



MIAMI-DADE COUNTY  
 PRODUCT CONTROL SECTION  
 11805 SW 26 Street, Room 208  
 Miami, Florida 33175-2474  
 T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
 BOARD AND CODE ADMINISTRATION DIVISION  
**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 and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Tischler series Inswing glazed Wood Doors-L.M. Impact**

**APPROVAL DOCUMENT:** Drawing No.1601 REV B, titled "In-Swing Impact Wood Doors", sheets 1 through 19 of 19, dated 10/08/08 and last revised on FEB 20, 2014, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large Missile Impact Resistant**

**Limitations:**

1. MDF material: Medite Exterior MDF panel EN 622 Type MDF-H2
2. See sheets 10 thru 13 for reinforcements, see glass & partial raised panel options on sheet 17.
3. Lower design pressure shall control when doors mulled w/ Tishler's transom (under separate approval) see sheet 8.
4. CMU to conform to ASTM-C 90 and min 2000 psi net compressive masonry strength.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, Kall/Eifel, Germany and series and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews NOA # 11-1101.13 and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

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



NOA No. 14-0303.06  
 Expiration Date: May 27, 2019  
 Approval Date: May 01, 2014  
 Page 1

5/14/14

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

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's parts drawings and sections (submitted under 11-1101.13 / #09-0212.05)
2. Drawing No.1601 REV B, titled "In-Swing Impact Wood Doors", sheets 1 through 19 of 19, dated 10/08/08 and last revised on OCT 27, 2011, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren Schaefer, P.E.

(Note: The revision consist of updating glass interlayer and angle clip masonry screw)

**B. TESTS (submitted under 11-1101.13 / #09-0212.05)**

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, 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 complying w/ FBC 2014 dated 02/20/2014, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed & sealed by Warren Schaefer, P.E.
2. Glazing complies with ASTM E-1300-02 &-04

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

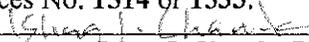
1. Notice of Acceptance No. 12-1231.08 issued to Eastman Chemical Co (MA) former Solutia, Inc., for "Saflex CP: Saflex & Saflex HP Composite Glass Interlayer w/ PET", expiring on 12/11/2018.
2. Notice of Acceptance No. 12-1231.10 issued to Eastman Chemical Co (MA) former Solutia Inc. for "Saflex Clear or colored interlayer", expiring on 05/21/16.
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 (submitted under 11-1101.13/ #09-0212.05).

**F. STATEMENTS**

1. Statement letters of conformance to FBC 5th Edition (2014), dated MAR 27, 2014 and e-mail dated APR 17, 2014, prepared by W. W. Schafer Engineering & Consulting, P. A., signed and sealed by Warren W. Schafer, P.E.
2. Statement letters of conformance to FBC 2010, dated OCT 28, 2011 and "No financial interest dated OCT 24, 2011, prepared by W. W. Schafer Engineering & Consulting, P. A., signed and sealed by Warren W. Schafer, P.E. (submitted under #11-1101.13)
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 (submitted under 11-1101.13 / #09-0212.05)

**G. OTHER**

1. This NOA revises & renews NOA # 11-1101.13, expiring 05/27/14.
2. Test proposal # 07-3533 dated Oct 22, 2007, approved by BCCO.
3. Distribution agreement between Tishler Und Sohn (USA) and Tishler/Cornelius Korn GmbH, Germany, signed by Tim Carpenter & Wilhelm Korn, respectively.
4. Tishler's current Fixed Casement windows NOA(s) w/ Drawing references No. 1514 or 1533.

  
Ishaq I. Chanda, P.E.  
Product Control Examiner  
NOA No. 14-0303.06  
Expiration Date: May 27, 2019  
Approval Date: May 01, 2014

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 KVV LOCK SYSTEM MAY BE USED. WHEN ADA SILL IS USED WITH A SINGLE DOOR, BOTH THE KVV & 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	

(1) LOCK STRIKE REQUIREMENTS (HINGE SIDE OF TILT-TURN DOORS)	
(2) PANEL HEIGHT	QUANTITY PER PANEL
ALL PANEL SHAPES	
ALL HEIGHTS	3
(1) WHEN DOOR IS TILT-TURN, ONLY 2 HINGES ARE USED COMBINED WITH LOCK POINTS. WHEN DOOR IS SWING ONLY, ONLY HINGES EXIST.	
(2) 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
POT HINGES	
OVER 99"	5
76" TO 99"	4
SCREWED-IN HINGES	
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	

HINGE REQUIREMENTS (TILT-TURN DOORS)	
2 PER DOOR (ALL SIZES OF ALL DOORS)	

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

**GENERAL NOTES:**

1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT DOORS.
5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE DOORS.
7. ALL ANCHORS SECURING DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF  $K_d = 0.85$  MAY BE APPLIED PER THE ASCE 7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR  $C_d = 1.6$  WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF DOORS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

**FRAME ANCHOR REQUIREMENTS TABLE**

OPENING TYPE (SUBSTRATE)	FRAME/SILL/CLIP/BRACKET TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME/SILL SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 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"
INSTALLATION CLIP SCREWS			
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"
BTI BRACKET SCREWS			
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"
ANGLE CLIP SCREWS			
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) 1/4" CONCRETE SCREW	1 1/4"	2"

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

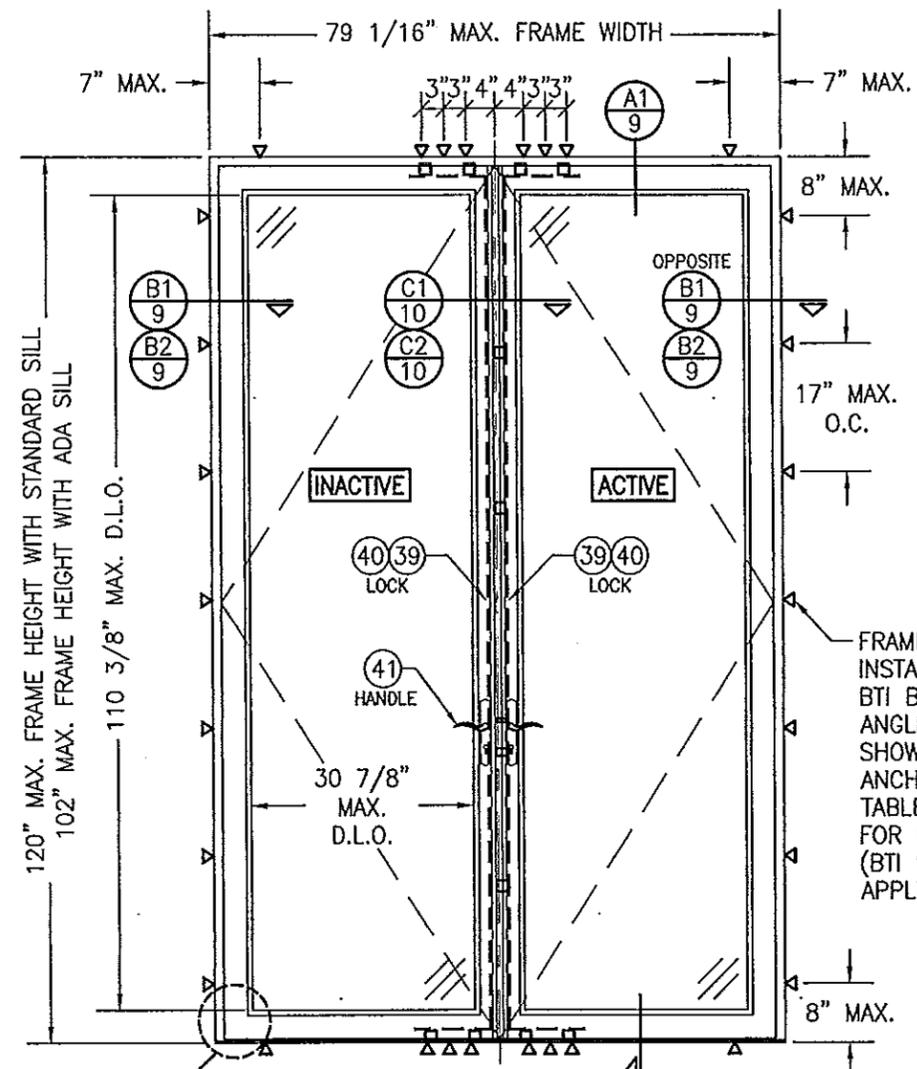
ALLOWABLE DESIGN PRESSURE (SINGLE & DOUBLE OPERABLE DOORS)			
MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
SINGLE DOOR			
51 1/8	120	(2) 70	(2) 70
41 1/4	99	70	(1) 85
DOUBLE DOOR			
79 1/16	120	70	70
79 1/16	99	70	(1)(3) 85
(1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTIONS 2 & 5 ARE USED & WITH STANDARD 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:**

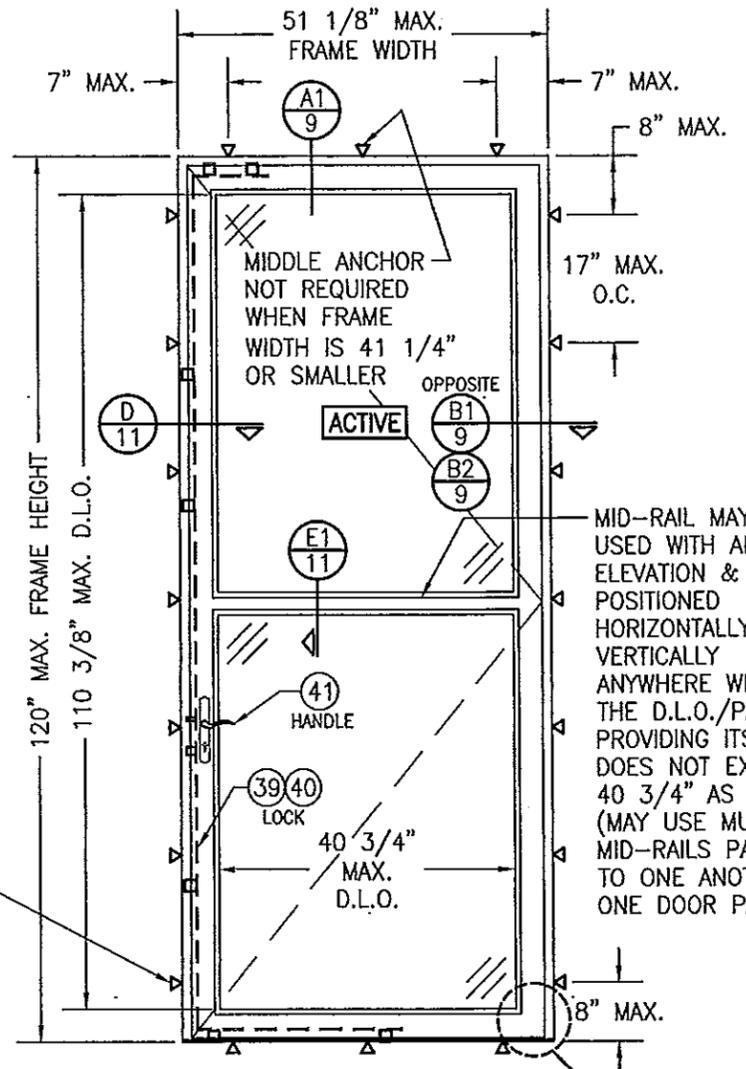
**RECTANGULAR FRAME CORNERS:** MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.  
**ARCHED FRAME CORNERS:** ARCHED FRAME BUTTED TO STRAIGHT FRAME, JOINED WITH ONE(1) NO.14 X 3" WOOD SCREW, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.  
**HALF ROUND FRAME 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, ELCO CRETE-FLEX OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).  
 (2) ALL SELF TAP/DRILLING SCREWS SHALL BE MIN. GR. 5

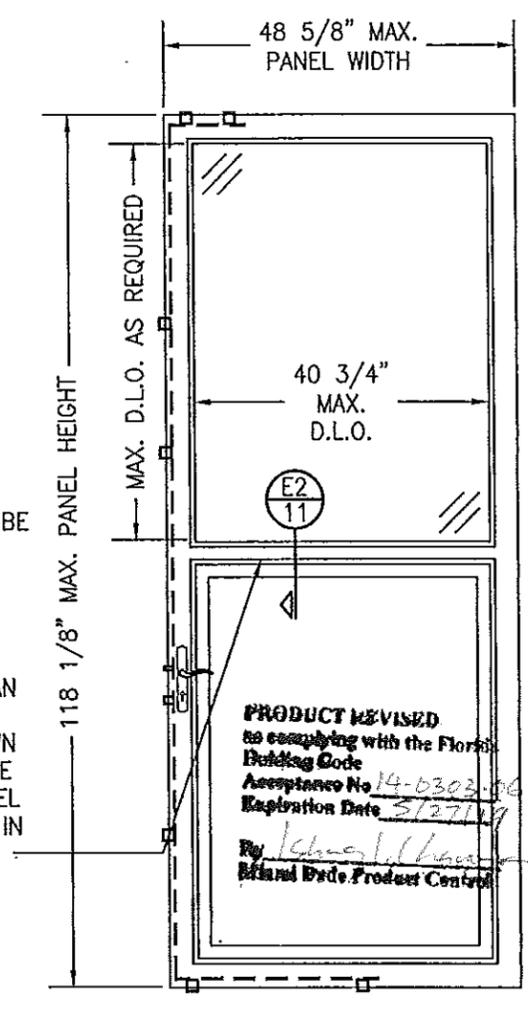
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
DATE: 10/25/11	DATE: 10/08/08
PLT: 1-24	
NO.	REVISION
A1	UPDATE TO CURRENT STANDARDS
B1	UPDATE TO CURRENT STANDARDS
<b>IN-SWING IMPACT WOOD DOORS</b> MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b> SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
<b>PRODUCT REVISED</b> as complying with the Florida Building Code Acceptance No. 14-0303-06 Expiration Date MAY 27, 2019 By: [Signature] Miami Trade Product Control	
DRAWING TITLE <b>IN-SWING IMPACT WOOD DOORS</b>	
CERTIFICATION <b>FEB 20 2014</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1601	REV. B
SHEET NO. 1 OF 19	



**INTERIOR ELEVATION:  
DOUBLE RECTANGULAR DOOR  
(TURN ONLY CONDITION)**  
SCALE: 1/2" = 1'-0"



**INTERIOR ELEVATION:  
SINGLE RECTANGULAR DOOR  
(TURN ONLY CONDITION)**  
SCALE: 1/2" = 1'-0"



**INTERIOR 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)

**PRODUCT REVISED**  
to comply with the Florida  
Building Code  
Acceptance No. 14-0302-06  
Expiration Date 5/27/19  
By [Signature]  
Miami Door Product Control

SEE "CORNER  
CONSTRUCTION"  
DESCRIPTION  
ON THIS SHEET

SEE "CORNER  
CONSTRUCTION"  
DESCRIPTION  
ON THIS SHEET

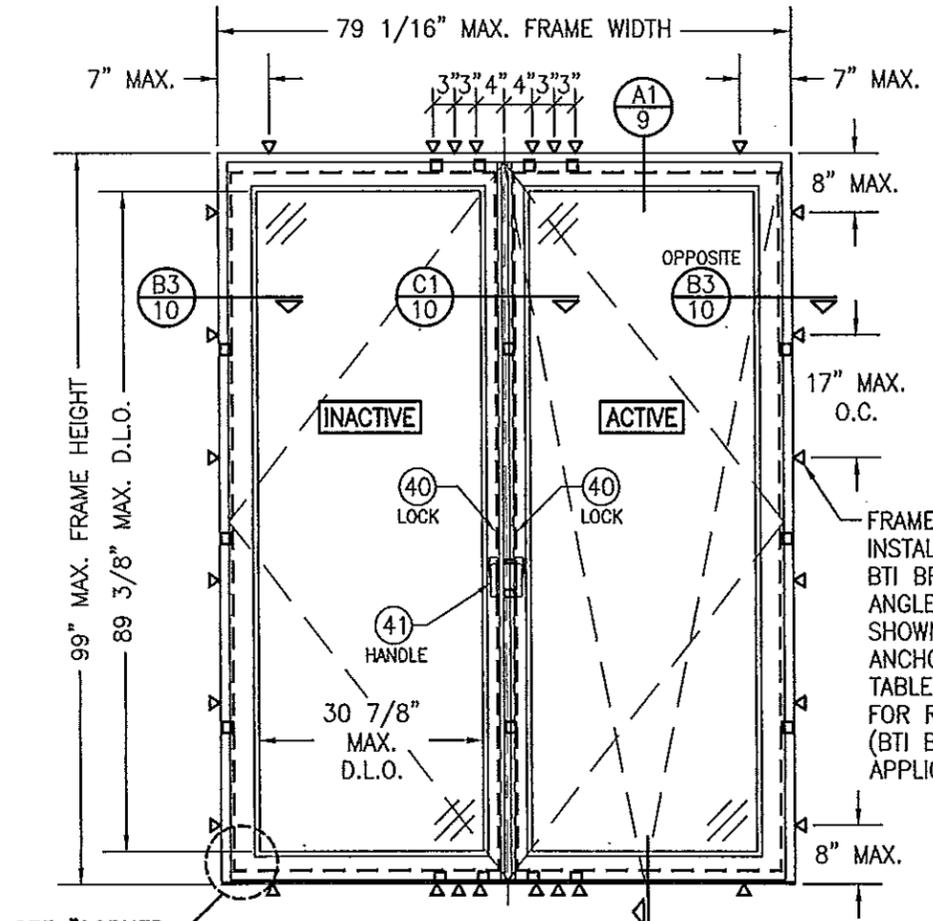
**ALLOWABLE DESIGN PRESSURE**  
SEE PRESSURE TABLE ON SHEET 1

DUE TO HINGE CONDITION VARIATIONS,  
HINGES ARE NOT SHOWN IN ELEVATIONS,  
SEE SECTIONS & HINGE TABLES FOR  
HINGE REQUIREMENTS

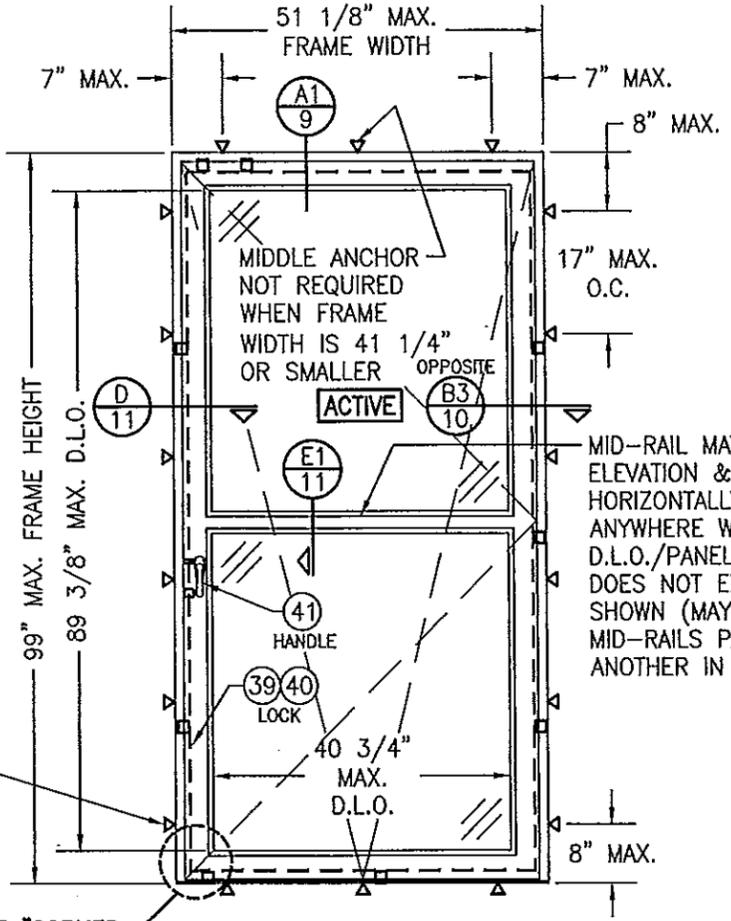
**PANEL NOTES:**

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.
5. BOTH TURN ONLY & TILT & TURN CONDITIONS APPLY.

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 10/08/08	
NO.	REVISION DESCRIPTION	BY	DATE
<p><b>DRAWING TITLE</b> IN-SWING IMPACT WOOD DOORS</p> <p><b>CONSULTANTS</b> W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424</p> <p><b>MANUFACTURER</b> TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600</p>			
<p><b>CERTIFICATION</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44135 FEB 20 2014</p>			
DRAWING NO. 1601		REV. B	
SHEET NO. 2 OF 19			



**INTERIOR ELEVATION:  
DOUBLE RECTANGULAR DOOR  
(TURN & TILT CONDITION)**  
SCALE: 1/2" = 1'-0"



**INTERIOR ELEVATION:  
SINGLE RECTANGULAR DOOR  
(TURN & TILT CONDITION)**  
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).

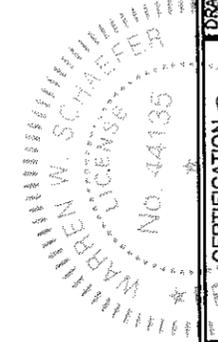
MID-RAIL MAY BE USED WITH ANY  
ELEVATION & MAY BE POSITIONED  
HORIZONTALLY OR VERTICALLY  
ANYWHERE WITHIN THE  
D.L.O./PANEL PROVIDING ITS SPAN  
DOES NOT EXCEED 40 3/4" AS  
SHOWN (MAY USE MULTIPLE  
MID-RAILS PARALLEL TO ONE  
ANOTHER IN ONE DOOR PANEL)

**PRODUCT REVISED**  
to comply with the Florida  
Building Code  
Acceptance No. 14-0303.06  
Expiration Date 5/27/19  
By [Signature]  
Signed Date Product Control

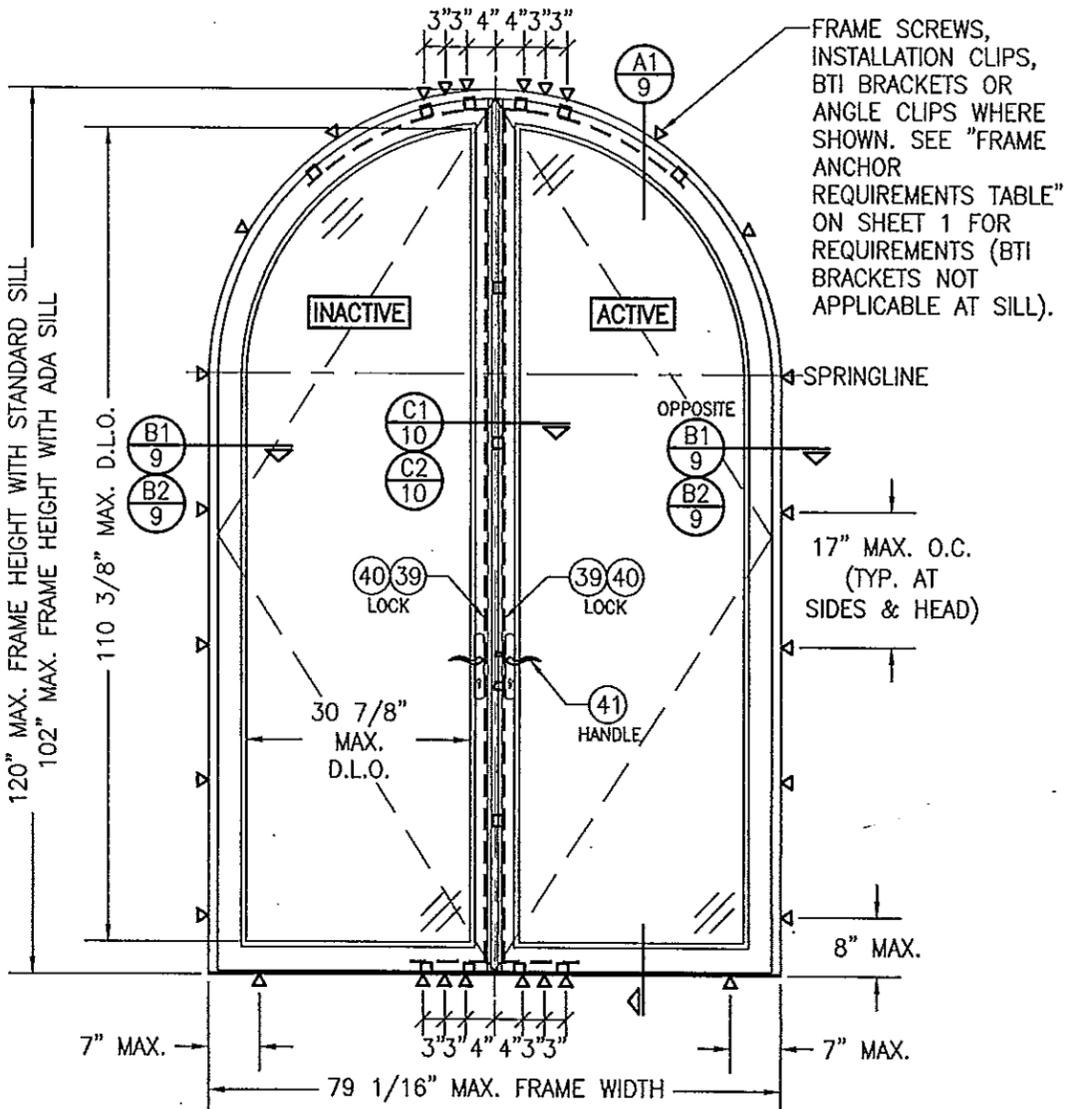
**ALLOWABLE DESIGN PRESSURE**  
SEE PRESSURE TABLE ON SHEET 1

DUE TO HINGE CONDITION VARIATIONS,  
HINGES ARE NOT SHOWN IN ELEVATIONS,  
SEE SECTIONS & HINGE TABLES FOR  
HINGE REQUIREMENTS

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 10/08/08
DATE	BY
REVISION DESCRIPTION	
NO.	
DRAWING TITLE <b>IN-SWING IMPACT WOOD DOORS</b>	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b>	MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b> SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600
7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION <b>FEB 20 2014</b>	WARREN W. SCHAEFER, P.E. P.E. NO. 44133
DRAWING NO. <b>1601</b>	REV. <b>B</b>
SHEET NO. <b>3</b>	OF <b>19</b>

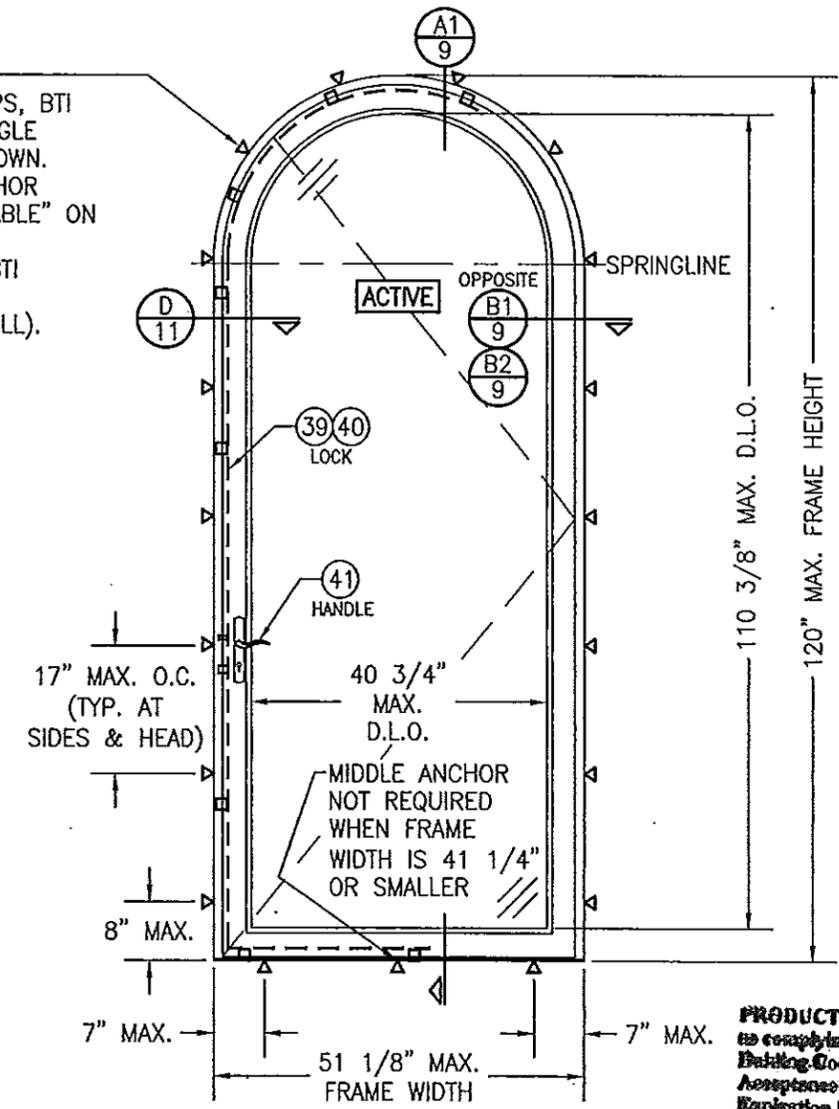


DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 10/08/08
NO.	REVISION DESCRIPTION
DATE	BY
MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b> SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
DRAWING TITLE <b>IN-SWING IMPACT WOOD DOORS</b>	
CERTIFICATION <b>FEB 20 2014</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO.	REV.
1601	B
SHEET NO.	
4 OF 19	



**INTERIOR ELEVATION:  
DOUBLE HALF ROUND DOOR  
(TURN ONLY CONDITION)**  
SCALE: 1/2" = 1'-0"

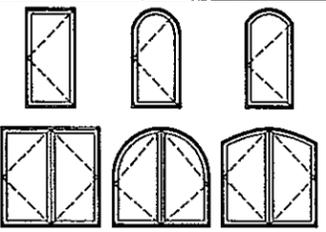
FRAME SCREWS,  
INSTALLATION CLIPS, BTI  
BRACKETS OR ANGLE  
CLIPS WHERE SHOWN.  
SEE "FRAME ANCHOR  
REQUIREMENTS TABLE"  
ON SHEET 1 FOR  
REQUIREMENTS (BTI  
BRACKETS NOT  
APPLICABLE AT SILL).



**INTERIOR ELEVATION:  
SINGLE HALF ROUND DOOR  
(TURN ONLY CONDITION)**  
SCALE: 1/2" = 1'-0"

**PRODUCT REVISED**  
to comply with the Florida  
Building Code  
Acceptance No. 14-0303-06  
Expiration Date 5/27/19  
By: [Signature]  
Initial Date Product Control

**APPROVED SHAPED  
(OPERABLE DOORS)**



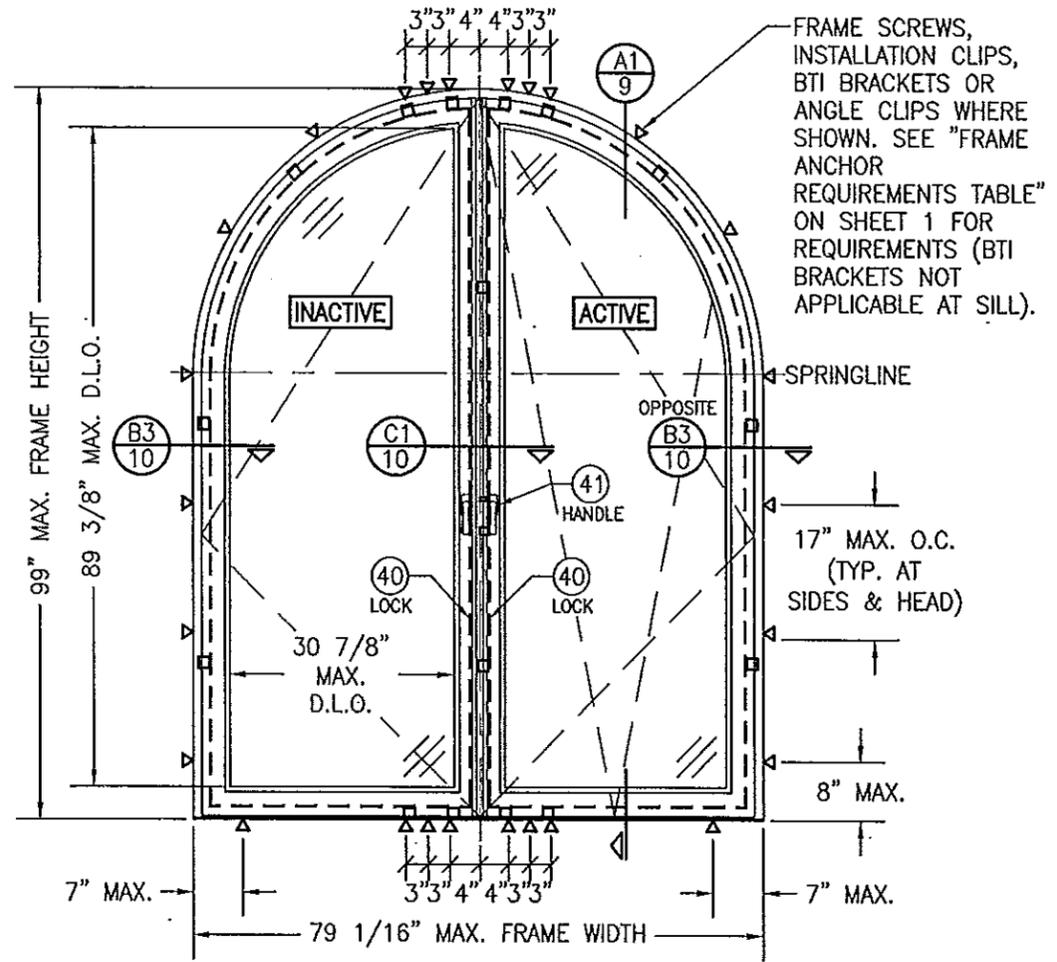
**NOTES:**  
1. OTHER SHAPES MAY APPLY  
PROVIDING THEY ARE SIMILAR TO  
THOSE SHOWN & HAVE CORNER  
CONSTRUCTION AS DESCRIBED IN THIS  
DRAWING.  
2. ALL SHAPED UNITS MUST FIT  
INSCRIBED INTO THE ALLOWABLE  
RECTANGULAR UNITS & BE GOVERNED  
BY THE ALLOWABLE PRESSURE OF THE  
RESPECTIVE RECTANGULAR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

**ALLOWABLE DESIGN PRESSURE**  
SEE PRESSURE TABLE ON SHEET 1

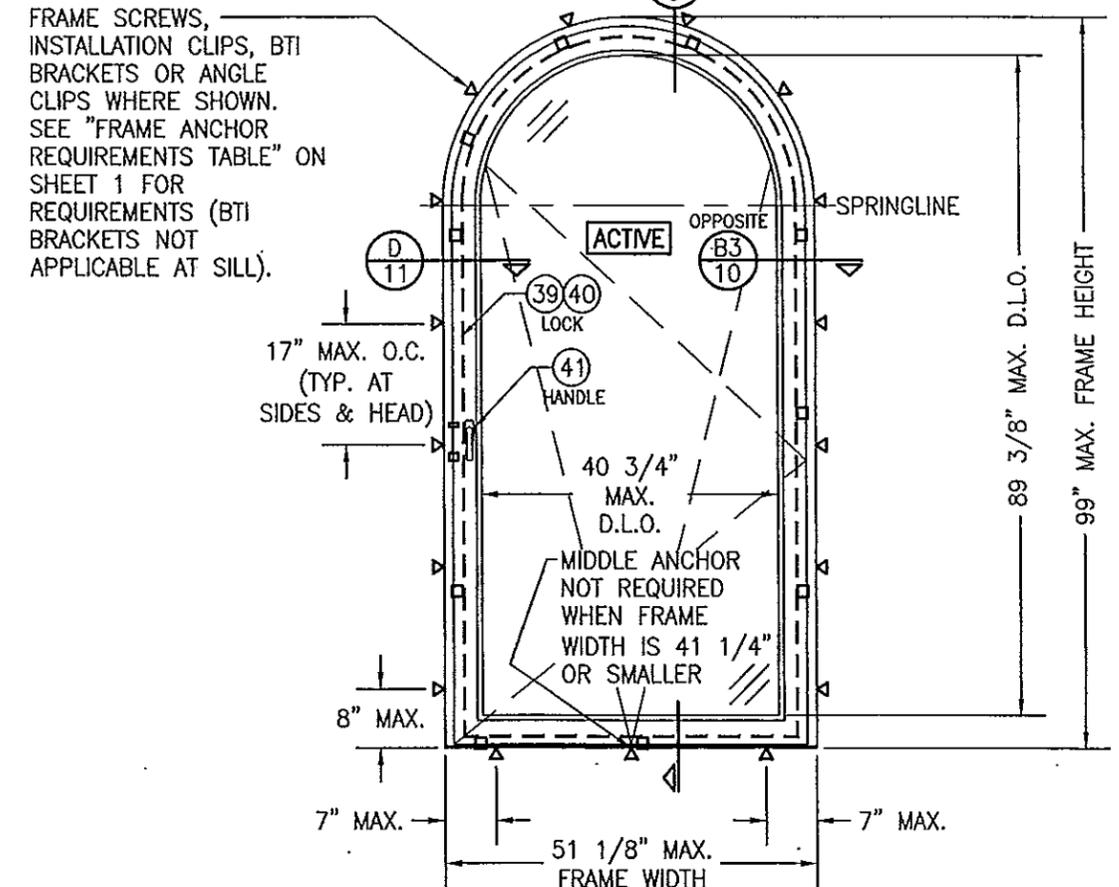
**DUE TO HINGE CONDITION VARIATIONS,  
HINGES ARE NOT SHOWN IN ELEVATIONS,  
SEE SECTIONS & HINGE TABLES FOR  
HINGE REQUIREMENTS**

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

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PLOT: 1=24	DATE: 10/08/08
DATE	
BY	
REVISION DESCRIPTION	
NO.	



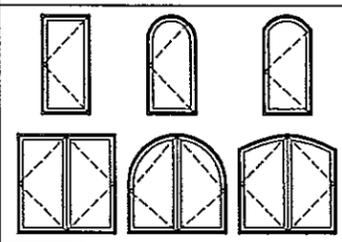
**INTERIOR ELEVATION:  
DOUBLE HALF ROUND DOOR  
(TURN & TILT CONDITION)**  
SCALE: 1/2" = 1'-0"



**INTERIOR ELEVATION:  
SINGLE HALF ROUND DOOR  
(TURN & TILT CONDITION)**  
SCALE: 1/2" = 1'-0"

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 14-1303-06  
Expiration Date 5/27/19  
By *[Signature]*  
Miami Dade Product Control

**APPROVED SHAPED  
(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

**DUE TO HINGE CONDITION VARIATIONS, HINGES ARE NOT SHOWN IN ELEVATIONS, SEE SECTIONS & HINGE TABLES FOR HINGE REQUIREMENTS**

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

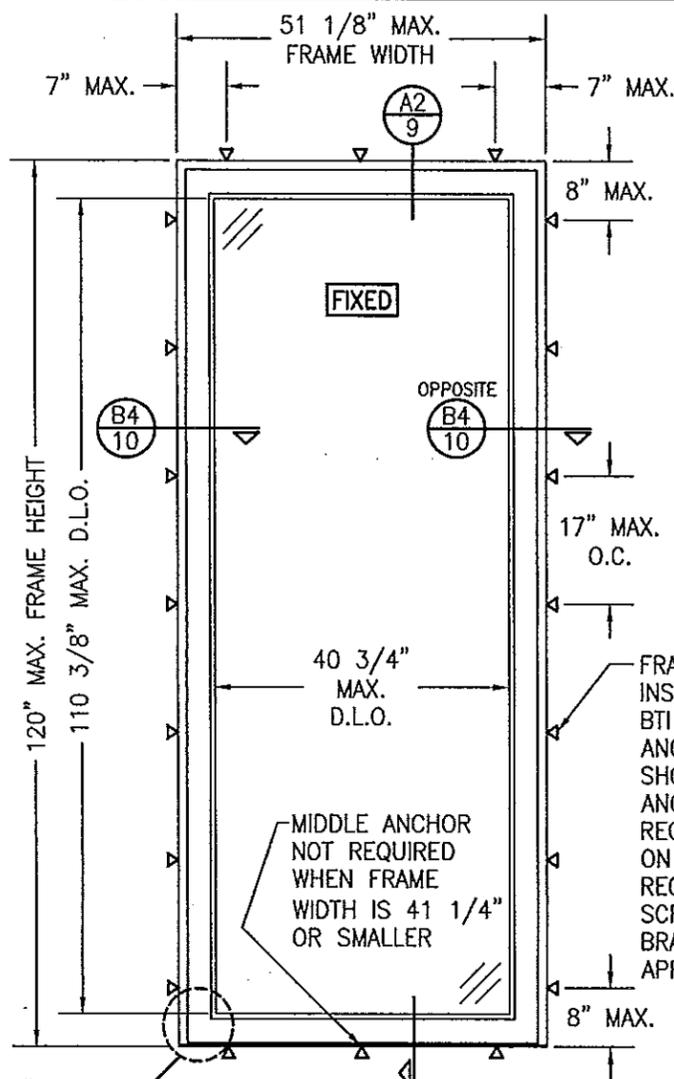
**IN-SWING IMPACT WOOD DOORS**  
MANUFACTURER  
**TISCHLER UND SOHN (USA) LTD.**  
SIX SUBURBAN AVENUE  
STAMFORD, CONNECTICUT 06901  
203-674-0600

CONSULTANTS  
**W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)**  
7480 150TH COURT NORTH  
PALM BEACH GARDENS, FL 33418  
PHONE: 561-744-3424



**CERTIFICATION**  
FEB 20 2014  
WARREN W. SCHAEFER, P.E.  
P.E. NO. 44135

DRAWING NO.	REV.
1601	B
SHEET NO.	
5 OF 19	



SEE "CORNER CONSTRUCTION" DESCRIPTION ON SHEET 1  
**INTERIOR ELEVATION: SINGLE FIXED PANEL**  
 SCALE: 1/2" = 1'-0"  
 (RECTANGULAR FIXED DOOR SHOWN, SHAPED DOORS ALSO APPLY. SEE "APPROVED SHAPES" TABLE ON THIS SHEET)

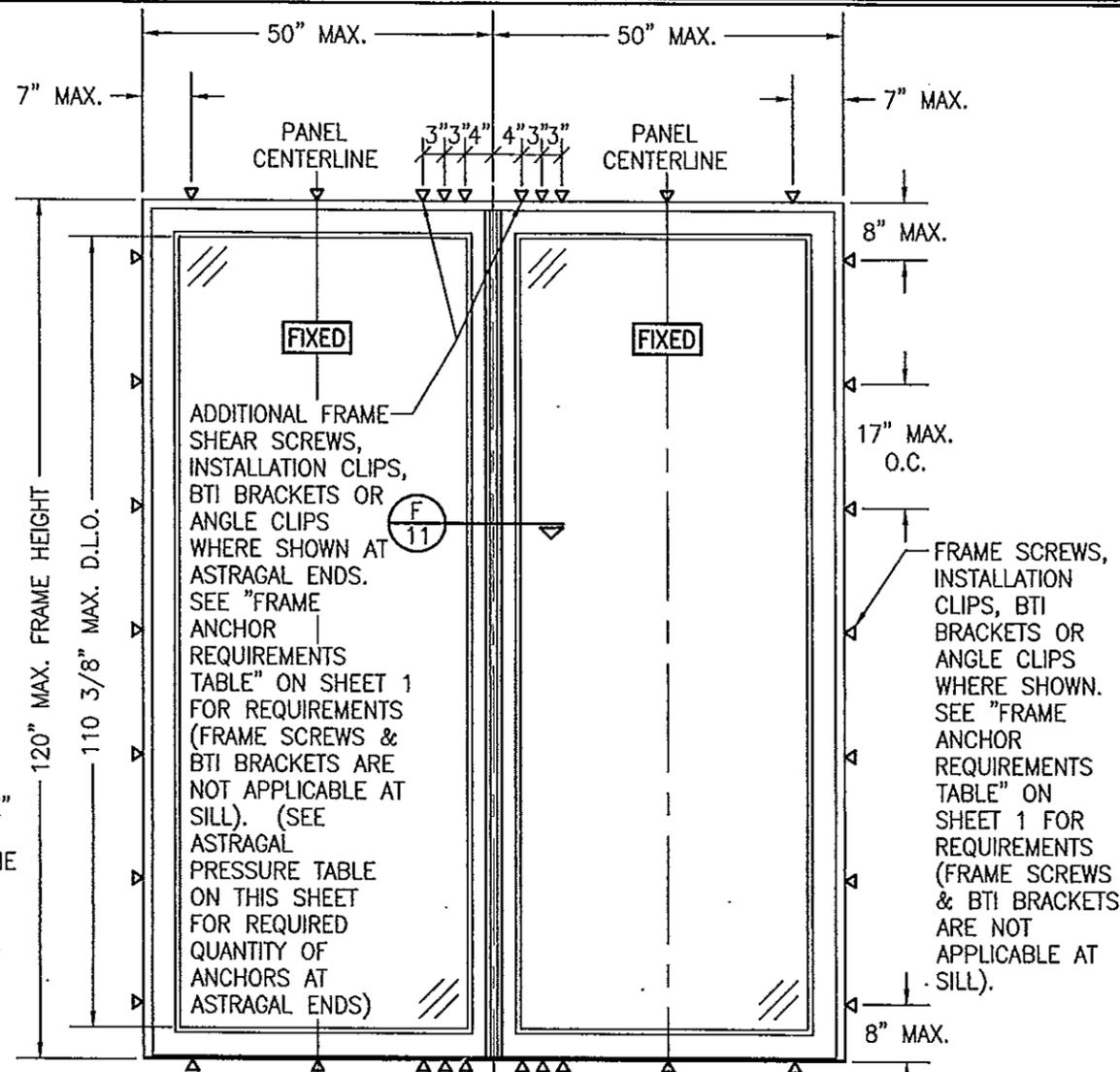
ALLOWABLE DESIGN PRESSURE (SINGLE FIXED PANELS)			
MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
51 11/16	120	(2) 70	(2) 70
51 11/16	99	70	(1) 85

(1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTIONS 2 & 5 ARE USED.  
 (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.



FOR MAX. LOAD WIDTH, SEE ASTRAGAL PRESSURE TABLE ON THIS SHEET  
**INTERIOR ELEVATION: DOUBLE FIXED PANEL WITH FIXED ASTRAGAL**  
 SCALE: 1/2" = 1'-0"  
 SEE SINGLE FIXED PANEL ELEVATION FOR DETAIL NOT SHOWN

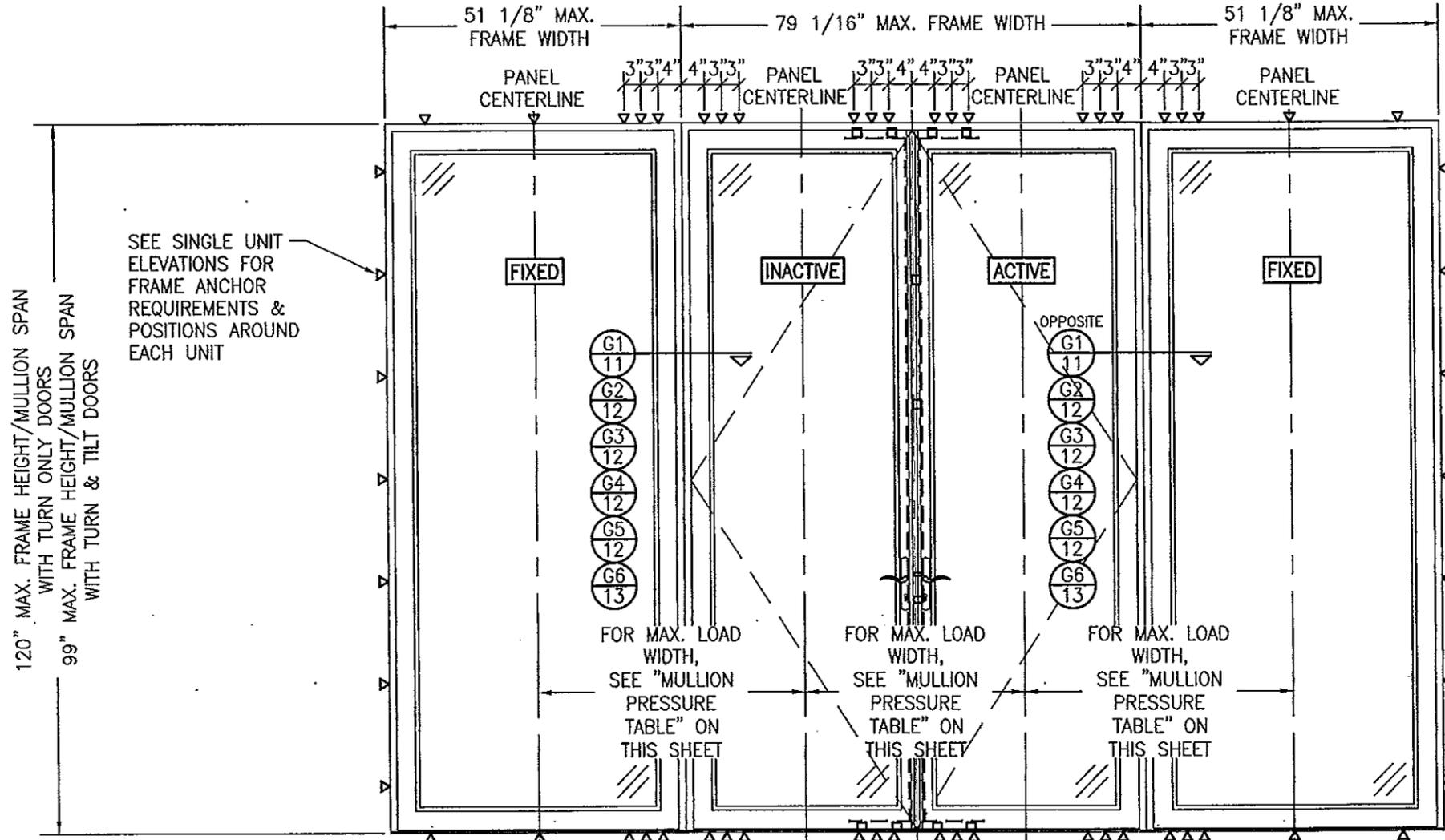
**ANCHOR NOTE:** ANCHOR SPACING AT THE HEAD OF ALL TYPES OF SHAPED PANEL DOORS MUST EQUAL THAT SPECIFIED AT THE SIDES (17" MAX. O.C.)

**PRODUCT REVISED**  
 in compliance with the Florida Building Code  
 Acceptance No. 14-0463.06  
 Expiration Date 5/27/19  
 By [Signature]  
 Miami Date Product Control

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
	50	70.0	77.1	70.0	85.0
	48	70.0	80.3	70.0	85.0
80	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"

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 10/08/08
DATE	BY
NO.	REVISION DESCRIPTION
<b>IN-SWING IMPACT WOOD DOORS</b> MANUFACTURER: TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION FEB 20 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1601	REV. B
SHEET NO. 6 OF 19	



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

120" MAX. FRAME HEIGHT/MULLION SPAN WITH TURN ONLY DOORS  
 99" MAX. FRAME HEIGHT/MULLION SPAN WITH TURN & TILT DOORS

FOR MAX. LOAD WIDTH, SEE "MULLION PRESSURE TABLE" ON THIS SHEET

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

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

(RECTANGULAR DOORS SHOWN, SHAPED DOORS ALSO APPLY. SEE "APPROVED SHAPED" TABLE ON SHEETS 4 & 5)

**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. OXOXO 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.
5. BOTH TURN ONLY & TILT & TURN CONDITIONS APPLY.

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

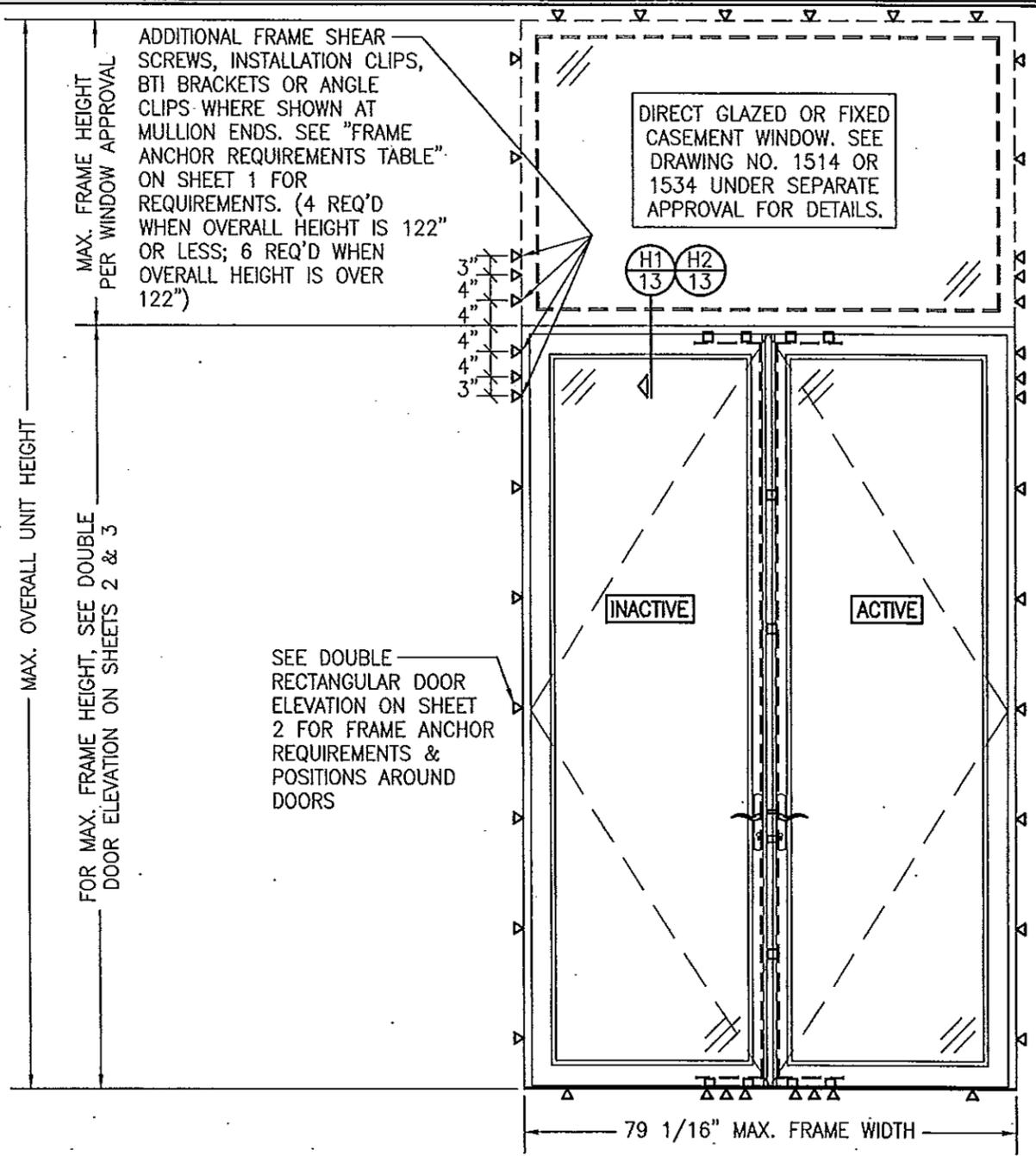
ADDITIONAL FRAME SCREWS, INSTALLATION CLIPS, BTI BRACKETS OR ANGLE CLIPS WHERE SHOWN AT MULLION ENDS. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS (BTI BRACKETS NOT APPLICABLE AT SILL).

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
108	52	59.8	59.8
	48	64.8	64.8
	44	70.0	70.0
	40	70.0	70.0
	36	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
84	44	70.0	85.0
	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"

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No. 14-0303-06  
 Expiration Date 5/27/19  
 By *[Signature]*  
 Miami Date Product Control

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.		
PLOT: 1-24	DATE: 10/08/08		
DATE	BY	REVISION DESCRIPTION	NO.
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. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
DRAWING TITLE <b>IN-SWING IMPACT WOOD DOORS</b>			
CERTIFICATION <b>FEB 20 2014</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44133			
DRAWING NO. 1601	REV. B	SHEET NO. 7 OF 19	



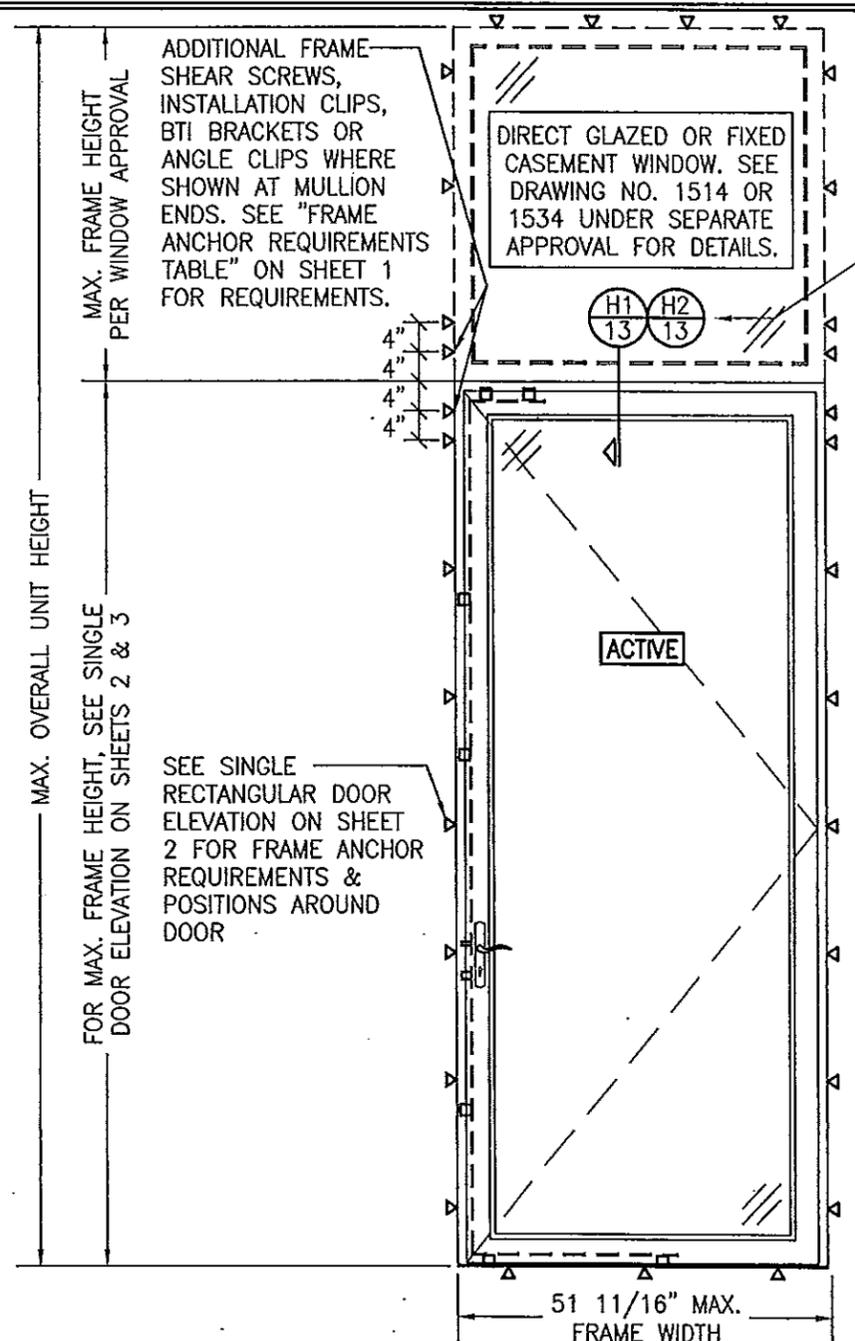
INTERIOR ELEVATION: DOUBLE DOORS WITH  
**TRANSOM**

SCALE: 1/2" = 1'-0"  
(SEE DOUBLE RECTANGULAR DOOR ELEVATIONS ON SHEETS 2 & 3 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)
79 1/16	168	70	70
79 1/16	138	70	(1) 85

(1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTIONS 2 & 5 ARE USED.  
(2) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOORS SHALL CONTROL.



INTERIOR ELEVATION: SINGLE DOOR WITH  
**TRANSOM**

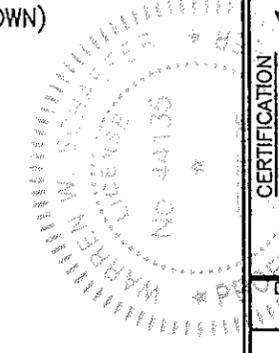
SCALE: 1/2" = 1'-0"  
(SEE SINGLE RECTANGULAR DOOR ELEVATIONS ON SHEETS 2 & 3 FOR DOOR DETAIL NOT SHOWN)

**ALLOWABLE DESIGN PRESSURE  
(SINGLE DOOR TRANSOM UNIT)**

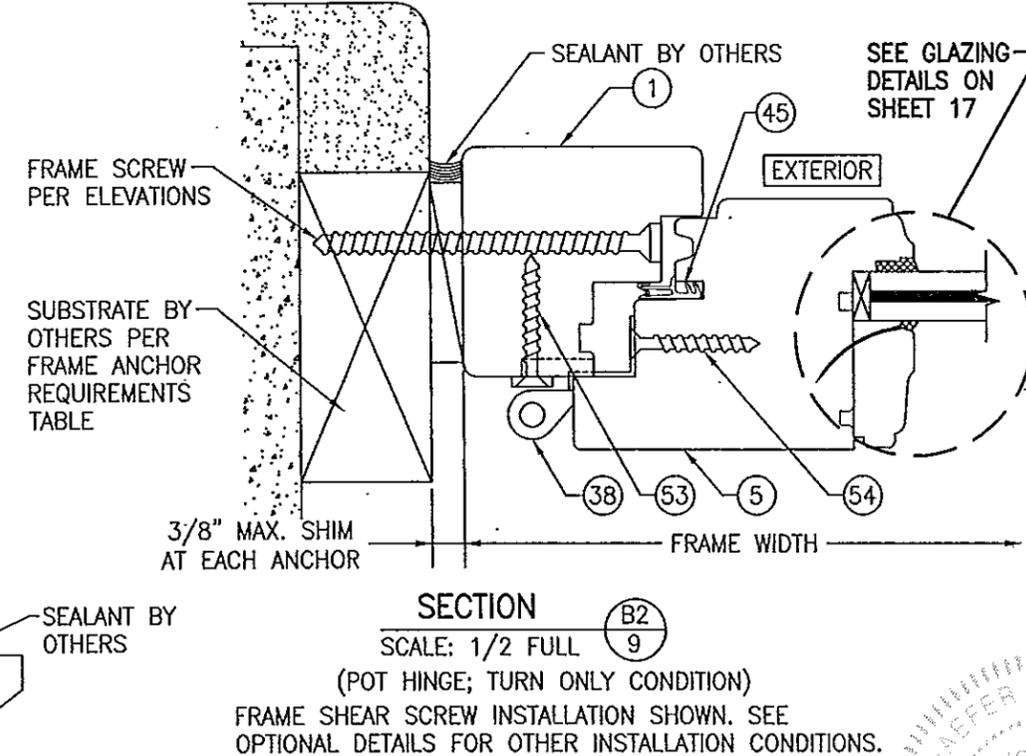
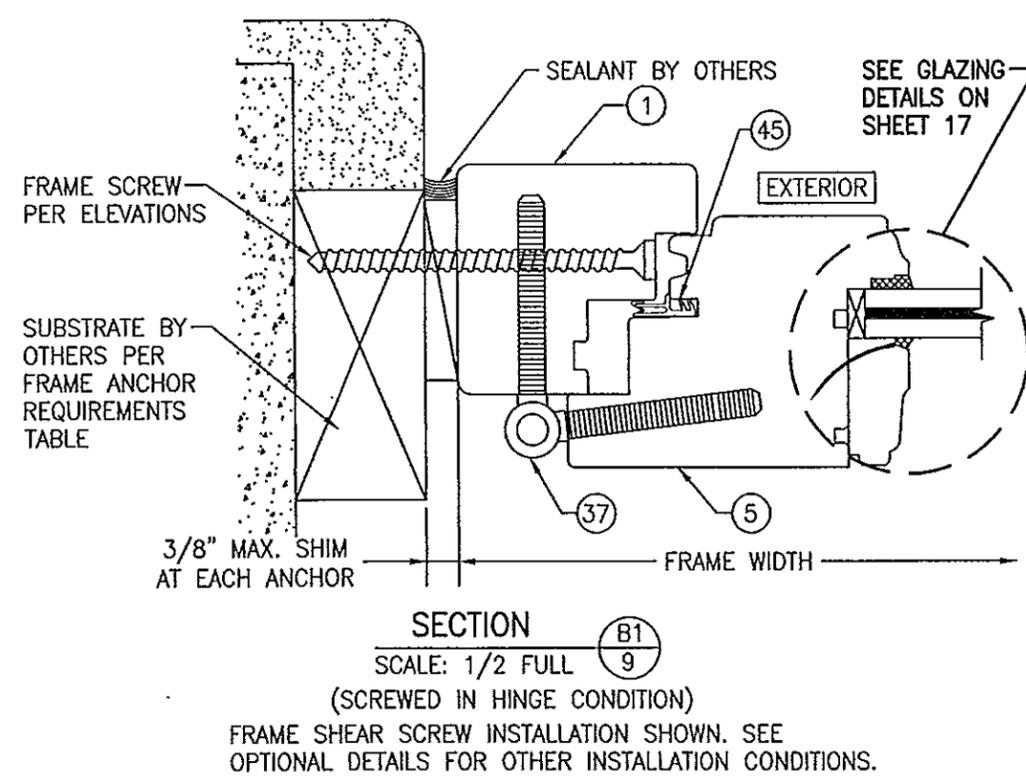
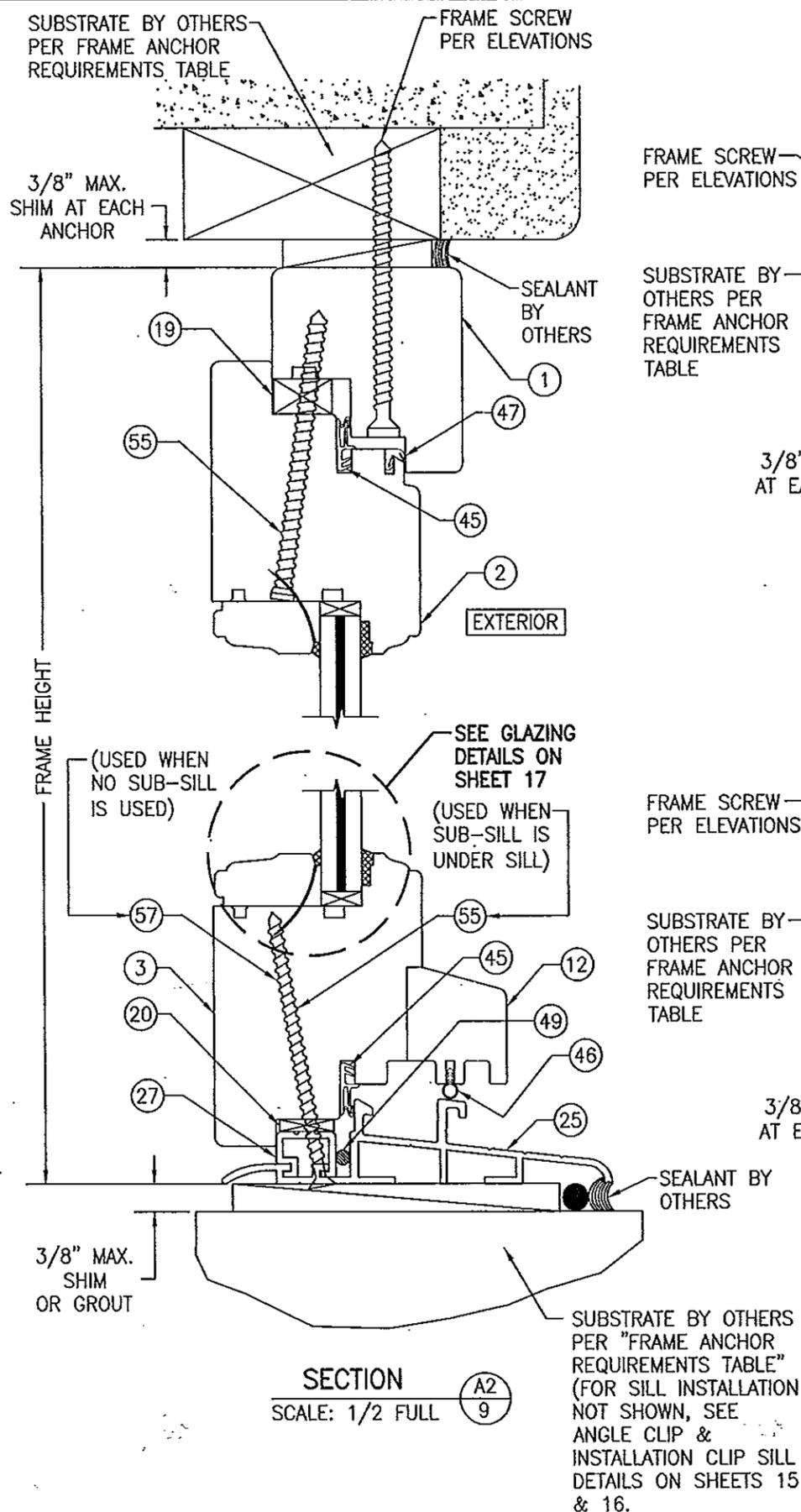
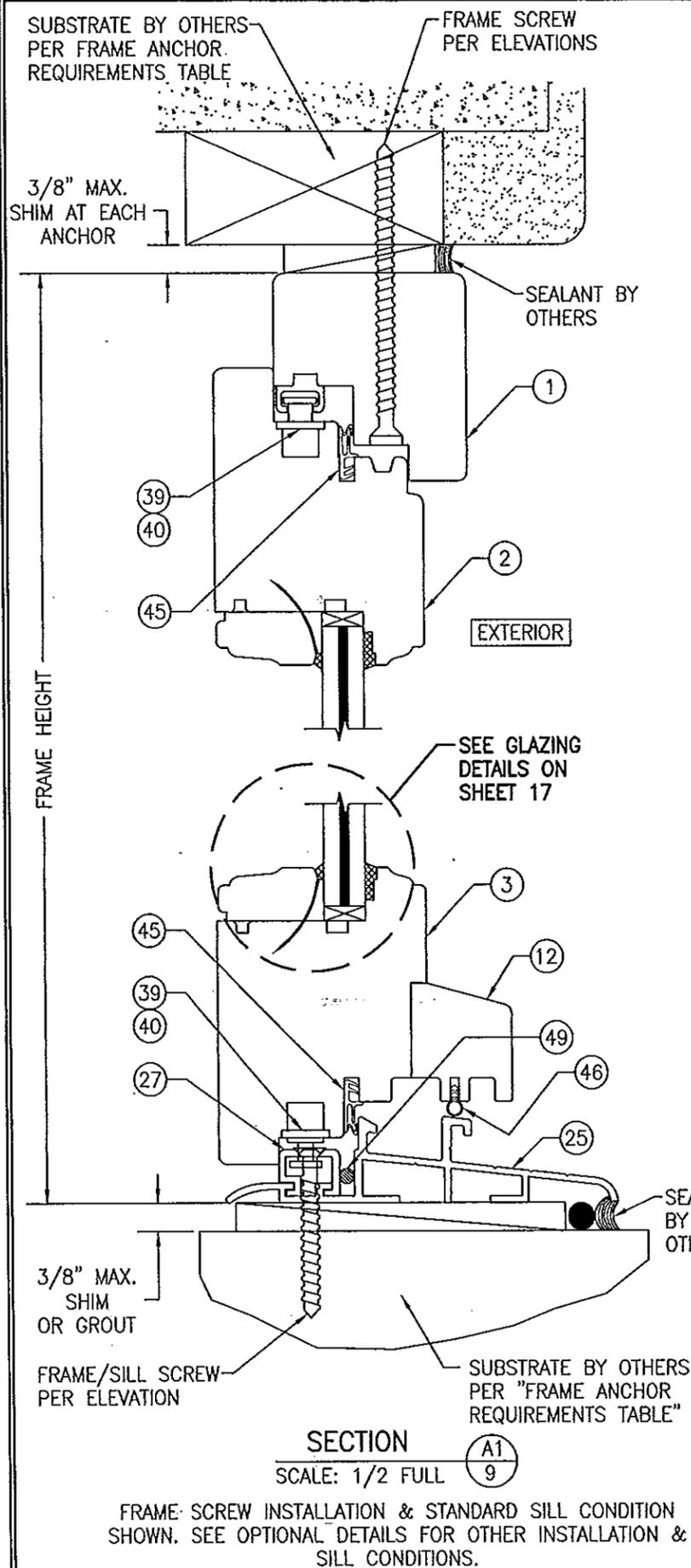
MAX. FRAME WIDTH (IN.)	MAX. OVERALL UNIT HEIGHT (IN.)	(2) ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
51 11/16	168	70	70
41 1/4	168	70	(1) 85

(1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTIONS 2 & 5 ARE USED.  
(2) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOORS SHALL CONTROL.

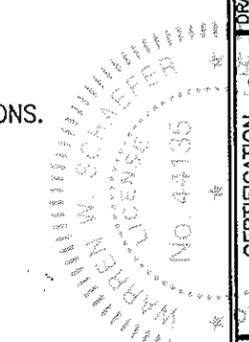
**PRODUCT REVISED**  
As complying with the Florida Building Code  
Acceptance No. 14-0303-06  
Expiration Date 5/22/19  
By [Signature]  
Miami Trade Product Control



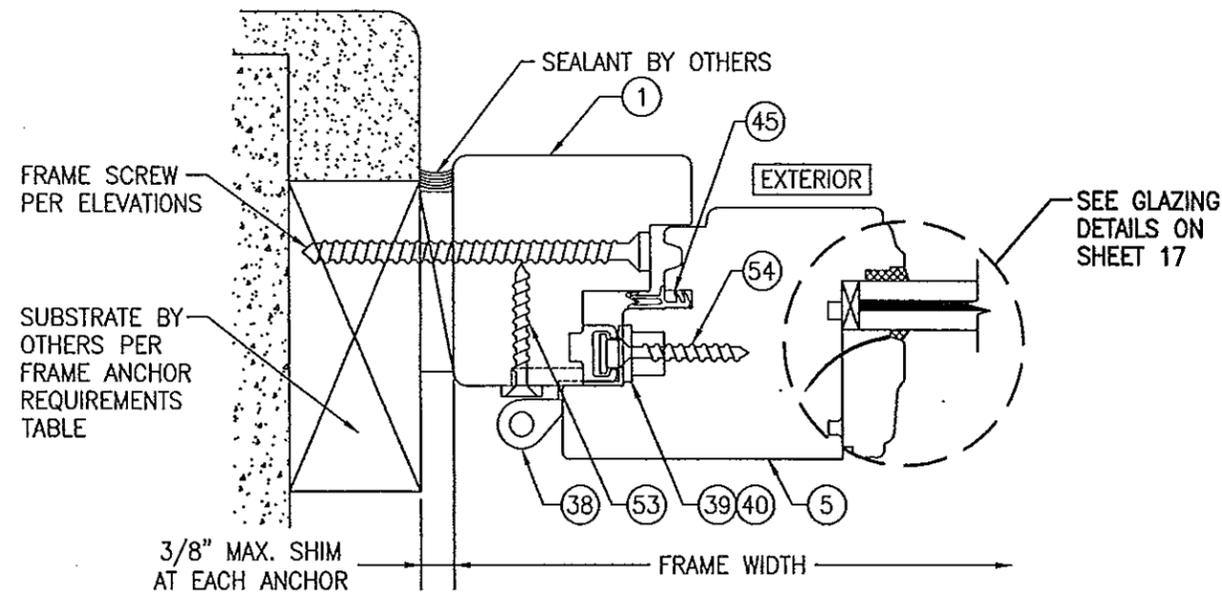
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 10/08/08
NO.	REVISION DESCRIPTION
BY	DATE
DRAWING TITLE: <b>IN-SWING IMPACT WOOD DOORS</b>	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b>	MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b>
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600
CERTIFICATION	<b>FEB 20 2014</b>
DRAWING NO. <b>1601</b>	REV. <b>B</b>
SHEET NO. <b>8 OF 19</b>	



**PRODUCT REVISED**  
as complying with the Florida  
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Acceptance No. 14-0303-06  
Expiration Date 5/27/19  
By *[Signature]*  
Must Date Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 10/08/08	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: IN-SWING IMPACT WOOD DOORS			
MANUFACTURER: TISCHLER UND SOHN (USA) LTD.			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)			
7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION: FEB 20 2014		P.E. NO. 44135	
DRAWING NO.	REV.	SHEET NO.	
1601	B	9 OF 19	

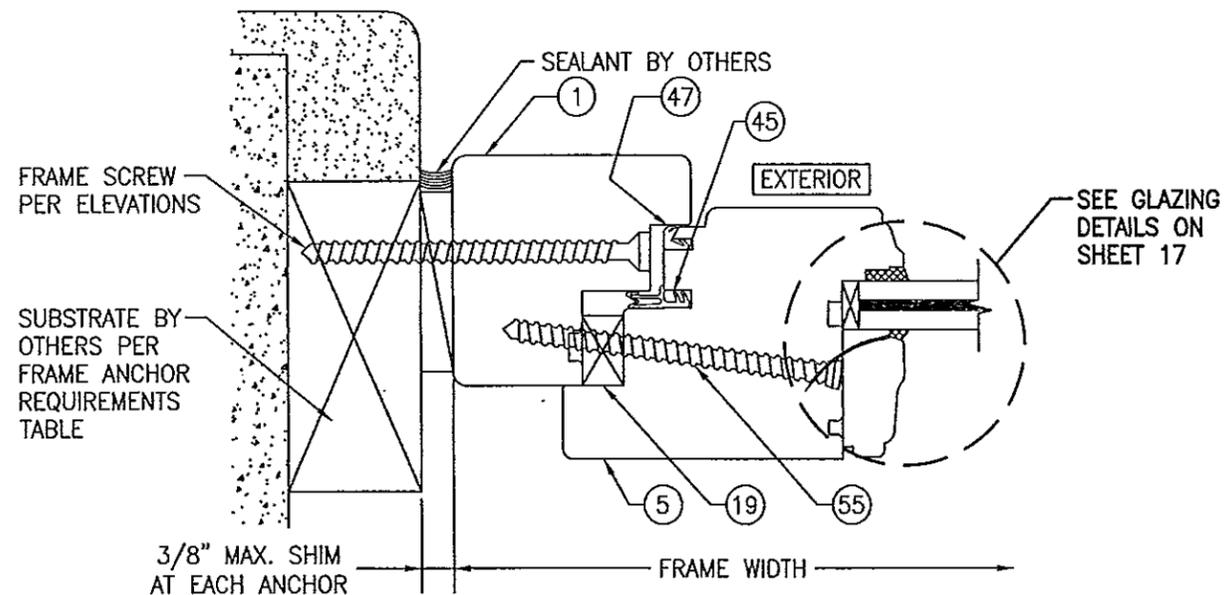


SECTION **B3**

SCALE: 1/2 FULL **10**

(POT HINGE; TILT CONDITION)

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

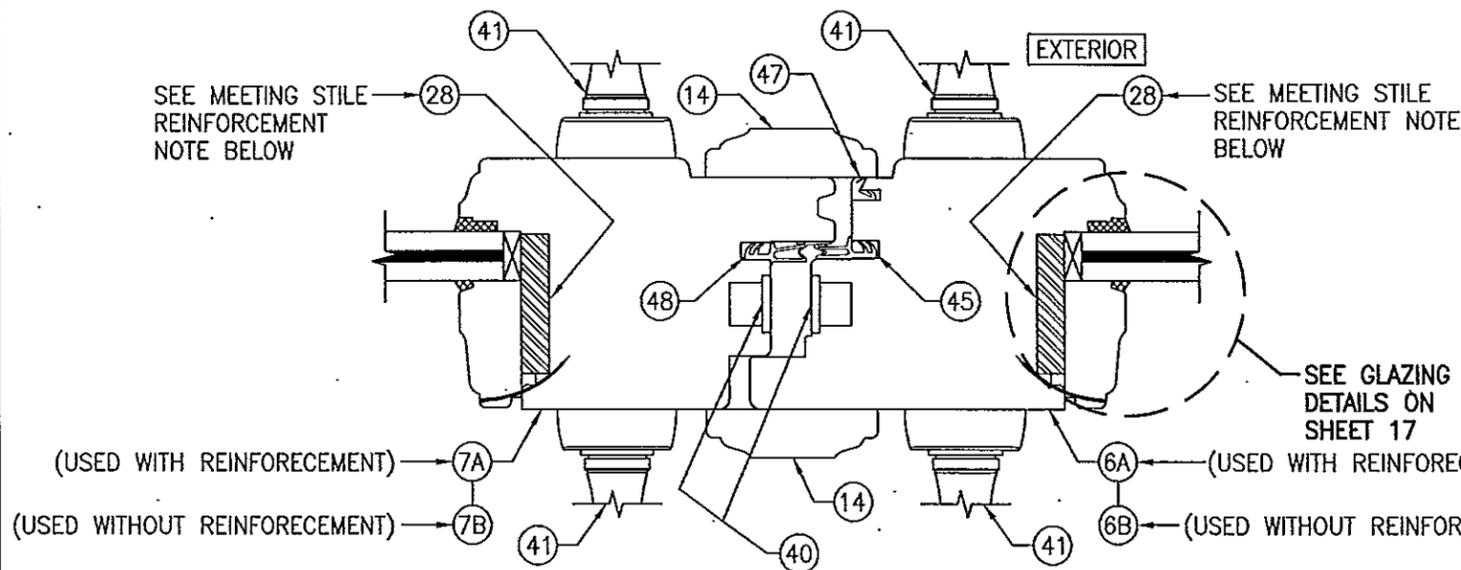


SECTION **B4**

SCALE: 1/2 FULL **10**

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

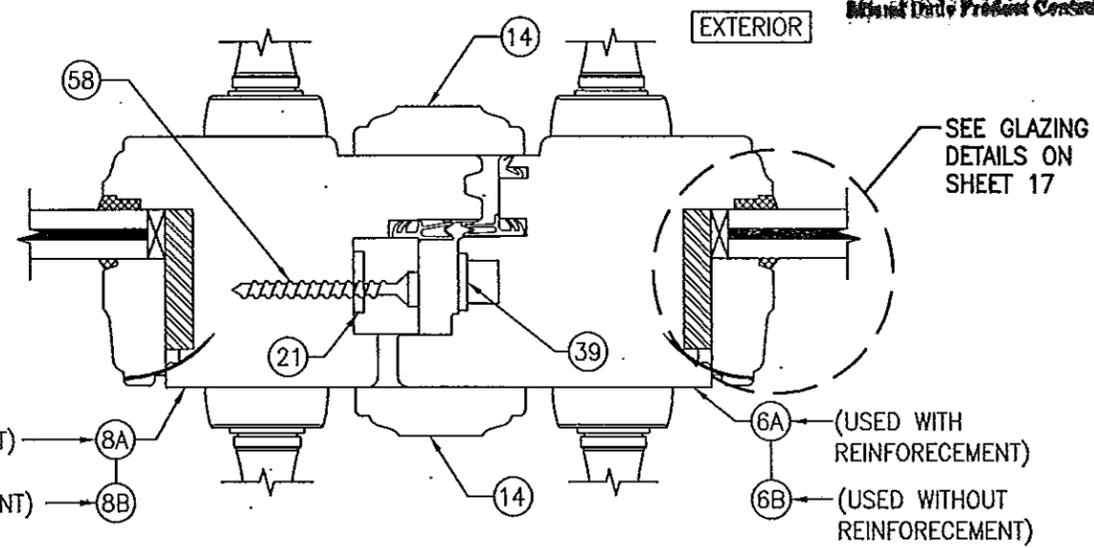
**PRODUCT REVISED**  
 to comply with the Florida Building Code  
 Acceptance No. 14-1222-00  
 Expiration Date 5/27/19  
 By [Signature]  
 Impact Door Product Control



SECTION **C1**

SCALE: 1/2 FULL **10**

MEETING STILE CONDITION WITH SIEGENIA MULTI-POINT LOCK SYSTEM



SECTION **C2**

SCALE: 1/2 FULL **10**

MEETING STILE CONDITION WITH KVF MULTI-POINT LOCK SYSTEM  
 (FOR DETAIL NOT SHOWN, SEE SECTION C1/10)

**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.

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

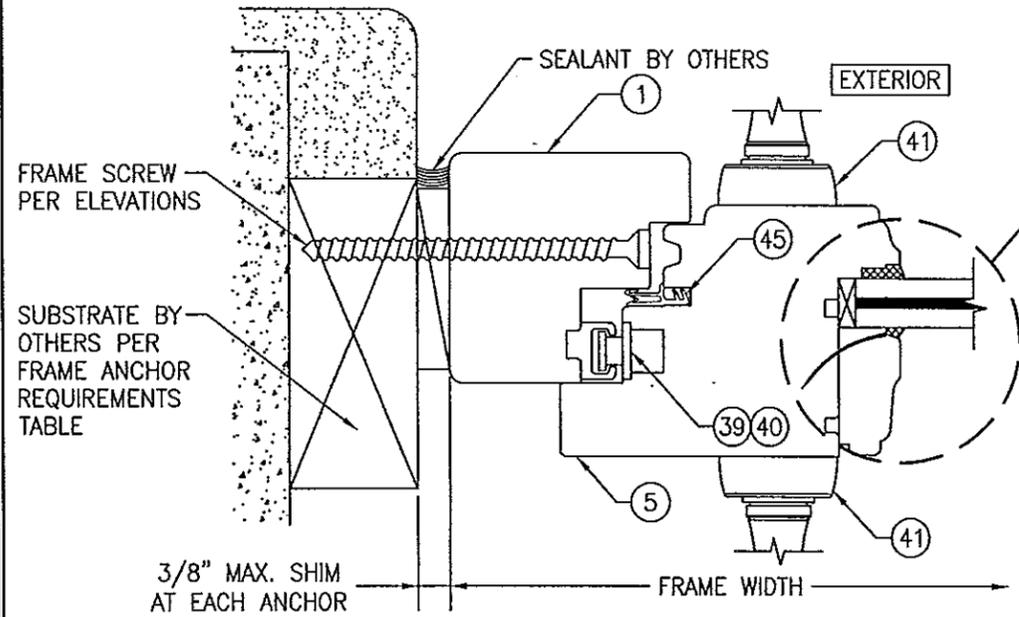
DRAWING TITLE: **IN-SWING IMPACT WOOD DOORS**

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

CONSULTANTS: **W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)**  
 7480 150TH COURT NORTH  
 PALM BEACH GARDENS, FL 33418  
 PHONE: 561-744-3424

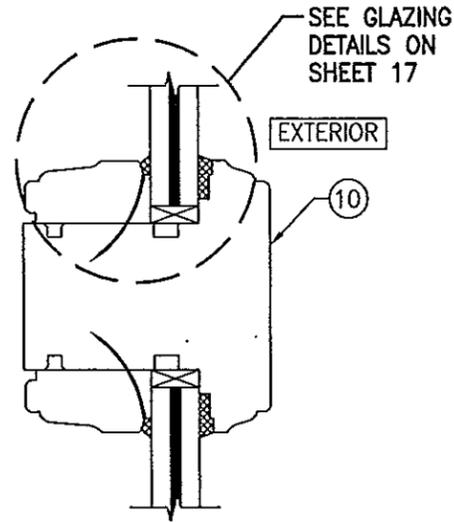
CERTIFICATION: **WARREN W. SCHAEFER**  
 No. 44135  
**FEB 20 2014**  
 WARREN W. SCHAEFER, P.E.  
 P.E. NO. 44135

DRAWING NO. **1601** REV. **B**  
 SHEET NO. **10** OF **19**

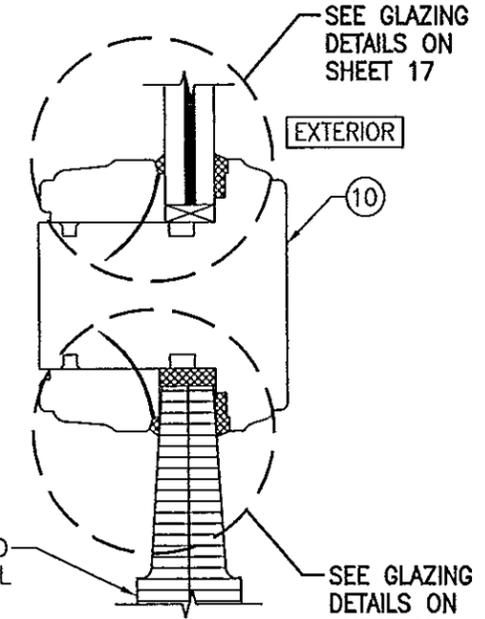


SECTION **D**  
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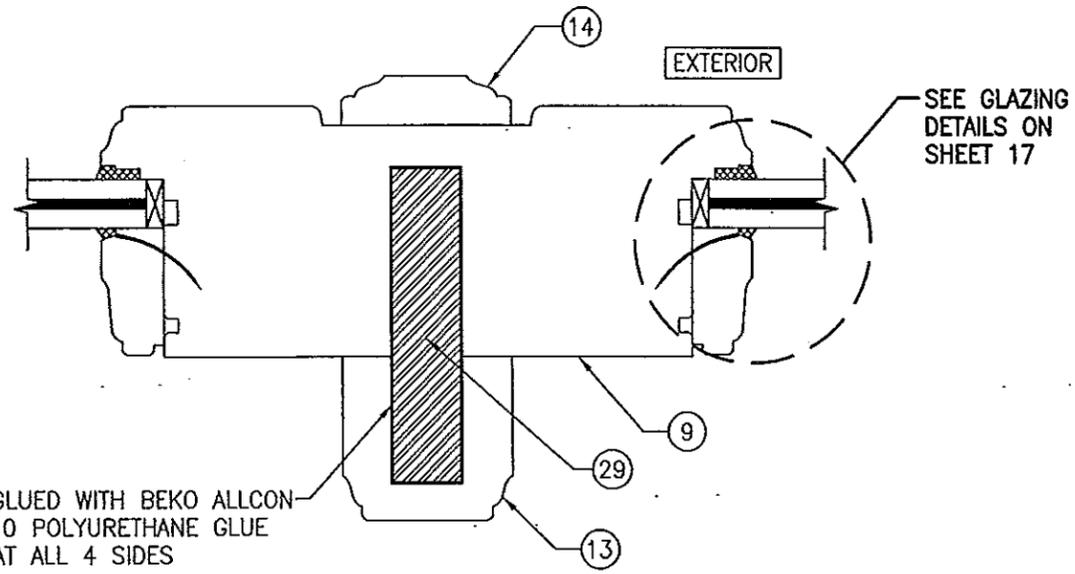
FRAME SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.



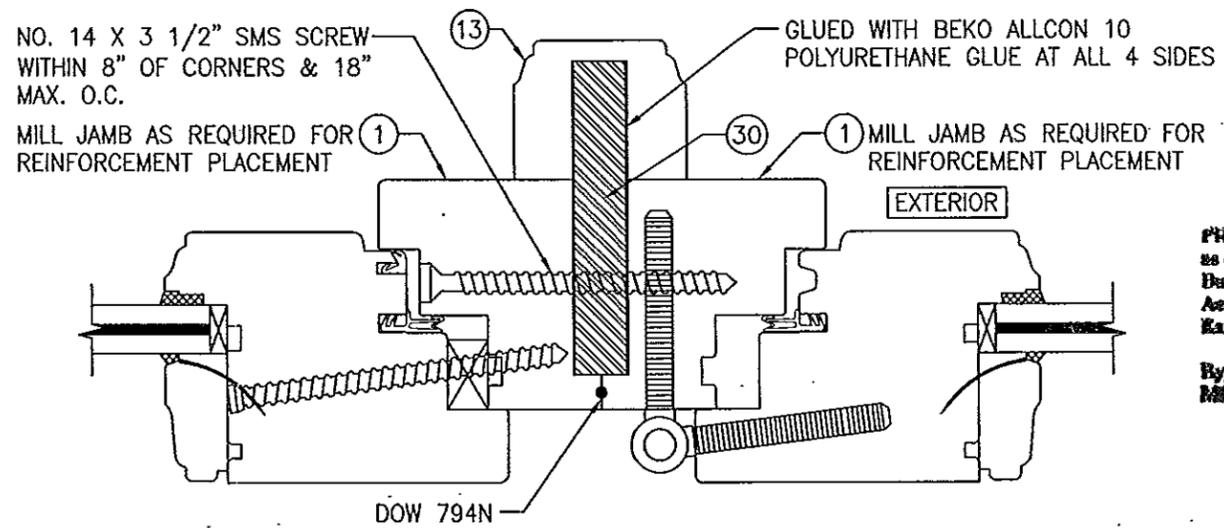
SECTION **E1**  
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SECTION **E2**  
SCALE: 1/2 FULL **11**



SECTION **F**  
SCALE: 1/2 FULL **11**



SECTION **G1**  
SCALE: 1/2 FULL **11**

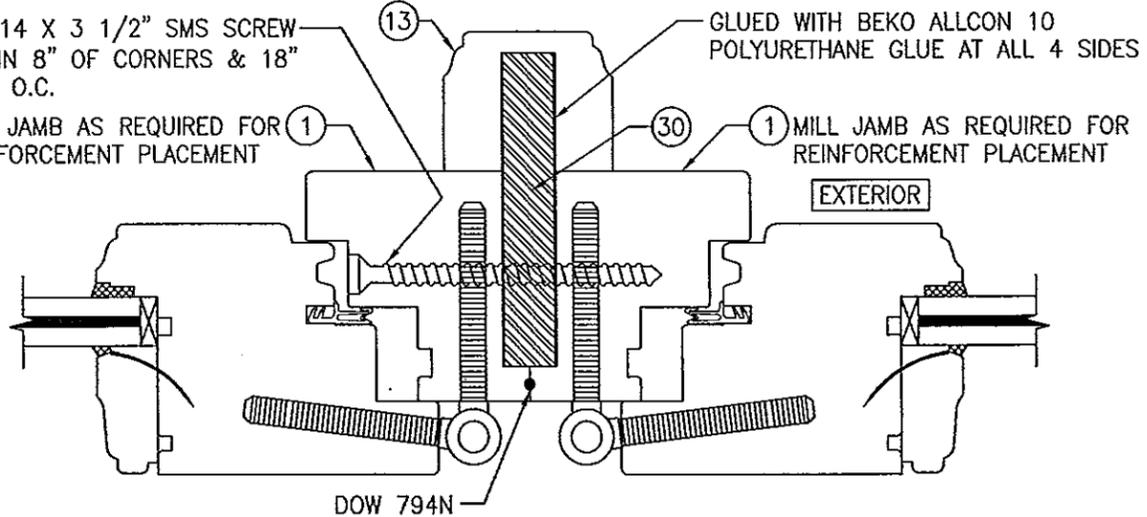
SCREWED IN HINGE CONDITION SHOWN, POT HINGE CONDITION ALSO APPLIES (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 14-0303-06  
Expiration Date 5/20/19  
By *[Signature]*  
Material Data Product Control



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>IN-SWING IMPACT WOOD DOORS</b>	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b> SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600
CERTIFICATION <b>FEB 20 2014</b>	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. <b>1601</b>	REV. <b>B</b>
SHEET NO. <b>11 OF 19</b>	

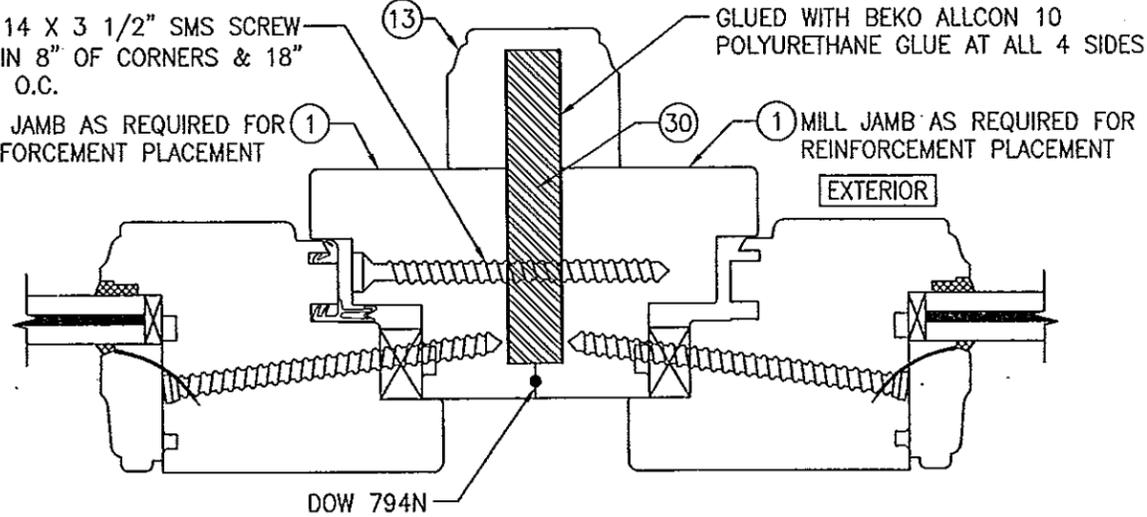
NO. 14 X 3 1/2" SMS SCREW WITHIN 8" OF CORNERS & 18" MAX. O.C.  
 MILL JAMB AS REQUIRED FOR REINFORCEMENT PLACEMENT



SECTION G2  
 SCALE: 1/2 FULL 12

SCREWED IN HINGE CONDITION SHOWN, POT HINGE CONDITION ALSO APPLIES  
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

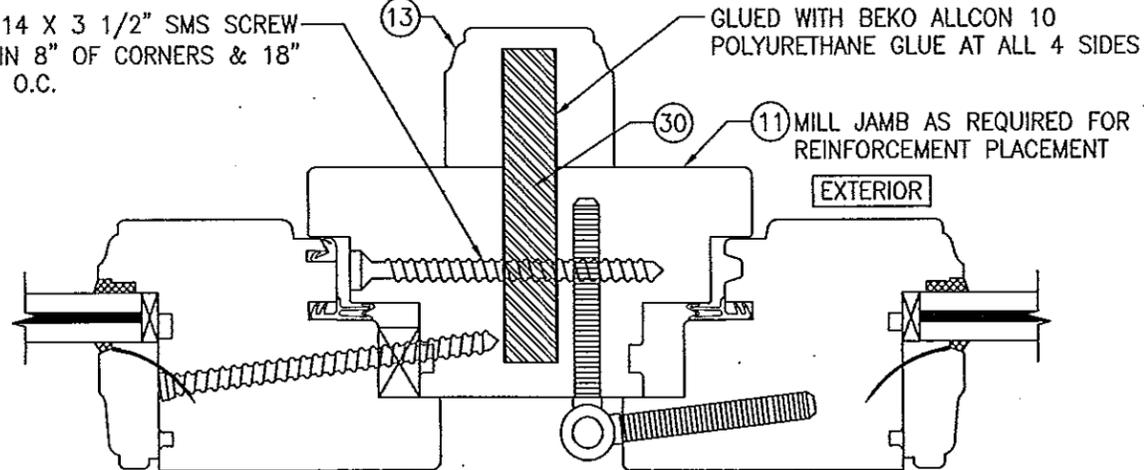
NO. 14 X 3 1/2" SMS SCREW WITHIN 8" OF CORNERS & 18" MAX. O.C.  
 MILL JAMB AS REQUIRED FOR REINFORCEMENT PLACEMENT



SECTION G3  
 SCALE: 1/2 FULL 12

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

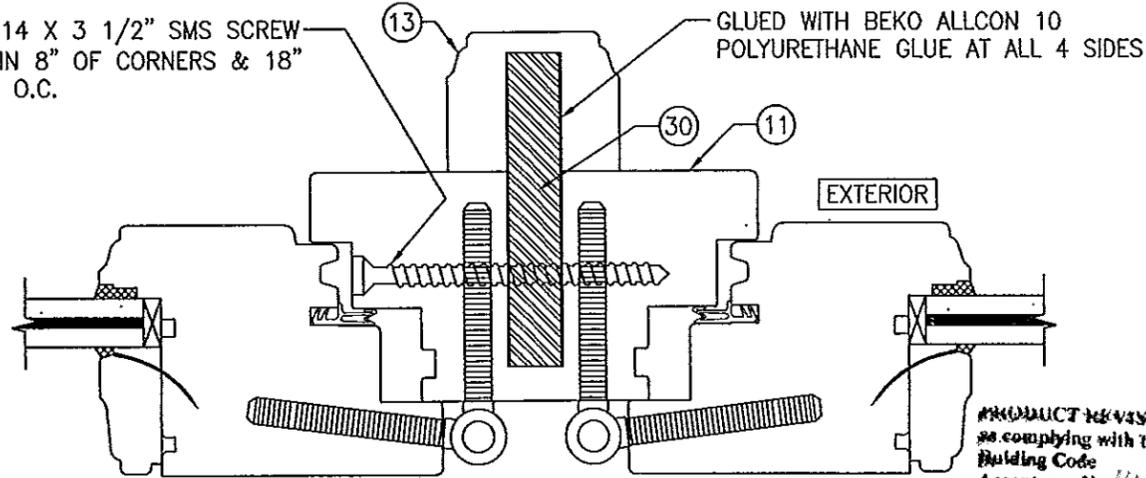
NO. 14 X 3 1/2" SMS SCREW WITHIN 8" OF CORNERS & 18" MAX. O.C.  
 MILL JAMB AS REQUIRED FOR REINFORCEMENT PLACEMENT



SECTION G4  
 SCALE: 1/2 FULL 12

SCREWED IN HINGE CONDITION SHOWN, POT HINGE CONDITION ALSO APPLIES  
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

NO. 14 X 3 1/2" SMS SCREW WITHIN 8" OF CORNERS & 18" MAX. O.C.  
 MILL JAMB AS REQUIRED FOR REINFORCEMENT PLACEMENT



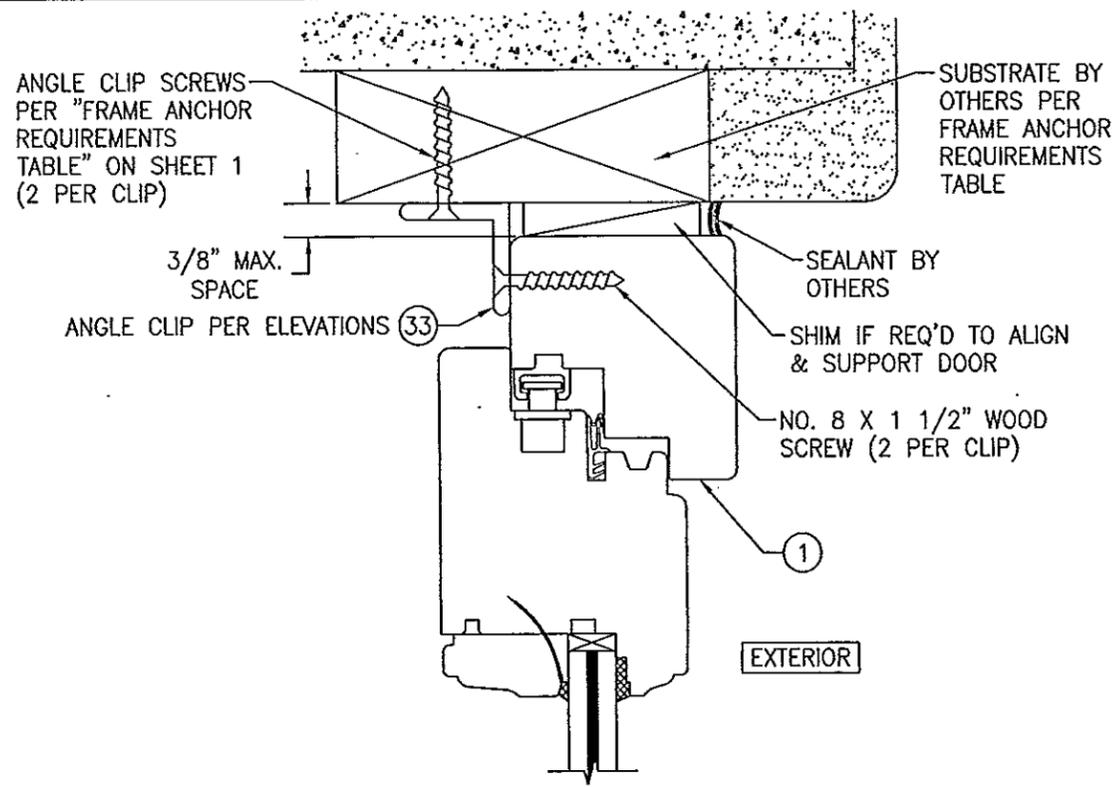
SECTION G5  
 SCALE: 1/2 FULL 12

SCREWED IN HINGE CONDITION SHOWN, POT HINGE CONDITION ALSO APPLIES  
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

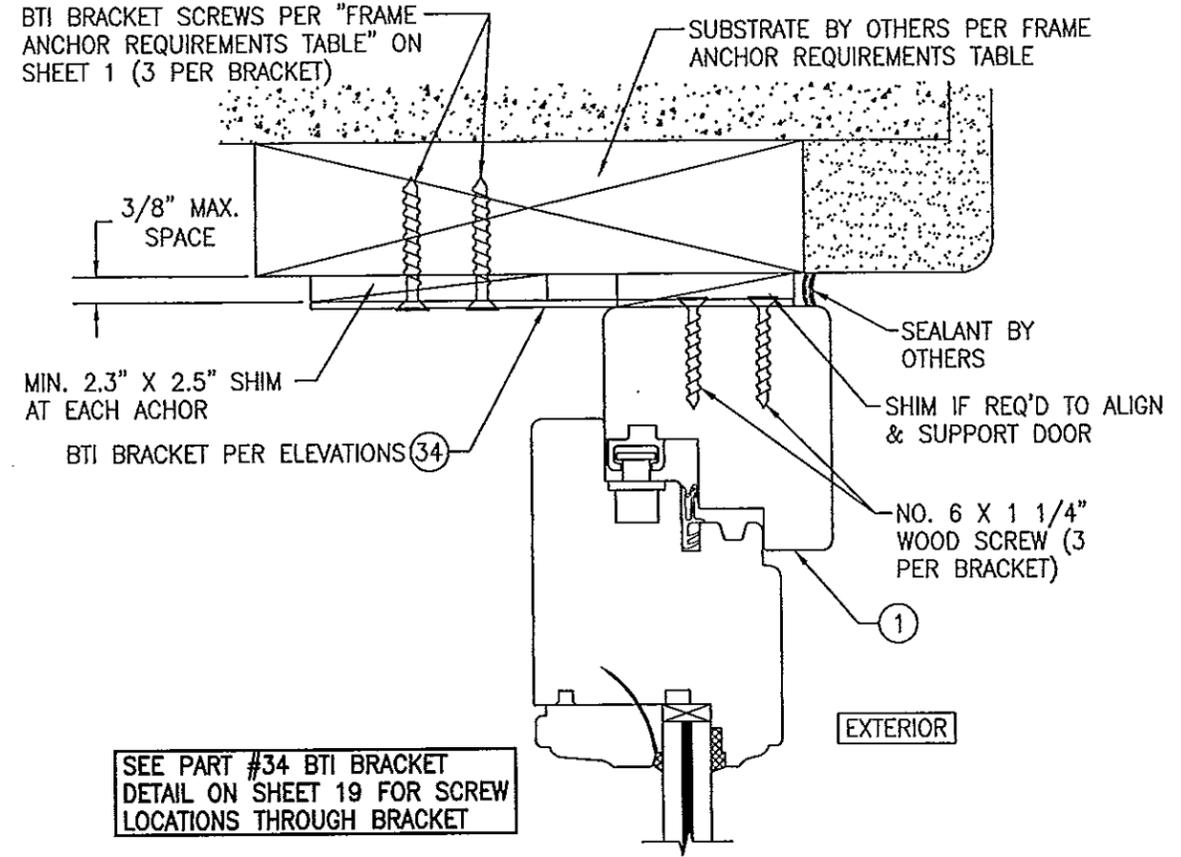
PRODUCT 164V4500  
 as complying with the Florida  
 Building Code  
 Acceptance No. 140303-06  
 Expiration Date 5/27/19  
 By *[Signature]*  
 Insulated Walls Product Division

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 10/08/08	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE IN-SWING IMPACT WOOD DOORS			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CERTIFICATION WARREN W. SCHAEFER No. 44135 FEB 20 2014 PROFESSIONAL ENGINEER		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1601		REV. B	
SHEET NO. 12 OF 19			



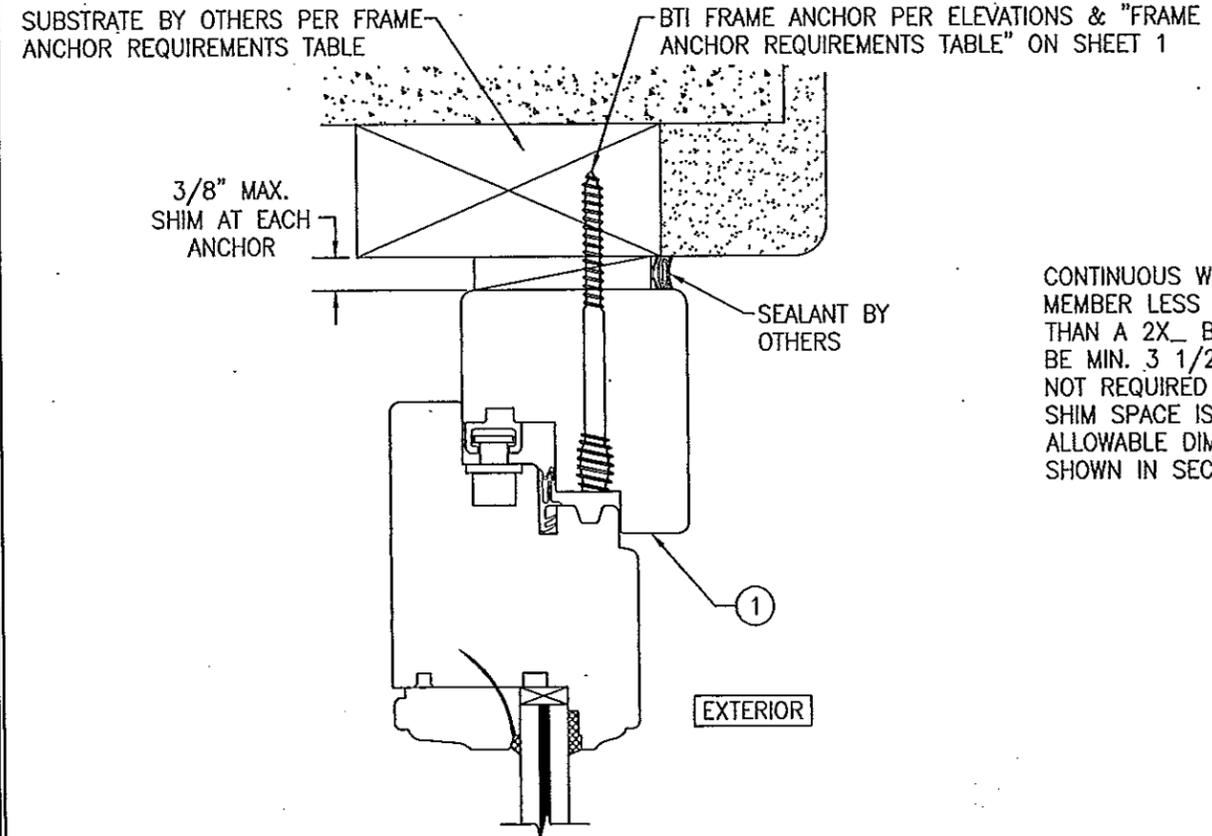


**OPTIONAL INSTALLATION ANGLE CLIP DETAIL**  
 (HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)  
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

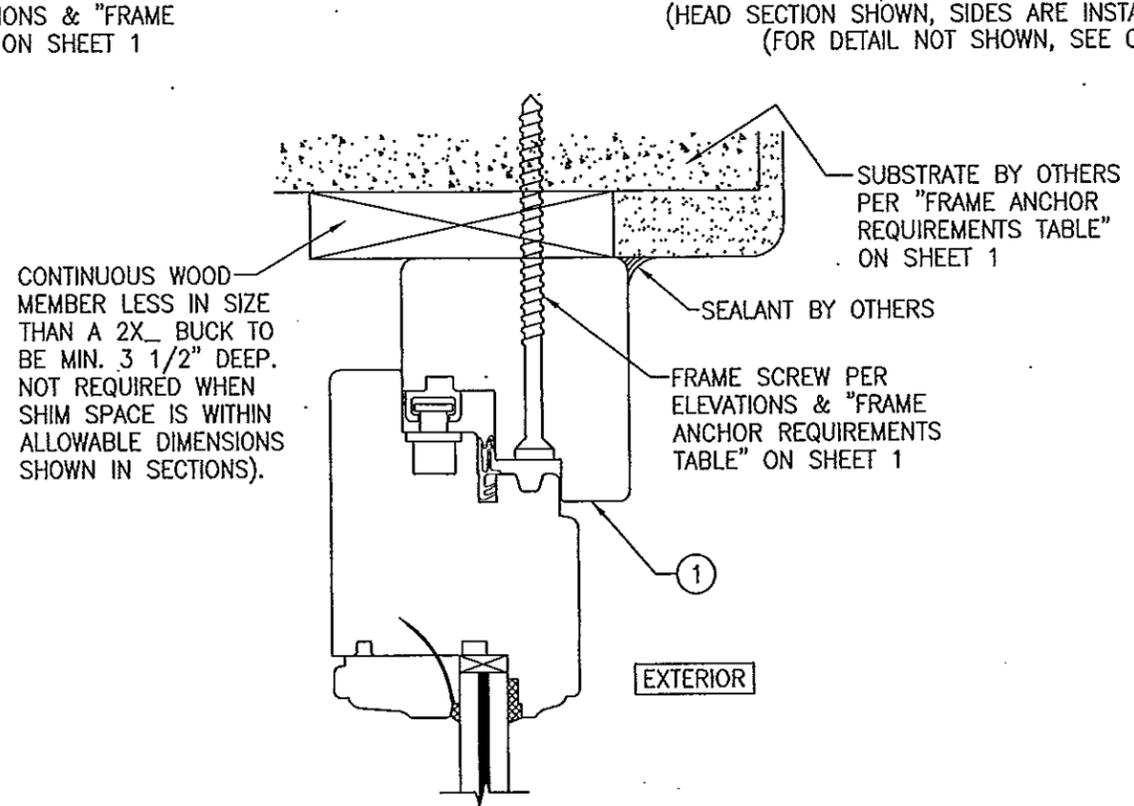


SEE PART #34 BTI BRACKET  
 DETAIL ON SHEET 19 FOR SCREW  
 LOCATIONS THROUGH BRACKET

**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)

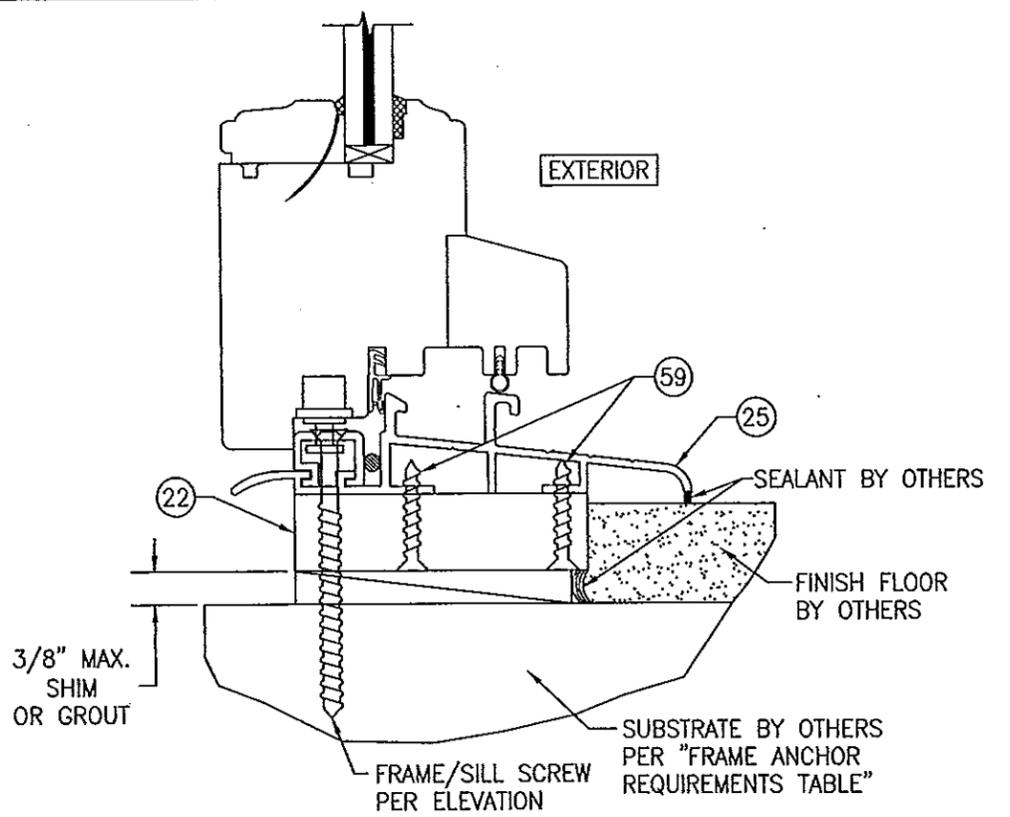


**OPTIONAL DIRECT MOUNT DETAIL  
 TO SUBSTRATE WITH SPACER**  
 (HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)  
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

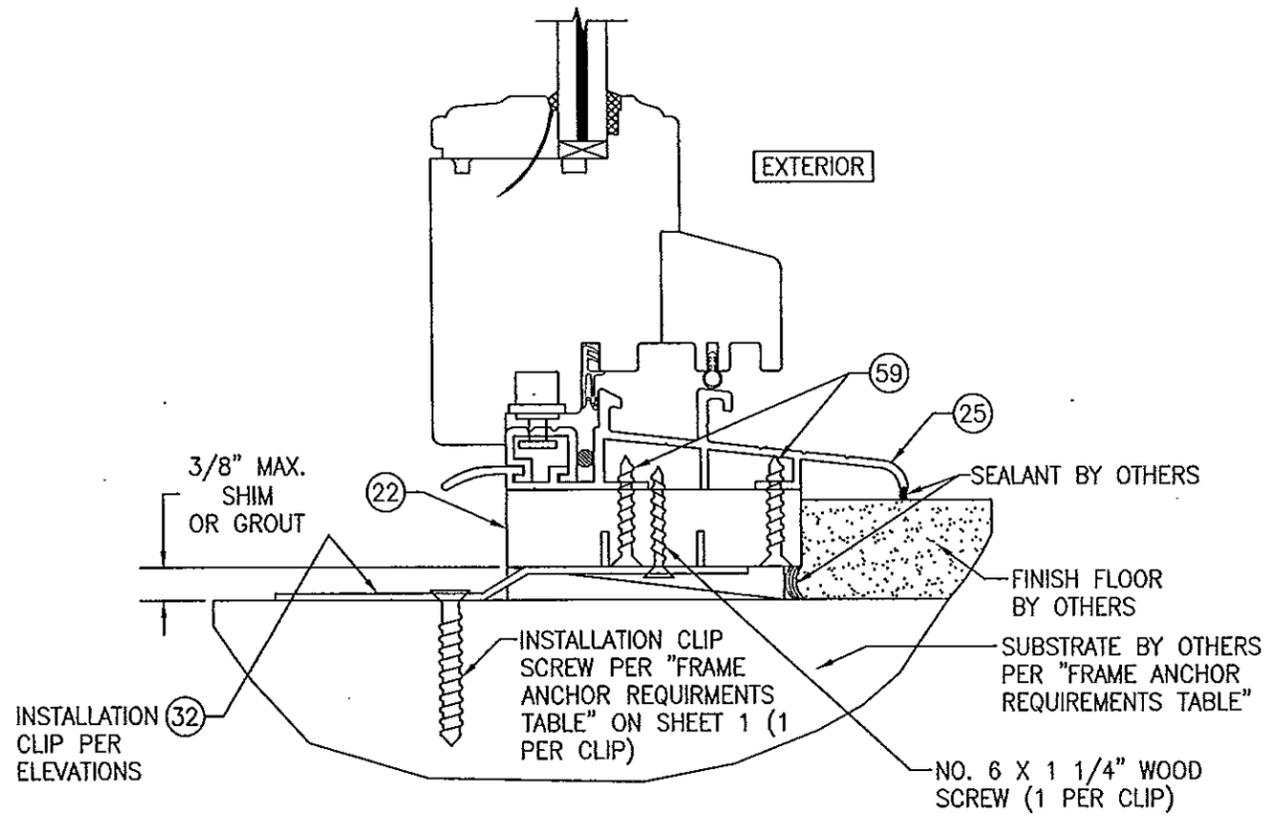
**PRODUCT REVISED**  
 to comply with the Florida  
 Building Code  
 Acceptance No. 14-0303-00  
 Expiration Date 07/27/19  
 By: [Signature]  
 Miami Door Product Control

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>IN-SWING IMPACT WOOD DOORS</b>	
MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b>	CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b>
SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424
DRAWING NO. <b>1601</b>	REV. <b>B</b>
SHEET NO. <b>14 OF 19</b>	

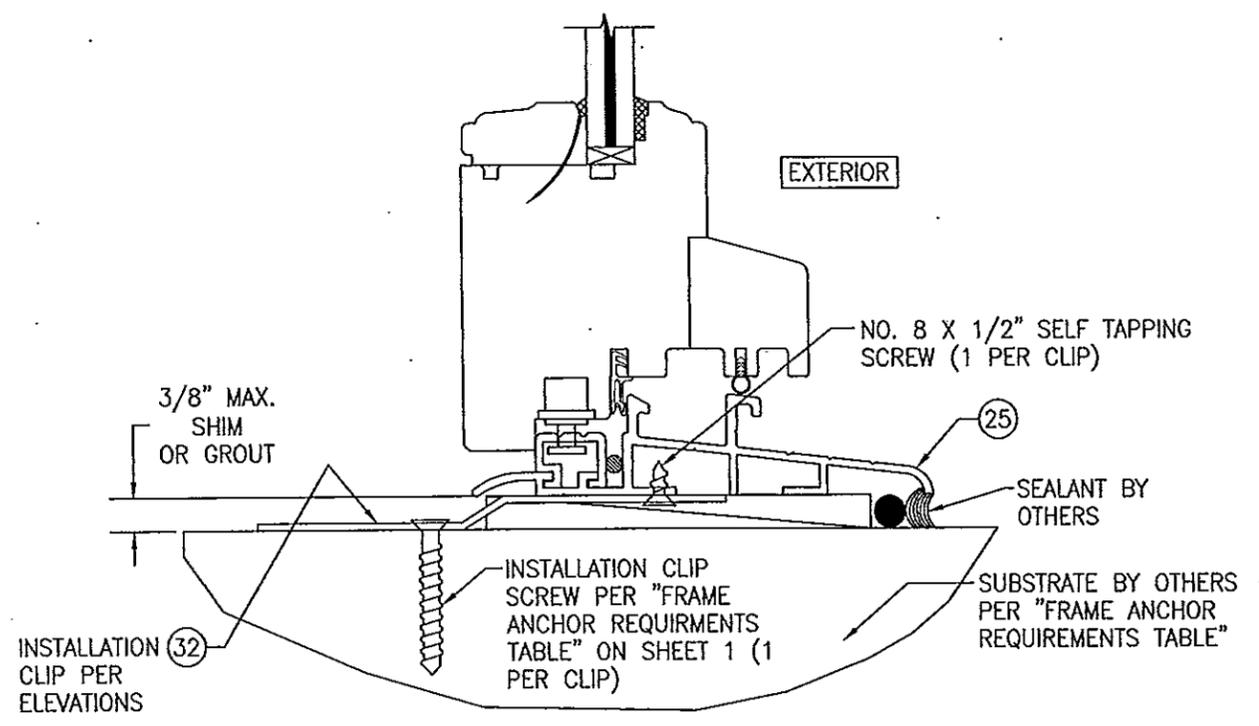
DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLOT:	1-2	DATE:	10/08/08
NO.		DATE	
BY			
REVISION DESCRIPTION			



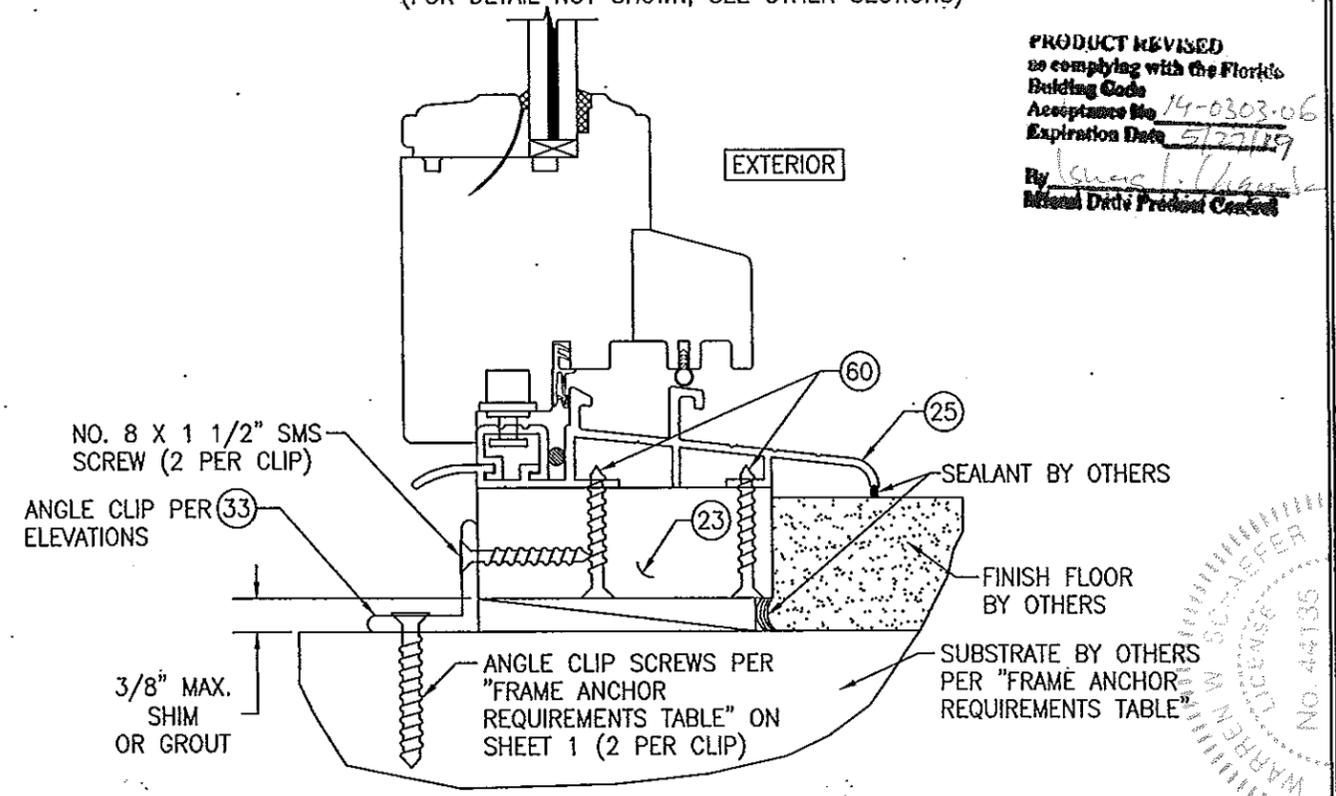
**SILL DETAIL (STANDARD SILL INSTALLED WITH FRAME/SILL SCREW & SUB-SILL)**  
 (OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)  
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



**SILL DETAIL (STANDARD SILL INSTALLED WITH INSTALLATION CLIP & SUB-SILL)**  
 (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 & NO SUB-SILL)**  
 (OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS 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)

**PRODUCT REVISED**  
 to comply with the Florida  
 Building Code  
 Acceptance No. 14-0303-06  
 Expiration Date 5/27/19  
 By [Signature]  
 National Data Product Control

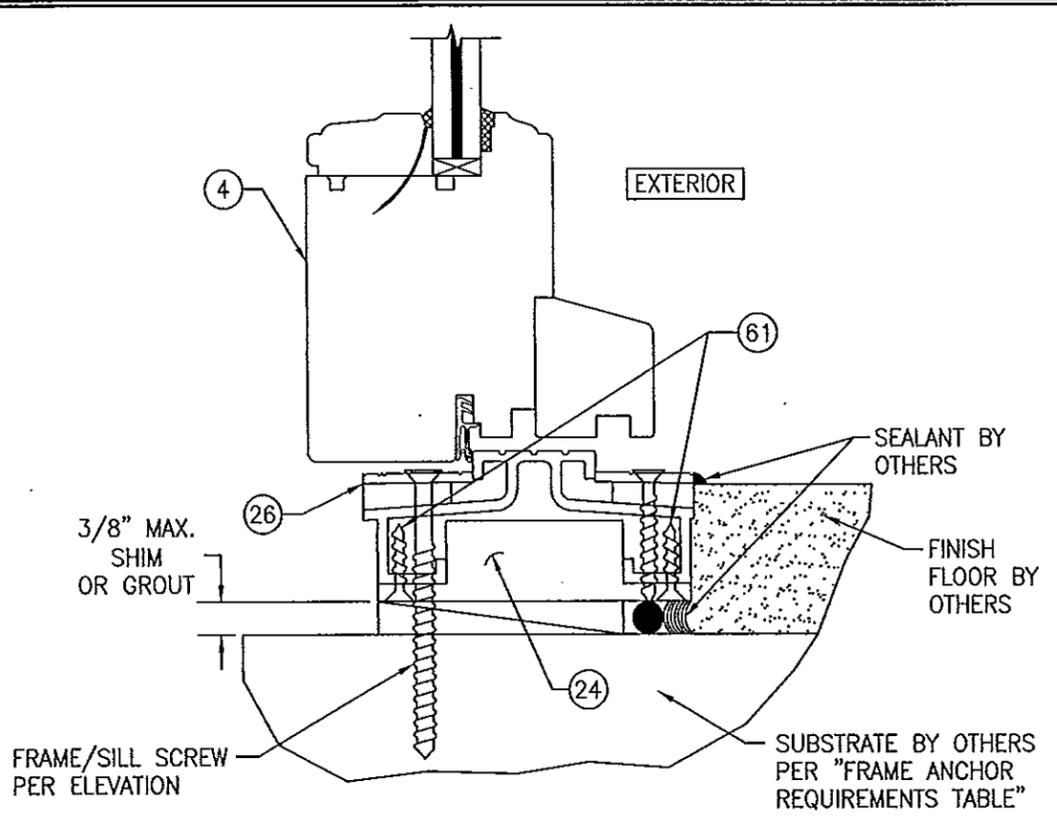
DRAWING TITLE  
**IN-SWING IMPACT WOOD DOORS**

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

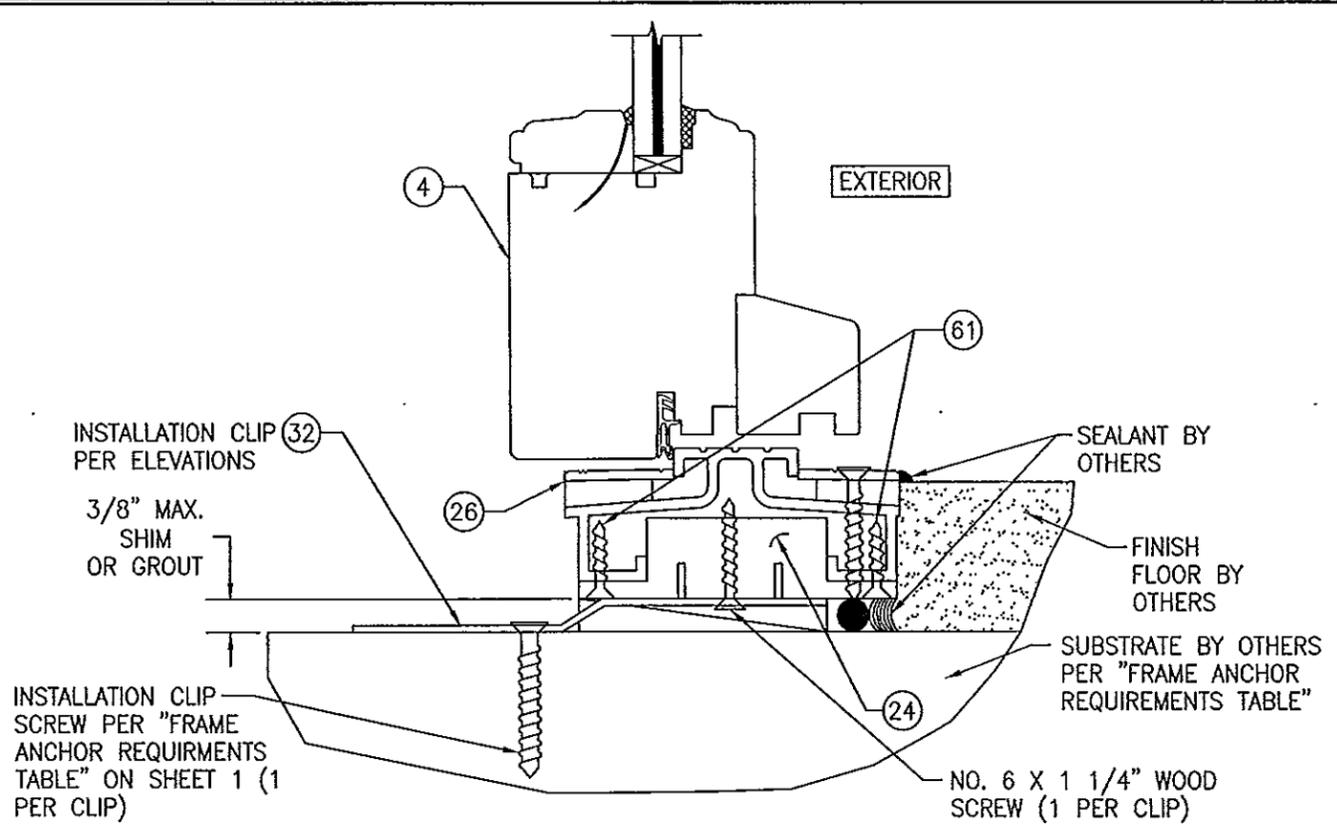
CONSULTANTS  
**W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)**  
 7480 150TH COURT NORTH  
 PALM BEACH GARDENS, FL 33418  
 PHONE: 561-744-3424

CERTIFICATION  
**FEB 20 2014**  
 WARREN W. SCHAEFER  
 P.E. NO. 44135

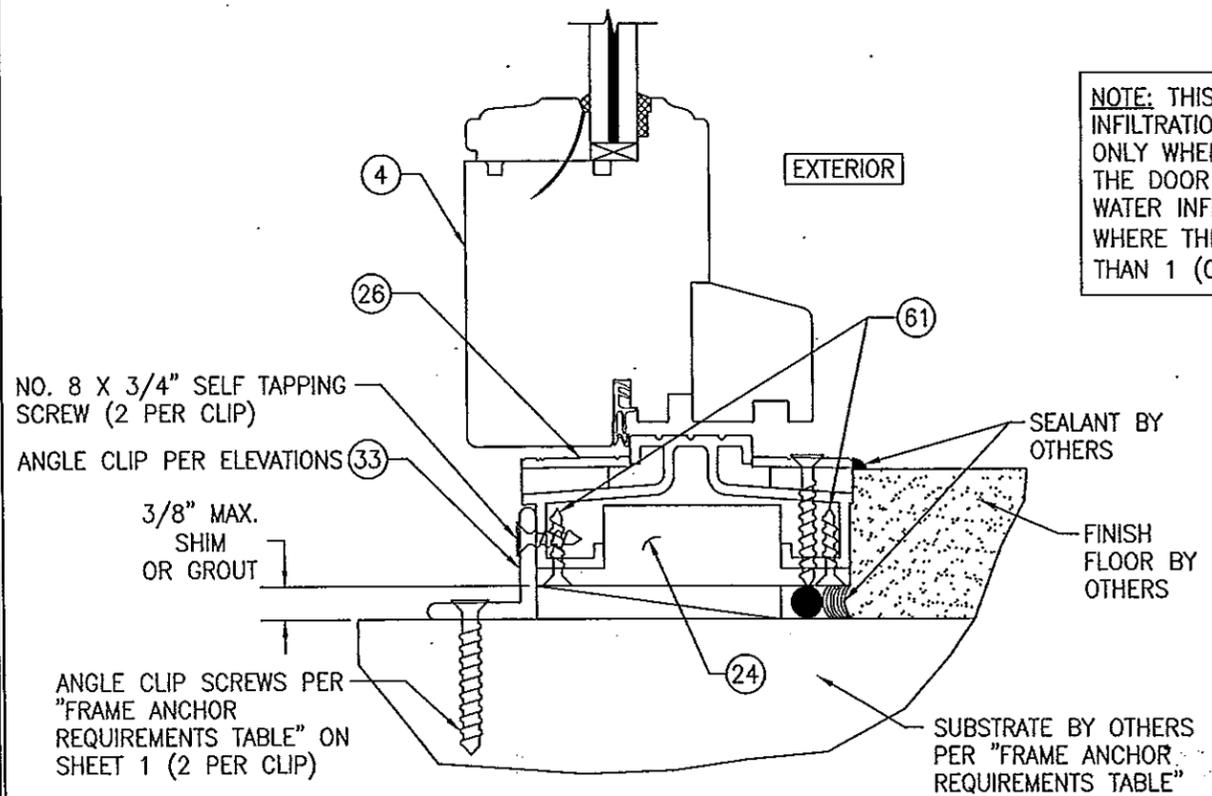
DRAWING NO.	REV.
1601	B
SHEET NO.	
15 OF 19	



**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)

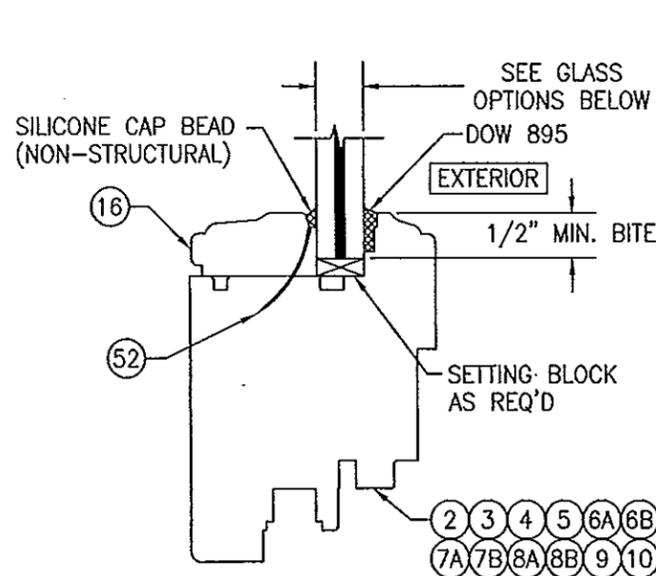


**ADA SILL DETAIL (ADA SILL INSTALLED WITH ANGLE CLIP)**  
 (OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)  
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

**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).

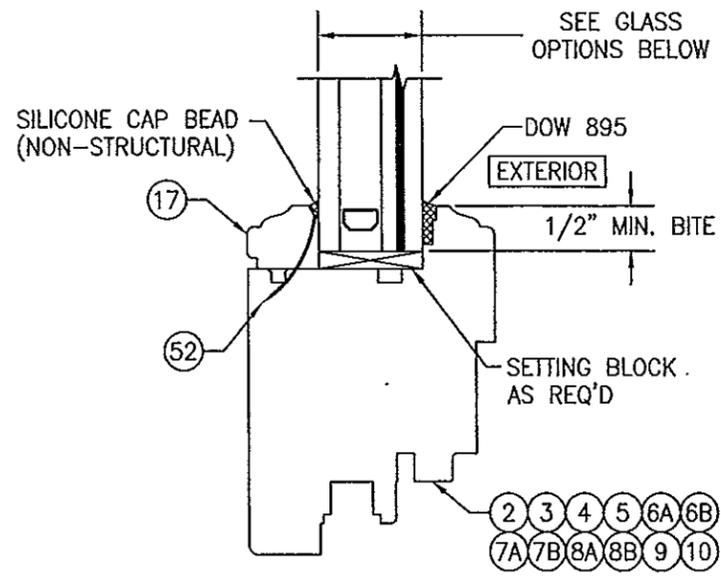
**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No. 14-0303-06  
 Expiration Date 5/27/11

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08
NO.	REVISION DESCRIPTION
DRAWING TITLE <b>IN-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. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION NO. 44135 <b>FEB 20 2014</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. <b>1601</b>	REV. <b>B</b>
SHEET NO. <b>16 OF 19</b>	



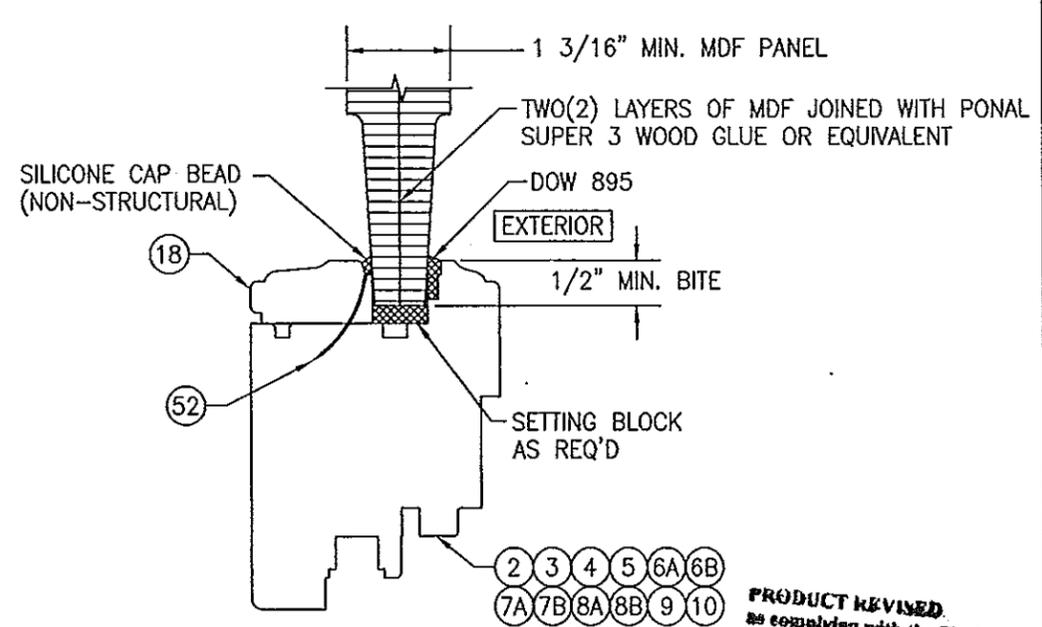
**NON-I.G. GLAZING DETAIL**  
GLASS OPTIONS 1, 2 & 3

GLASS OPTION 1: 9/16" LAMINATED GLASS (1/4" AN./0.09" EASTMAN CHEM. CO. SAFLEX/1/4" AN.)  
 GLASS OPTION 2: 9/16" LAMINATED GLASS (1/4" H.S./0.075" EASTMAN CHEM. CO. SAFLEX CP/1/4" H.S.)  
 GLASS OPTION 3: 9/16" LAMINATED GLASS (1/4" AN./0.075" EASTMAN CHEM. CO. SAFLEX CP/1/4" AN.)



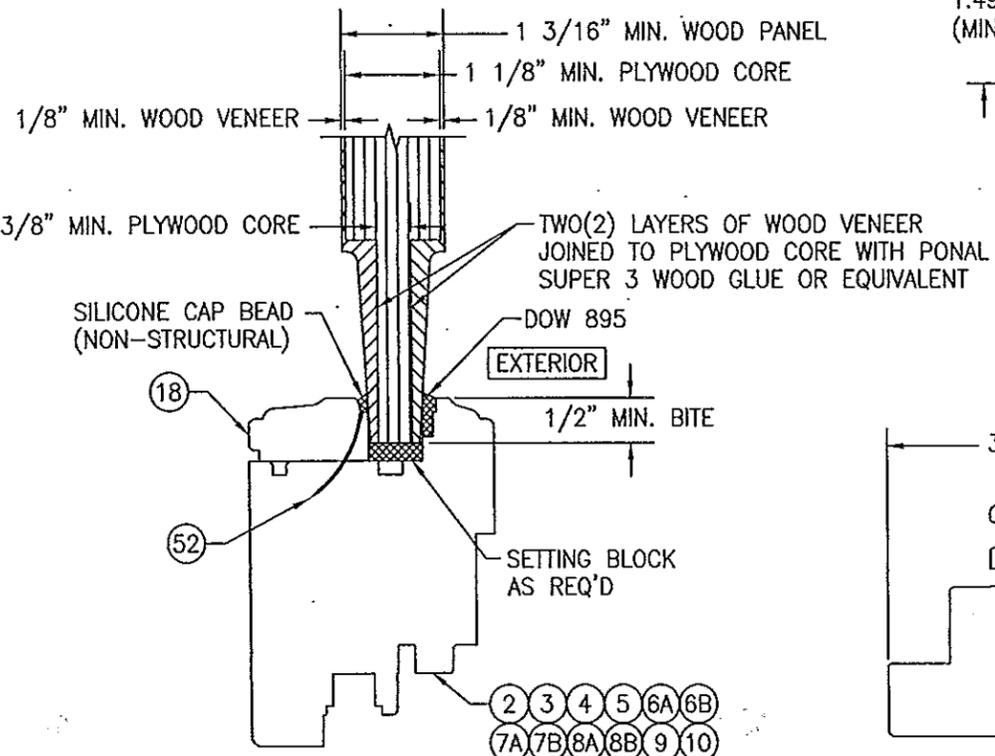
**I.G. GLAZING DETAIL**  
GLASS OPTIONS 4, & 5

GLASS OPTION 4: 1 3/16" LAMINATED I.G. (3/16" AN./0.09" EASTMAN CHEM. CO. SAFLEX/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" EASTMAN CHEM. CO. SAFLEX CP/3/16" H.S./1/2" AIR SPACE/1/4 TEMP.)

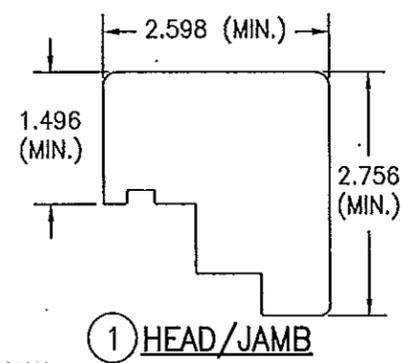


**MDF PANEL GLAZING DETAIL**

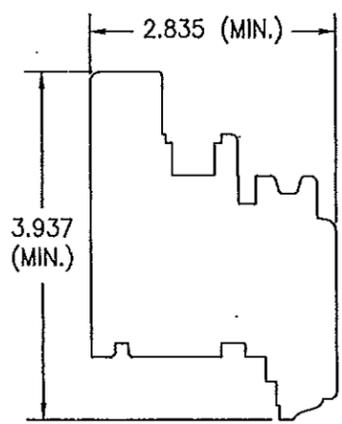
**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. 14-0303-D6  
Expiration Date 5/27/18  
*[Signature]*  
Robert W. Schaefer, P.E.



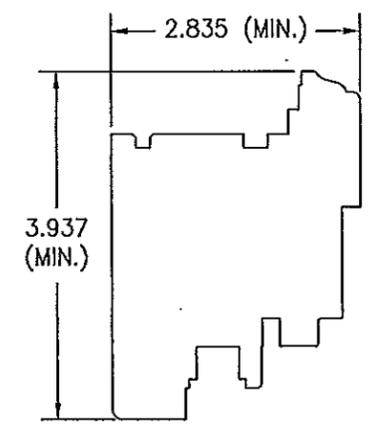
**WOOD VENEER PANEL GLAZING DETAIL**



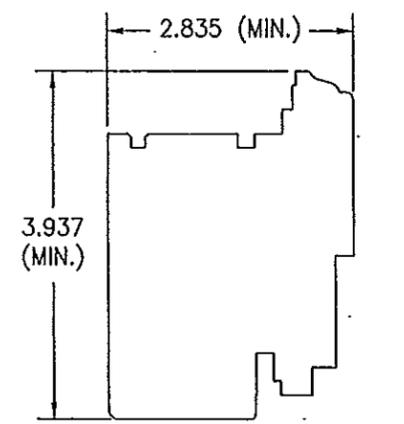
① HEAD/JAMB



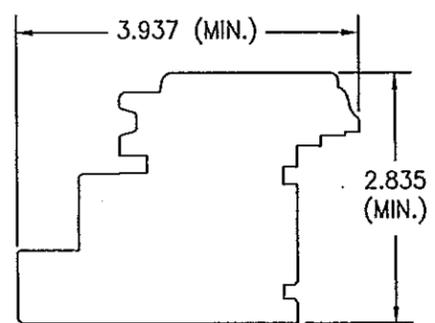
② TOP RAIL



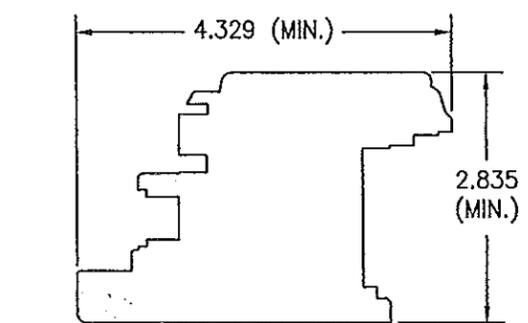
③ STANDARD BOTTOM RAIL



④ BOTTOM RAIL (USED WITH ADA THRESHOLD)

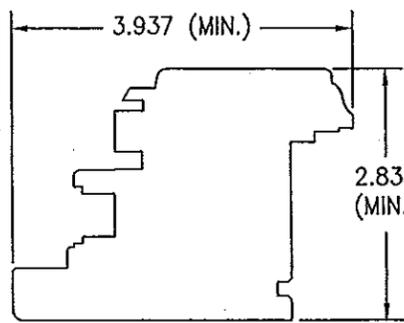


⑤ STILE

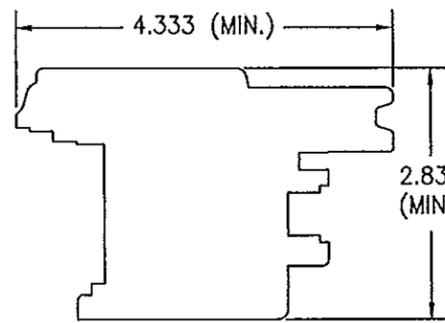


⑥A ACTIVE MEETING STILE (USED WITH REINFORCEMENT)

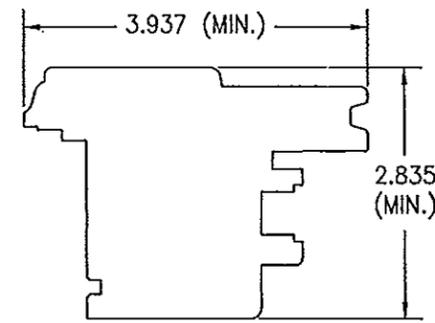
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 10/08/08	
NO.	REVISION DESCRIPTION	BY	DATE
IN-SWING IMPACT WOOD DOORS MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD.</b> SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600			
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION <b>FEB 20 2014</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1601 REV. B SHEET NO. 17 OF 19	



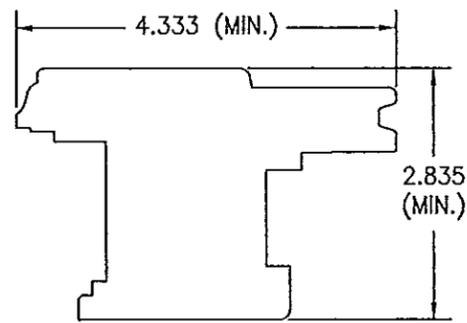
6B ACTIVE MEETING STILE (USED WITHOUT REINFORCEMENT)



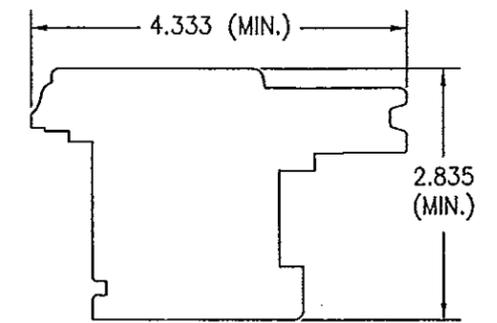
7A INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & REINFORCEMENT)



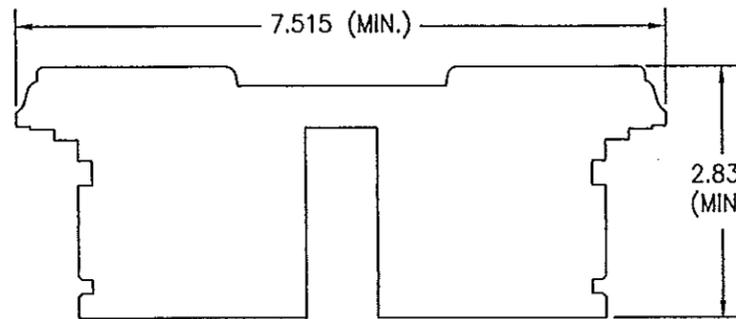
7B INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & WITHOUT REINFORCEMENT)



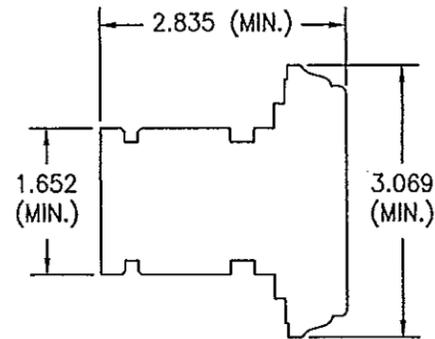
8A INACTIVE MEETING STILE (USED WITH Kfv LOCK SYSTEM & REINFORCEMENT)



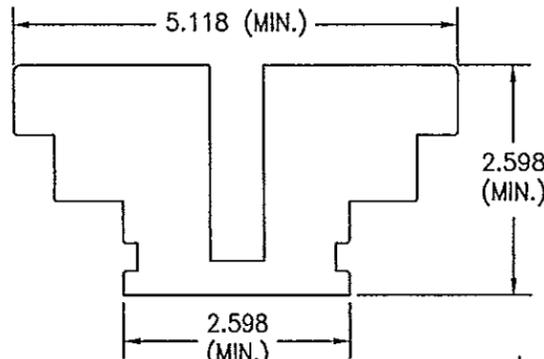
8B INACTIVE MEETING STILE (USED WITH Kfv LOCK SYSTEM & WITHOUT REINFORCEMENT)



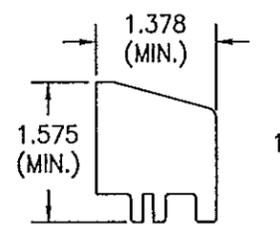
9 FIXED ASTRAGAL



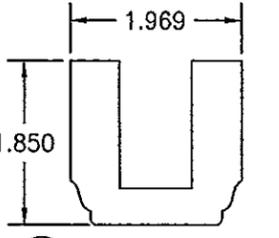
10 MID-RAIL



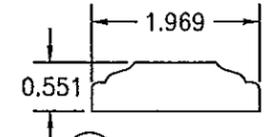
11 ONE-PIECE MULLION



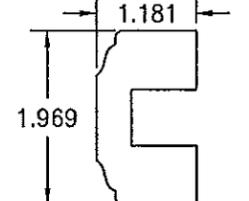
12 BOTTOM RAIL DRIP EDGE



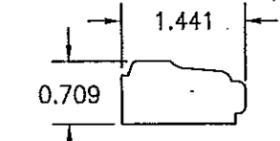
13 MULLION BAR COVER



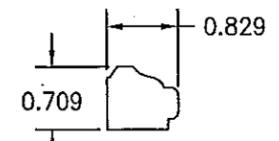
14 ASTRAGAL



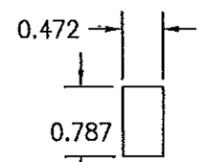
15 MULLION BAR COVER



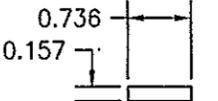
16 NON-I.G. MDF & WOOD VEENER GLAZING BEAD



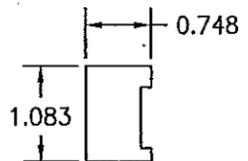
17 I.G. GLAZING BEAD



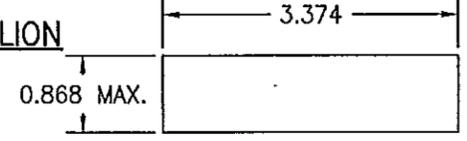
19 SPACER BLOCK



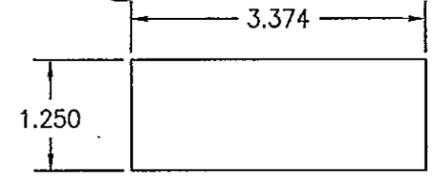
20 SPACER BLOCK



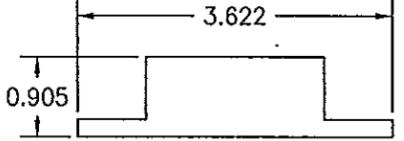
21 SPACER BLOCK (USED WITH Kfv MULTI-POINT LOCK SYSTEM)



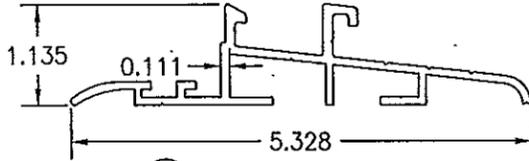
22 SUB-SILL



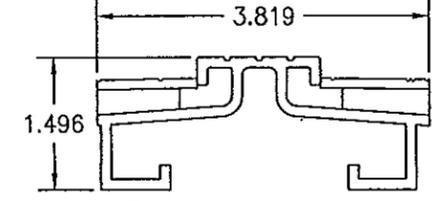
23 SUB-SILL



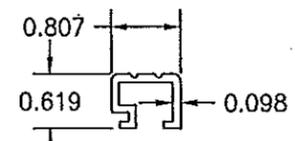
24 ADA SUB-SILL



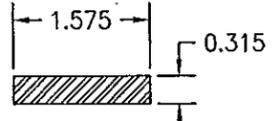
25 STANDARD SILL



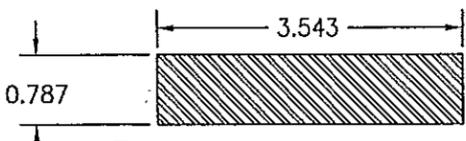
26 OPTIONAL ADA SILL



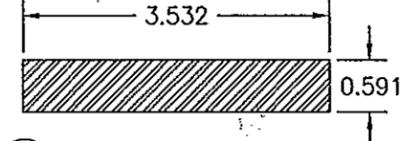
27 CONTINUOUS SILL STRIKE/COVER



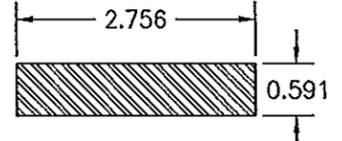
28 MEETING STILE REINFORCEMENT



29 VERTICAL FIXED ASTRAGAL REINFORCEMENT



30 VERTICAL MULLION REINFORCEMENT



31 TRANSOM MULLION REINFORCEMENT

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 14-0303-05  
 Expiration Date 02/19  
 By: [Signature]  
 Miami Dade Product Control

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

DRAWING TITLE  
 IN-SWING IMPACT WOOD GLAZED PANEL DOORS

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

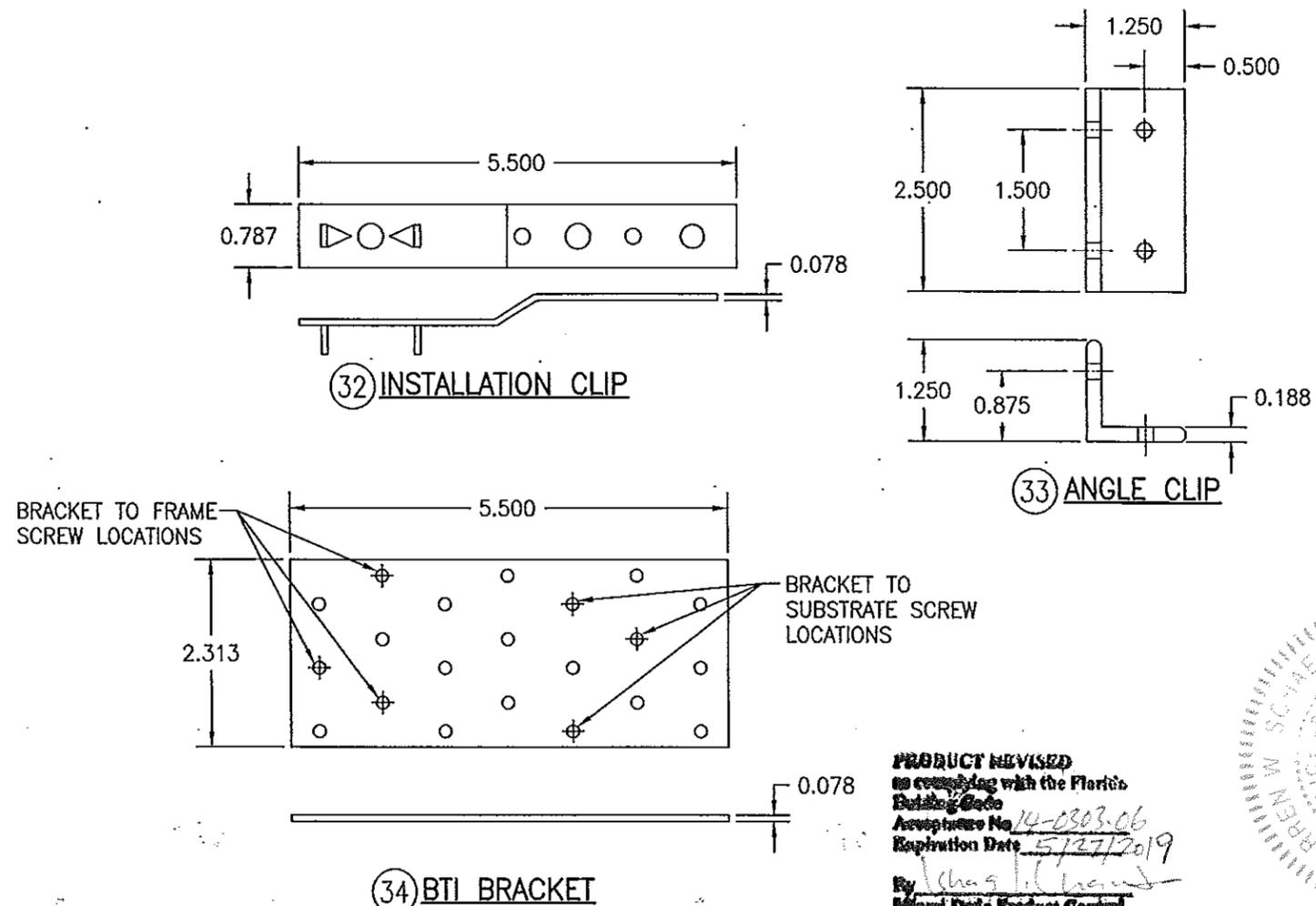
CONSULTANTS  
 W. W. SCHAEFER ENGINEERING  
 & CONSULTING, P.A. (CA 6809)  
 7480 150TH COURT NORTH  
 PALM BEACH GARDENS, FL 33418  
 PHONE: 561-744-3424

CERTIFICATION  
 FEB 20 2014  
 WARREN W. SCHAEFER, P.E.  
 P.E. NO. 44135

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 KJV LOCK SYSTEM & REINFORCEMENT)	MAHOGANY
8B	INACTIVE MEETING STILE (USED WITH KJV LOCK SYSTEM & WITHOUT REINFORCEMENT)	MAHOGANY
9	FIXED ASTRAGAL	MAHOGANY
10	MID-RAIL	MAHOGANY
11	ONE-PIECE MULLION	MAHOGANY
12	BOTTOM RAIL DRIP EDGE	MAHOGANY
13	MULLION BAR COVER	MAHOGANY
14	ASTRAGAL	MAHOGANY
15	MULLION BAR COVER	MAHOGANY
16	NON-I.G., MDF & WOOD VEENER GLAZING BEAD	MAHOGANY
17	I.G. GLAZING BEAD	MAHOGANY
19	SPACER BLOCK	MAHOGANY
20	SPACER BLOCK	MAHOGANY
21	SPACER BLOCK (USED WITH KJV MULTI-POINT LOCK SYSTEM)	MAHOGANY
22	SUB-SILL	MAHOGANY
23	SUB-SILL	MAHOGANY
24	ADA SUB-SILL	MAHOGANY
25	STANDARD SILL	BRONZE
26	OPTIONAL ADA SILL	BRONZE
27	CONTINUOUS SILL STRIKE/COVER	BRONZE
28	MEETING STILE REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
29	VERTICAL FIXED ASTRAGAL REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
30	VERTICAL MULLION REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
31	TRANSOM MULLION 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		
37	SCREWED IN HINGE	74mm X 16mm GENIATEC GMBH; FE 74WF 120mm X 16mm GENIATEC GMBH; TUE120WF 85mm X 20mm SIMONS BAKA; C1-20 130mm X 15mm ANUBA; 515 SM 130mm X 18mm ANUBA; 518 SM
38	POT HINGE	BY: SIEGENIA AUBI KG TYPE: SI
39	MULTI-POINT LOCK SYSTEM	BY: KJV: 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	0.18" X 1.57" WOOD SCREW	3 PER HINGE INTO STILE
54	0.18" X 1.57" WOOD SCREW	4 PER HINGE INTO JAMB
55	0.30" X 3.94" BAUTEC WOOD SCREW	WITHIN 8" OF ENDS & 18" MAX. O.C.
57	0.24" X 3.74" WOOD SCREW	WITHIN 8" OF ENDS & 18" MAX. O.C.
58	0.18" X 2" WOOD SCREW	WITHIN 6" OF ENDS & 17" MAX. O.C.
59	0.136" X 1.26" SELF TAPPING SCREW	WITHIN 4" OF ENDS & 13 3/4" MAX. O.C.
60	0.136" X 1.50" SELF TAPPING SCREW	WITHIN 4" OF ENDS & 13 3/4" MAX. O.C.
61	0.11" X 0.87" SELF TAPPING SCREW	WITHIN 4" OF ENDS & 13 3/4" 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.



**PRODUCT REVISED**  
to comply with the Florida  
Building Code  
Acceptance No. 14-0303-06  
Expiration Date 5/27/2019  
By: [Signature]  
Revised Date Product Control

DRAWN BY: W.R.M.	CHECKED BY: W.S.
PLOT: 1-2	DATE: 10/08/08
DATE	
BY	
REVISION DESCRIPTION	
NO.	
<b>DRAWING TITLE</b> <b>IN-SWING IMPACT WOOD DOORS</b>	
<b>MANUFACTURER</b> <b>TISCHLER UND SOHN (USA) LTD.</b> SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
<b>CONSULTANTS</b> <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
<b>CERTIFICATION</b> <b>FEB 20 2014</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
<b>DRAWING NO.</b> 1601	<b>REV.</b> B
<b>SHEET NO.</b> 19 OF 19	