



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

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

[www.miamidade.gov/buildingcode](http://www.miamidade.gov/buildingcode)

**NOTICE OF ACCEPTANCE (NOA)**

**Tischler Und Sohn (USA) Ltd.  
Six Suburban Avenue  
Stamford, Ct. 06901**

**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: Tischler series Outswing Impact Wood Doors-L.M. Impact**

**APPROVAL DOCUMENT:** Drawing No.1600, titled "Out-Swing Impact Wood Doors", sheets 1 through 17 of 17, dated APR 22, 2009, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren 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 Missile Impact Resistant**

**Limitation:**

1. MDF material: Medite Exterior MDF panel EN 622 Type MDF-H2
2. For reinforcement requirements see sheet 8 & glass options on sheet 11.
3. Lower design pressure shall control when doors mulled with Tishler's sidelites or transom.

**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 page, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



**NOA No 09-0212.04  
Expiration Date: May 27, 2014  
Approval Date: May 27, 2009  
Page 1**

5/16/09

**Tischler Und Sohn (USA) Ltd.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's parts and sections drawings.
2. Drawing No.1600, titled "Out-Swing Impact Wood Doors", sheets 1 through 17 of 17, dated APR 22, 2009, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren 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 installation diagram of Single & Double Outswing /Inswing, Tilt/Turn Mahogany Wood French doors w/wo Sidelite & Transom, w/ MDF & wood Veneered Panels and different shapes top, prepared by Architectural Testing, Test Report(s) No. **ATI 77326.01-109-18**, dated 02/03/09 and **ATI 77327.01-109-18**, dated 02/202/09, both signed and sealed by Michael D. Stremmel, P.E.

2. Additional test report: ATI 77324.01-109.18 (specimen A3-1 & A3-7) issued by Architectural Testing per TAS 201, 202 and 203-94.

**C. CALCULATIONS:**

1. Anchor Calculations and structural analysis dated 02/09/09 and 04-22-09, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed & sealed by Warren Schaefer, P.E.
2. Glazing complies w/ ASTM E-1300-02 & -04

**D. QUALITY ASSURANCE BY;**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **06-0216.06** issued to Solutia, for "Saflex III G clear & color interlayer", expiring on 05/21/2011.
2. Notice of Acceptance No. **08-0520.08** issued to Solutia, Inc. for "Vanceva Composites", expiring on 12/11/13.
3. Test report No. ATI-86006.01-106-18 (Rev 2) dated 12/12/08 and ATI-86006.02-106-18 02/05/09 for "Durability of Wood-Based Composite Lumber and panels" per ASTM ASTM D-1761 and ASTM D-4761, issued by Architectural Testing Lab.

**F. STATEMENTS**

1. Letter of conformance to FBC 2007 & "No financial interest" dated February 09, 2009, signed and sealed by Warren Schaefer, P.E.
2. Laboratory Statement of compliance, part of the test reports.
3. E-mail statement dated 03/31/09, issued by Michael D. Stremmel, P.E. of Architectural testing in reference to low sill, water infiltration test.

**F. OTHER**

1. Test proposal # **07-3533** dated Oct 22, 2007, approved by BCCO.
2. Distribution agreement between Tischler Und Sohn (USA) and Tischler/Cornelius Korn GmbH, Germany, signed by Tim Carpenter & Wilhem Korn, respectively.
3. Tischler's Fixed Casement windows NOA(s) w/ Drawing No. **1514** or **1533**.

*Ishag I Chanda*  
Ishag I Chanda, P.E.

Product Control Examiner

NOA No 09-0212.04

Expiration Date: May 27, 2014

Approval Date: May 27, 2009

**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 WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTION 2.0 OF 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.

LOCK STRIKE REQUIREMENTS (TOP OF PANEL)	
PANEL WIDTH	QUANTITY PER PANEL
RECTANGULAR PANEL	
ALL WIDTHS	2
ARCH & ROUND TOP PANEL	
OVER 32"	3
28" TO 32"	2

(1) LOCK STRIKE REQUIREMENTS (BOTTOM OF PANEL)	
PANEL WIDTH	QUANTITY PER PANEL
ALL PANEL SHAPES	
ALL WIDTHS	2
(1) WHEN ADA SILL IS USED WITH DOUBLE DOORS, ONLY THE KVF LOCK SYSTEM MAY BE USED. WHEN ADA SILL IS USED WITH A SINGLE DOOR, BOTH THE KVF & SIEGENIA LOCK SYSTEMS APPLY BUT DO NOT REQUIRE SILL STRIKES.	

LOCK STRIKE REQUIREMENTS (LOCK SIDE OF PANEL)	
(1) PANEL HEIGHT	QUANTITY PER PANEL
ALL PANEL SHAPES	
OVER 96"	4
76" TO 96"	3
(1) THE "PANEL HEIGHT" IS CONSIDERED TO BE FULL PANEL HEIGHT FOR RECTANGULAR UNITS OR DISTANCE FROM THE BASE OF PANEL TO PANEL SRINGLINE FOR SHAPED UNITS	

HINGE REQUIREMENTS	
(1) PANEL HEIGHT	QUANTITY PER PANEL
OVER 99"	5
76" TO 99"	4
(1) THE "PANEL HEIGHT" IS CONSIDERED TO BE FULL PANEL HEIGHT FOR RECTANGULAR UNITS OR DISTANCE FROM THE BASE OF PANEL TO PANEL SRINGLINE FOR SHAPED UNITS	

**FRAME ANCHOR REQUIREMENTS TABLE**

OPENING TYPE (SUBSTRATE)	FRAME/SILL/CLIP/BRACKET TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
<b>FRAME/SILL SCREWS</b>			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS/WOOD SCREW OR 1/4" BTI SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	(2) 1/4-14 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	(2) 1/4-14 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	(2) 1/4-14 SELF TAP/DRILLING SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
<b>INSTALLATION CLIP SCREWS</b>			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 X 1 1/2" SMS	1 3/8"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	(2) 12-14 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	(2) 12-14 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	(2) 12-14 SELF TAP/DRILLING SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
<b>BTI BRACKET SCREWS</b>			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"
<b>ANGLE CLIP SCREWS</b>			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 3/16" CONCRETE SCREW	1 1/4"	2"

PANEL WIDTH DIMENSIONS ARE APPROXIMATELY 3" LESS THAN THE FRAME WIDTH & PANEL HEIGHT WIDTH DIMENSIONS ARE APPROXIMATELY 1 3/4" LESS THAN THE FRAME HEIGHT

**ALLOWABLE DESIGN PRESSURE (SINGLE & DOUBLE OPERABLE DOORS)**

MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
<b>SINGLE DOOR</b>			
51 11/16	120	(2) 70	(2) 70
41 1/2	99	70	(1) 85
<b>DOUBLE DOOR</b>			
80 1/16	120	70	70
80 1/16	99	70	(1) (3) 85

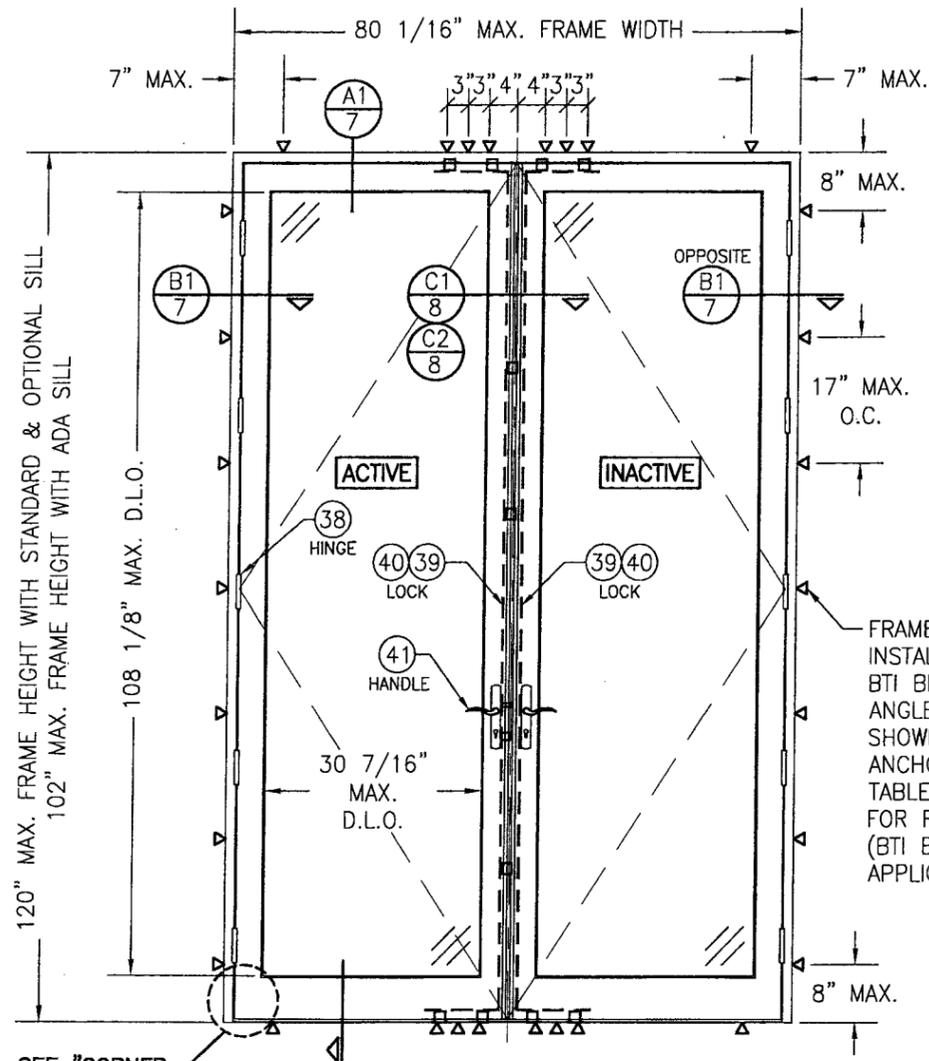
- (1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTIONS 2 & 5 ARE USED & WITH STANDARD OR OPTIONAL SILL (USE OF ADA SILL IS NOT APPLICABLE TO UNITS WITH PRESSURE EXCEEDING +/-70 PSF).
- (2) WITH FULL SIZE SINGLE DOORS USING GLASS OPTION 4, ALLOWABLE PRESSURE MUST BE REDUCED TO +/-65 PSF. PRESSURE MAY BE INCREASED TO +/-70 PSF IF THE D.L.O. WIDTH IS DECREASED TO MAX. 38.5" OR THE D.L.O. HEIGHT IS DECREASED TO MAX. 98".
- (3) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WITH DOUBLE DOORS WHEN THE DOUBLE DOOR MEETING STILES ARE BAR REINFORCED (REF. SECTIONS).

**CORNER CONSTRUCTION:**

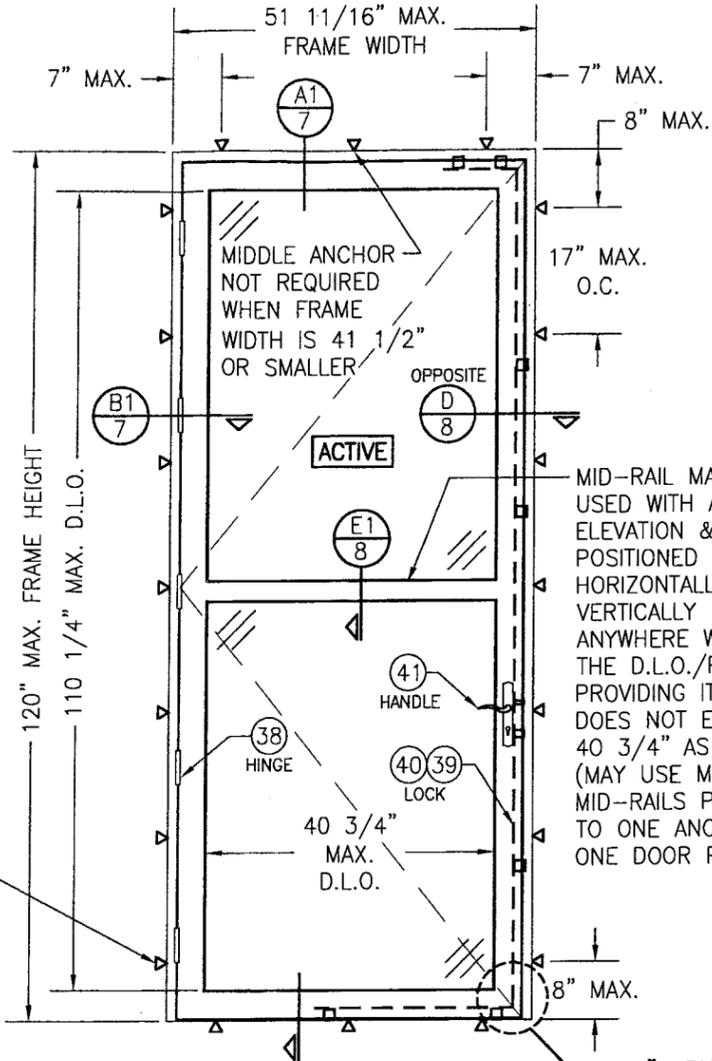
**RECTANGULAR FRAME CORNERS:** MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.  
**ARCHED FRAME CORNERS:** ARCHED FRAME BUTTED TO STRAIGHT FRAME, JOINED WITH ONE(1) NO.14 X 3" WOOD SCREW, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.  
**HALF ROUND FRAME CORNERS:** FINGER JOINT CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.  
**RECTANGULAR PANEL CORNERS:**  
**OPTION 1** (USED WITH STILE & RAIL CONDITIONS WHERE MEMBERS ARE 4.250" OR LESS IN OVERALL HEIGHT): MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.  
**OPTION 2** (USED WITH STILE & RAIL CONDITIONS WHERE MEMBERS ARE GREATER THAN 4.250" IN OVERALL HEIGHT): MEMBERS ARE SQUARE CUT, BUTTED, JOINED WITH FIVE(5) #5/16 X 2" WOOD DOWELS, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.  
**ARCHED PANEL CORNERS:** ARCHED RAIL BUTTED TO STRAIGHT STILE, JOINED WITH ONE(1) NO.14 X 3" WOOD SCREW, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.  
**HALF ROUND PANEL CORNERS:** FINGER JOINT CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.  
**SILL CORNERS:**  
 ALL SILL CONDITIONS: SILL IS BUTTED TO THE JAMBS & JOINED WITH THREE(3) NO.6 X 2" WOOD SCREWS & SEALED WITH SEALANT.

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).  
 (2) ALL SELF TAP/DRILLING SCREWS SHALL BE MIN. GR. 5

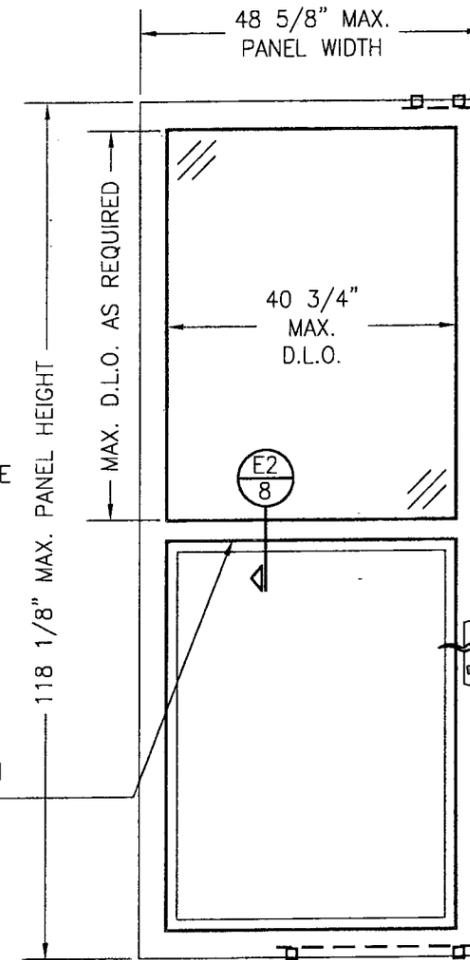
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 10/08/08
DATE	
BY	
REVISION DESCRIPTION	
NO.	
<b>OUT-SWING IMPACT WOOD DOORS</b>	
MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b> SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
DRAWING TITLE <b>OUT-SWING IMPACT WOOD DOORS</b>	
CERTIFICATION <b>APR 28 2009</b> Approved as complying with the Florida Building Code Date <b>MAY 27 2009</b> NOA# <b>09-0212-04</b> Miami Dade Product Control Division By <b>Isaac L. Chaudhry</b>	
DRAWING NO. <b>1600</b>	REV.
SHEET NO. <b>1 OF 17</b>	



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



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



EXTERIOR ELEVATION:  
PARTIAL RAISED PANEL  
SCALE: 1/2" = 1'-0"

(SEE SINGLE DOOR ELEVATIONS FOR DOOR  
DETAIL AND INSTALLATION NOT SHOWN)

FRAME SCREWS,  
INSTALLATION CLIPS,  
BTI BRACKETS OR  
ANGLE CLIPS WHERE  
SHOWN. SEE "FRAME  
ANCHOR REQUIREMENTS  
TABLE" ON SHEET 1  
FOR REQUIREMENTS  
(BTI BRACKETS NOT  
APPLICABLE AT SILL).

MID-RAIL MAY BE  
USED WITH ANY  
ELEVATION & MAY BE  
POSITIONED  
HORIZONTALLY OR  
VERTICALLY  
ANYWHERE WITHIN  
THE D.L.O./PANEL  
PROVIDING ITS SPAN  
DOES NOT EXCEED  
40 3/4" AS SHOWN  
(MAY USE MULTIPLE  
MID-RAILS PARALLEL  
TO ONE ANOTHER IN  
ONE DOOR PANEL)

SEE "CORNER  
CONSTRUCTION"  
DESCRIPTION  
ON THIS SHEET

SEE "CORNER  
CONSTRUCTION"  
DESCRIPTION  
ON THIS SHEET

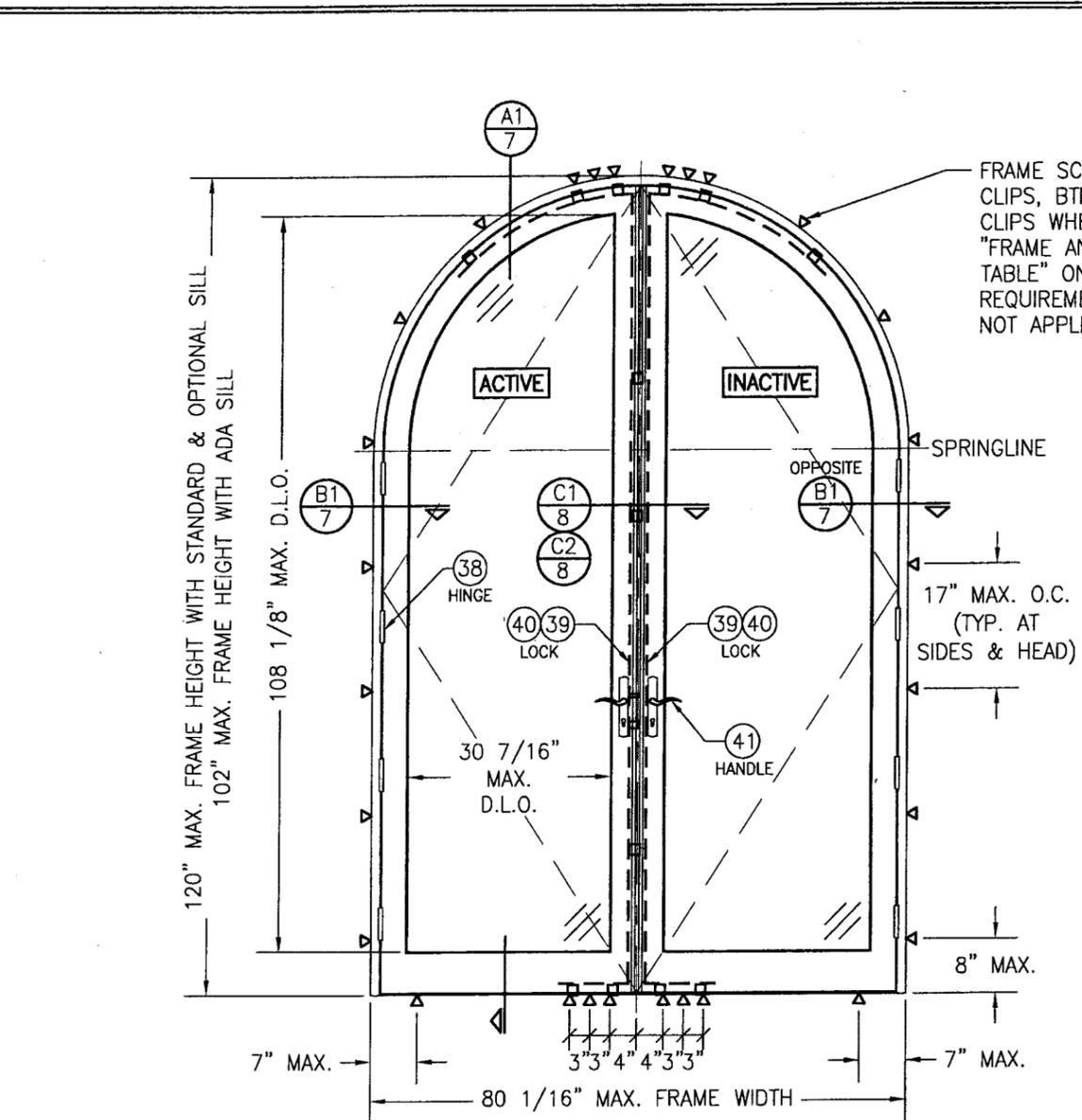
ALLOWABLE DESIGN PRESSURE  
SEE PRESSURE TABLE ON SHEET 1

**PANEL NOTES:**

1. SINGLE RAISED PANEL CONDITION SHOWN, MORE THAN ONE RAISED PANEL MAY EXIST IN A SINGLE DOOR PANEL WHEN MULTIPLE MID-RAILS ARE USED.
2. PANEL ONLY IS SHOWN. FOR INSTALLATION INTO FRAME, SEE OTHER ELEVATIONS.
3. THESE PANEL CONDITIONS APPLY WITH BOTH OPERABLE & FIXED PANEL DOORS
4. RECTANGULAR CONDITION SHOWN, SHAPED CONDITIONS ALSO APPLY.

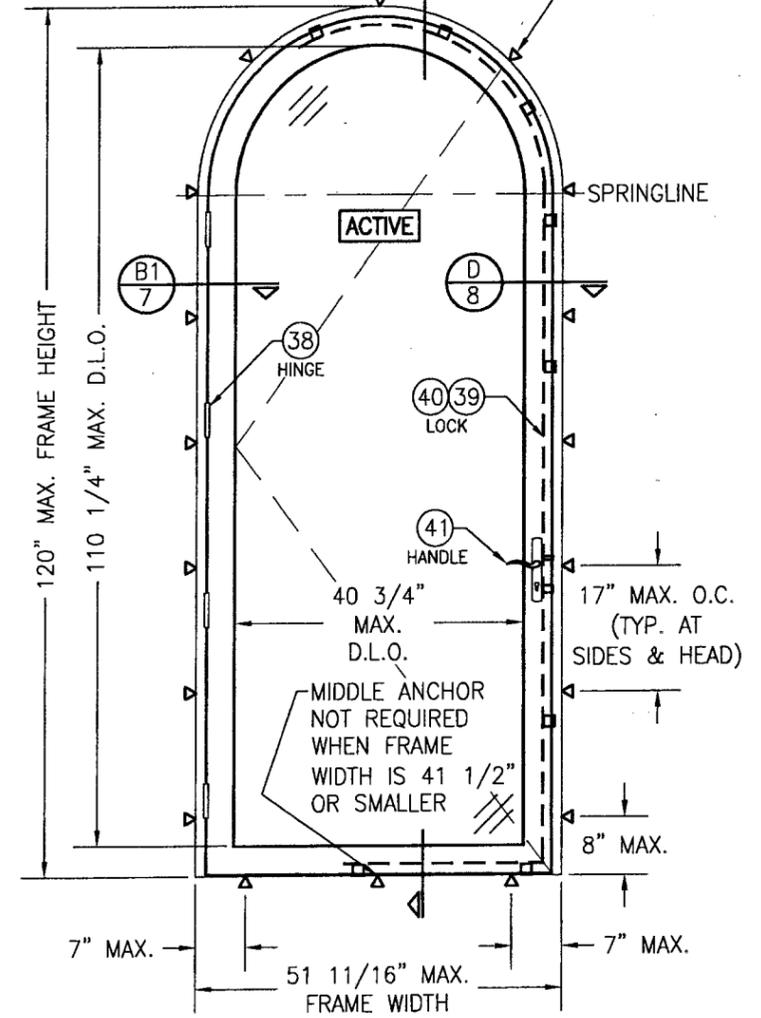
Approved as complying with the  
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Date MAY 27, 2009  
NOA# 09-0212.04  
Miami Dade Product Control  
Division  
By Ishag I. / handle

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 10/08/08	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE <b>OUT-SWING IMPACT WOOD DOORS</b>			
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b> SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CERTIFICATION <b>APR 22 2009</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. <b>1600</b>		REV.	
SHEET NO. <b>2 OF 17</b>			



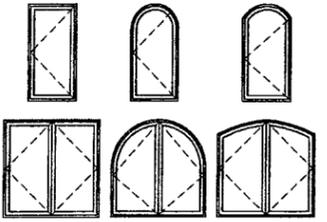
EXTERIOR ELEVATION:  
DOUBLE HALF ROUND DOOR  
SCALE: 1/2" = 1'-0"

FRAME SCREWS, INSTALLATION CLIPS, BTI BRACKETS OR ANGLE CLIPS WHERE SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS (BTI BRACKETS NOT APPLICABLE AT SILL).



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

APPROVED SHAPES  
(OPERABLE DOORS)



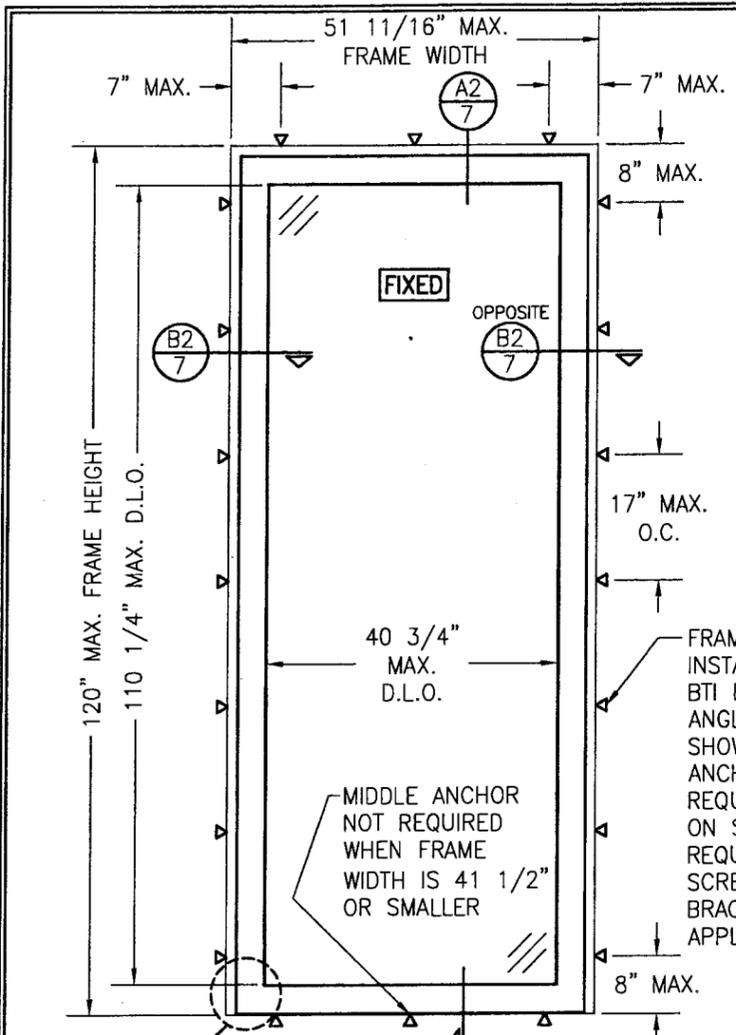
NOTES:  
1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED IN THIS DRAWING.  
2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.

ALLOWABLE DESIGN PRESSURE  
SEE PRESSURE TABLE ON SHEET 1

ANCHOR NOTE: ANCHOR SPACING AT THE HEAD OF ALL TYPES OF SHAPED DOORS MUST EQUAL THAT SPECIFIED AT THE SIDES (17" MAX. O.C.)

Approved as complying with the  
Florida Building Code  
Date MAY 27, 2009  
NOA# 04-0212.04  
Miami Dade Product Control  
Division  
By Shag I. Chaudh

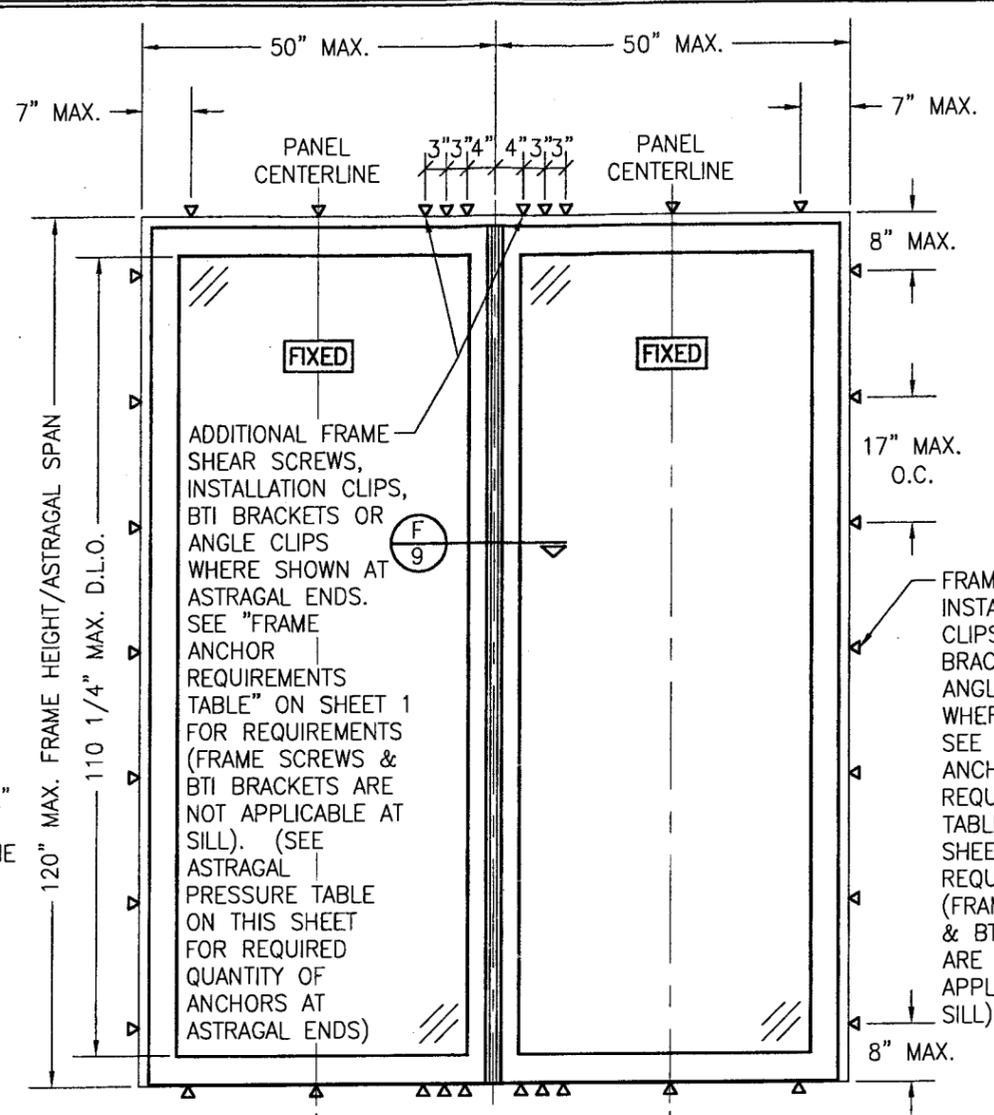
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 10/08/08	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE <b>OUT-SWING IMPACT WOOD DOORS</b>			
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b>		MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b>	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CERTIFICATION <b>APR 22 2009</b>			
WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO.	REV.		
1600			
SHEET NO.			
3 OF 17			



**EXTERIOR ELEVATION;  
SINGLE FIXED PANEL**

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

(RECTANGULAR FIXED DOOR SHOWN, SHAPED DOORS ALSO APPLY. SEE "APPROVED SHAPES" TABLE ON THIS SHEET)



**EXTERIOR ELEVATION;  
DOUBLE FIXED PANEL WITH FIXED ASTRAGAL**

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

SEE SINGLE FIXED PANEL ELEVATION FOR DETAIL NOT SHOWN

FIXED ASTRAGAL ALLOWABLE DESIGN PRESSURE					
MAXIMUM ASTRAGAL SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)			
		4 END ANCHORS		6 END ANCHORS	
		POS.	NEG.	POS.	NEG.
120	50	51.4	51.4	70.0	70.0
	48	53.5	53.5	70.0	70.0
	44	58.4	58.4	70.0	70.0
	40	64.2	64.2	70.0	70.0
	36	70.0	70.0	70.0	70.0
	32	70.0	70.0	70.0	70.0
108	50	57.1	57.1	70.0	70.0
	48	59.5	59.5	70.0	70.0
	44	64.9	64.9	70.0	70.0
	40	70.0	70.0	70.0	70.0
	36	70.0	70.0	70.0	70.0
	32	70.0	70.0	70.0	70.0
99	50	62.3	62.3	70.0	85.0
	48	64.9	64.9	70.0	85.0
	44	70.0	70.8	70.0	85.0
	40	70.0	77.9	70.0	85.0
	36	70.0	85.0	70.0	85.0
	32	70.0	85.0	70.0	85.0
96	50	64.2	64.2	70.0	85.0
	48	66.9	66.9	70.0	85.0
	44	70.0	73.0	70.0	85.0
	40	70.0	80.3	70.0	85.0
	37	70.0	85.0	70.0	85.0
	32	70.0	85.0	70.0	85.0
84	50	70.0	73.4	70.0	85.0
	48	70.0	76.5	70.0	85.0
	44	70.0	83.4	70.0	85.0
	43	70.0	85.0	70.0	85.0
	37	70.0	85.0	70.0	85.0
	32	70.0	85.0	70.0	85.0
80	50	70.0	77.1	70.0	85.0
	48	70.0	80.3	70.0	85.0
	45	70.0	85.0	70.0	85.0

**NOTES:**  
 1. LOAD WIDTH IS THE DISTANCE BETWEEN PANEL CENTERLINES.  
 2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL FIXED PANEL.  
 3. SIZE VALUES IN TABLE ARE +/- 1/4"

ALLOWABLE DESIGN PRESSURE (SINGLE FIXED PANELS)			
MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
51 11/16	120	(2) 70	(2) 70
51 11/16	99	70	(1) 85

(1) (1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTIONS 2 & 5 ARE USED & WITH STANDARD OR OPTIONAL SILL (USE OF ADA SILL IS NOT APPLICABLE TO UNITS WITH PRESSURE EXCEEDING +/-70 PSF).  
 (2) WITH FULL SIZE FIXED DOORS USING GLASS OPTION 4, ALLOWABLE PRESSURE MUST BE REDUCED TO +/-65 PSF. PRESSURE MAY BE INCREASED TO +/-70 PSF IF THE D.L.O. WIDTH IS DECREASED TO MAX. 38.5" OR THE D.L.O. HEIGHT IS DECREASED TO MAX. 98".

**APPROVED SHAPES (FIXED PANELS)**

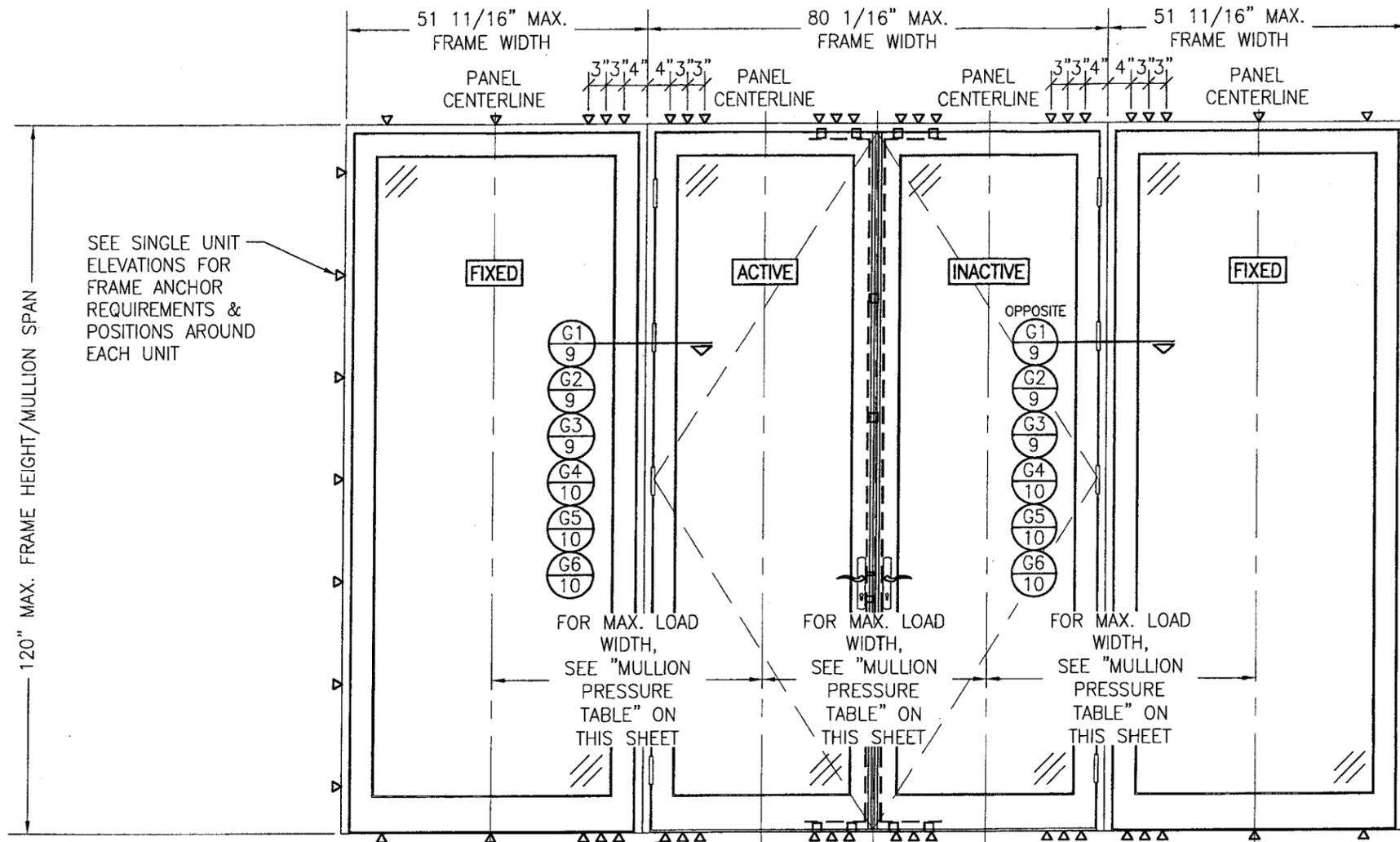


**NOTES:**  
 1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED IN THIS DRAWING.  
 2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.  
 3. THE SHAPES SHOWN APPLY TO SINGLE FIXED PANELS AND THE PANELS ON EITHER SIDE OF A FIXED ASTRAGAL.

**ANCHOR NOTE:** ANCHOR SPACING AT THE HEAD OF ALL TYPES OF SHAPED PANEL DOORS MUST EQUAL THAT SPECIFIED AT THE SIDES (17" MAX. O.C.)

Approved as complying with the Florida Building Code  
 Date **MAY 27, 2009**  
 NOA# **07-0212-04**  
 Miami Dade Product Control  
 Division  
 By **Ismael Chanda**

DRAWN BY: W.R.M. CHECKED BY: W.W.S. PLOT: 1-24 DATE: 10/08/08	DATE: _____ BY: _____ NO. _____ REVISION DESCRIPTION: _____
<b>DRAWING TITLE</b> <b>OUT-SWING IMPACT WOOD DOORS</b>	
MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b> SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION <b>APR 29 2009</b> WAKEN W. SCHAEFER P.E. P.E. NO. 44135	
DRAWING NO. <b>1600</b>	REV. _____
SHEET NO. <b>4 OF 17</b>	



SEE SINGLE UNIT ELEVATIONS FOR FRAME ANCHOR REQUIREMENTS & POSITIONS AROUND EACH UNIT

120" MAX. FRAME HEIGHT/MULLION SPAN

**EXTERIOR ELEVATION:  
DOUBLE DOORS WITH FIXED PANELS**

SCALE: 1/2" = 1'-0"  
(RECTANGULAR DOORS SHOWN, SHAPED DOORS ALSO APPLY. SEE "APPROVED SHAPED" TABLE ON SHEETS 3 & 4)

**MULTIPLE UNIT NOTES:**

1. FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.
2. THERE IS NO LIMIT ON THE NUMBER OF DOORS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE DOORS & THEIR MULLIONS.
3. OXXO UNIT IS SHOWN. ALL OTHER FIXED/OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITIONS SHOWN.
4. INDIVIDUAL DOOR/FIXED PANEL SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATIONS.

FRAME SCREWS ARE NOT APPLICABLE FOR USE WITH FIXED PANEL DOOR SILLS

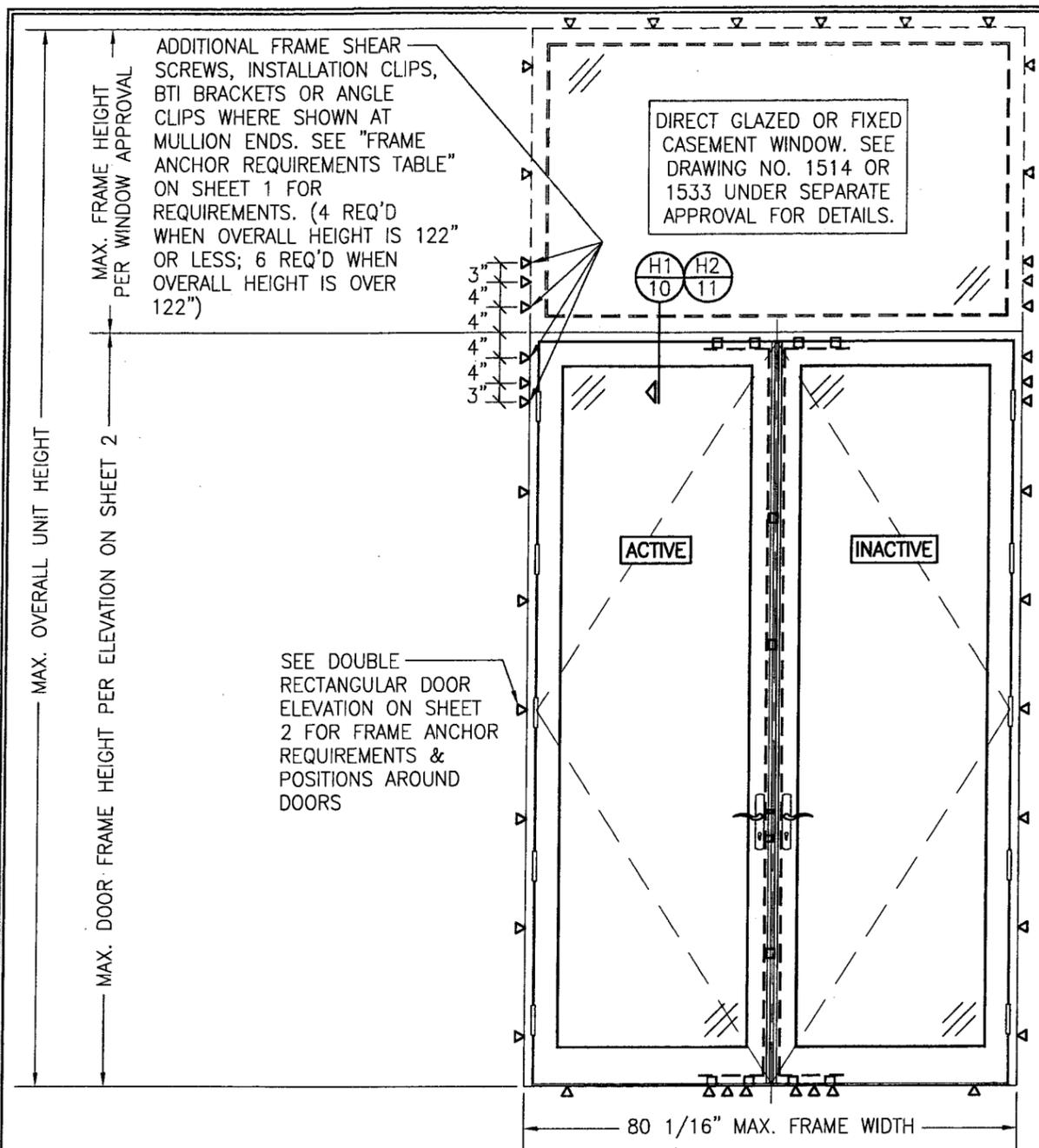
ADDITIONAL FRAME SCREWS, INSTALLATION CLIPS, BTI BRACKETS OR ANGLE CLIPS WHERE SHOWN AT MULLION ENDS. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS (BTI BRACKETS NOT APPLICABLE AT SILL).

**MULLION ALLOWABLE DESIGN PRESSURE**

MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)	
		POS.	NEG.
120	52	53.8	53.8
	48	58.3	58.3
	44	63.6	63.6
	40	70.0	70.0
	36	70.0	70.0
	32	70.0	70.0
108	52	59.8	59.8
	48	64.8	64.8
	44	70.0	70.0
	40	70.0	70.0
99	52	70.0	75.2
	48	70.0	81.5
	46	70.0	85.0
96	52	70.0	77.5
	48	70.0	84.0
	44	70.0	85.0
84	52	70.0	85.0

**NOTES:**  
 1. LOAD WIDTH IS THE DISTANCE BETWEEN PANEL CENTERLINES.  
 2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL DOOR/FIXED PANEL.  
 3. SIZE VALUES IN TABLE ARE +/- 1/4"

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.		
PLOT: 1-24	DATE: 10/08/08		
DATE	BY	REVISION DESCRIPTION	NO.
<b>OUT-SWING IMPACT WOOD DOORS</b> MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b> SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600			
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903			
CERTIFICATION <b>APR 28 2009</b> Approved as complying with the Florida Building Code Date <b>MAY 27 2009</b> NOA# <b>09-0212.04</b> Miami Dade Product Control Division By <b>Ishaq I. Chanda</b>			
DRAWING NO.	REV.	SHEET NO.	
1600		5 OF 17	



EXTERIOR ELEVATION: DOUBLE DOORS WITH TRANSOM

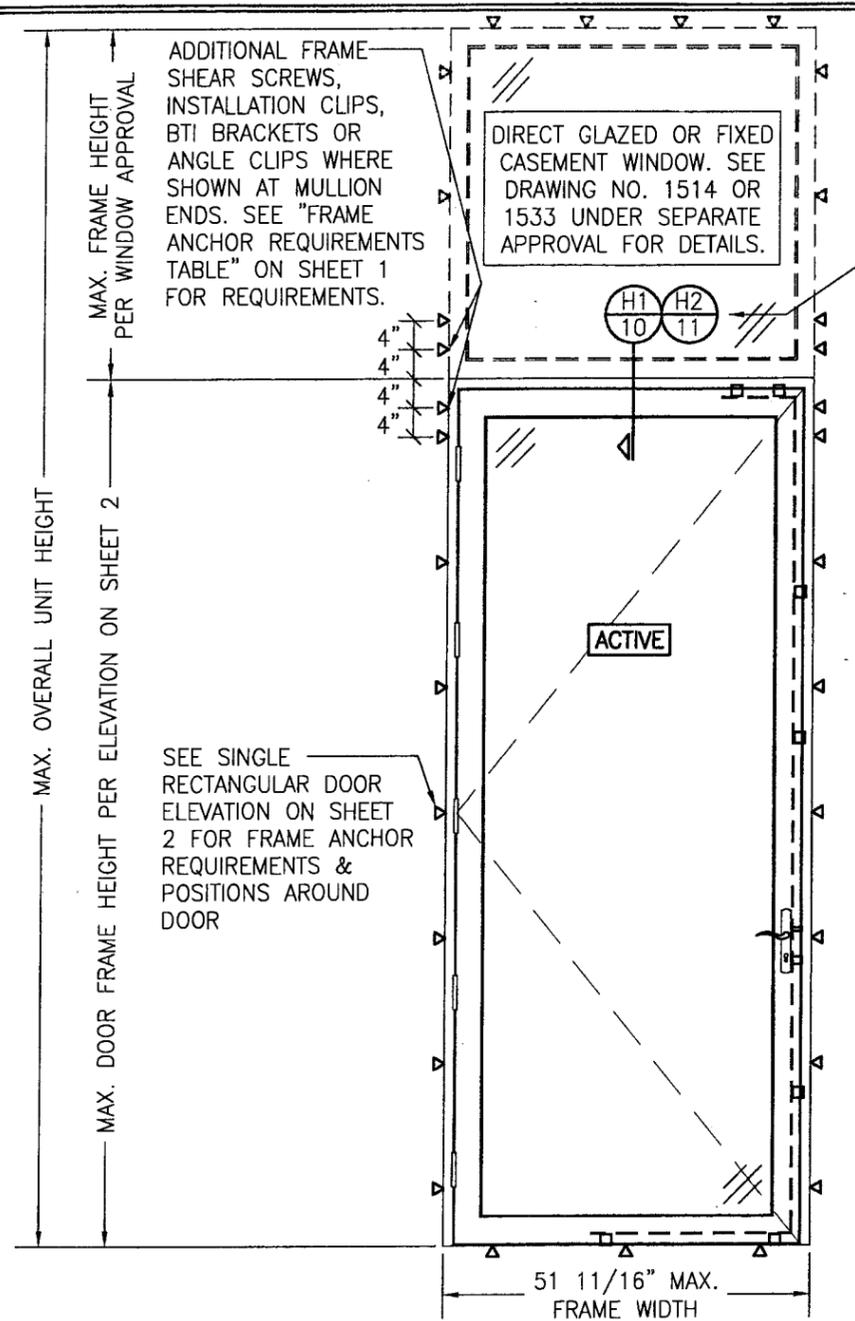
SCALE: 1/2" = 1'-0"

(SEE DOUBLE RECTANGULAR DOOR ELEVATION ON SHEET 2 FOR DOOR DETAIL NOT SHOWN)

ALLOWABLE DESIGN PRESSURE (DOUBLE DOOR TRANSOM UNIT)

MAX. FRAME WIDTH (IN.)	MAX. OVERALL UNIT HEIGHT (IN.)	(2) ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
80 1/16	168	70	70
80 1/16	138	70	(1) 85

(1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTIONS 2 & 5 ARE USED (USE OF ADA SILL IS NOT APPLICABLE TO UNITS WITH PRESSURE EXCEEDING +/-70 PSF).  
 (2) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOORS SHALL CONTROL.



EXTERIOR ELEVATION: SINGLE DOOR WITH TRANSOM

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

(SEE SINGLE RECTANGULAR DOOR ELEVATION ON SHEET 2 FOR DOOR DETAIL NOT SHOWN)

ALLOWABLE DESIGN PRESSURE (SINGLE DOOR TRANSOM UNIT)

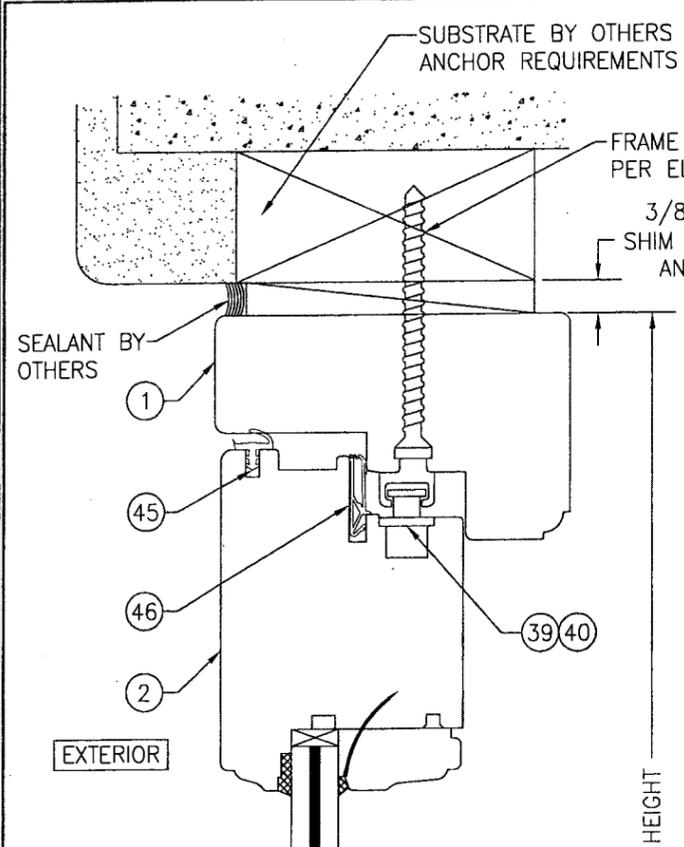
MAX. FRAME WIDTH (IN.)	MAX. OVERALL UNIT HEIGHT (IN.)	(2) ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
51 11/16	168	70	70
41 1/2	168	70	(1) 85

(1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTIONS 2 & 5 ARE USED (USE OF ADA SILL IS NOT APPLICABLE TO UNITS WITH PRESSURE EXCEEDING +/-70 PSF).  
 (2) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOORS SHALL CONTROL.

Approved as complying with the Florida Building Code  
 Date: MAY 27, 2009  
 NOA#: 09-0212-04  
 Miami Dade Product Control Division  
 By: Khag J. Chanda

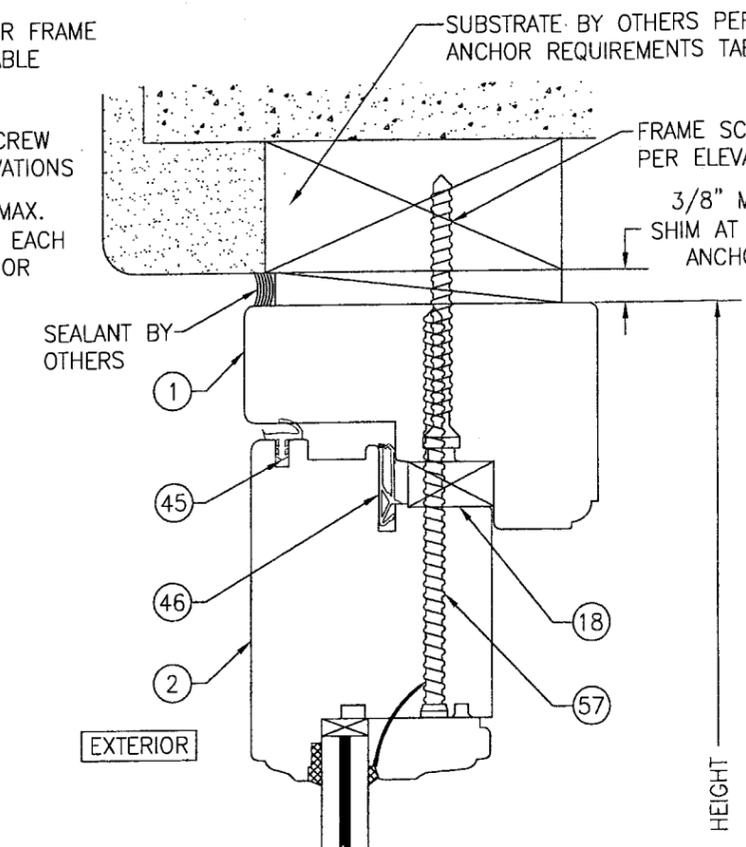
NOTE: MULLION REINFORCEMENT IS OPTIONAL WITH THIS SINGLE DOOR WITH TRANSOM ELEVATION & IS NOT REQUIRED

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 10/08/08	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: OUT-SWING IMPACT WOOD DOORS			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER: TISCHLER UND SOHN (USA) LTD.	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CERTIFICATION: APR 23 2009			
DRAWING NO. 1600			
SHEET NO. 6 OF 17			



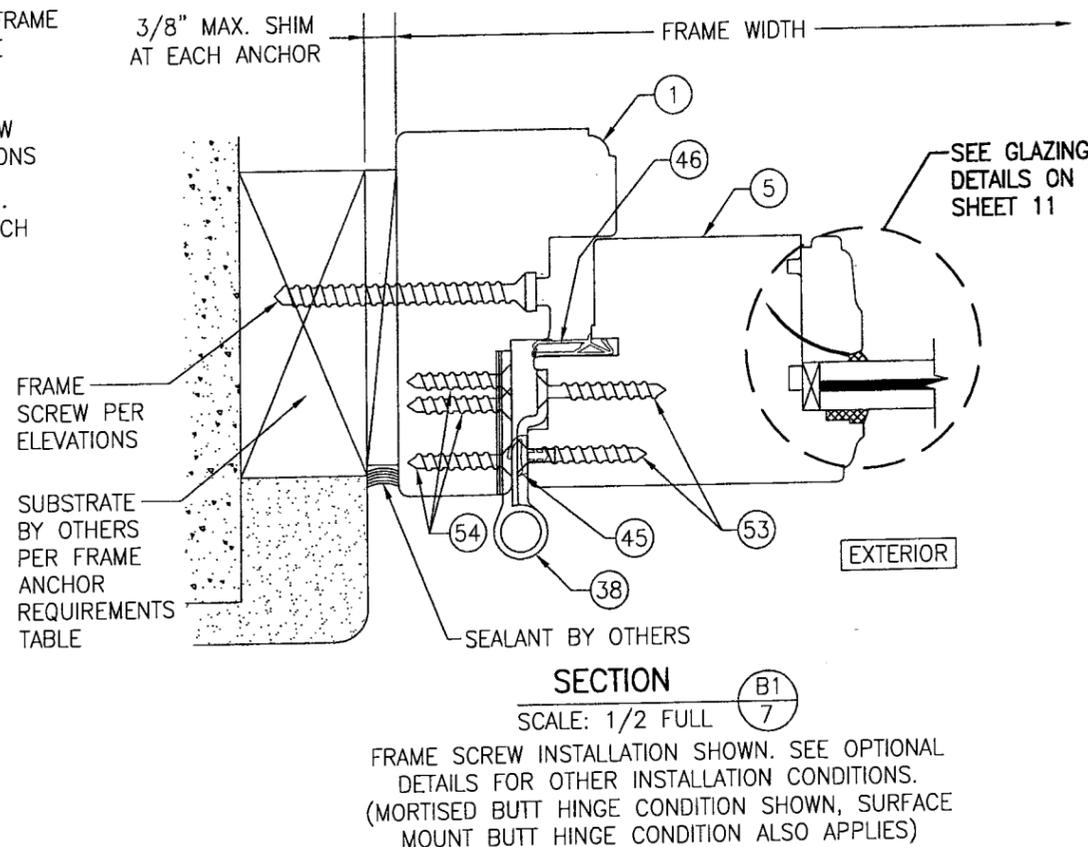
**SECTION A1**  
SCALE: 1/2 FULL

FRAME SCREW INSTALLATION & STANDARD SILL CONDITION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION & SILL CONDITIONS.



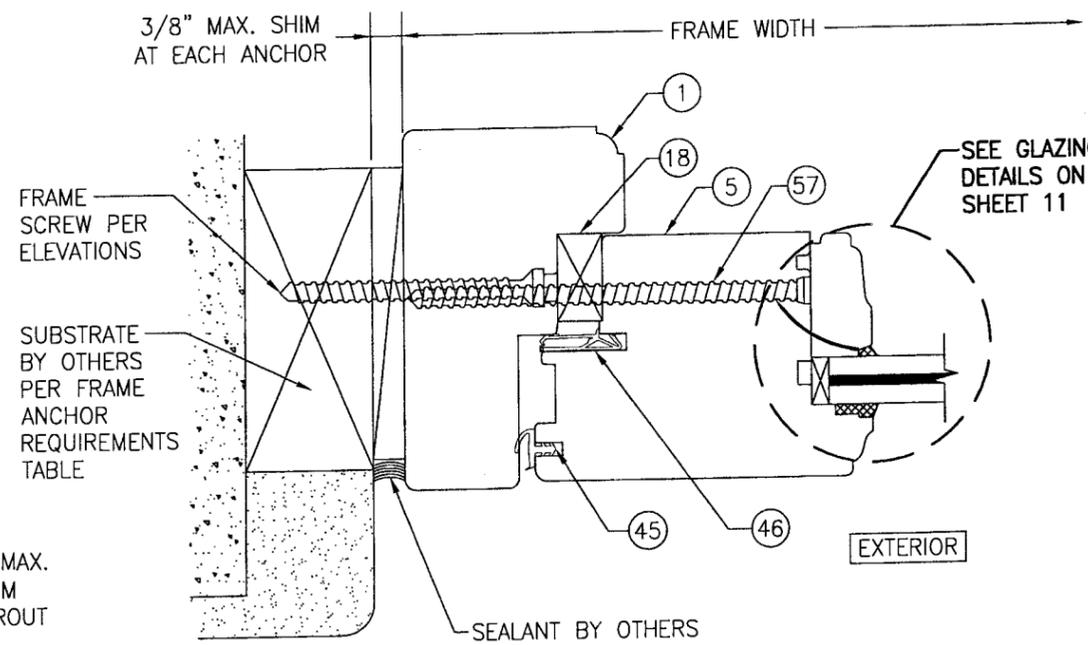
**SECTION A2**  
SCALE: 1/2 FULL

SUBSTRATE BY OTHERS PER "FRAME ANCHOR REQUIREMENTS TABLE" (FOR SILL INSTALLATION NOT SHOWN, SEE ANGLE CLIP & INSTALLATION CLIP SILL DETAILS ON SHEETS 13, 14 & 15.



**SECTION B1**  
SCALE: 1/2 FULL

FRAME SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS. (MORTISED BUTT HINGE CONDITION SHOWN, SURFACE MOUNT BUTT HINGE CONDITION ALSO APPLIES)



**SECTION B2**  
SCALE: 1/2 FULL

FRAME SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.

Approved as complying with the Florida Building Code  
Date MAY 27, 2009  
NOA# D4-0212.04  
Miami Dade Product Control Division  
By Ishag L. Chand

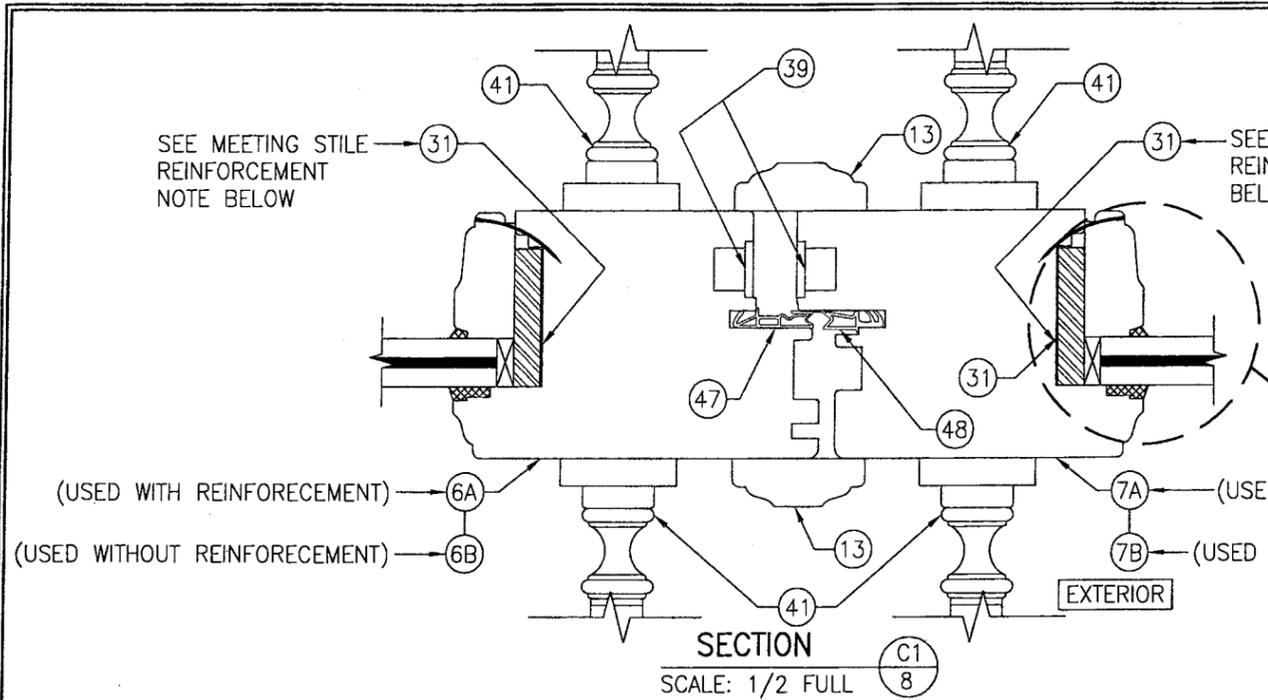
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08
DATE	BY
REVISION DESCRIPTION	NO.

DRAWING TITLE: **OUT-SWING IMPACT WOOD DOORS**

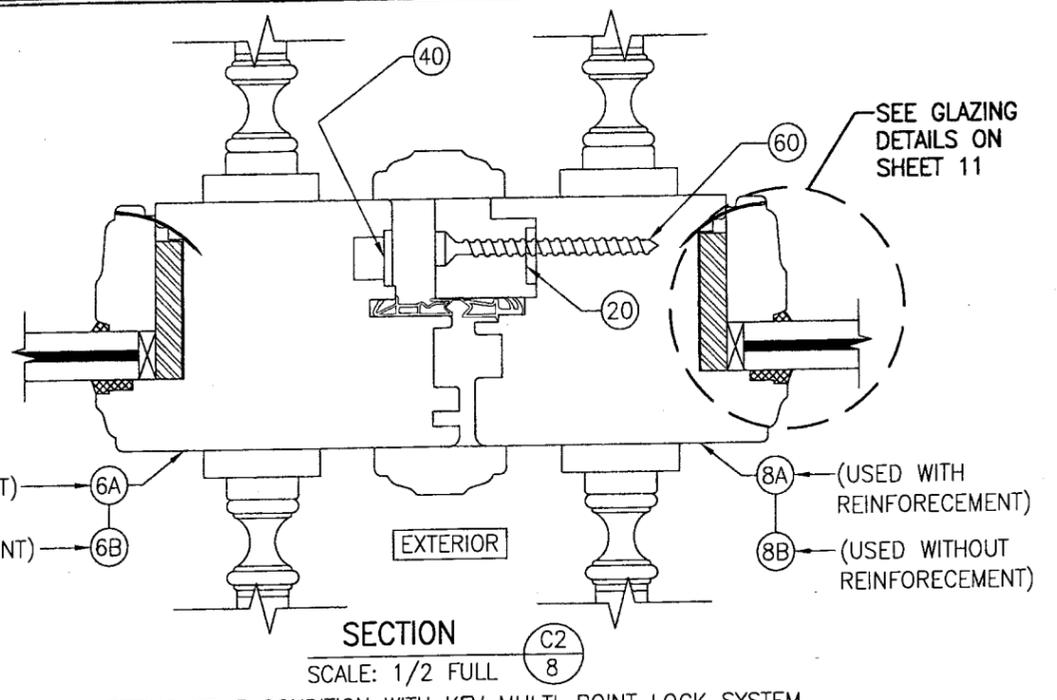
MANUFACTURER: **TISCHLER UND SOHN (USA) LTD.**  
SIX SUBURBAN AVENUE  
STAMFORD, CONNECTICUT 06901  
203-674-0600

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	APR 22 2009
DRAWING NO.	REV.
1600	
SHEET NO.	7 OF 17



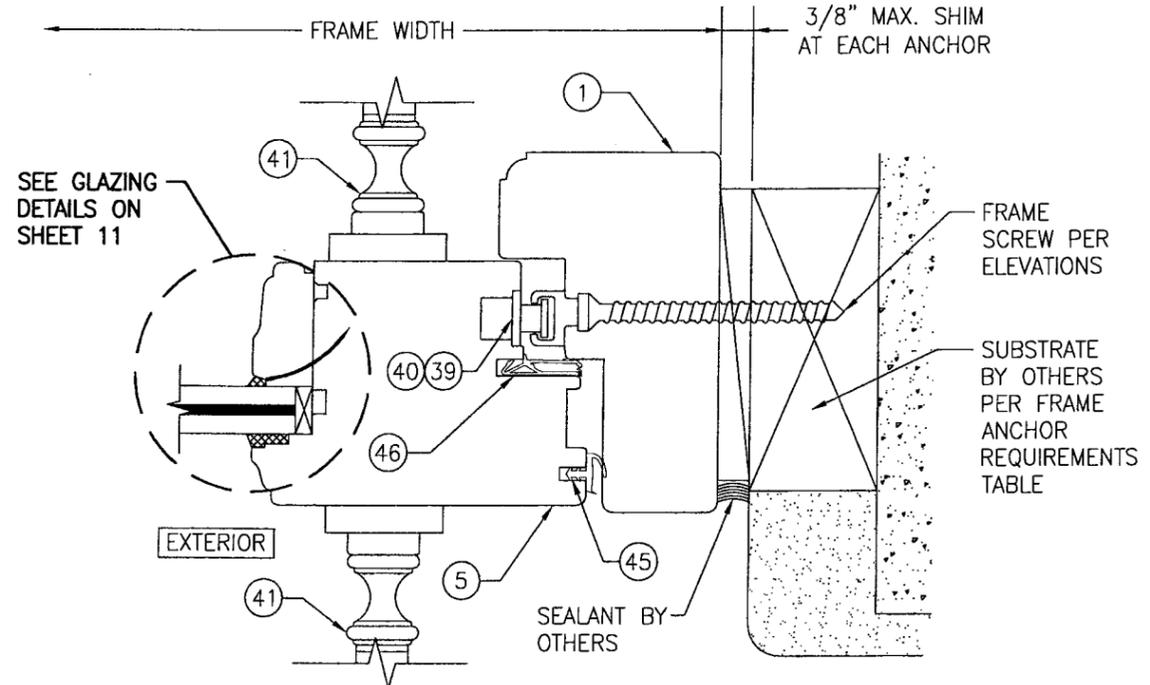
MEETING STILE CONDITION WITH SIEGENIA MULTI-POINT LOCK SYSTEM



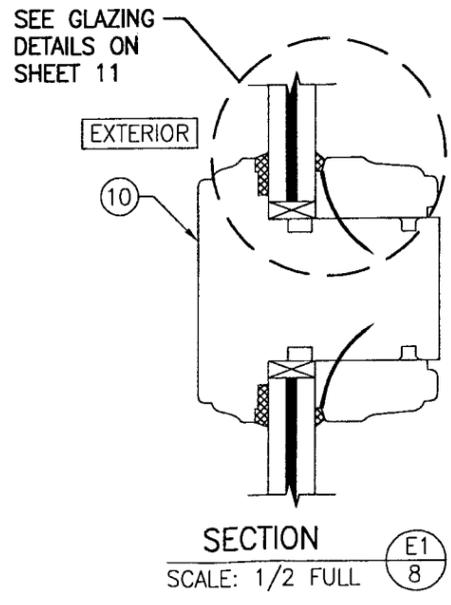
MEETING STILE CONDITION WITH KJV MULTI-POINT LOCK SYSTEM (FOR DETAIL NOT SHOWN, SEE SECTION C1/7)

**MEETING STILE REINFORCEMENT NOTE:**

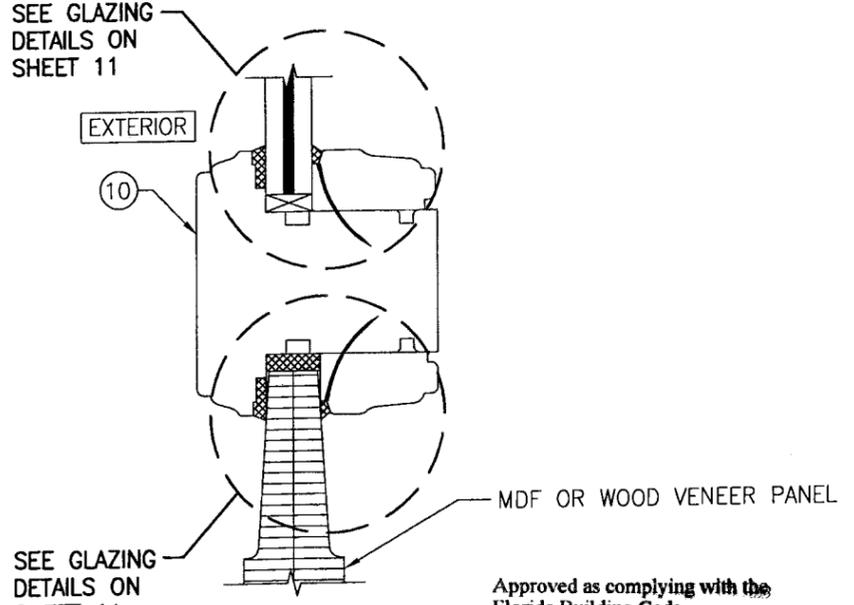
- REINFORCEMENT IS REQUIRED WHEN ANY ONE OF THE FOLLOWING DOOR CONDITIONS EXISTS.
1. WHEN FRAME HEIGHT IS OVER 99".
  2. WHEN ADA SILL IS USED (ALL APPLICABLE FRAME HEIGHTS).
  3. WHEN JOB REQUIRED DESIGN PRESSURE IS OVER +/-70 PSF.



SECTION D SCALE: 1/2 FULL  
FRAME SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.



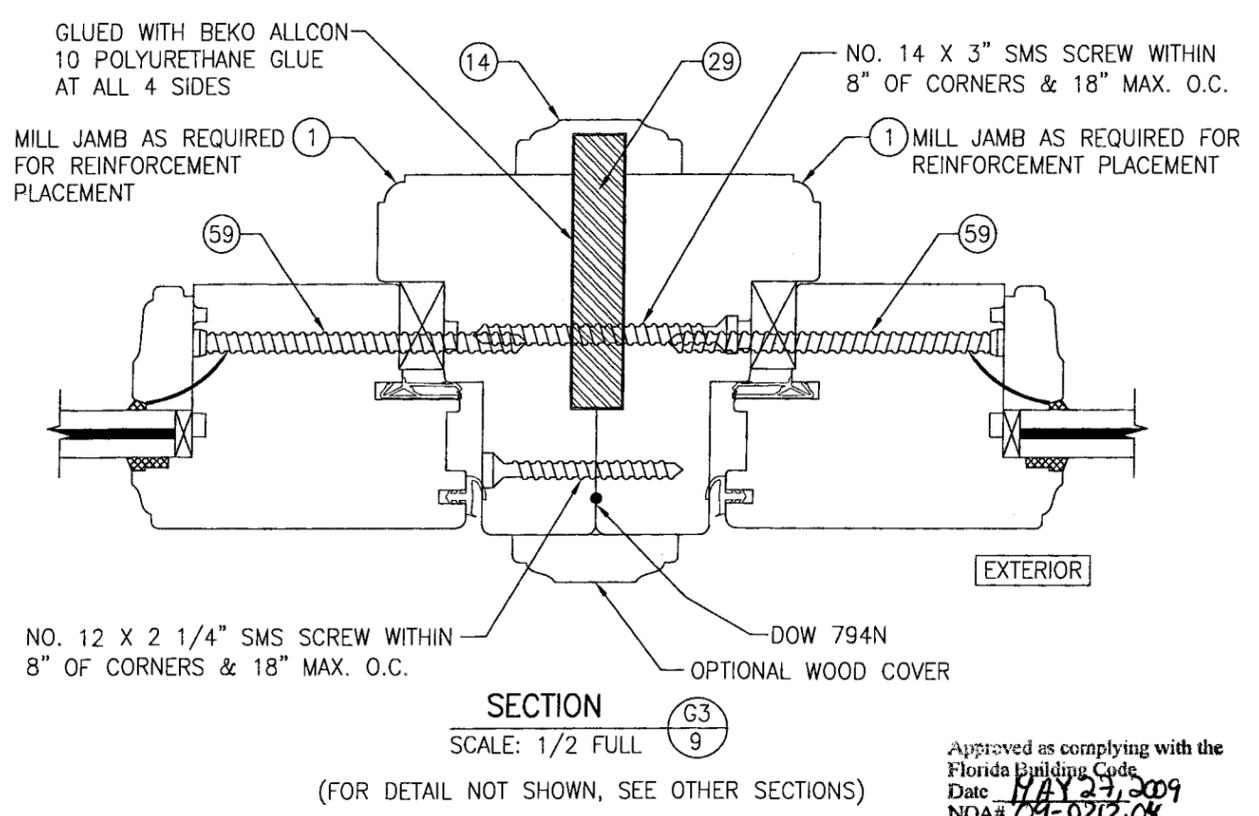
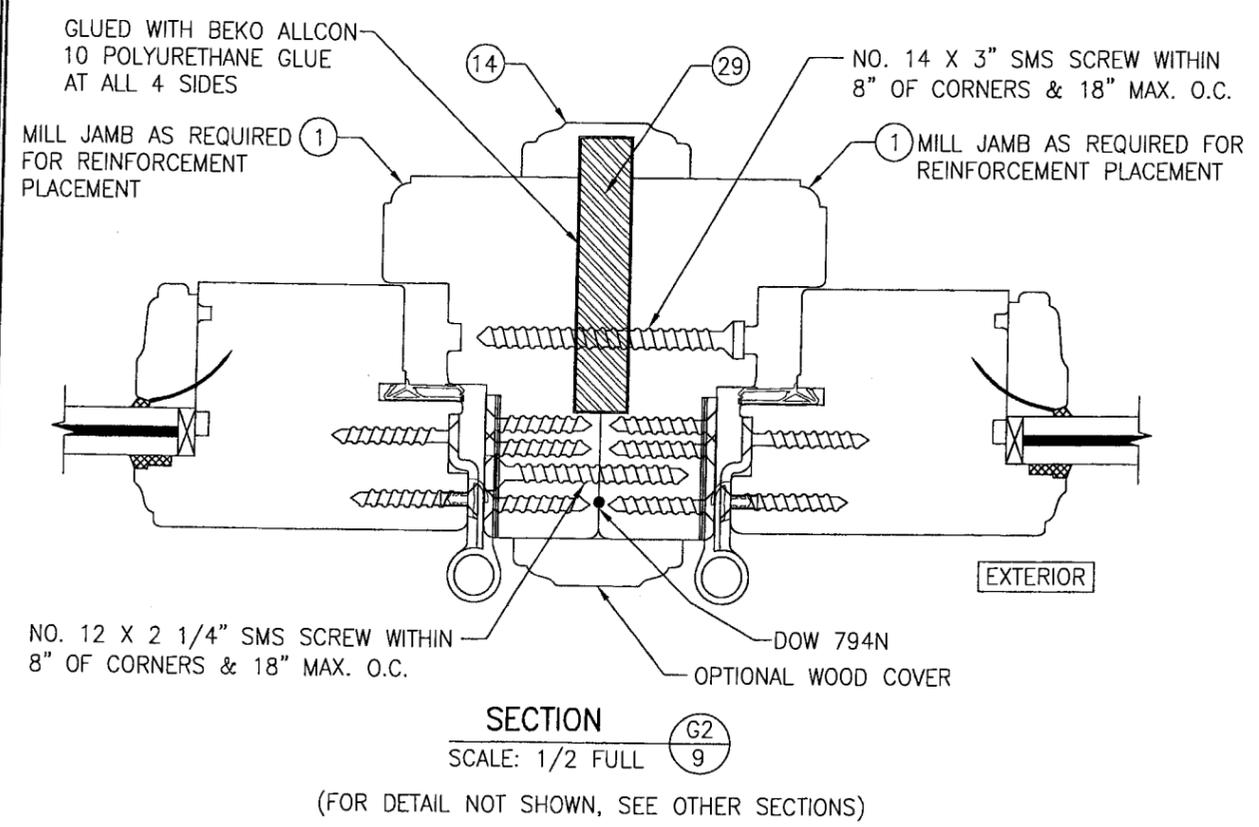
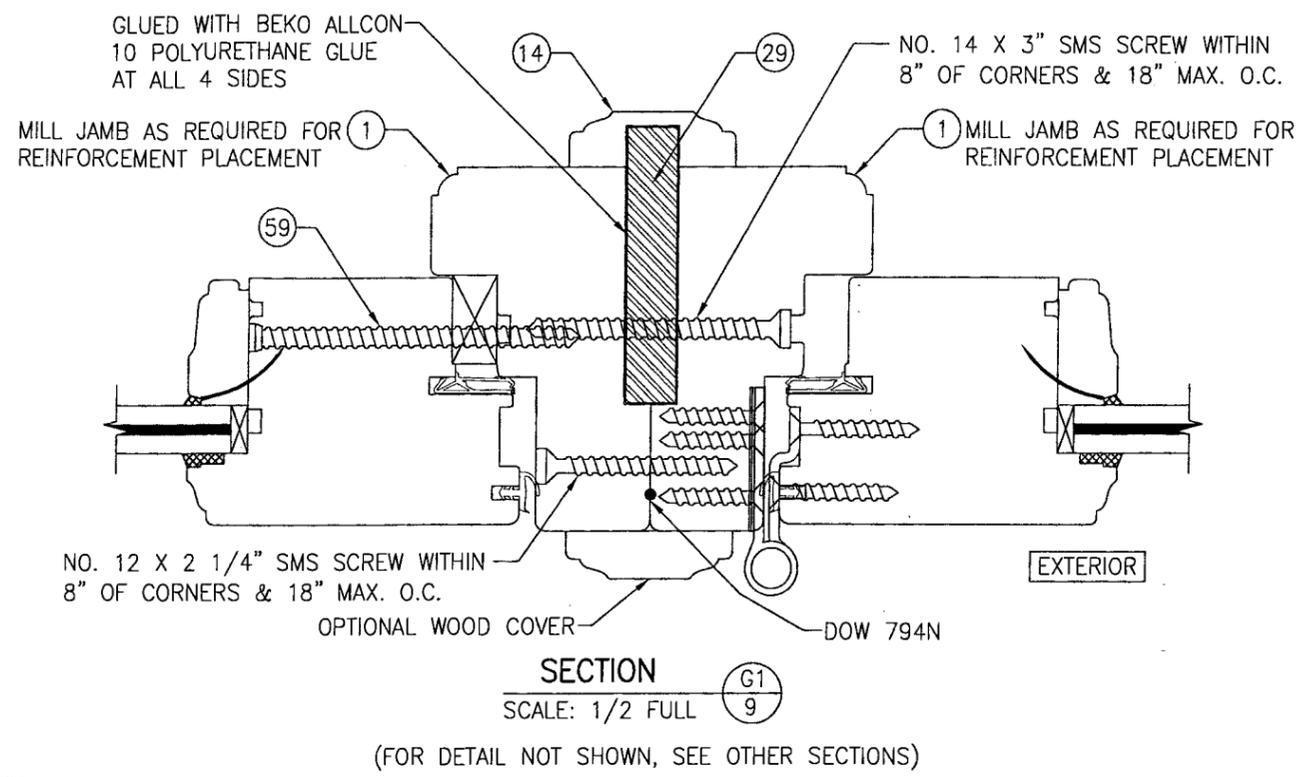
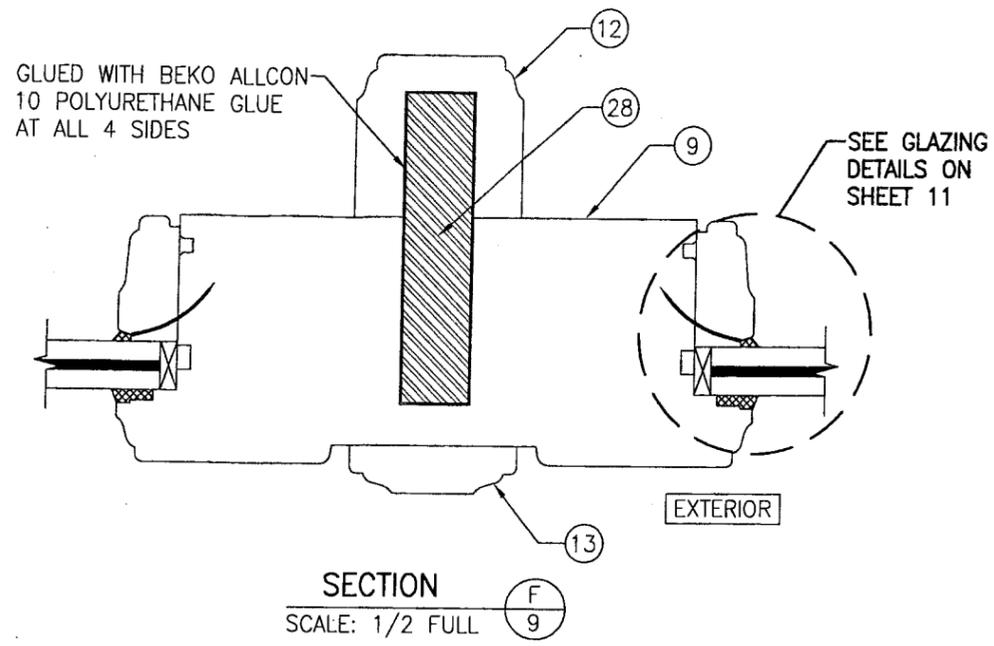
SECTION E1 SCALE: 1/2 FULL



SECTION E2 SCALE: 1/2 FULL

Approved as complying with the Florida Building Code  
 Date MAY 27, 2009  
 NOA# 09-0212-04  
 Miami Dade Product Control Division  
 By Ishag I. Chaudhry

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08
NO.	DATE
BY	REVISION DESCRIPTION
NO.	REVISION DESCRIPTION
DRAWING TITLE <b>OUT-SWING IMPACT WOOD DOORS</b>	
MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b>	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b>	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION <b>APR 27 2009</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. <b>1600</b>	REV.
SHEET NO. <b>8</b>	OF <b>17</b>



Approved as complying with the  
Florida Building Code  
Date MAY 27, 2009  
NOA# 09-0212-04  
Miami Dade Product Control  
Division  
By Isaac I. Chanda

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 10/08/08	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: <b>OUT-SWING IMPACT WOOD DOORS</b>			
MANUFACTURER: <b>TISCHLER UND SOHN (USA) LTD.</b>			
CONSULTANTS: <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b>			
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903			
CERTIFICATION: <b>APR 27 2009</b>			
DRAWING NO. <b>1600</b>			
SHEET NO. <b>9 OF 17</b>			

DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLOT:	1=2	DATE:	10/08/08
NO.		REVISION DESCRIPTION	
		BY	DATE

DRAWING TITLE  
**OUT-SWING IMPACT WOOD DOORS**

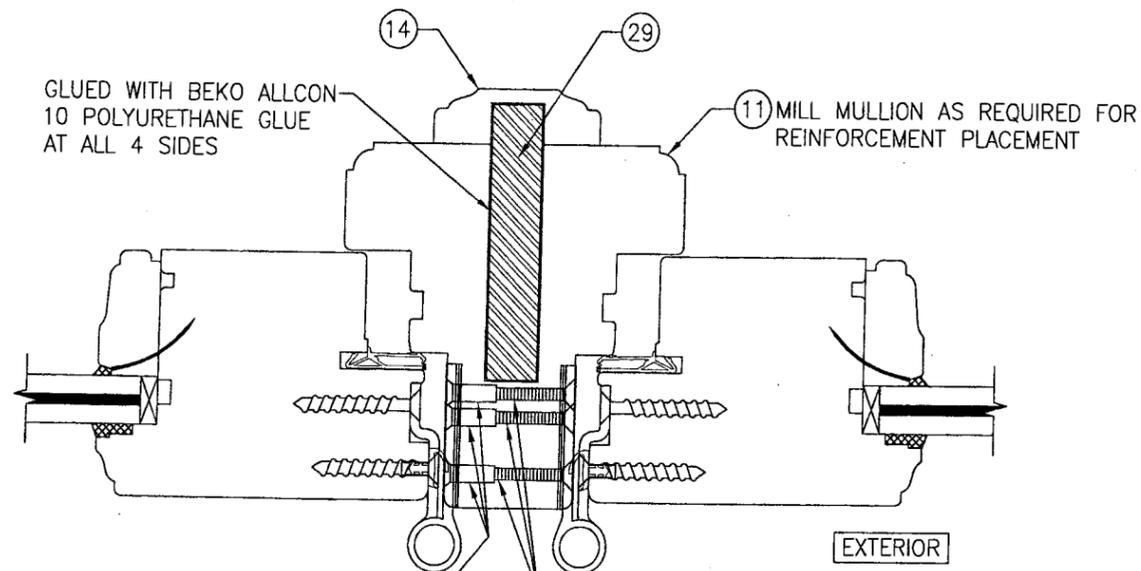
CONSULTANTS  
**W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.**  
8895 N. MILITARY TRAIL, SUITE C-204  
PALM BEACH GARDENS, FL 33410  
PHONE: 561-775-4902 FAX: 561-775-4903

MANUFACTURER  
**TISCHLER UND SOHN (USA) LTD.**  
SIX SUBURBAN AVENUE  
STAMFORD, CONNECTICUT 06901  
203-674-0600

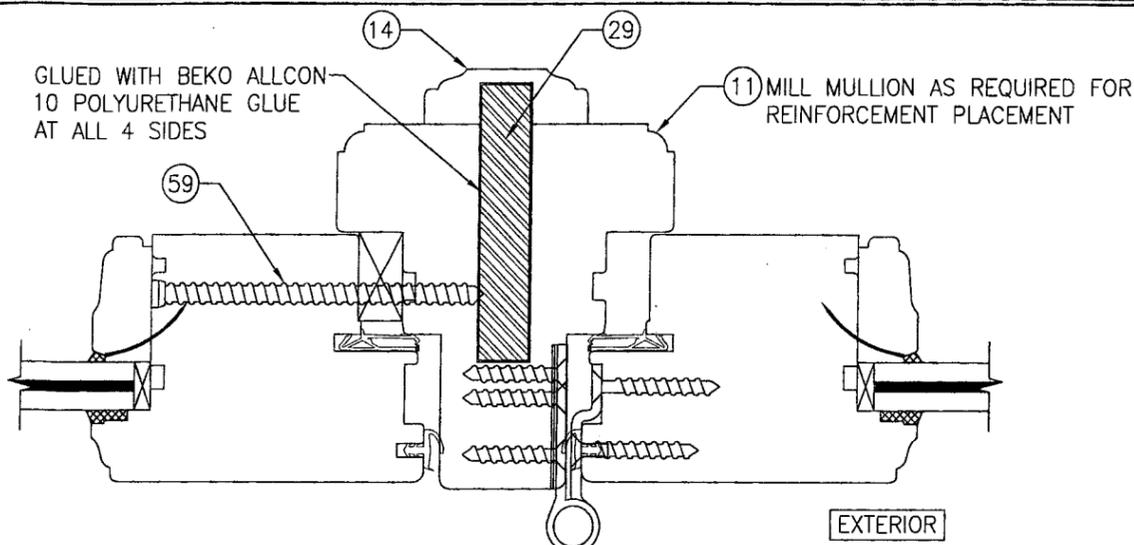
CERTIFICATION  
**APR 22 2009**

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

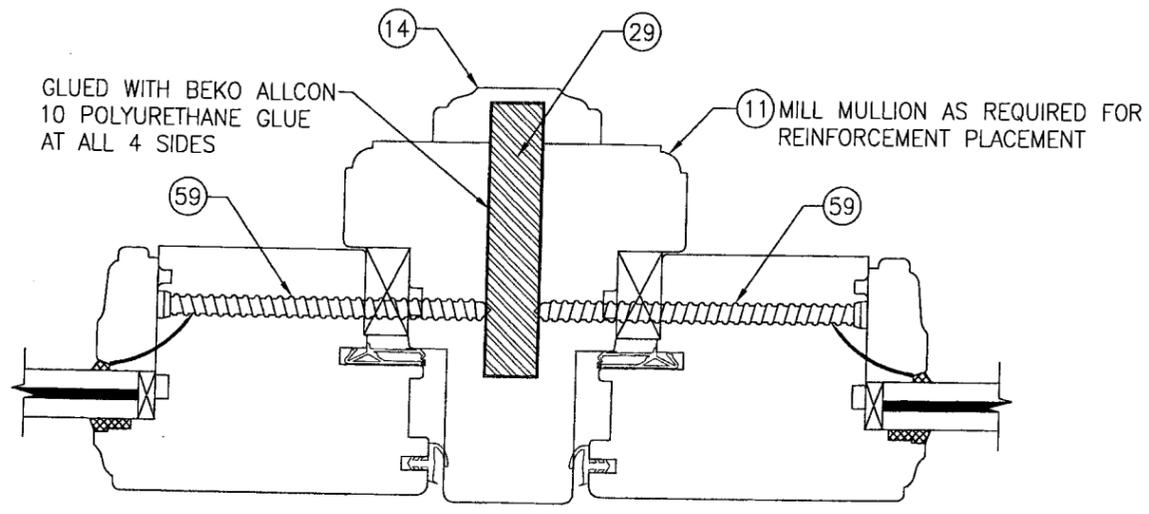
DRAWING NO. 1600  
SHEET NO. 10 OF 17



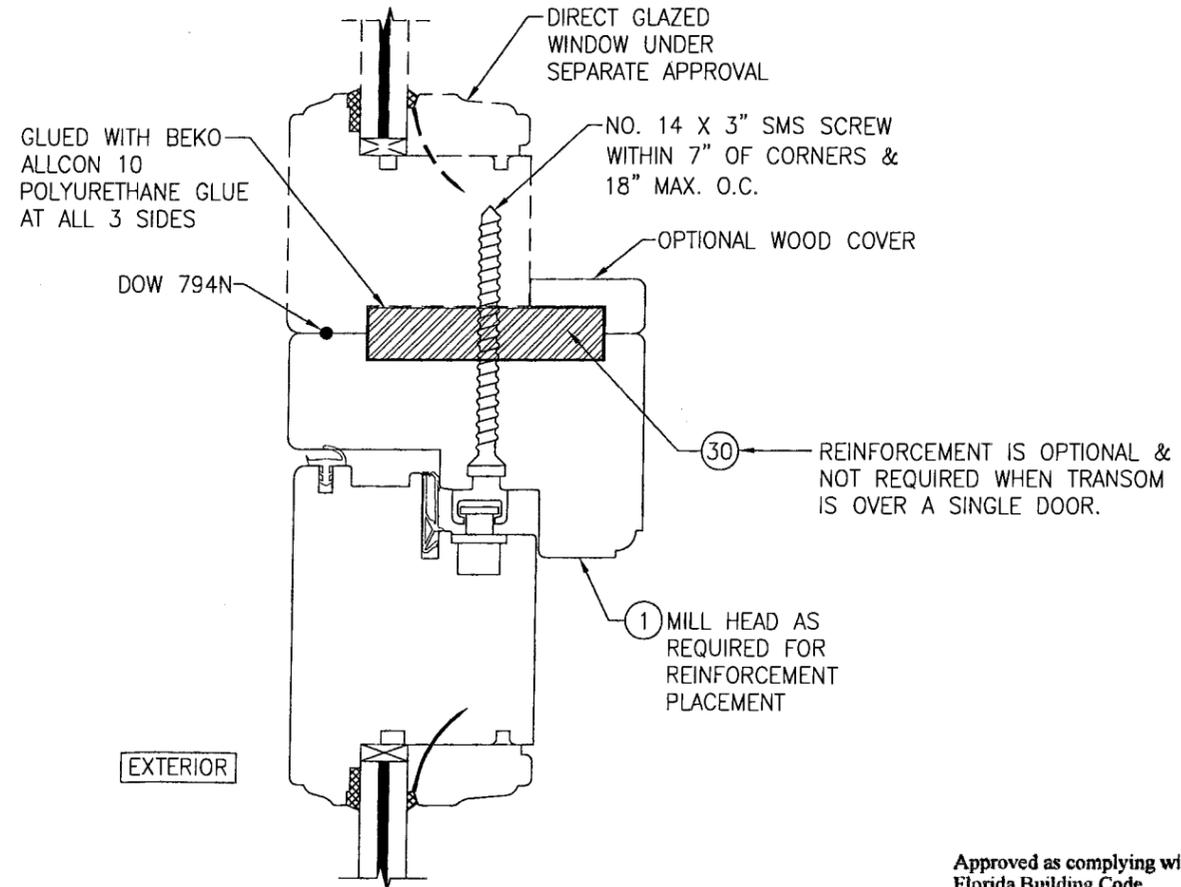
SECTION **G4**  
SCALE: 1/2 FULL **10**  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SECTION **G5**  
SCALE: 1/2 FULL **10**  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

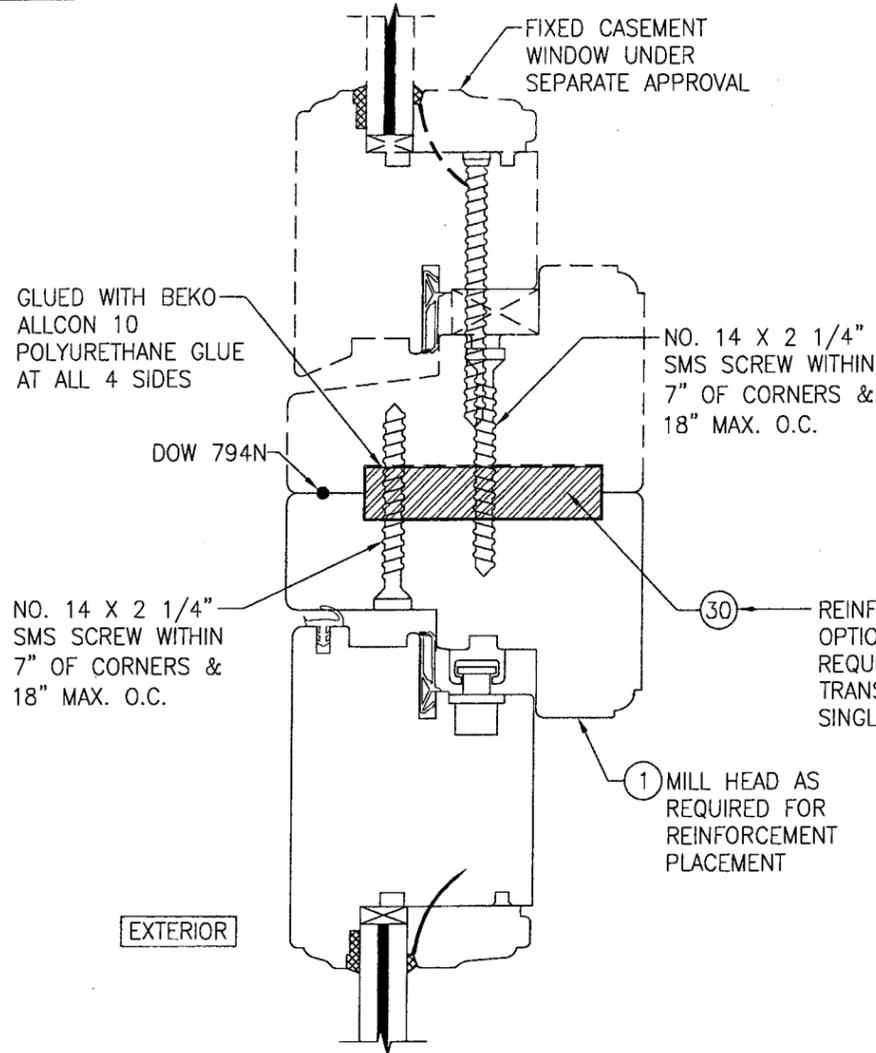


SECTION **G6**  
SCALE: 1/2 FULL **10**  
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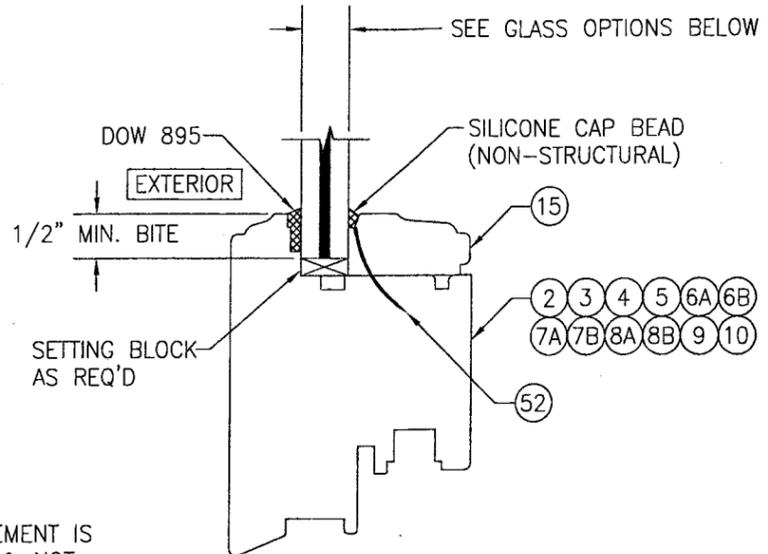
SECTION **H1**  
SCALE: 1/2 FULL **10**  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)  
(OPERABLE DOOR CONDITION SHOW, FIXED PANEL DOOR IS MULLED THE SAME)

Approved as complying with the  
Florida Building Code  
Date **MAY 27, 2009**  
NOA# **09-0212-04**  
Miami Dade Product Control  
Division  
By **Ishag L. Hauda**



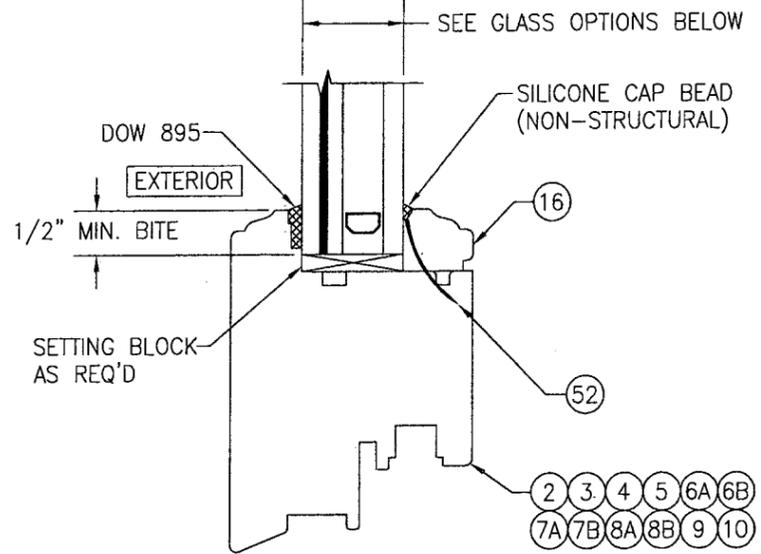
SECTION H2  
SCALE: 1/2 FULL 11

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)  
(OPERABLE DOOR CONDITION SHOW, FIXED PANEL DOOR IS MULLED THE SAME)



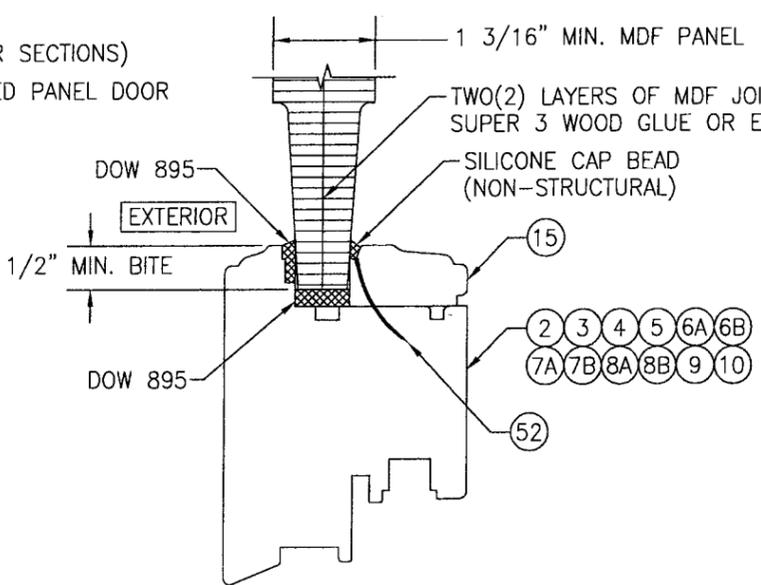
NON-I.G. GLAZING DETAIL  
GLASS OPTIONS 1, 2 & 3

- GLASS OPTION 1: 9/16" LAMINATED GLASS (1/4" AN./0.09" SOLUTIA SALFEX IIIIG PVB/1/4" AN.)
- GLASS OPTION 2: 9/16" LAMINATED GLASS (1/4" H.S./0.075" SOLUTIA VANCEVA/1/4" H.S.)
- GLASS OPTION 3: 9/16" LAMINATED GLASS (1/4" AN./0.075" SOLUTIA VANCEVA/1/4" AN.)

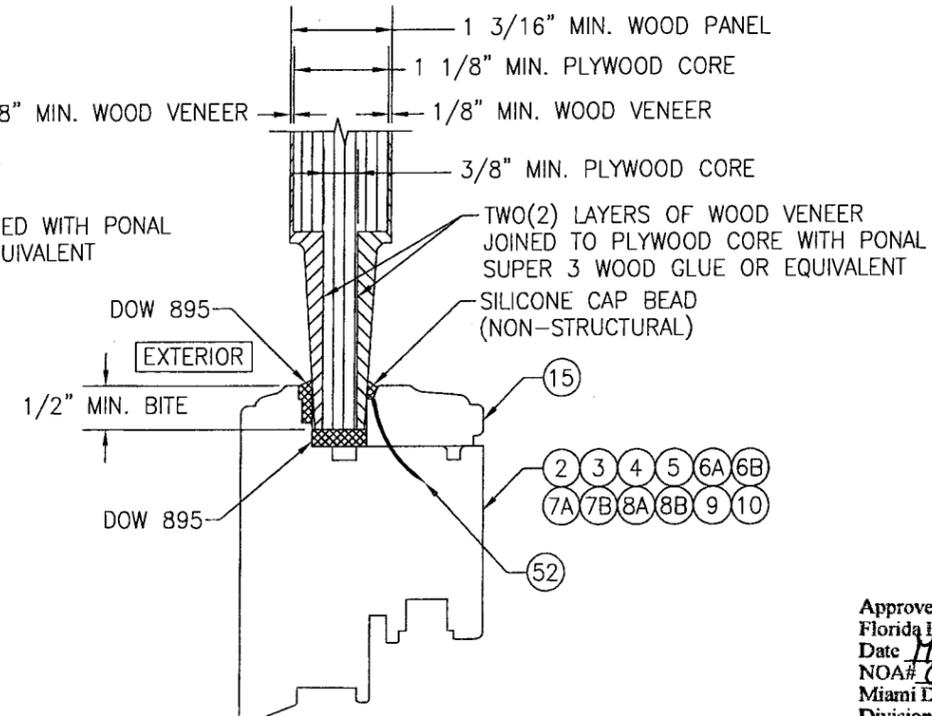


I.G. GLAZING DETAIL  
GLASS OPTIONS 4, & 5

- GLASS OPTION 4: 1 3/16" LAMINATED I.G. (3/16" AN./0.09" SOLUTIA SALFEX IIIIG PVB/3/16" AN./1/2" AIR SPACE/1/4 TEMP.)
- GLASS OPTION 5: 1 3/16" LAMINATED I.G. (3/16" H.S./0.075" SOLUTIA VANCEVA/3/16" H.S./1/2" AIR SPACE/1/4 TEMP.)



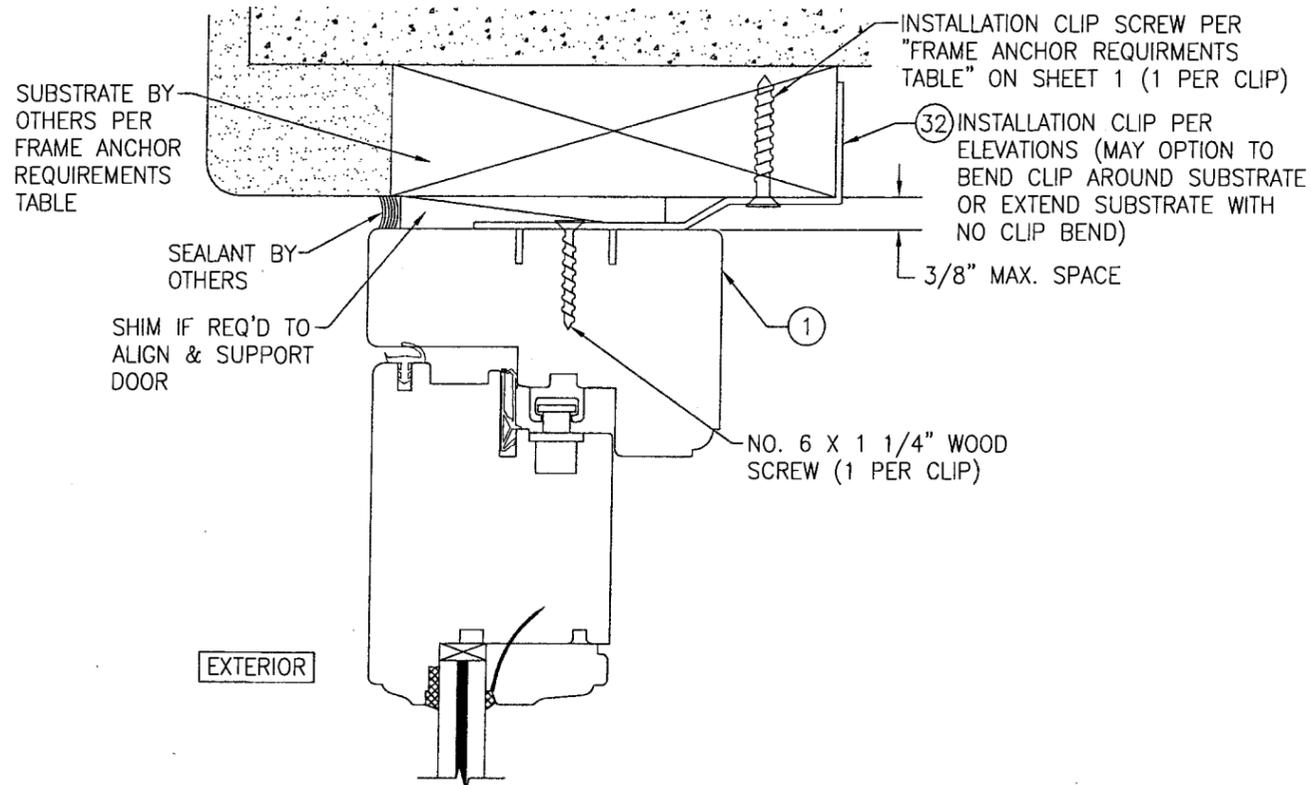
MDF PANEL GLAZING DETAIL



WOOD VENEER PANEL GLAZING DETAIL

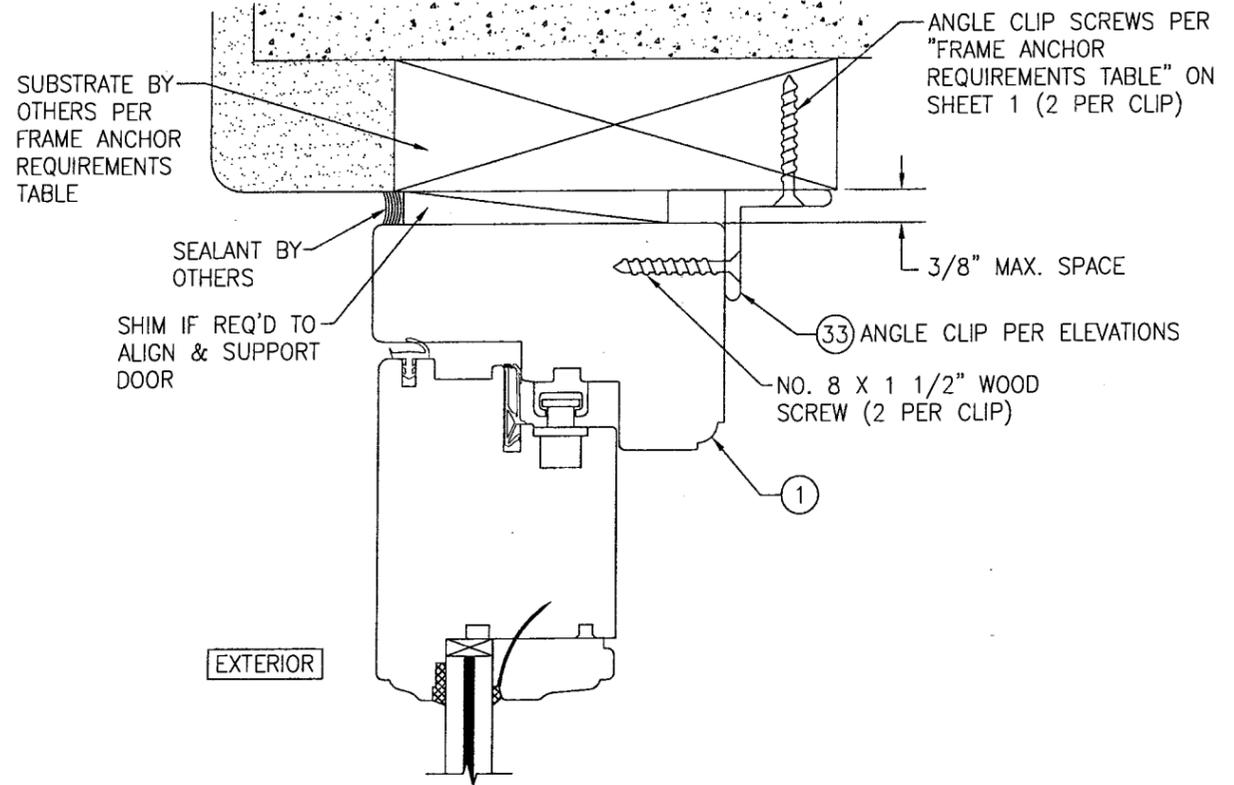
Approved as complying with the Florida Building Code  
Date MAY 27 2009  
NOA# 09-0212.04  
Miami Dade Product Control Division  
By Isaac I. Chand

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08
DATE	BY
REVISION DESCRIPTION	
NO.	
DRAWING TITLE <b>OUT-SWING IMPACT WOOD DOORS</b>	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b> SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600
CERTIFICATION <b>APR 22 2009</b>	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. <b>1600</b>	REV.
SHEET NO. <b>11</b>	OF <b>17</b>



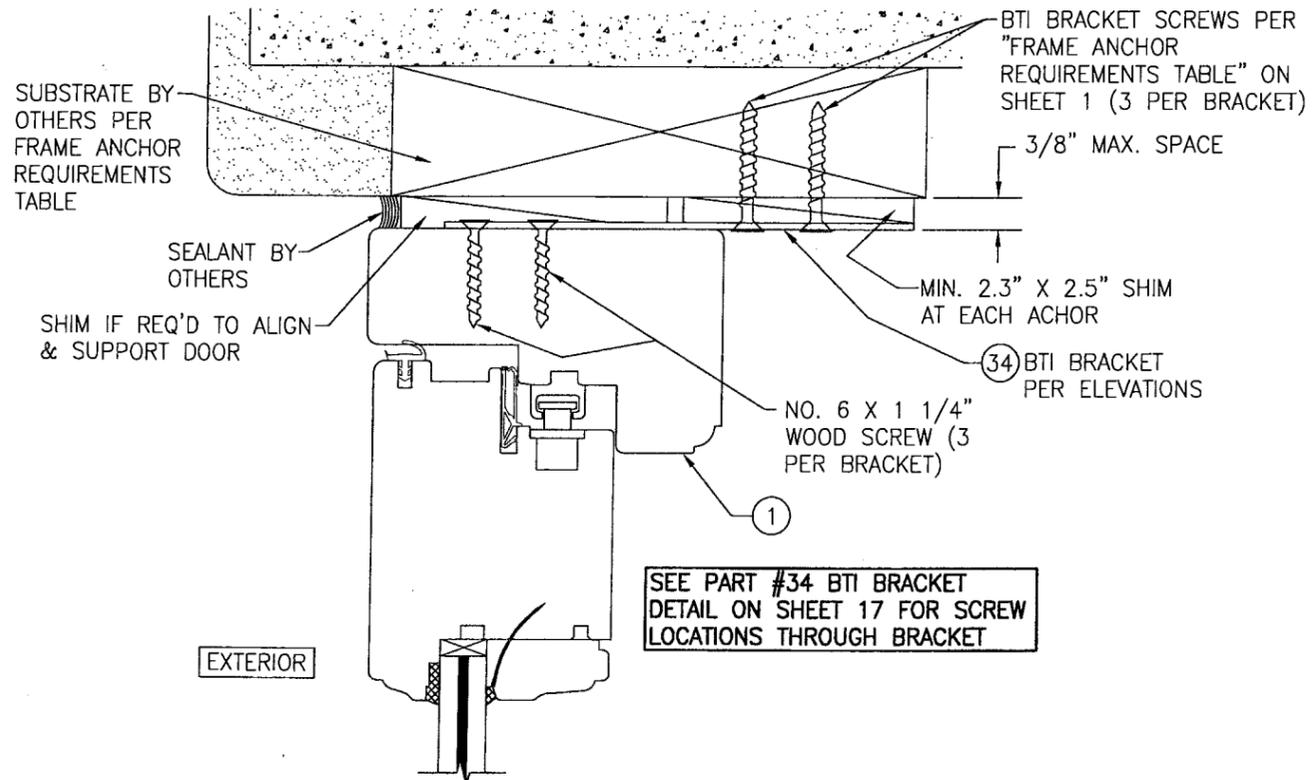
**OPTIONAL INSTALLATION CLIP DETAIL**

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



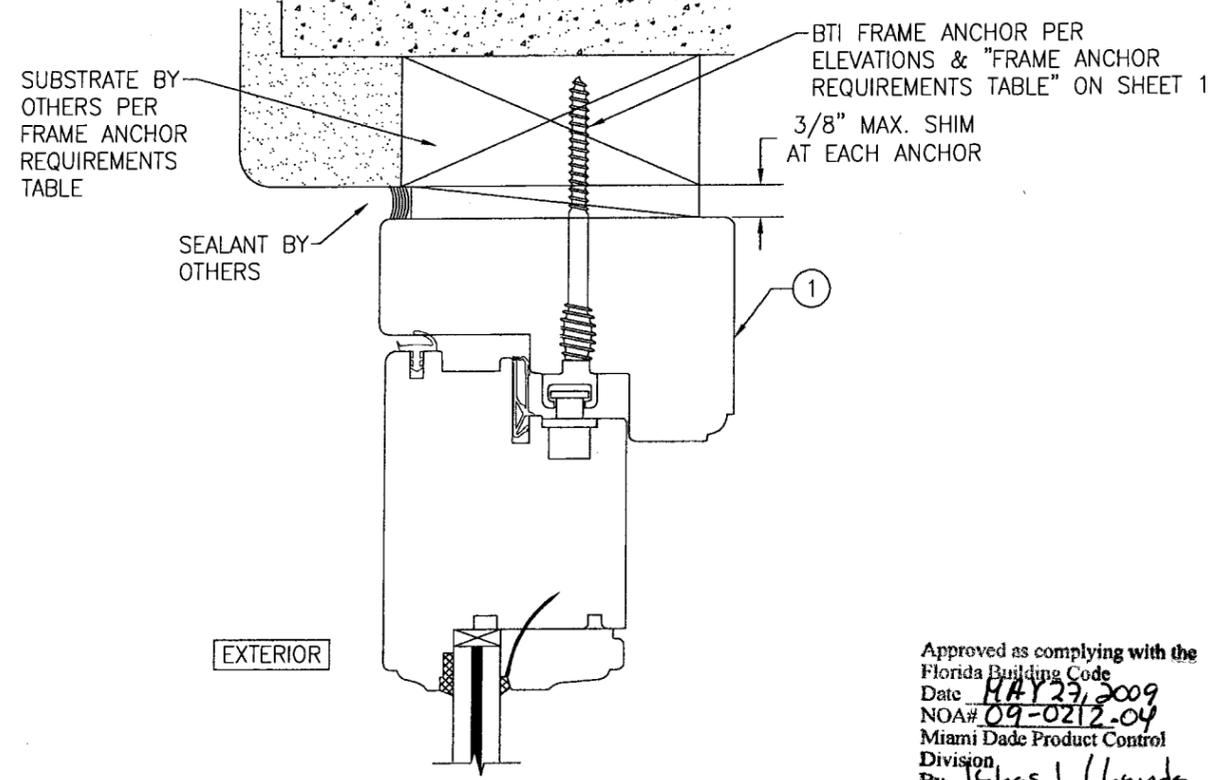
**OPTIONAL INSTALLATION ANGLE CLIP DETAIL**

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



**OPTIONAL INSTALLATION BTI BRACKET DETAIL**

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



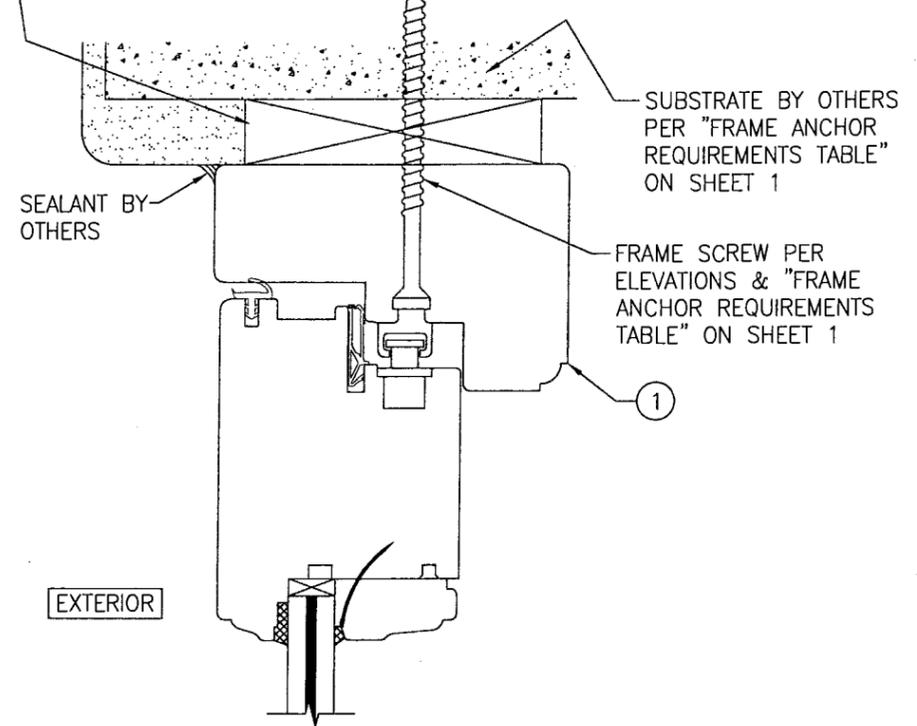
**OPTIONAL BTI SCREW DETAIL**

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

Approved as complying with the  
Florida Building Code  
Date MAY 27, 2009  
NOA# 09-0212-04  
Miami Dade Product Control  
Division  
By Shag I. Claude

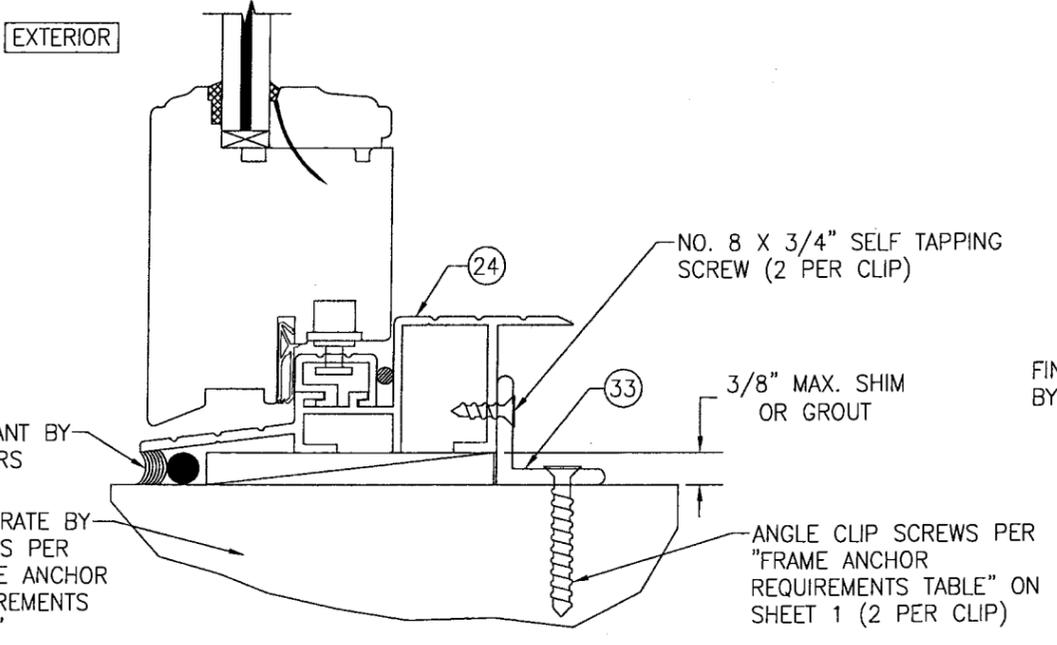
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE <b>OUT-SWING IMPACT WOOD DOORS</b>	
MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b> SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION <b>APR 22 2009</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. <b>1600</b>	REV.
SHEET NO. <b>12 OF 17</b>	

CONTINUOUS WOOD MEMBER LESS IN SIZE THAN A 2X BUCK TO BE MIN. 3 1/2" DEEP. NOT REQUIRED WHEN SHIM SPACE IS WITHIN ALLOWABLE DIMENSIONS SHOWN IN SECTIONS).



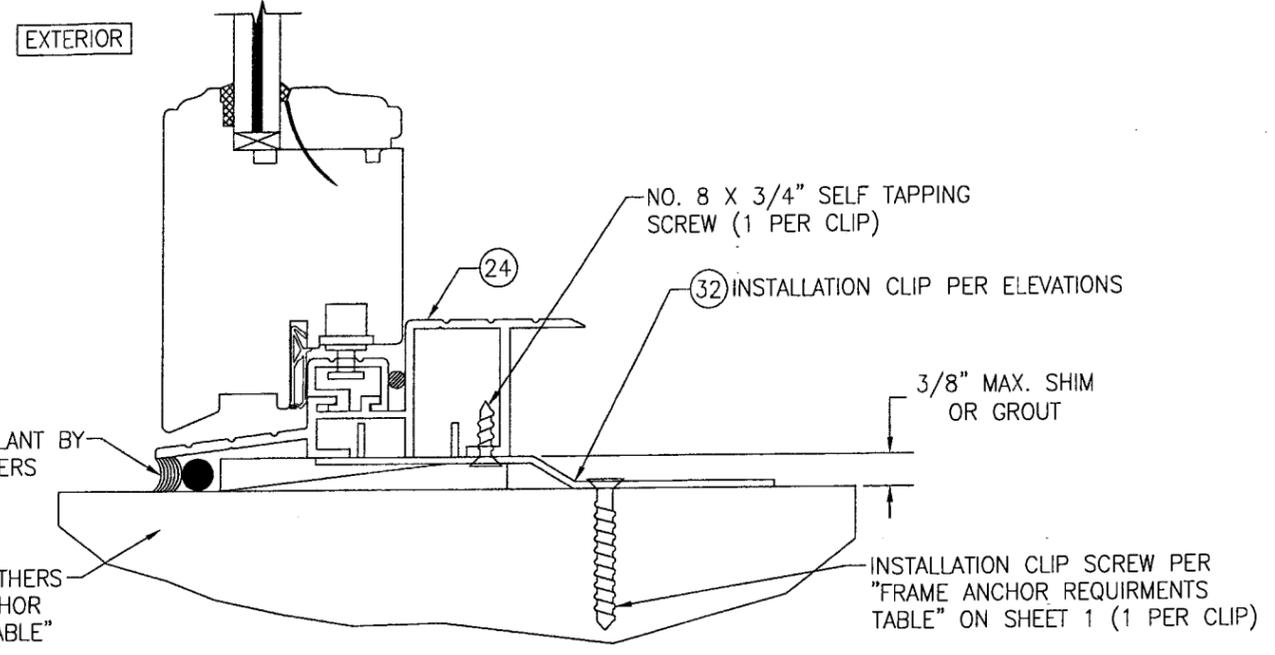
**OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER**

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



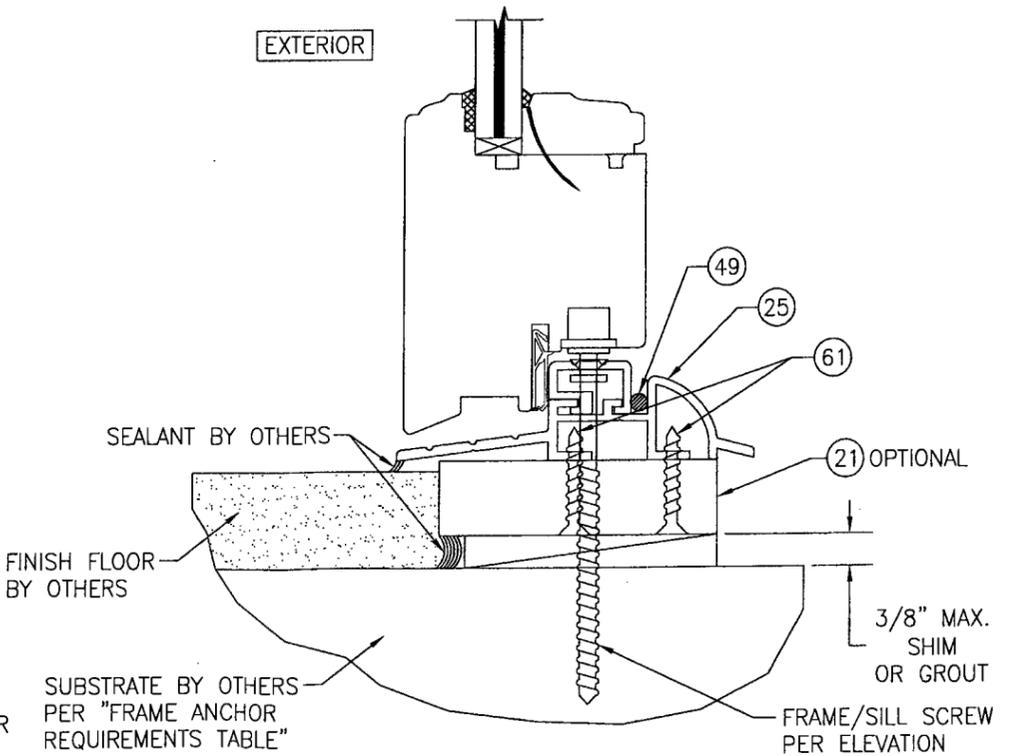
**SILL DETAIL (STANDARD SILL INSTALLED WITH ANGLE CLIP)**

(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



**SILL DETAIL (STANDARD SILL INSTALLED WITH INSTALLATION CLIP)**

(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

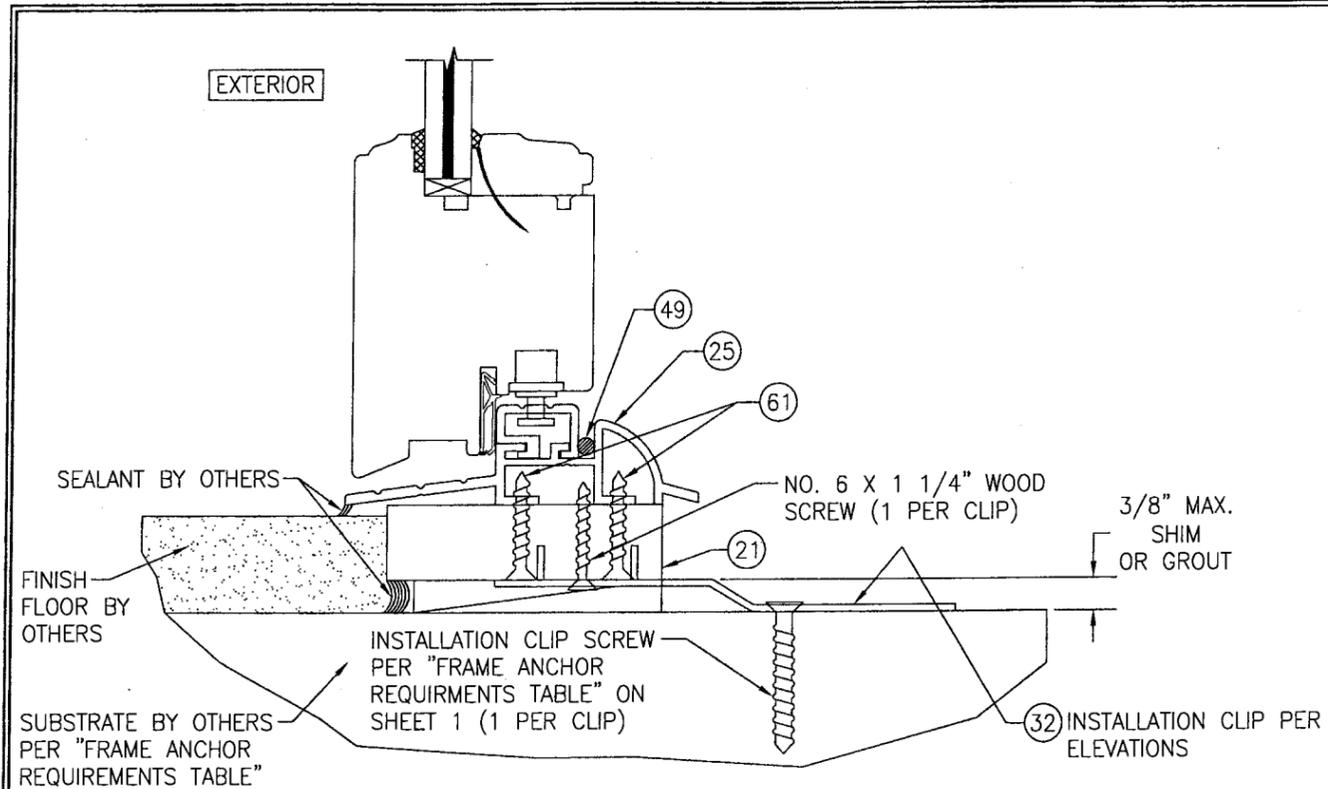


**SILL DETAIL (OPTIONAL SILL INSTALLED WITH FRAME/SILL SCREW)**

(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN; SEE OTHER SECTIONS)

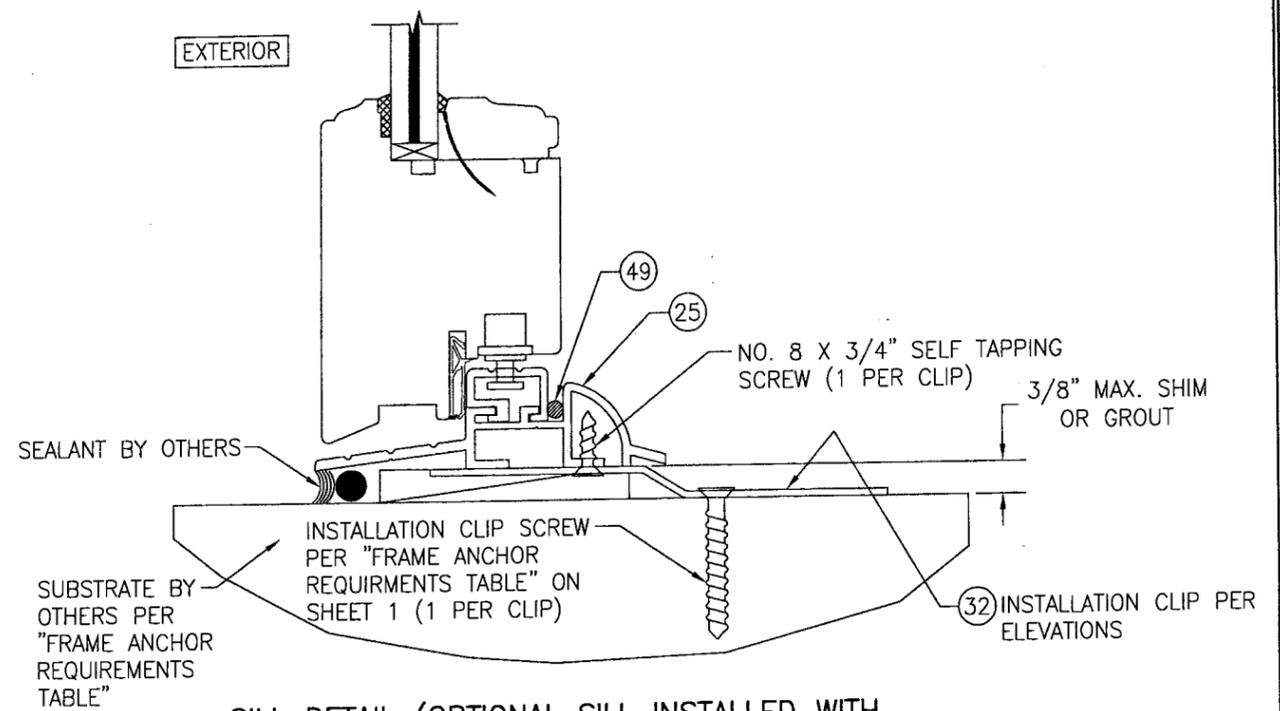
Approved as complying with the Florida Building Code  
Date MAY 27 2009  
NOA# 09-0212.04  
Miami Dade Product Control Division  
By Greg I. Chantz

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 10/08/08
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE <b>OUT-SWING IMPACT WOOD DOORS</b>	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b>	MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b>
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600
CERTIFICATION <b>APR 22 2009</b>	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. <b>1600</b>	REV.
SHEET NO. <b>13</b>	OF <b>17</b>



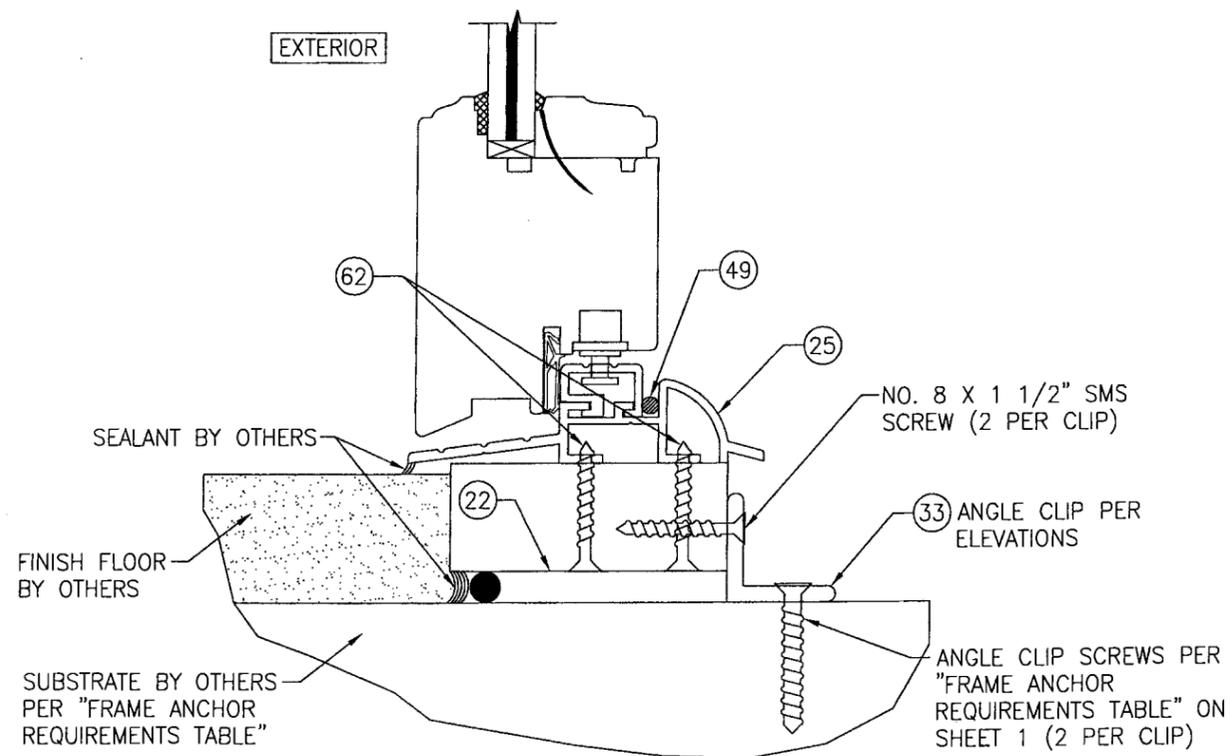
**SILL DETAIL (OPTIONAL SILL INSTALLED WITH INSTALLATION CLIP & SUB-SILL)**

(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



**SILL DETAIL (OPTIONAL SILL INSTALLED WITH INSTALLATION CLIP & NO SUB-SILL)**

(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



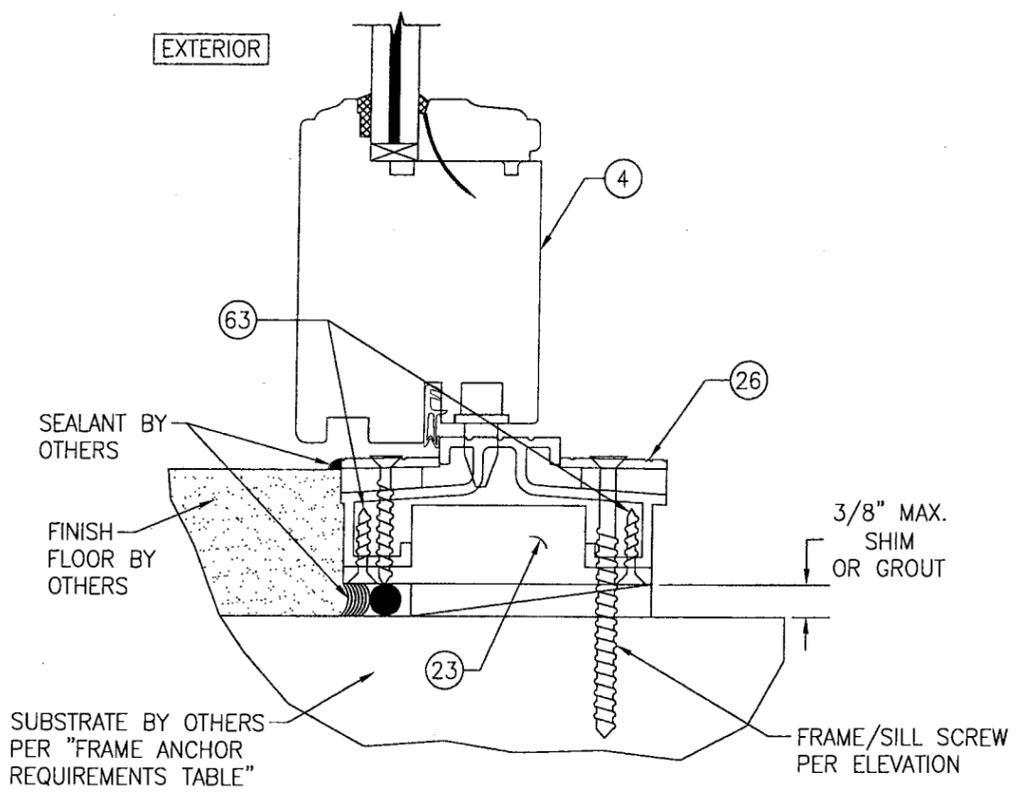
**SILL DETAIL (OPTIONAL SILL INSTALLED WITH ANGLE CLIP)**

(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

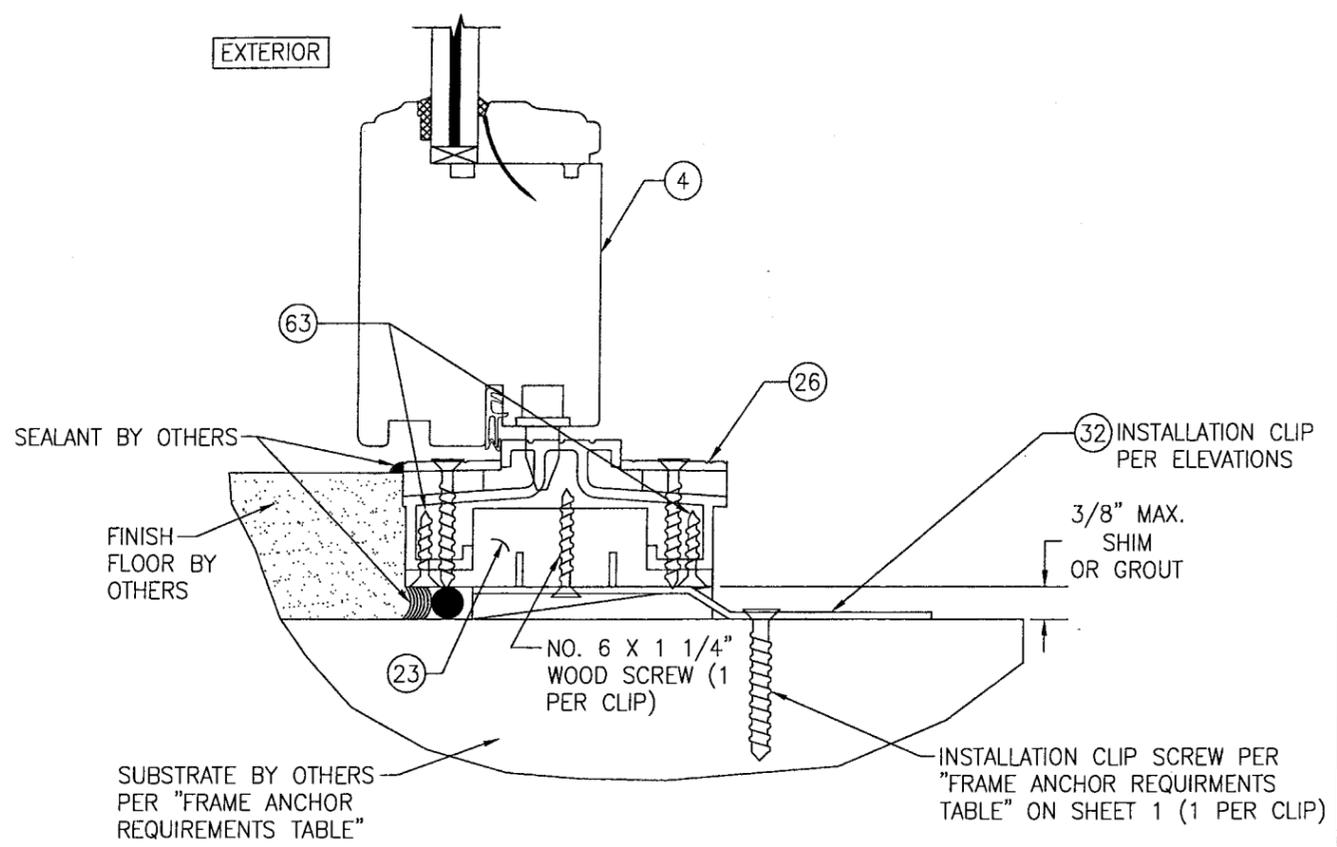
Approved as complying with the  
Florida Building Code  
Date MAY 23, 2009  
NOA# 09-0212-04  
Miami Dade Product Control  
Division  
By W. Schaefer

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08
NO.	DATE
BY	
REVISION DESCRIPTION	
DRAWING TITLE <b>OUT-SWING IMPACT WOOD DOORS</b>	
MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b>	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b>	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION	APR 22 2009
DRAWING NO. <b>1600</b>	REV.
SHEET NO. <b>14 OF 17</b>	

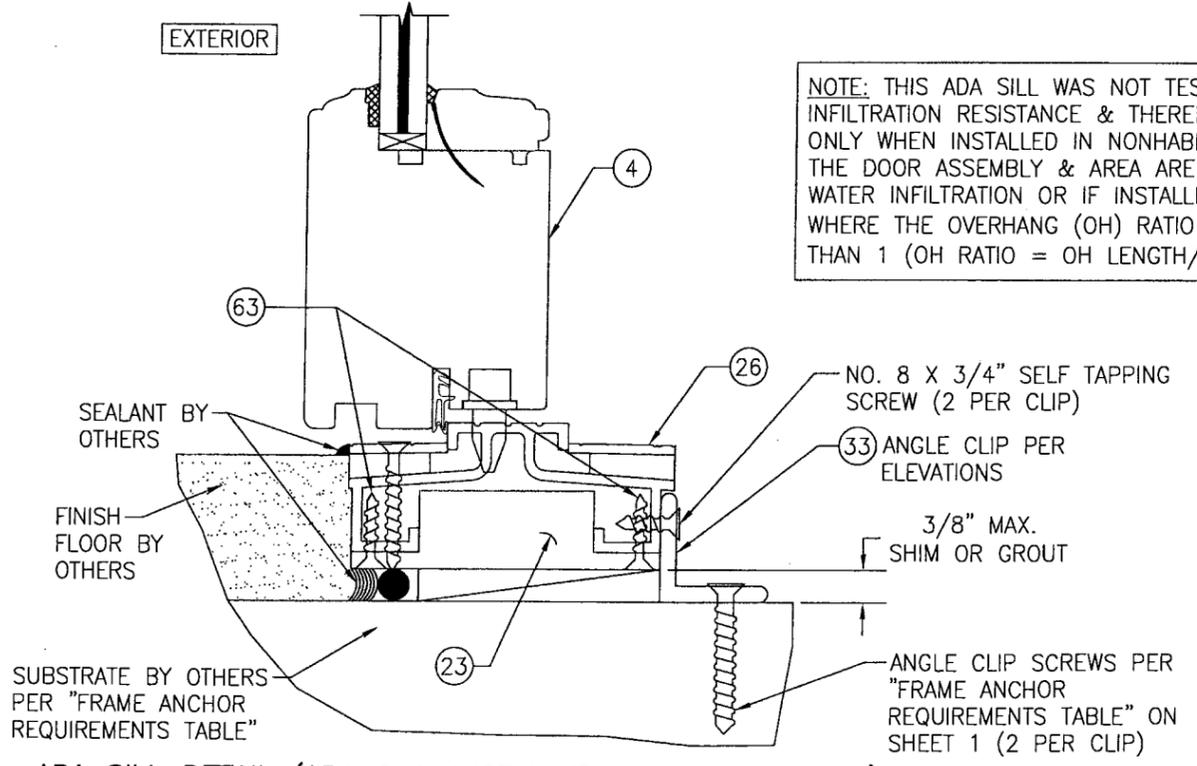
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 10/08/08	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE <b>OUT-SWING IMPACT WOOD DOORS</b>			
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b>		MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b>	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4802 FAX: 561-775-4803		SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CERTIFICATION <b>APR 28 2009</b> By <i>Isaac I. Chaudhry</i> WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. <b>1600</b>		REV.	
SHEET NO. <b>15</b>		OF <b>17</b>	



**ADA SILL DETAIL (ADA SILL INSTALLED WITH FRAME/SILL SCREW)**  
 (OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)  
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

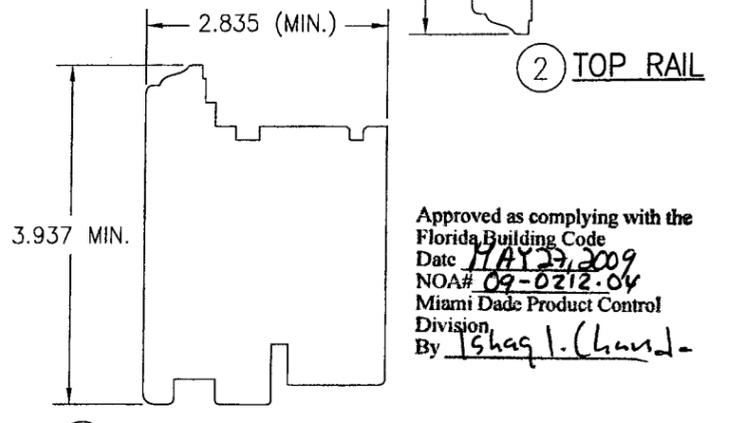
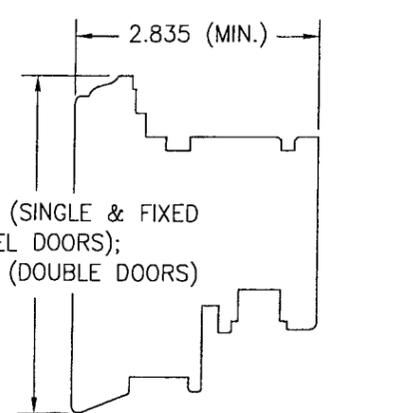
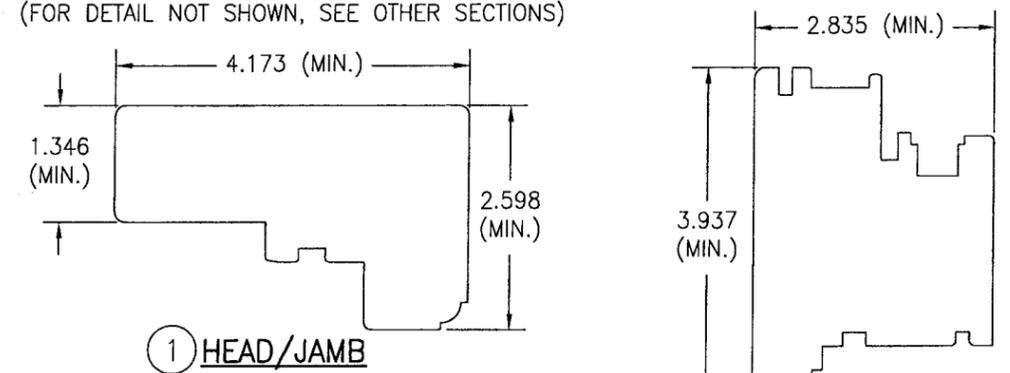


**ADA SILL DETAIL (ADA SILL INSTALLED WITH INSTALLATION CLIP)**  
 (OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)  
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

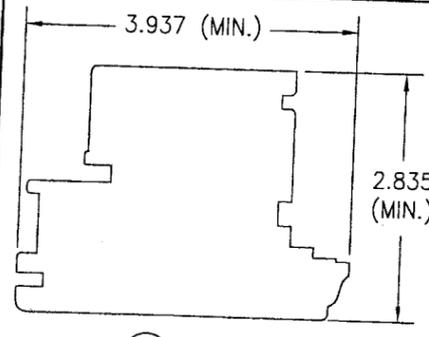


**ADA SILL DETAIL (ADA SILL INSTALLED WITH ANGLE CLIP)**  
 (OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)  
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

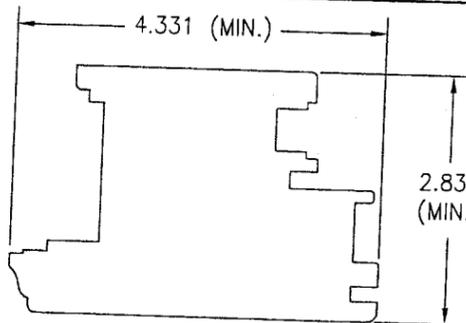
NOTE: THIS ADA SILL WAS NOT TESTED FOR WATER INFILTRATION RESISTANCE & THEREFORE IS ACCEPTABLE ONLY WHEN INSTALLED IN NONHABITABLE AREAS WHERE THE DOOR ASSEMBLY & AREA ARE DESIGNATED TO ACCEPT WATER INFILTRATION OR IF INSTALLED BELOW AN OVERHANG WHERE THE OVERHANG (OH) RATIO IS EQUAL TO OR MORE THAN 1 (OH RATIO = OH LENGTH/OH HEIGHT).



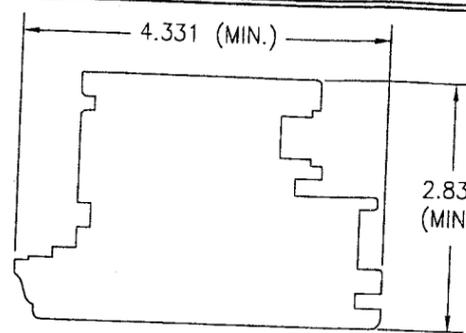
Approved as complying with the Florida Building Code  
 Date *MAY 23, 2009*  
 NOA# *09-0212-04*  
 Miami Dade Product Control Division  
 By *Isaac I. Chaudhry*



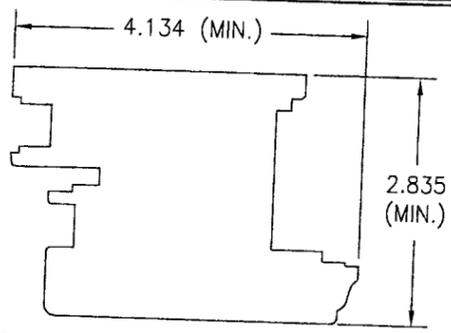
5 STILE



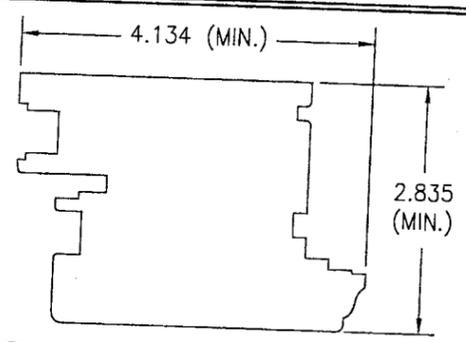
6A ACTIVE MEETING STILE (USED WITH REINFORCEMENT)



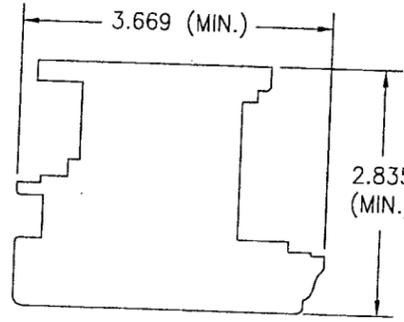
6B ACTIVE MEETING STILE (USED WITHOUT REINFORCEMENT)



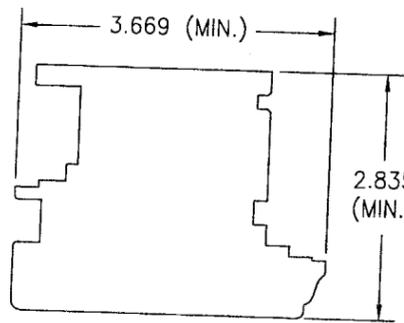
7A INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & REINFORCEMENT)



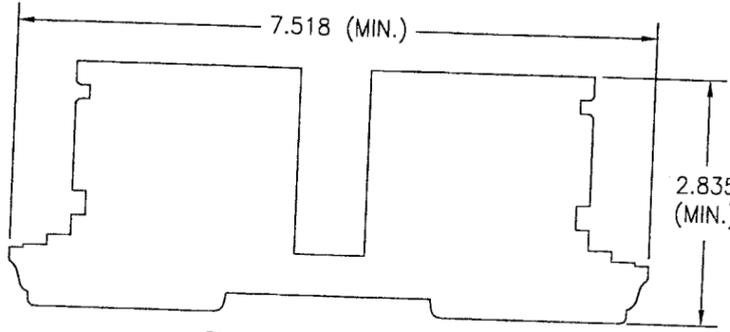
7B INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & WITHOUT REINFORCEMENT)



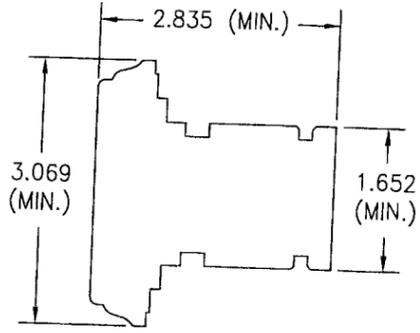
8A INACTIVE MEETING STILE (USED WITH Kfv LOCK SYSTEM & REINFORCEMENT)



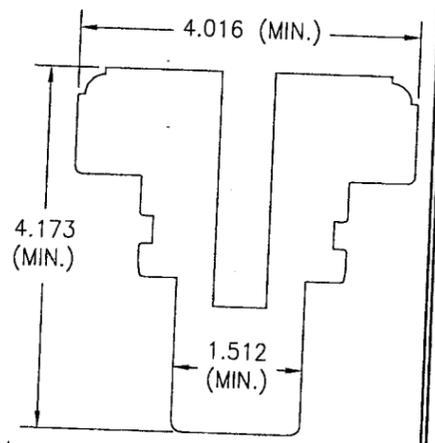
8B INACTIVE MEETING STILE (USED WITH Kfv LOCK SYSTEM & WITHOUT REINFORCEMENT)



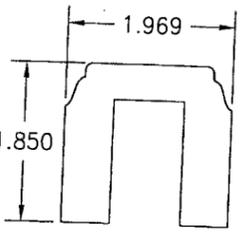
9 FIXED ASTRAGAL



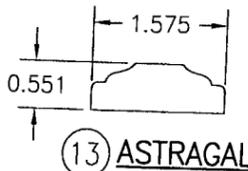
10 MID-RAIL



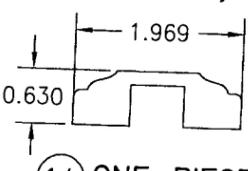
11 ONE-PIECE MULLION



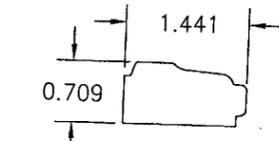
12 FIXED ASTRAGAL MULLION BAR COVER



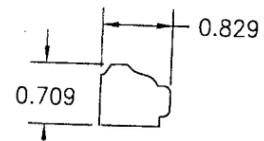
13 ASTRAGAL



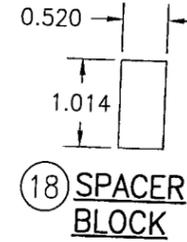
14 ONE-PIECE MULLION BAR COVER



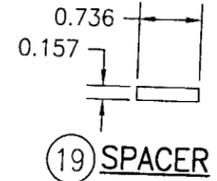
15 NON-I.G., MDF & WOOD VENEER GLAZING BEAD



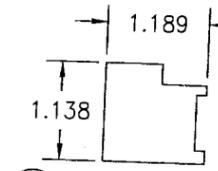
16 I.G. GLAZING BEAD



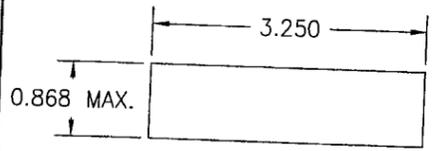
18 SPACER BLOCK



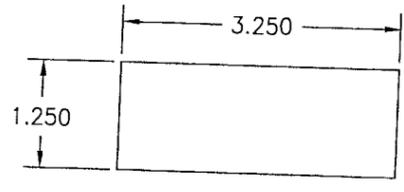
19 SPACER BLOCK



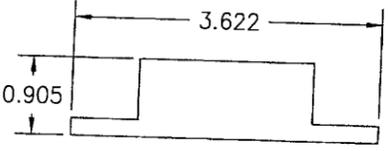
20 SPACER BLOCK (USED WITH Kfv MULTI-POINT LOCK SYSTEM)



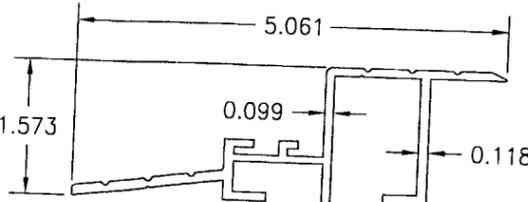
21 SUB-SILL



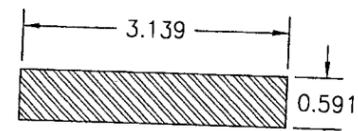
22 SUB-SILL



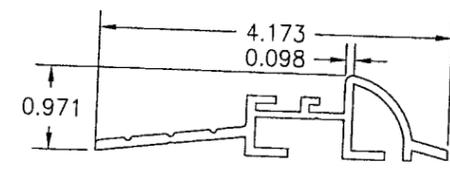
23 ADA SUB-SILL



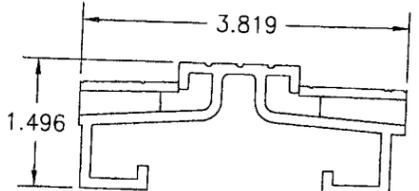
24 STANDARD SILL



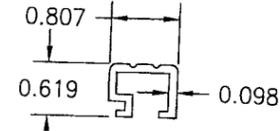
29 VERTICAL MULLION REINFORCEMENT



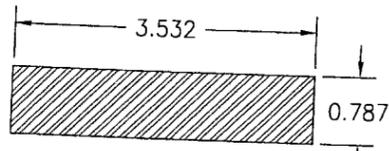
25 OPTIONAL SILL



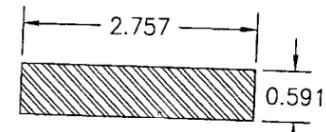
26 OPTIONAL ADA SILL



27 CONTINUOUS SILL STRIKE/COVER



28 VERTICAL FIXED ASTRAGAL REINFORCEMENT



30 TRANSOM MULLION REINFORCEMENT

Approved as complying with the Florida Building Code  
 Date MAY 27, 2009  
 NOA# 09-0212-04  
 Miami Dade Product Control Division  
 By Shag I. Chanda

DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLOT:	1=2	DATE:	10/08/08
NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: OUT-SWING IMPACT WOOD DOORS

MANUFACTURER:  
**TISCHLER UND SOHN (USA) LTD.**  
 SIX SUBURBAN AVENUE  
 STAMFORD, CONNECTICUT 06901  
 203-674-0600

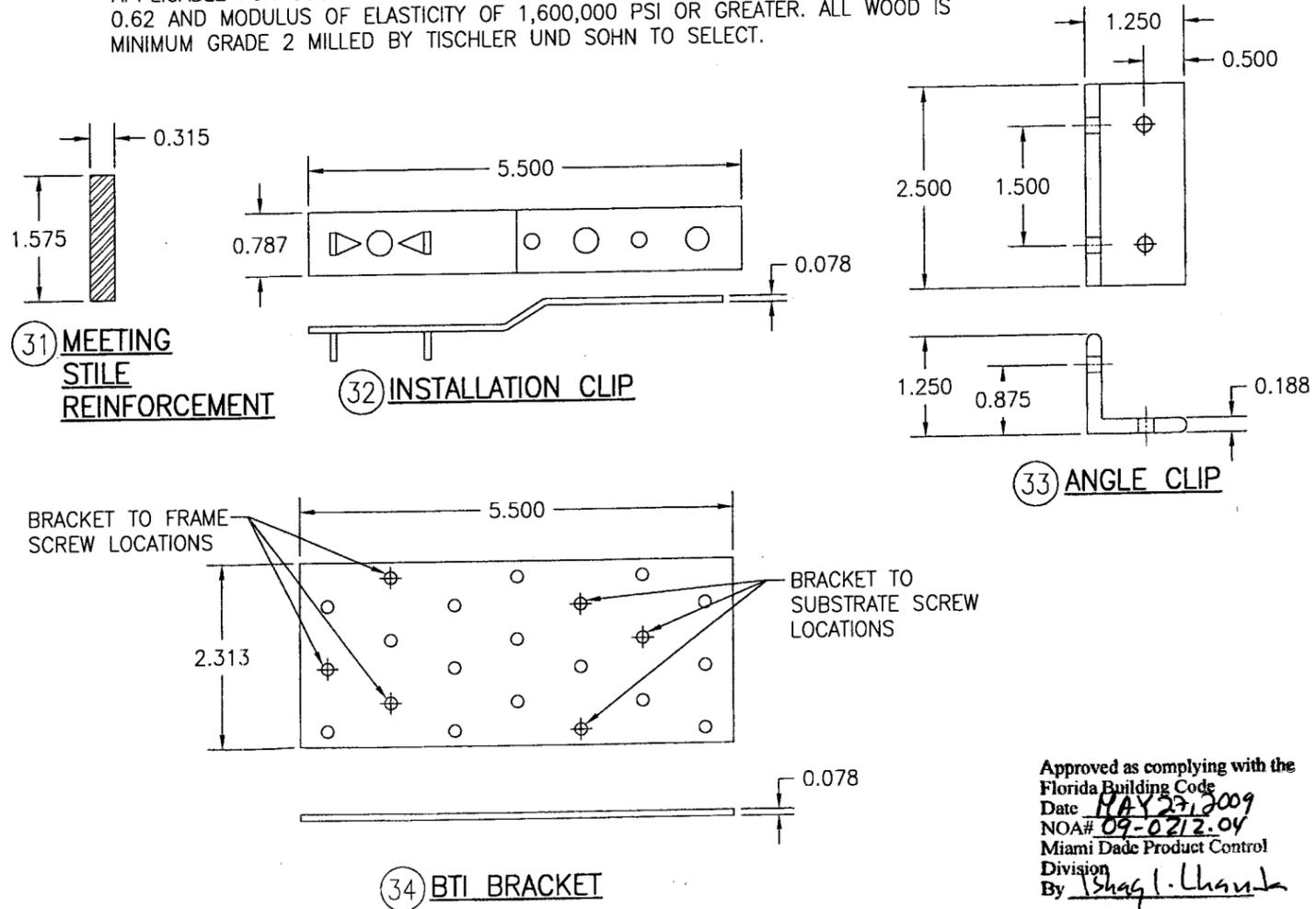
CONSULTANTS:  
**W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.**  
 8885 N. MILITARY TRAIL, SUITE C-204  
 PALM BEACH GARDENS, FL 33410  
 PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION  
**APR 22 2009**  
 WARREN W. SCHAEFER, P.E.  
 P.E. NO. 44133

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	HEAD/JAMB	MAHOGANY
2	TOP RAIL	MAHOGANY
3	STANDARD BOTTOM RAIL	MAHOGANY
4	BOTTOM RAIL (USED WITH ADA THRESHOLD)	MAHOGANY
5	STILE	MAHOGANY
6A	ACTIVE MEETING STILE (USED WITH REINFORCEMENT)	MAHOGANY
6B	ACTIVE MEETING STILE (USED WITHOUT REINFORCEMENT)	MAHOGANY
7A	INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & REINFORCEMENT)	MAHOGANY
7B	INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & WITHOUT REINFORCEMENT)	MAHOGANY
8A	INACTIVE MEETING STILE (USED WITH KFV LOCK SYSTEM & REINFORCEMENT)	MAHOGANY
8B	INACTIVE MEETING STILE (USED WITH KFV LOCK SYSTEM & WITHOUT REINFORCEMENT)	MAHOGANY
9	FIXED ASTRAGAL	MAHOGANY
10	MID-RAIL	MAHOGANY
11	ONE-PIECE MULLION	MAHOGANY
12	FIXED ASTRAGAL MULLION BAR COVER	MAHOGANY
13	ASTRAGAL	MAHOGANY
14	ONE-PIECE MULLION BAR COVER	MAHOGANY
15	NON-I.G., MDF & WOOD VEENER GLAZING BEAD	MAHOGANY
16	I.G. GLAZING BEAD	MAHOGANY
18	SPACER BLOCK	MAHOGANY
19	SPACER BLOCK	MAHOGANY
20	SPACER BLOCK (USED WITH KFV MULTI-POINT LOCK SYSTEM)	MAHOGANY
21	SUB-SILL	MAHOGANY
22	SUB-SILL	MAHOGANY
23	ADA SUB-SILL	MAHOGANY
24	STANDARD SILL	BRONZE
25	OPTIONAL SILL	BRONZE
26	OPTIONAL ADA SILL	BRONZE
27	CONTINUOUS SILL STRIKE/COVER	BRONZE
28	VERTICAL FIXED ASTRAGAL REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
29	VERTICAL MULLION REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
30	TRANSOM MULLION REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
31	MEETING STILE REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
32	INSTALLATION CLIP	GALVANIZED 54 KSI STEEL
33	ANGLE CLIP	6061-T6 ALUMINUM
34	BTI BRACKET	GALVANIZED 54 KSI STEEL
HARDWARE		
38	BUTT HINGE	BY: GENIATEC GMBH
39	MULTI-POINT LOCK SYSTEM	BY: KFV: STRAIGHT SHOOT
40	MULTI-POINT LOCK SYSTEM	BY: SIEGENIA AUBI KG TYPE: MUSHROOM
41	HANDLE	AS REQUIRED TO OPERATE LOCK SYSTEM

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
SEALS & SEALANTS		
45	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
46	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
47	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
48	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
49	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: WEGNER
FASTENERS		
52	0.06" X 1.26" S.S. CURVED NAIL	4" FROM CORNERS & 12" MAX. O.C.
53	0.16" X 1.57" WOOD SCREW	2 PER HINGE INTO STILE
54	0.16" X 1.18" WOOD SCREW	3 PER HINGE INTO JAMB
55	0.16" X 1 1/4" MACHINE SCREW	3 PER HINGE
56	0.16" THREADED INSERT	3 PER HINGE
57	0.30" X 4.72" BAUTEC WOOD SCREW	WITHIN 8" OF ENDS & 18" MAX. O.C.
59	NO. 14 X 4" BAUTEC WOOD SCREW	WITHIN 8" OF ENDS & 18" MAX. O.C.
60	0.18" X 2" WOOD SCREW	WITHIN 6" OF ENDS & 18" MAX. O.C.
61	0.136" X 1.26" SELF TAPPING SCREW	WITHIN 4" OF ENDS & 13 3/4" MAX. O.C.
62	0.136" X 1.50" SELF TAPPING SCREW	WITHIN 4" OF ENDS & 13 3/4" MAX. O.C.
63	0.11" X 0.87" SELF TAPPING SCREW	WITHIN 4" OF ENDS & 13 3/4" MAX. O.C.
64	0.24" X 3.15" WOOD SCREW	WITHIN 8" OF ENDS & 18" MAX. O.C.

NOTE: WOOD USED IN TESTING WAS SIPO MAHOGANY WITH A SPECIFIC GRAVITY OF G = 0.62 AND A MODULUS OF ELASTICITY OF E = 1,600,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.62 AND MODULUS OF ELASTICITY OF 1,600,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY TISCHLER UND SOHN TO SELECT.



Approved as complying with the Florida Building Code  
 Date MAY 27, 2009  
 NOA# 09-0212.04  
 Miami Dade Product Control  
 Division  
 By Shag I. Chaudhary

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE <b>OUT-SWING IMPACT WOOD DOORS</b>	
MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b> SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
DRAWING DATE <b>APR 22 2009</b>	
DRAWING NO. <b>1600</b>	
SHEET NO. <b>17 OF 17</b>	