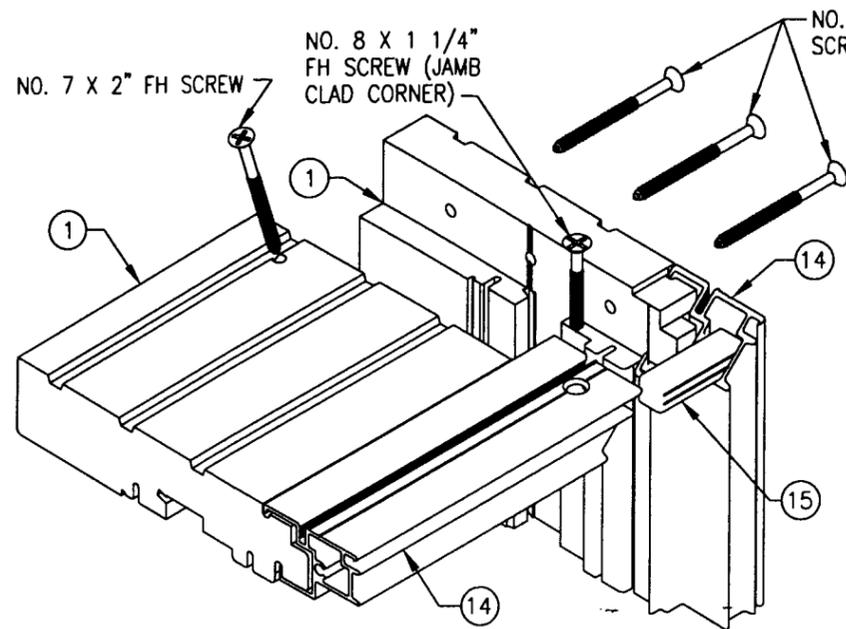


SECTION H
SCALE: 1/2 FULL

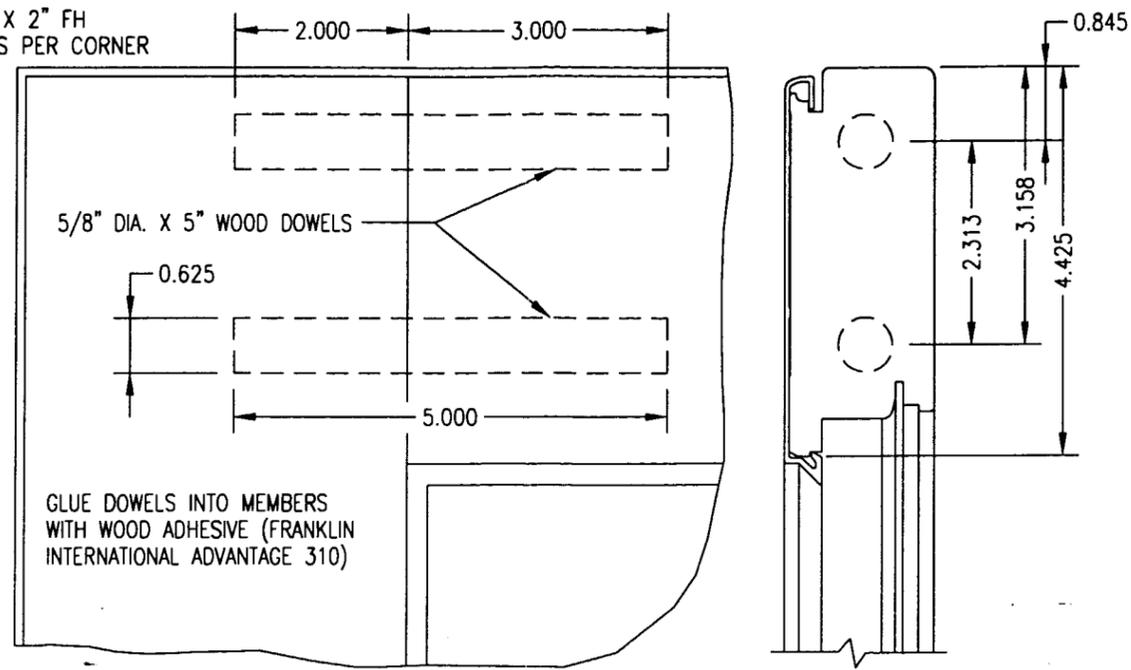
(2 MULLION OPTIONS)
SEE OTHER SECTIONS FOR DETAIL OF STILE MEMBERS NOT SHOWN

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: Jan 03, 2002
BY: [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0502-09

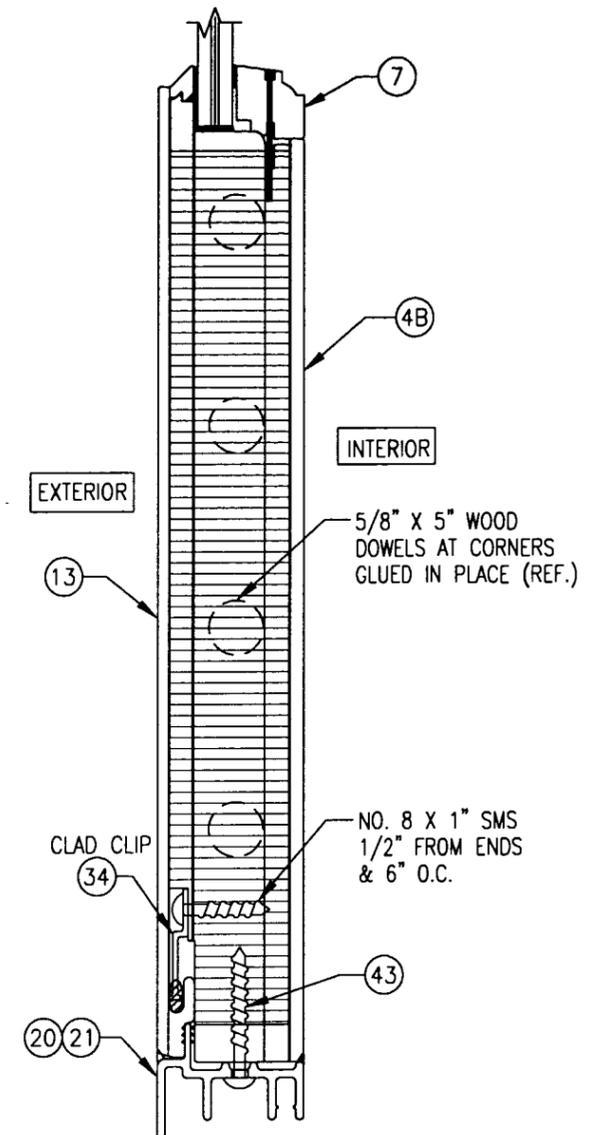
DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLT: 1-18	DATE: 04/02/01
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE: CLAD OUTSWING FRENCH DOOR IMPACT HP MANUFACTURER: MARVIN WINDOWS & DOORS HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE; SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION: AUG 01 2001 [Signature] WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1034	REV.
SHEET NO. 6 OF 8	



JAMB TO JAMB CORNER DETAIL



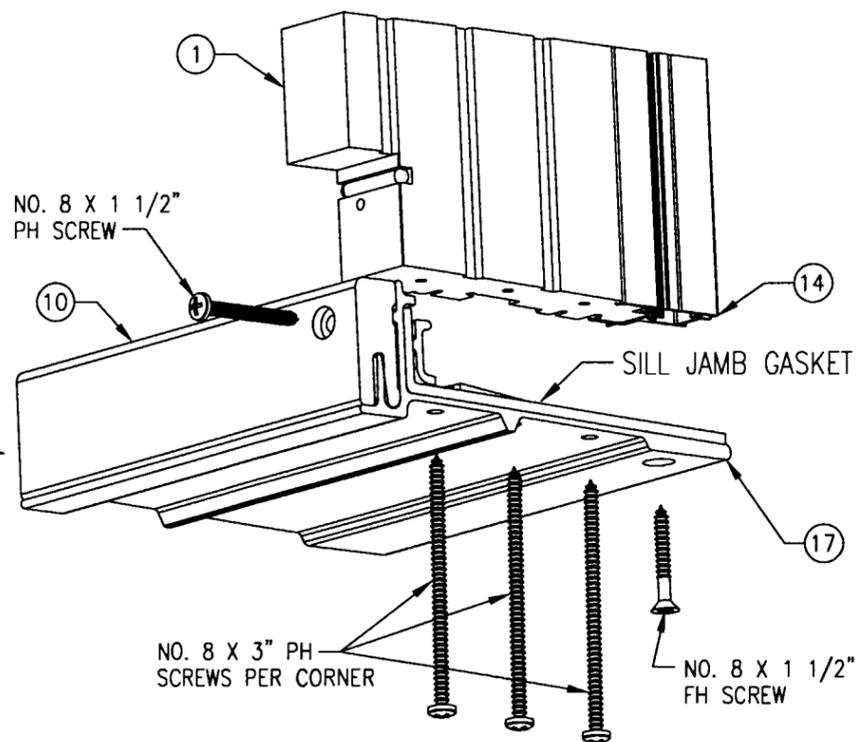
STILE TO TOP RAIL CORNER DETAIL



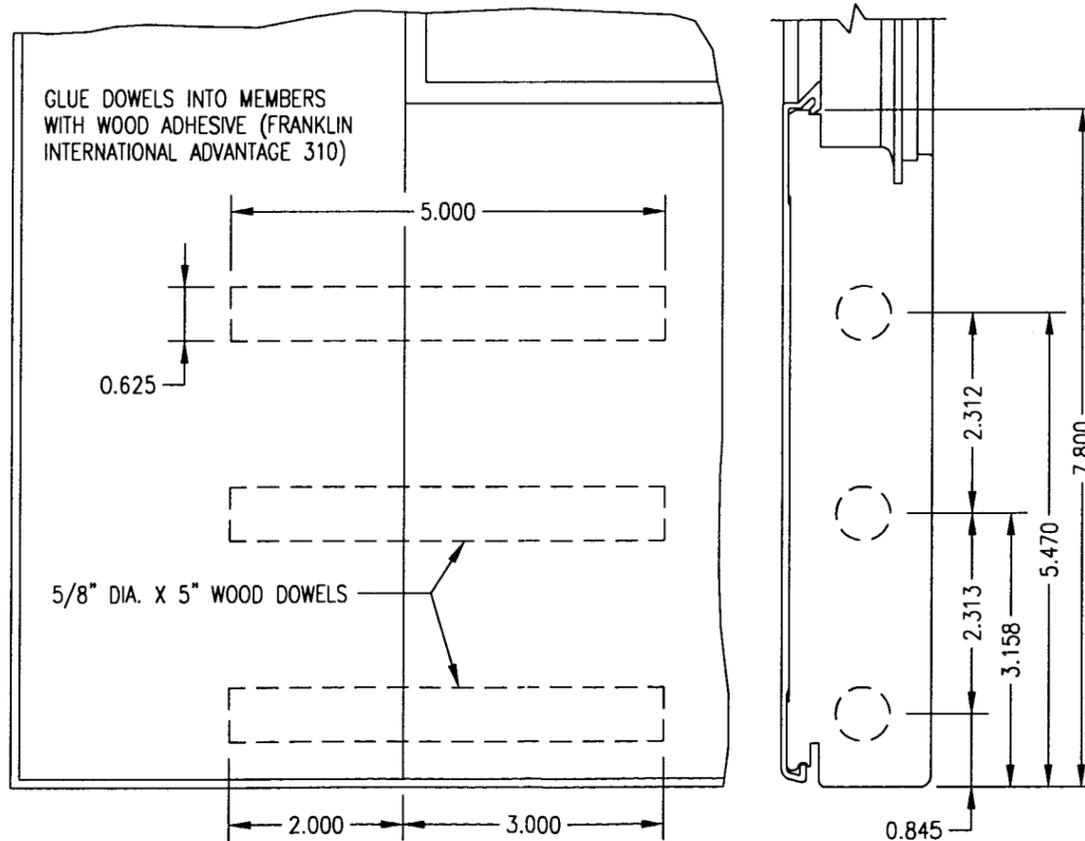
ALTERNATE BOTTOM RAIL DETAIL

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.



JAMB TO THRESHOLD CORNER DETAIL



STILE TO BOTTOM RAIL CORNER DETAIL

SIMILAR AT WIDE BOTTOM RAIL EXCEPT 4 DOWELS ARE USED

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE Jan 03 2002
 BY Shag I. Chanda
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-0502.09

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-16	DATE: 04/02/01
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE CLAD OUTSWING FRENCH DOOR IMPACT HP	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	MANUFACTURER MARVIN WINDOWS & DOORS
600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044
CERTIFICATION AUG 01 2001	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1034	REV.
SHEET NO. 7	OF 8

PARTS LIST			
NO.	REF. NO.	DESCRIPTION	NOTES
PARTS & EXTRUSIONS			
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
FASTENERS			
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

PARTS LIST			
NO.	REF. NO.	DESCRIPTION	NOTES
HARDWARE			
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)
OTHER			
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=16	DATE: 04/02/01
DATE	
BY	
REVISION DESCRIPTION	
NO.	

CLAD OUTSWING FRENCH DOOR IMPACT HP

DRAWING TITLE

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.

MANUFACTURER
MARVIN WINDOWS & DOORS

600 SANDTREE DRIVE, SUITE 203B
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PHONE: 561-775-4902 FAX: 561-775-4903

HIGHWAY 11; P.O. BOX 100
WARROAD, MN 56763
800-346-5044

CERTIFICATION

AUG 01 2001

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

DRAWING NO. 1034
SHEET NO. 8 OF 8

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE January 03, 2002
BY Shag I. Changle
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0502.09